Environnement Impacting Factors of institutionals investors in $$\operatorname{Bank}$$

Contents

Load Packages	2
Load Data Check Missing data	2 2
Separated Functions for Bayesian models	3
makeDataList()	
generatePost()	_
<pre>mcmcConvergence()</pre>	
bayeshist()	4
RET-Separated Bayesian models	11
Quantitative Y	
Binomial Y	42
Inter-Separated Bayesian models	54
Quantitative Y	
Binomial Y	84
DE-Separated Bayesian models	96
Quantitative Y	
Binomial Y	126
DE5-Separated Bayesian models	138
Quantitative Y	
Binomial Y	
DC-Separated Bayesian models	180
Quantitative Y	
Dinomal I	210
BRCR-Separated Bayesian models	222
Quantitative Y	
Binomial Y	252
STAB-Separated Bayesian models	264
Quantitative Y	264
Binomial Y	294
BASEL-Separated Bayesian models	306
Quantitative Y	
Binomial Y	
	0.40
EPSI-Separated Bayesian models	348

```
Binomial Y . . . .
BASEL*EPSI-Separated Bayesian models
                                                        390
  Load Packages
library(openxlsx)
#install.packages('glmnet')
library(glmnet)
## Le chargement a nécessité le package : Matrix
## Loaded glmnet 4.1-1
library(rjags)
## Le chargement a nécessité le package : coda
## Linked to JAGS 4.3.0
## Loaded modules: basemod, bugs
library(BayesCompanion)
##
## Attachement du package : 'BayesCompanion'
## L'objet suivant est masqué depuis 'package:coda':
##
##
    crosscorr
library(foreach)
```

Load Data

```
X <- read.xlsx("BDD_DEF_2.xlsx")
# View(X) # Display for check</pre>
```

Check Missing data

```
sum.na <- function(x){ sum(is.na(x))}</pre>
apply(X, 2, sum.na)
##
                   Country_B Shareholder
                                                     ET3
                                                                  EPS
                                                                                ER3
           Bank
##
              0
                            0
                                                       0
                                                                    0
                                                                                  0
##
            ER1
                           ER
                                        CP
                                                    CERT
                                                                  INI
                                                                             DISCL
```

0 0 0 0 0 0 PRI INIT EPI ## STEW II 10 FOR 10 ## 0 Λ ## SH1 SH10 II INTER GPS SIZE ## 0 0 Λ Ω Λ Λ ## GROWTH ROE ROA CAR NPL DE 0 ## 0 0 0 2 5

##	DE_5	DC	DC_5	DEP0	RET	EPI_C
##	0	0	0	0	0	1
##	GFI	BASEL	EPSI	FS	BRCR	STAB
##	0	38	29	0	0	0
##	GDP					
##	0					

Separated Functions for Bayesian models

makeDataList()

A function to make list of data X is the whole data frame form which we extract the data. x.name is a string, the name of the explicative variable we add to GFI, SIZE and GDP. y.name is a string, the name of the explained variable. cut.name is a string, the name of the cutting variable.

```
makeDataList <- function(</pre>
   X=X
   x.name=NULL, y.name=NULL, cut.name=NULL
  if(is.null(x.name) | !(x.name %in% colnames(X))
  )stop('x.name must be the name of a column of X')
    if(is.null(y.name) | !(y.name %in% colnames(X))
  )stop('y.name must be the name of a column of X')
    if(is.null(cut.name) | !(cut.name %in% colnames(X))
  )stop('cut.name must be the name of a column of X')
  if(sum(is.na(X[ , x.name]))>0) stop("Column x.name contains NA")
  if(sum(is.na(X[ , y.name]))>0) stop("Column y.name contains NA")
  if(sum(is.na(X[ , cut.name]))>0) stop("Column cut.name contains NA")
   list(
   N = nrow(X), # number of rows
   n = ifelse(y.name=='CP', 3, 8), # max value for CP and DISCL -- not use elsewhere
   ncut=length(unique(X[ , cut.name])),
   SIZE=X$SIZE,
   GPS = X$GPS,
   GFI = X$GFI,
   x = X[, x.name],
   y = X[, y.name],
    cut=as.factor(X[ , cut.name])
}
makeDataList(X, x.name='PRI', y.name='EPS', cut.name='RET')
# NA in column CAR => error
#makeDataList(X, x.name='CAR', y.name='EPS')
```

generatePost()

A function to generate bayesian a posteriori

```
#model <- "model1-cut.R"</pre>
#x.name <- 'PRI'
#y.name <- 'EPS'
#cut.name <- 'RET'
#DF <- X # extraction of data
generatePost <- function(DF, x.name, y.name, cut.name, model='model1-cut.R'){</pre>
  dataList <- makeDataList(DF, x.name, y.name, cut.name )</pre>
  jagsModel <- jags.model(</pre>
    file = model,
    data=dataList,
   n.chains=3,
    n.adapt=500
  update(jagsModel, n.iter=500)
  coda.samples(
    jagsModel,
    variable.names = c('beta0', 'beta1', 'alpha1',
                         'betaSIZE', 'betaGFI',
                        'betaGPS'), # 'nu' for robust student model # not used
   n.iter=3000,
    thin=1
   )
}
# Example :
PRI_EPS <- generatePost(X, x.name='PRI', y.name='EPS',</pre>
                         cut.name='RET',
                         model='model1-cut.R')
```

mcmcConvergence()

A function to validate convergence

```
mcmcConvergence <- function(codaObj){
  print(effectiveSize(codaObj))
  plot(codaObj, ask=FALSE, auto=FALSE)
}
# Example :
#PRI_EPS <- generatePost(X, x.name='PRI', y.name='EPS', model='model1.R')
mcmcConvergence(PRI_EPS)</pre>
```

bayesList()

A function to analyse lists of variable

```
bayesList <- function(X, x.names, y.names, cut.name, model ){
  post <- list()
  foreach::foreach(y.name = y.names, .combine = rbind, .packages=c('foreach'))%do%{
    foreach::foreach( x.name = x.names, .combine=c)%do%{
        print(" ______ ")
        print(paste(" Analysis of Y=",y.name," explained by x=", x.name, "cutted by",cut.name))
        post[[x.name]] <- generatePost(X,</pre>
```

```
x.name, y.name, cut.name,
                     model=model)
      print(effectiveSize(post[[x.name]]))
      # mcmcConvergence(EPS[[x.name]])
      M1 <- as.matrix(post[[x.name]][,'beta1[1]'])</pre>
      M2 <- as.matrix(post[[x.name]][,'beta1[2]'])</pre>
      M <- M2-M1
      proba <- signif(100 * max(c(mean(M>0), mean(M<0)))), 4) * <math>sign(mean(M))
      conclusion <- paste('The difference of', x.name,' impact \n between', cut.name,'cut samples in '</pre>
      print( conclusion)
      # display posterior histogram of beta2-beta1
      layout(matrix(1:4, ncol=2, byrow=TRUE))
      plotPost(M ,
    compVal = 0,
    main= conclusion
    )
      plotPost(M2 ,
    compVal = 0,
    main= bquote(beta[2])
      plotPost(M1 ,
    compVal = 0,
    main= bquote(beta[1])
      plotPost(abs(M2) -abs(M1) ,
    compVal = 0,
    main= "|beta[2]| - |beta[1]|"
      proba
  }-> res.quanti
  save(post,
       file=paste0('post-cut',model,'.RData'))
  colnames(res.quanti) <- x.names</pre>
  rownames(res.quanti) <- y.names</pre>
  res.quanti
# Example
y.names <- c('EPS' , 'ET3')
x.names <- c('PRI', 'INIT' , 'EPI')</pre>
cut.name='RET'
bayesList(X, x.names, y.names, cut.name,
'model1-cut.R')
## [1] "
## [1] " Analysis of Y= EPS explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
##
                                                      beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8617.801 9000.000
                       9000.000 8690.071 8617.801
                                                      9000.000
                                                                8860.398
                                                                          6214.400
   betaSIZE
##
   6689.938
## [1] "The difference of PRI impact \n between RET cut samples in EPS has a\n probability of 60.92"
## [1] " Analysis of Y= EPS explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
   between RET cut samples in EPS has a
             probability of 60.92 %
                mode = 0.13
                                                              mode = 0.224
               39.1% < 0 < 60.9%
                                                               6.3% < 0 < 93.7%
                                                                 :95% HDI
                  95% HDI
          -0.401
                           0.541
                                                        -0.0659
             -0.5
                     0.0
                           0.5
                                                     -0.4
                                                               0.0
                                                                    0.2
                                                                         0.4
                                                                              0.6
                                   1.0
                                                                                   0.8
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 0.154
20\% < 0 < 80\%
                                                               mode = 0.0327
42.1% < 0 < 57.9%
                                                                  95% HDI
                   95% HDI
           -0.218
                              0.515
                                                          -0.356
                                                                             0.41
               -0.2
                        0.2
       -0.6
                                0.6
                                                           -0.5
                                                                     0.0
                                                                               0.5
                 Param. Val.
                                                              Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
##
##
   Initializing model
##
## alpha1[1] alpha1[2]
                         beta0[1] beta0[2] beta1[1] beta1[2]
                                                                     betaGFI
                                                                                betaGPS
    8187.418 8394.944
                         9000.000 9000.000 8187.418 8394.944
                                                                    8361.755
                                                                               6839.907
    betaSIZE
##
##
  6753.669
## [1] "The difference of INIT impact \n between RET cut samples in EPS has a\n probability of -87.8
## [1] " Analysis of Y= EPS explained by x= EPI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                         \beta_2
   between RET cut samples in EPS has a
             probability of -87.84 %
              mode = -7.44
87.8% < 0 < 12.2%
                                                             mode = -3.97
89.2% < 0 < 10.8%
                     95% HDI
                                                                    95% HDI
                                                             -10.5
           -30 -20 -10
                                                           -15 -10
                                                                       -5
                                                                              0
                                                                                    5
                                    10
                                                                                         10
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|
                   \begin{array}{c} mode = 3.55 \\ 28\% < 0 < 72\% \end{array}

    \text{mode} = -0.134 \\
    50.3\% < 0 < 49.7\%

                     95% HDI
                                                                        95%:HDI
                                                                  -9.67
                                                                                   8.53
                                                             Г
          -20
                -10
                               10
                                     20
                                                           -20
                                                                    -10
                                                                                     10
                  Param. Val.
                                                                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
```

##

##

##

Allocating nodes

Reading data back into data table

Initializing

```
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
##
## Initializing model
##
                        beta0[1]
## alpha1[1] alpha1[2]
                                  beta0[2]
                                            beta1[1]
                                                       beta1[2]
                                                                  betaGFI
                                                                             betaGPS
  8186.995 6098.491
                        8376.367 9256.007 8186.995
                                                       6098.491
                                                                 6608.769
                                                                            6787.733
   betaSIZE
## 6043.324
## [1] "The difference of EPI impact \n between RET cut samples in EPS has a\n probability of -87.14
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
   between RET cut samples in EPS has a
                                                                      \beta_2
            probability of -87.14 %
            \begin{array}{c} mode = -0.318 \\ 87.1\% < 0 < 12.9\% \end{array}
                                                               mode = -0.143
                                                               87% < 0 < 13%
                   95% HDI
                                                                   95% HDI
                            0.208
           -0.708
                                                                           0.126
           -1.0
                  -0.5
                          0.0
                                  0.5
                                                          -0.6
                                                                    -0.2 0.0 0.2 0.4
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                  mode = 0.116
28.3% < 0 < 71.7%
                                                                mode = 0.0236
                                                                 52% < 0 < 48%
                     95% HDI
                                                                   95%:HDI
             -0.5
                       0.0
                               0.5
                                                             -0.5
                                                                       0.0
                                                                                 0.5
                  Param. Val.
                                                               Param. Val.
```

Compiling data graph
Resolving undeclared variables
Allocating nodes
Initializing
Reading data back into data table
Compiling model graph

```
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 2053
##
##
## Initializing model
##
                       beta0[1] beta0[2] beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                                                               betaGFI
                                                                         betaGPS
   8088.106 8725.039
                       9301.870 9000.000 8088.106 8725.039
                                                              7988.290
                                                                        7110.169
   betaSIZE
##
   7009,610
##
  [1] "The difference of PRI impact \n between RET cut samples in ET3 has a\n probability of -91.11
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
   between RET cut samples in ET3 has a
            probability of -91.11 %
              mode = -0.564
91.1% < 0 < 8.9%
                                                            mode = 0.745
                                                              99.5% < 0 < 0.5%
                   95% HDI
                                                                95% HDI
                             0.289
                                                                         -0.161
          -2.0
                   -1.0
                            0.0 0.5 1.0
                                                         -1.5 -1.0
                                                                     -0.5
                                                                            0.0
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
             mode = -0.129
64.8% < 0 < 35.2%
                                                               mode_{-0.468}
                                                                 11.3% < 0 < 88.7%
                 95% HDI
                                                                 95% HDI
          -0.803 : 0.503
                                                           -0.256 1.08
                 -0.5 0.0 0.5
                                                       -1.0
                                                                 0.0 0.5
                                                                         1.0 1.5
       -1.5
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
```

Compiling data graph
Resolving undeclared variables
Allocating nodes
Initializing
Reading data back into data table
Compiling model graph
Resolving undeclared variables

```
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                  beta0[2]
                                           beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   8726.348 8528.629
                        9000.000 9666.831 8726.348 8528.629
                                                                 8007.977
                                                                          7121.136
   betaSIZE
   6566.356
##
## [1] "The difference of INIT impact \n between RET cut samples in ET3 has a\n probability of -77.4
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                     \beta_2
   between RET cut samples in ET3 has a
            probability of -77.49 %
            mode = -8.47
77.5% < 0 < 22.5%
                                                             mode = -11.2
97.3% < 0 < 2.7%
                  95% HDI
                                                                 95% HDI:
           -40
                  -20
                          0
                                20
                                                           -30
                                                                -20
                                                                                  10
                                                               Param. Val.
                 Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = -4.05
65.3% < 0 < 34.7%
                                                                  mode = 6.57
29.5% < 0 < 70.5%
                                                                   95% HDI
                    95% HDI
             -20.9
                               14.6
                                                             -12.6
                                                                          18.7
        -40
                -20
                          0
                              10
                                  20
                                      30
                                                         -30
                                                                 -10 0
                                                                          10
                                                                               20
                                                                                   30
                 Param. Val.
                                                               Param. Val.
##
  Compiling data graph
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

Reading data back into data table

Compiling model graph

Resolving undeclared variables

Allocating nodes

```
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8277.732 6422.724 8622.144 9000.000 8277.732 6422.724
                                                               6554.853
                                                                         6238.887
   betaSIZE
  6201.892
## [1] "The difference of EPI impact \n between RET cut samples in ET3 has a\n probability of 50.6 %
        The difference of EPI impact
                                                                   \beta_2
   between RET cut samples in ET3 has a
             probability of 50.6 %
               mode = 0.066
49.4% < 0 < 50.6%
                                                        mode = -0.185
79.1% < 0 < 20.9%
                  95% HDI
                                                              95% HDI
           -0.798
                      0.809
                                                       -0.653
                                                                        0.266
        -1.5
                 -0.5
                           0.5 1.0 1.5
                                                             -0.5
                                                                     0.0
                                                                             0.5
                                                     -1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
             mode = -0.194
71.4% < 0 < 28.6%
                                                             mode = -0.0362
                                                               58% < 0 < 42%
                                                                95% HDI
                  95% HDI
                                                          -0.695
                            0.489
                                                                          0.46
           -0.866
                   -0.5 0.0 0.5
                                                     -1.5 -1.0 -0.5 0.0
                                                                           0.5
         -1.5
                                  1.0
                                                                                 1.0
                 Param. Val.
                                                             Param. Val.
##
         PRI
               INIT
                       EPT
## EPS 60.92 -87.84 -87.14
```

RET-Separated Bayesian models

Quantitative Y

ET3 -91.11 -77.49 50.60

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('EPS', 'ET3', 'ER3', 'ER1', 'ER')
cut.name <- 'RET'
BLquantiCut <- bayesList(X, x.names, y.names, cut.name, 'model1-cut.R')</pre>
```

```
## [1] " Analysis of Y= EPS explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
## Compiling data graph
     Resolving undeclared variables
     Allocating nodes
##
##
     Initializing
##
     Reading data back into data table
## Compiling model graph
     Resolving undeclared variables
##
     Allocating nodes
##
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2053
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
## 8953.641 8780.896 9736.145 9892.478 8953.641 8780.896 8563.855 6898.746
## betaSIZE
## 6860.635
## [1] "The difference of PRI impact \ between RET cut samples in EPS has a\n probability of 61.7 \%
## [1] " Analysis of Y= EPS explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact β_2 between RET cut samples in EPS has a probability of 61.7 % mode = 0.0527 38.3% < 0 < 61.7% mode = 0.2147.1% < 0 < 92.9% 95% HDI 95% HDI 0.547 -0.415-0.08080.521 -0.50.0 0.5 1.0 -0.20.2 0.4 0.6 0.8 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = 0.0348 \\ 41.6\% < 0 < 58.4\% \end{array}$ $\begin{array}{l} \text{mode} = 0.162 \\ 20.5\% < 0 < 79.5\% \end{array}$ 95% HDI 95% HDI 0.535 0.0 -0.50.0 0.5 -0.50.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2053 ## ## Initializing model

betaGFI

betaGPS

7115.402

[1] "The difference of INIT impact \n between RET cut samples in EPS has a\n probability of -88.0

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

[1] " Analysis of Y= EPS explained by x= EPI cutted by RET"

500): Unused variable "n" in data

8689.639 7848.327 8438.718 8453.626 8689.639 7848.327 8245.523

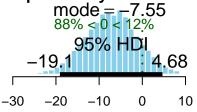
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

##

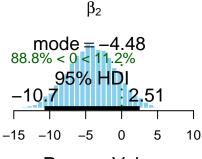
betaSIZE ## 6543.982

[1] "

The difference of INIT impact between RET cut samples in EPS has a probability of _-88.04 %



Param. Val.



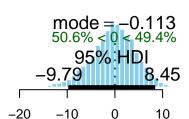
Param. Val.

|beta[2]| - |beta[1]|

$\begin{array}{c} \beta_1 \\ \text{mode} = 2.65 \\ 27.3\% < 0 < 72.7\% \\ \textbf{95\% HDI} \\ -6.95 \vdots & \textbf{13.1} \\ -10 & 0 & 10 & 20 \\ \end{array}$

Param. Val.

500): Unused variable "n" in data



Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 8662.650 6147.345 7237.224 9158.869 8662.650 6147.345
                                                                6573.800
                                                                          6744.402
## betaSIZE
## 6442.167
## [1] "The difference of EPI impact \n between RET cut samples in EPS has a\n probability of -87.38
## [1] "
## [1] " Analysis of Y= EPS explained by x= STEW cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of EPI impact β_2 between RET cut samples in EPS has a probability of -87.38 % mode = -0.276 87.4% < 0 < 12.6% mode = -0.14187.2% < 0 < 12.8% 95% HDI 95% HDI 0.188 0.105 -1.0-0.50.0 0.5 -0.6 -0.4 -0.20.0 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0777mode = 0.0020428.2% < 0 < 71.8% 52% < **0** < 48% 95%:HDI 95% HDI 0.494-0.359-0.278-0.6-0.20.2 0.6 0.2 0.4 0.6 -0.6-0.2Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
7959.014 8668.094 9000.000 9000.000 7959.014 8668.094 8283.994 7119.717
betaSIZE
6146.814
[1] "The difference of STEW impact \n between RET cut samples in EPS has a\n probability of -93.3
[1] " ______ "
[1] " Analysis of Y= EPS explained by x= II_10 cutted by RET"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

##

##

##

Total graph size: 2047

500): Unused variable "n" in data

Initializing model

The difference of STEW impact β_2 between RET cut samples in EPS has a probability of -93.33 % mode = -1.38 93.3% < 0 < 6.7% mode = -0.063952.5% < 0 < 47.5% 95% HDI 95% HDI 0.975 0.499-4 -2 0 2 -2 -1 0 1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\text{mode} = 1.36 \\ 4\% < 0 < 96\%$ mode = -0.93288.9% < 0 < 11.1% 95% HDI 95% HDI -0.1420 2 3 -3 -2 -2 -1 4 -1 0 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8783.058 8818.214 9475.248 9819.403 8783.058 8818.214 8511.331 7226.267
## betaSIZE
## 6977.352
## [1] "The difference of II_10 impact \n between RET cut samples in EPS has a\n probability of 58.9
## [1] "
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

β_2 between RET cut samples in EPS has a probability of 58.98 % mode = 4.8530.7% < 0 < 69.3% mode = 6.8341% < 0 < 59% 95% HDI 95% HDI **5**4.5 -100-500 50 -40-200 20 40 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 1.96 48.3% < 0 < 51.7% mode = −1.01 64.4% < 0 < 35.6% 95% HDI 95% HDI -38.8 44.3 21.9 -50 0 50 -40 0 20 40 -80Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables

The difference of II_10 impact

```
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2044
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8146.275 8024.600 9214.448 9179.313 8146.275 8024.600 7671.284
                                                                         7171.487
## betaSIZE
## 6784.422
## [1] "The difference of FOR_10 impact \n between RET cut samples in EPS has a\n probability of 63.
## [1] "
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact β_2 between RET cut samples in EPS has a probability of 63.47 % mode = 2.84 36.5% < 0 < 63.5% mode = 5.6311.1% < 0 < 88.9% 95% HDI 95% HDI -17**.**1 25.8 18.2 -40 -20 0 20 40 60 -100 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 2.3437.3% < 0 < 62.7% mode = 0.51750.9% < 0 < 49.1% 95%:HDI 95% HDI -20 20 -30 -20 -10 20 40 0 10 Param. Val. Param. Val. ## Compiling data graph

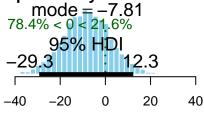
```
Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8658.571 8953.137 9734.891 9783.891 8658.571 8953.137
                                                                8457.587
                                                                          7036.458
##
  betaSIZE
  7166.396
## [1] "The difference of PRI impact \n between RET cut samples in ET3 has a\n probability of -91.51
## [1] "
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact between RET cut samples in ET3 has a β_2 probability of -91.51 % mode = -0.567 91.5% < 0 < 8.5% $\text{mode} = -0.662 \\ 99.5\% < 0 < 0.5\%$ 95% HDI 95% HDI 0.27 -0.178 -2 -1 0 1 -1.5 -1.0 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.068464.6% < 0 < 35.4% $\begin{array}{l} mode = 0.435 \\ 10.9\% < 0 < 89.1\% \end{array}$ 95% HDI 95% HDI 0.525 1.09 -1.0 -0.5 0.0-1.5 -1.0 -0.5 0.00.5 0.5 1.0 1.0 1.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes Initializing Reading data back into data table Compiling model graph Resolving undeclared variables Allocating nodes

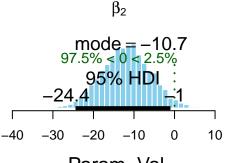
```
##
##
##
##
##
##
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
## 8652.911 8499.087 9000.000 9000.000 8652.911 8499.087 8753.292
                                                                         6885.712
## betaSIZE
## 6884.710
## [1] "The difference of INIT impact \n between RET cut samples in ET3 has a\n probability of -78.3"
## [1] "
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of INIT impact between RET cut samples in ET3 has a probability of -78.37 %



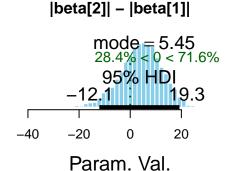
Param. Val.



Param. Val.

β_1 mode = -4.3865.9% < 0 < 34.1% 95% HDI 14.9 -20 20 30 -400 10 Param. Val.

500): Unused variable "n" in data



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8678.256 5873.474 8323.231 8616.060 8678.256 5873.474
                                                                6869.907
                                                                          6908.726
## betaSIZE
## 6891.080
## [1] "The difference of EPI impact \n between RET cut samples in ET3 has a\n probability of 50.58"
## [1] "
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by RET"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of EPI impact β_2 between RET cut samples in ET3 has a probability of 50.58 % mode = -0.0030749.4% < 0 < 50.6%mode = -0.22378.7% < 0 < 21.3% 95% HDI 95% HDI 0.838 0.29-1.5-0.50.5 1.0 1.5 -1.0-0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.17871.5% < 0 < 28.5% $\begin{array}{l} mode = -0.00828 \\ 58.6\% < 0 < 41.4\% \end{array}$ 95% HDI 95% HDI -0.897 0.479 0.463 -0.5 0.0 0.5 1.0 -1.0 -0.5-1.5 0.0 0.5 1.0 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 8059.797 8841.098 9570.086 9748.874 8059.797 8841.098
                                                                8087.864
                                                                          6643.124
## betaSIZE
## 6884.939
## [1] "The difference of STEW impact \n between RET cut samples in ET3 has a\n probability of -80.2
## [1] "
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between RET cut samples in ET3 has a probability of -80.27 % modé = -1.27 80.3% < 0 < 19.7% mode = -1.595.5% < 0 < 4.5% 95% HDI 95% HDI: 0.265 -6 -8 -4 -2 0 2 -5 -4 -3 -2 -1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.1653.9% < 0 < 46.1% mode = 0.66 33.2% < 0 < 66.8% 95%:HDI 95% HDI Ш -2 0 2 -2 0 2 -4 4 -4 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information:

```
Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  8663.339 8816.751 9285.546 9000.000 8663.339 8816.751 8304.765
                                                                        6977.816
## betaSIZE
## 6271.199
## [1] "The difference of II_10 impact \n between RET cut samples in ET3 has a\n probability of 54.6
## [1] "
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of II_10 impact β_2 between RET cut samples in ET3 has a probability of 54.63 % modé = 5.93 45.4% < 0 < 54.6% mode = 9.133.3% < 0 < 66.7% 95% HDI 95% HDI 91.3 51.2 -1000 100 200 -500 50 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -1.965.2% < 0 < 34.8% mode = 3.246% < 0 < 54% 95% HDI 95% HDI

-50 0

500): Unused variable "n" in data

Param. Val.

-150

50 100

Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2044 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8092.856 8460.630 9246.221 9240.562 8092.856 8460.630 7597.709 6705.770 ## betaSIZE 6657.383 ## [1] "The difference of FOR_10 impact \n between RET cut samples in ET3 has a\n probability of 50. ## [1] " ## [1] " Analysis of Y= ER3 explained by x= PRI cutted by RET" ## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

-67.9

-150

-50

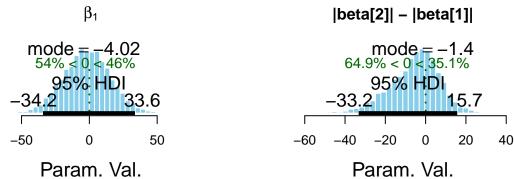
Param. Val.

0

38.3

50

The difference of FOR_10 impact β_2 between RET cut samples in ET3 has a probability of 50.11 % mode = -2.73 49.9% < 0 < 50.1% mode = -1.0756.3% < 0 < 43.7% 95%:HDI 95%: HDI 38.7 21.9 18.9 -100-500 50 -40-200 20 40 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8509.737 8507.029 9142.708 9176.934 8509.737 8507.029
                                                                8632.081 6718.482
## betaSIZE
## 7381.502
## [1] "The difference of PRI impact \n between RET cut samples in ER3 has a\n probability of -95.43
## [1] "
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact β_2 between RET cut samples in ER3 has a probability of -95.43 % mode = -0.713 95.4% < 0 < 4.6% 95% HDI: 95% HDI 0:0899 0.215 -2.5-1.5-0.50.5 -2.0 -1.5 -1.0 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.040351.8% < 0 < 48.2% 95% HDI 95% HDI -0.198 -0.650.663 -1.0 -0.5 0.00.5 1.0 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2053 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS ## 8606.254 8345.580 9272.341 9258.425 8606.254 8345.580 7949.162 6904.233 ## betaSIZE ## 6617.958 ## [1] "The difference of INIT impact \n between RET cut samples in ER3 has a\n probability of -86.9

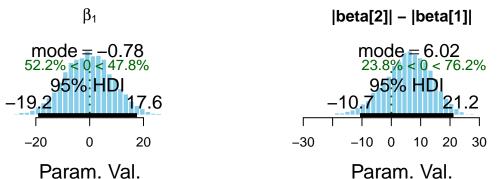
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] " Analysis of Y= ER3 explained by x= EPI cutted by RET"

500): Unused variable "n" in data

[1] "

The difference of INIT impact β_2 between RET cut samples in ER3 has a probability of -86.93 % mode = -12.8 86.9% < 0 < 13.1% mode = -1398.3% < 0 < 1.7% 95% HDI 95% HDI: -0.327 -40-200 20 -30 -20 -10 0 10 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 8762.396 6076.029 8687.529 8742.240 8762.396 6076.029
                                                                6577.755
                                                                          6383.688
## betaSIZE
## 6187.709
## [1] "The difference of EPI impact \n between RET cut samples in ER3 has a\n probability of -67.34
## [1] "
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 between RET cut samples in ER3 has a probability of -67.34 % mode = -0.13267.3% < 0 < 32.7% 95% HDI 95% HDI -0.6660.652 0.264 -1.5-0.50.5 1.0 1.5 -1.0-0.50.0 0.5 Param, Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = -0.00651 \\ 51.2\% < 0 < 48.8\% \end{array}$ mode = 0.005952.3% < 0 < 47.7% 95% HDI 95%:HDI -0.58**5** 0.535 -0.7040.683 -1.5 -1.0 -0.5-1.5-0.5 0.0 0.5 1.0 0.0 0.5 1.0 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  7775.626 8762.130 8889.021 8943.358 7775.626 8762.130 7872.252
                                                                          6648.449
## betaSIZE
## 6446.820
## [1] "The difference of STEW impact \n between RET cut samples in ER3 has a\n probability of -88.2
## [1] "
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

β_2 between RET cut samples in ER3 has a probability of -88.22 % modé = -2.1 88.2% < 0 < 11.8% mode = -1.7696.4% < 0 < 3.6% 95% HDI: 95% HDI 0.119-8 -6 -4 -20 2 -5 -4 -3 -2 -1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.329 40.9% < 0 < 59.1%mode = 0.72831.2% < 0 < 68.8% 95% HDI 95% HDI -2 2 -2 0 2 0 -4 -4 4 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8913.613 7944.176 9162.970 9417.040 8913.613 7944.176 8738.465 7211.726 ## betaSIZE

The difference of STEW impact

6397.855

500): Unused variable "n" in data

[1] "

[1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by RET"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of II_10 impact \n between RET cut samples in ER3 has a\n probability of -55."

The difference of II_10 impact β_2 between RET cut samples in ER3 has a probability of -55.77 % mode = -7.7 55.8% < 0 < 44.2% mode = 13.3 27.9% < 0 < 72.1%95% HDI 95%:HDI 85.4 **5**6.2 -150-50 0 50 100 -500 50 100 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 21.4 31.2% < 0 < 68.8% mode = -2.51 66.8% < 0 < 33.2%95% HDI 95% HDI 39.5 -1000 -150 -100 -50 50 50 100 150 0 100

Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2044
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8301.166 7920.999
                       8868.884 8869.251 8301.166 7920.999 7949.494
                                                                         7272.410
## betaSIZE
## 6999.601
## [1] "The difference of FOR_10 impact \n between RET cut samples in ER3 has a\n probability of 50.
## [1] "
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

Param. Val.

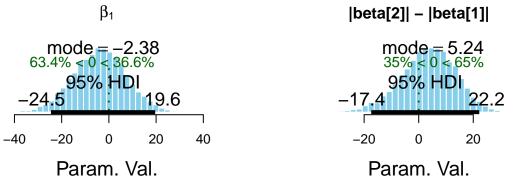
The difference of FOR_10 impact β_2 between RET cut samples in ER3 has a probability of 50.84 % mode = 1.89 49.2% < 0 < 50.8% mode = 1.343.4% < 0 < 56.6% 95% HDI 95% HDI 22.1 40.3 -500 50 -40-200 20 40 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -1.3365.6% < 0 < 34.4% mode = 4.546.1% < 0 < 53.9% 95% HDI 95% HDI 36.2 16.4 -20 -40 -20 20 -600 20 40 60 -6080 40 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8991.373 8163.414 9000.000 9000.000 8991.373 8163.414 7903.153
                                                                          7100.477
##
  betaSIZE
  7283.335
## [1] "The difference of PRI impact \n between RET cut samples in ER1 has a\n probability of -84.72
## [1] "
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact β_2 between RET cut samples in ER1 has a probability of -84.72 % mode = -0.507 84.7% < 0 < 15.3% mode = -0.584 96.8% < 0 < 3.2%95% HDI: 95% HDI 0.4760.0328 -2 -1 0 1 -2.0-1.00.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.13357.5% < 0 < 42.5% mode = 0.354 22.9% < 0 < 77.1%95% HDI 95% HDI -0.4**76** -1.5-0.5 0.0 0.5 1.0 -1.00.0 0.5 1.0 1.5 1.5 Param. Val. Param. Val. Resolving undeclared variables

```
## Compiling data graph
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  9000.000 8288.007 9898.479 9939.844 9000.000 8288.007 8725.105
                                                                         7366.871
## betaSIZE
## 7570.791
## [1] "The difference of INIT impact \n between RET cut samples in ER1 has a\n probability of -74.8
## [1] "
## [1] " Analysis of Y= ER1 explained by x= EPI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between RET cut samples in ER1 has a probability of -74.82 % mode = -8.0874.8% < 0 < 25.2% mode = -1395.6% < 0 < 4.4% 95% HDI 95% HDI: -60-20 0 20 40 -40 -30 -20 -10 0 10 20 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8577.210 6157.695 9579.373 9057.517 8577.210 6157.695 7005.303
                                                                          6642.862
## betaSIZE
## 6120.258
## [1] "The difference of EPI impact \n between RET cut samples in ER1 has a\n probability of 59.96"
## [1] "
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of EPI impact β_2 between RET cut samples in ER1 has a probability of 59.96 % mode = -0.0598mode = 0.0079540% < 0 < 60% 55.9% < 0 < 44.1% 95% HDI 95%:HDI -0.878 1.16 -0.6170.535 -2 -1 0 1 2 -1.0-0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.11465.6% < 0 < 34.4% mode = -0.0073163.8% < 0 < 36.2% 95% HDI 95% HDI -0.823 0.487 **–1.05** 0.641 -1.5 -0.50.5 1.5 -1.5-0.5 0.0 0.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes

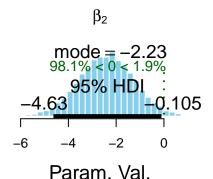
```
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7985.261 8579.798 9000.000 9000.000 7985.261 8579.798 8137.447 6744.396
## betaSIZE
## 6633.324
## [1] "The difference of STEW impact \n between RET cut samples in ER1 has a\n probability of -72.0
## [1] "
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

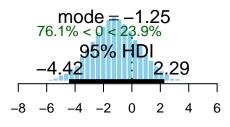
The difference of STEW impact between RET cut samples in ER1 has a probability of -72.06 %

mode = -1.46 72.1% < 0 < 27.9% 95% HDI -5.32 2.79

Param. Val.

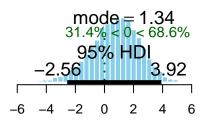


 β_1



Param. Val.

|beta[2]| - |beta[1]|



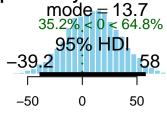
Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  9000.000 8547.298 9000.000 9000.000 9000.000 8547.298 7501.322 7090.626
## betaSIZE
## 6752.874
## [1] "The difference of II_10 impact \n between RET cut samples in ER1 has a\n probability of 50.4
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

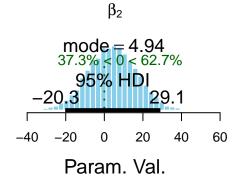
The difference of II_10 impact β_2 between RET cut samples in ER1 has a probability of 50.48 % mode = -3.21 49.5% < 0 < 50.5% 95% HDI 95% HDI 107 74.5 -200 -1000 100 200 -100 -50 0 50 100 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -2.562.2% < 0 < 37.8% mode = 1532.8% < 0 < 67.2% 95% HDI 95% HDI 109 **-76.1 5**8.3 -100-200 -1000 0 100 200 50 100 Param. Val. Param. Val. Resolving undeclared variables Allocating nodes

```
## Compiling data graph
##
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2044
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   9069.602 8439.656 9223.307 9185.866 9069.602 8439.656 7491.362 7298.026
##
  betaSIZE
  6607.409
## [1] "The difference of FOR_10 impact \n between RET cut samples in ER1 has a\n probability of 64.
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact between RET cut samples in ER1 has a probability of 64.84 %

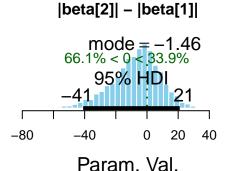


Param. Val.



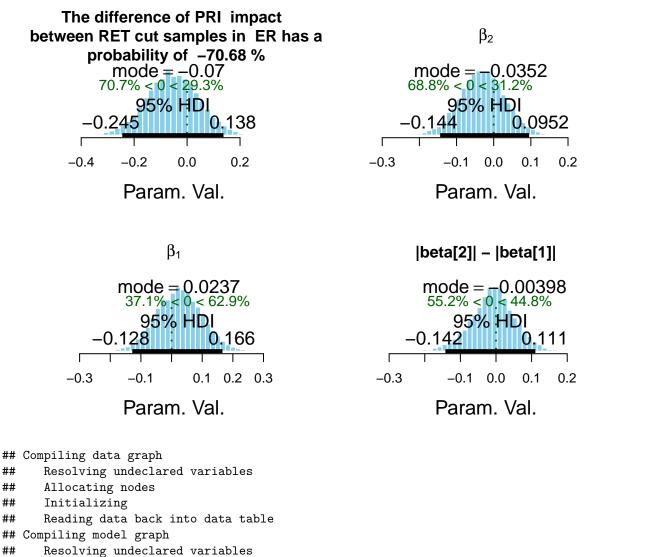
β_1 mode = -7.11 60% < 0 < 40%95% HDI -47.1 37.6 -50 0 50 Param. Val.

500): Unused variable "n" in data



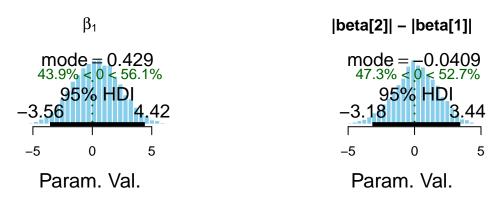
```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8215.057 9307.139 9000.000 9000.000 8215.057 9307.139
                                                                8715.060 7266.781
## betaSIZE
## 6859.724
## [1] "The difference of PRI impact \n between RET cut samples in ER has a\n probability of -70.68"
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by RET"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =



```
##
##
##
##
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
## 8358.592 8021.847 8702.493 8823.149 8358.592 8021.847 8354.371 7242.108
## betaSIZE
## 6597.591
## [1] "The difference of INIT impact \n between RET cut samples in ER has a\n probability of -78.67
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between RET cut samples in ER has a probability of -78.67 % mode = -1.65 78.7% < 0 < 21.3% mode = -1.4588.1% < 0 < 11.9% 95% HDI 95% HDI 0.969 -10 -5 0 5 -6 -2 0 2 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 8430.405 6112.840 7070.213 8424.955 8430.405 6112.840
                                                                6698.273
                                                                          6809.833
## betaSIZE
## 6052.451
## [1] "The difference of EPI impact \n between RET cut samples in ER has a\n probability of -89.36"
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by RET"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of EPI impact β_2 between RET cut samples in ER has a probability of -89.36 % mode = -0.102 89.4% < 0 < 10.6%mode = -0.099396.5% < 0 < 3.5% 95% HD1 95% HDI: 0.0654 -0.1950.00797 -0.4-0.20.0 0.2 -0.3-0.2-0.10.0 0.1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0482 30.7% < 0 < 69.3% 95% HDI 95% HDI -0.13**5** -0.102 0.170.0 0.1 0.2 0.3 -0.2-0.20.0 0.1 0.2 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7

Reading data back into data table

Compiling model graph

Resolving undeclared variables

Allocating nodes

Graph information:

Unobserved stochastic nodes: 131

Unobserved stochastic nodes: 7

Total graph size: 2047

##

Initializing model

##

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGFS

7751.486 8599.202 9230.338 9509.879 7751.486 8599.202 8160.117 7070.839

betaSIZE

7046.090

[1] "The difference of STEW impact \n between RET cut samples in ER has a\n probability of 60.72 1

[1] " _______ "

[1] " Analysis of Y= ER explained by x= II_10 cutted by RET"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

The difference of STEW impact β_2 between RET cut samples in ER has a probability of 60.72 % mode = 0.0942 39.3% < 0 < 60.7% mode = 0.024143.6% < 0 < 56.4% 95% HDI 95% HDI 0.907 0.435-1.0 0.0 0.5 1.0 1.5 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0204 63.2% < 0 < 36.8% mode = -0.068759% < 0 < 41% 95% HDI 95% HDI -0.69**5** -0.569 0.534 0.341 0.5 -0.5-1.00.0 -1.00.0 0.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model

betaSIZE
6697.316
[1] "The difference of II_10 impact \n between RET cut samples in ER has a\n probability of -70.2
[1] " ______ "
[1] " Analysis of Y= ER explained by x= FOR_10 cutted by RET"

betaGFI

betaGPS

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
500): Unused variable "n" in data

9000.000 8066.128 8858.745 9668.406 9000.000 8066.128 8182.452 6814.117

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

##

The difference of II_10 impact between RET cut samples in ER has a β_2 probability of -70.2 % mode = -4.26 70.2% < 0 < 29.8% $\text{mode} = 6.61 \\ 7.2\% < 0 < 92.8\%$ 95% HDI 95% HDI -2.94 -40 -20 0 10 20 30 -10 0 10 20 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 12.1mode = -3.6771.8% < 0 < 28.2% 7.9% < 0 < 92.1% 95% HDI 95% HDI 28.1 -4.69**1**1.1 -20 0 10 20 30 40 -20 0 10 20 -40Param. Val. Param. Val. ## Compiling data graph

```
Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2044
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
                                                                 betaGFI
   8003.617 7582.144
                       7870.799 8181.849 8003.617
                                                      7582.144 7411.020
                                                                          7239.597
##
  betaSIZE
## 6718.219
## [1] "The difference of FOR_10 impact \n between RET cut samples in ER has a\n probability of
```

The difference of FOR_10 impact β_2 between RET cut samples in ER has a probability of 64.28 % mode = 1.31 35.7% < 0 < 64.3% mode = 2.58 13.7% < 0 < 86.3%95% HDI 95% HDI 10 7.18 -20 -100 10 -5 0 5 10 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.16251.9% < 0 < 48.1% 95% HDI 95%:HDI -6.26-15 -5 0 5 10 15 20 -15 -10 -5 0 5 10

Param. Val.

Param. Val.

Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')</pre>
y.names <- c('CP' , 'DISCL')</pre>
cut.name <- 'RET'</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by RET"
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
      Observed stochastic nodes: 131
```

```
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   5133.116 5378.018 5014.735 5010.501 5133.116 5378.018 5207.247
   betaSIZE
##
## 4076.297
## [1] "The difference of PRI impact \n between RET cut samples in CP has a\n probability of -83.07"
        The difference of PRI impact
                                                                      \beta_2
    between RET cut samples in CP has a
            probability of -83.07 %
               mode = -0.0169
83.1% < 0 < 16.9%
                                                             mode = 0.00544
                                                                 22.4% < 0 < 77.6%
                    95% HDI
                                                                   95% HDI
                                                                           0.0286
           -0.0513
                             0.0162
                                                           -0.0127
         -0.08
                  -0.04
                            0.00
                                     0.04
                                                     -0.04 -0.02 0.00
                                                                          0.02
                                                                                 0.04
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
              \begin{array}{c} mode = 0.0222 \\ 3\% < 0 < 97\% \end{array}
                                                             mode = -0.0132
81.8% < 0 < 18,2%
                  95% HDI
                                                                  95% HDI
        -0.00131
                            0.0504
                                                            0.045
                                                                           0.0137
        -0.02
                    0.02 0.04 0.06 0.08
                                                         -0.06
                                                                    -0.02
                                                                               0.02
                 Param. Val.
                                                               Param. Val.
```

```
## [1] " Analysis of Y= CP explained by x= INIT cutted by RET"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2039
##
```

```
## Initializing model
##
## alpha1[1] alpha1[2]
                        beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   5381.045 5589.334
                       5214.608 5279.604 5381.045 5589.334
                                                                 4943.782 4735.897
   betaSIZE
## 4680.472
## [1] "The difference of INIT impact \n between RET cut samples in CP has a\n probability of -77.97
        The difference of INIT impact
                                                                      \beta_2
   between RET cut samples in CP has a
            probability of -77.97 %

    \text{mode} = -0.398 \\
    78\% < 0 < 22\%

                                                               mode = 0.046
                                                                44% < 0 < 56%
                                                                  95% HDI
                    95% HDI
                                                                             0.476
        -2.0
                           0.0 0.5 1.0
                                                            -0.5
                                                                     0.0
                                                                              0.5
                 -1.0
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.0482

75\% < 0 < 25\%

                mode = 0.381
                 14.7% < 0 < 85.3%
                  95% HDI
                                                                    95% HDI
                                                                              0.345
        -1.0
                   0.0
                        0.5
                             1.0
                                  1.5
                                                         -1.5 -1.0 -0.5
                                                                          0.0
                                                                                0.5
                 Param. Val.
                                                               Param. Val.
## [1] " Analysis of Y= CP explained by x= EPI cutted by RET"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 6
##
##
      Total graph size: 2033
##
## Initializing model
```

betaGFI

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

```
## 5208.845 4071.081 4874.121 6124.822 5208.845 4071.081 4203.794 4625.047
## betaSTZE
  4161.876
## [1] "The difference of EPI impact \n between RET cut samples in CP has a\n probability of -68.01"
        The difference of EPI impact
                                                                \beta_2
   between RET cut samples in CP has a
           probability of -68.01 %
               mode = -0.00508
68\% < 0 < 32\%
                                                       mode = 0.00576
                                                         27.1% < 0 < 72.9%
                   95% HDI
                                                           95% HDI
          -0.0412
                            0.0238
                                                   -0.0117
                                                                    0.0241
         -0.06
                   -0.02
                            0.02
                                                    -0.02
                                                            0.00
                                                                   0.02
                                                                          0.04
                Param. Val.
                                                          Param. Val.
                      \beta_1
                                                        |beta[2]| - |beta[1]|
               mode = 0.0156
                                                          mode = -0.00309
                 16.6% < 0 < 83.4%
                                                           70% < 0 < 30%
                                                             95% HDI
                  95% HDI
         -0.0149:
                           0.0401
                                                     -0.0336
                                                                   0.017
       -0.04
                  0.00 0.02 0.04 0.06
                                                 -0.06
                                                             -0.02 0.00 0.02 0.04
                Param, Val.
                                                          Param, Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by RET"
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
     Reading data back into data table
##
```

```
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2033
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
  6075.812 5242.493 4216.795 4332.687 6075.812 5242.493 5203.272 4318.426
   betaSIZE
##
   3573.089
```

```
The difference of STEW impact
                                                                  \beta_2
   between RET cut samples in CP has a
            probability of -60.32 %
             mode = -0.0292

60.3\% < 0 < 39.7\%
                                                         mode = 0.0438
                                                            7.4% < 0 < 92.6%
                                                             95% HDI
                 95% HDI
         -0.149
                            0.108
                                                     -0.0173
                                                                       0.119
          -0.2 -0.1
                      0.0
                            0.1
                                  0.2
                                                     -0.05
                                                                0.05
                                                                           0.15
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 0.0686
                                                           mode = -0.00647
                                                            62% < 0 < 38%
                  10.1% < 0 < 89.9%
                   95% HDI
                                                              95% HDI
          -0.0387
                                                       -0.136
                              0.175
                                                                        0.0897
          -0.1
                  0.0
                         0.1
                                0.2
                                                      -0.2
                                                             -0.1
                                                                    0.0
                                                                          0.1
                                                                                 0.2
                 Param. Val.
                                                            Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= II_10 cutted by RET"
  Compiling data graph
     Resolving undeclared variables
      Allocating nodes
      Initializing
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
```

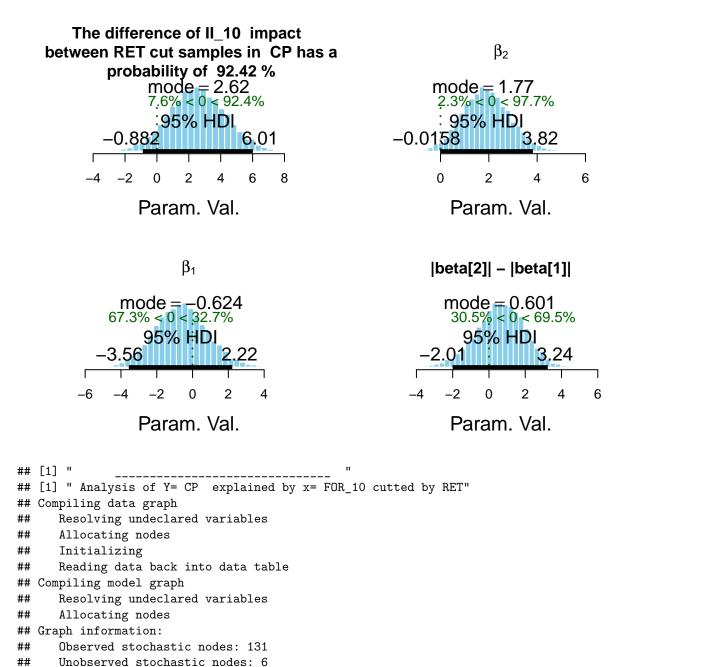
```
##
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 1949
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5260.273 5889.988 5614.836 5471.993 5260.273 5889.988
                                                               5522.940
                                                                         4303.330
##
## betaSIZE
## 4020.727
## [1] "The difference of II_10 impact \n between RET cut samples in CP has a\n probability of 92.42
```

##

##

##

##



beta1[2]

[1] "The difference of FOR_10 impact \n between RET cut samples in CP has a\n probability of -86.

betaGFI

4984.037 4630.503 4764.823

betaGPS

##

##

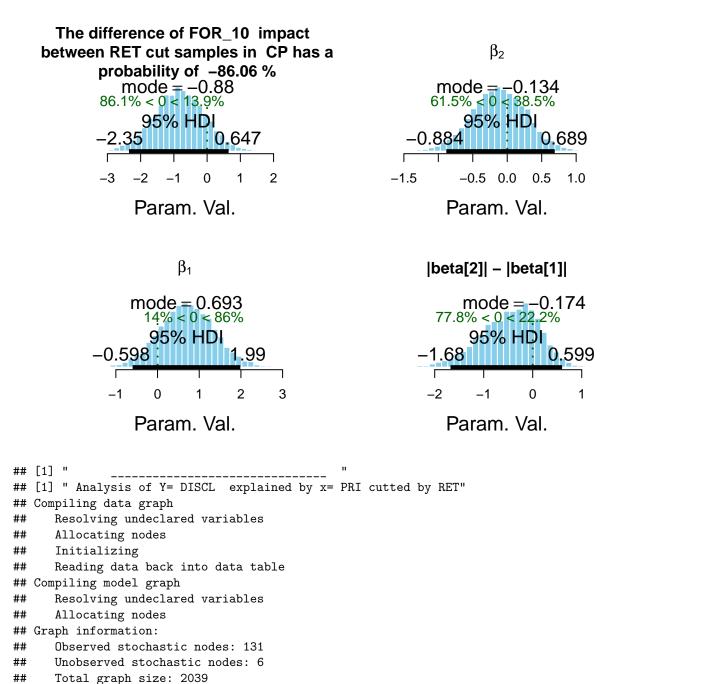
Total graph size: 2030

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5322.343 4984.037 4924.421 5166.477 5322.343

Initializing model

betaSIZE ## 4575.423



betaSIZE
4658.033
[1] "The difference of PRI impact \n between RET cut samples in DISCL has a\n probability of -57.

betaGFI

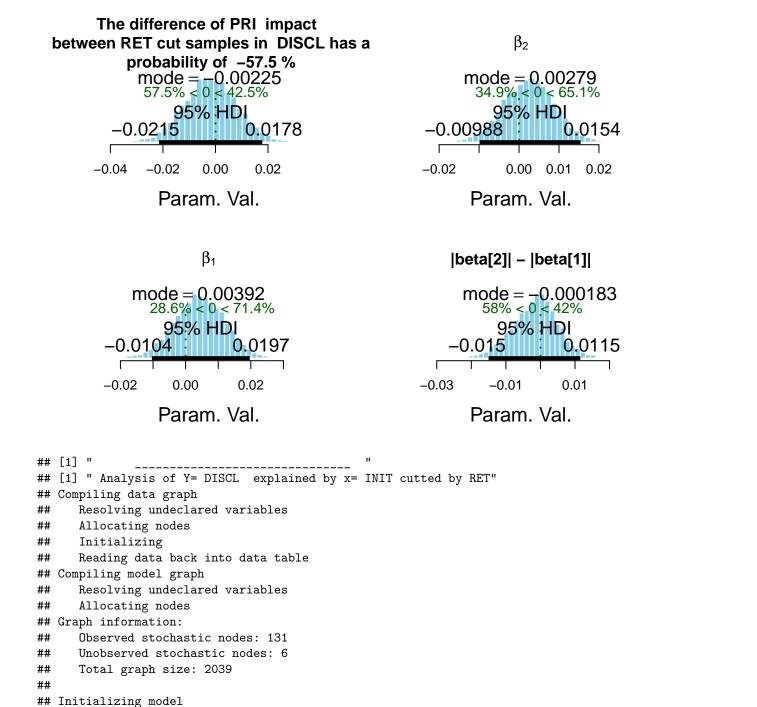
betaGPS

5168.056 5260.753 5551.021 5467.781 5168.056 5260.753 5246.347 4323.386

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

##

Initializing model



[1] "The difference of INIT impact \n between RET cut samples in DISCL has a\n probability of

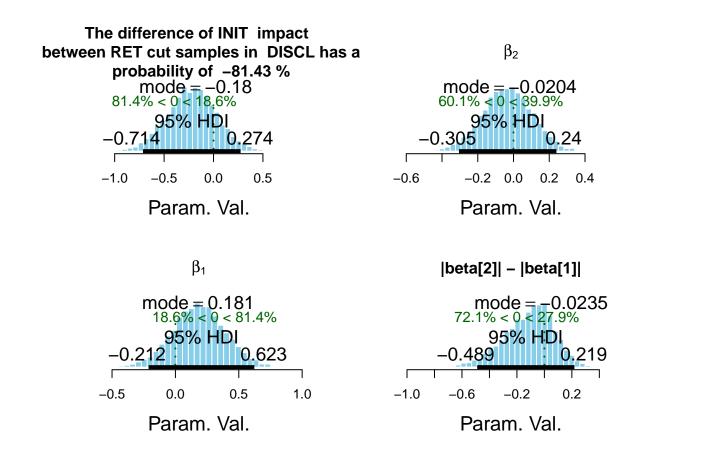
5385.709 5525.154 4856.758 4863.030 5385.709 5525.154 5177.121 4751.793

betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

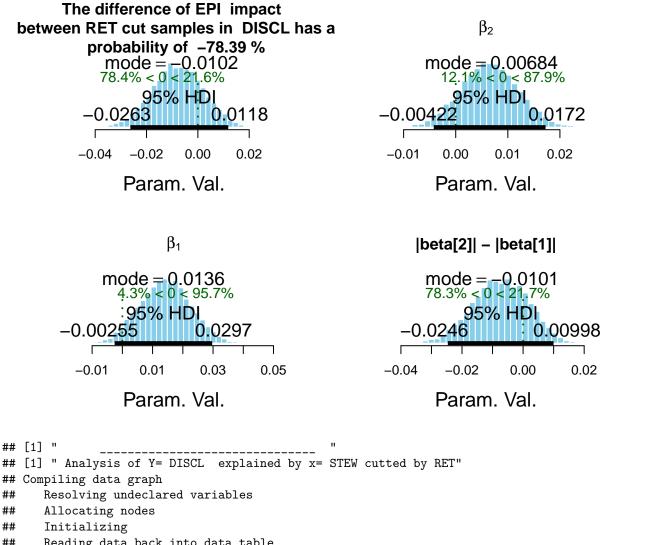
betaSIZE ## 4096.012



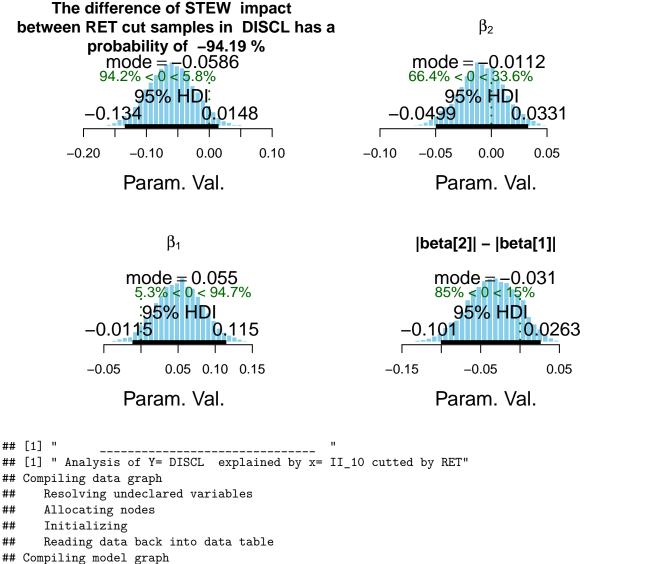
[1] " Analysis of Y= DISCL explained by x= EPI cutted by RET"

[1] "

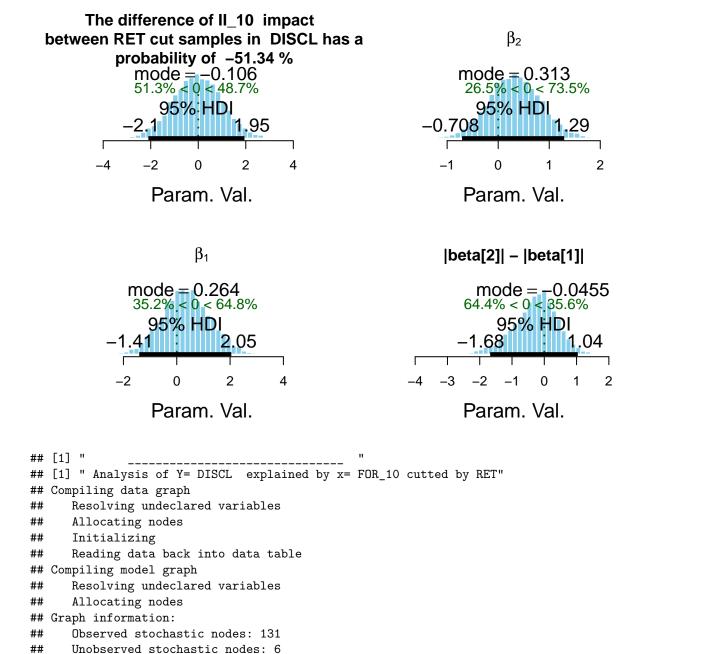
```
Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2033
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  5325.250 3766.227 4382.169 5130.838 5325.250
                                                     3766.227 4447.717 4503.526
## betaSIZE
   3700.583
## [1] "The difference of EPI impact \n between RET cut samples in DISCL has a\n probability of -78.
```



```
## [1] " Analysis of Y= DISCL explained by x= STEW cutted by RET"
##
##
##
      Reading data back into data table
##
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2033
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5033.260 5350.602 4009.013 4584.923 5033.260 5350.602 5015.041 4644.403
## betaSIZE
## 4144.870
## [1] "The difference of STEW impact \n between RET cut samples in DISCL has a\n probability of
```



```
## [1] " Analysis of Y= DISCL explained by x= II_10 cutted by RET"
##
##
##
##
##
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 1949
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
## 5679.991 5209.467 5225.883 5827.993 5679.991 5209.467 5566.614 4849.995
## betaSIZE
## 4262.225
## [1] "The difference of II_10 impact \n between RET cut samples in DISCL has a\n probability of -5
```



4882.242 5655.334

beta1[2]

[1] "The difference of FOR_10 impact \n between RET cut samples in DISCL has a\n probability of -

betaGFI

5060.857 4980.103 4593.786

betaGPS

##

##

##

Total graph size: 2030

5655.334 5060.857 4739.007

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

Initializing model

betaSIZE ## 4326.704

The difference of FOR_10 impact β_2 between RET cut samples in DISCL has a probability of -90.41 % mode = -0.551 90.4% < 0 < 9.6% 95% HDI 95% HDI -0.2190.715 -2.0-1.00.0 0.5 1.0 -0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.799 2% < 0 < 98% mode = -0.54490.5% < 0 < 9.5% 95% HDI 95% HDI: -0.5 0.0 0.5 1.0 1.5 -2.00.0 0.5 2.0 -1.0

Param. Val.

Inter-Separated Bayesian models

Param. Val.

Quantitative Y

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                       beta1[2]
                                                                  betaGFI
                                                                             betaGPS
  8164.379 7713.565 8615.323 8094.043 8164.379
                                                       7713.565
                                                                 7505.479
                                                                            8051.091
   betaSIZE
##
   7076.905
## [1] "The difference of PRI impact \n between Interdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= INIT cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                      \beta_2
between Interdich cut samples in EPS has a
            probability of -91.38 %
              mode = -0.323
91.4% < 0 < 8.6%
                                                            mode = 0.0492
                                                             39.6% < 0 < 60.4%
                   95% HDI
                                                                95% HDI
                                                        -0.286
                              0.143
                                                                          0.361
            -0.818
             -1.0
                    -0.5
                             0.0
                                                         -0.4
                                                                   0.0 0.2 0.4 0.6 0.8
                                    0.5
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

    \text{mode} = 0.363

    1.9\% < 0 < 98.1\%

                                                          mode = -0.246
88.3% < 0 < 11.7%
                                                                95% HDI
                   95% HDI
           0.0385
                                                         -0.637
          -0.2
                   0.2
                           0.6
                                   1.0
                                                      -1.0
                                                               -0.5
                                                                         0.0
                                                                                  0.5
                                                                Param. Val.
                  Param. Val.
```

Compiling data graph

Initializing

Allocating nodes

Resolving undeclared variables

##

##

##

```
Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
      Total graph size: 2052
##
##
##
  Initializing model
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[1] beta1[2]
                                                                            betaGPS
                                                                  betaGFI
   6991.985 7291.117 7719.536 7304.839 6991.985
                                                      7291.117 7466.107 7074.059
   betaSIZE
##
##
  6592.902
## [1] "The difference of INIT impact \n between Interdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= EPI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
between Interdich cut samples in EPS has a
            probability of -85.28 %
             mode = -7.37
85.3% < 0 < 14.7%
                                                           \begin{array}{c} mode = -3.4 \\ 88.6\% < 0 < 11.4\% \end{array}
                                                                  95% HDI
                   95% HDI
                                                      -20 -15 -10 -5
         -30 -20 -10
                            0
                                  10
                                                                                     10
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                  mode = 2.05
                                                              mode = 0.278
                  32.4\% < 0 < 67.6\%
                                                              44.9% < 0 < 55.1%
                    95% HDI
                                                                 95% HDI
              -10
                               10
                                      20
                                                        -15
                                                                 -5
                                                                     0
                                                                             10 15
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
```

56

##

##

##

##

Resolving undeclared variables

Reading data back into data table

Allocating nodes

Initializing

```
## Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
     Total graph size: 2047
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  7098.463 5434.011 8842.004 7262.487 7098.463 5434.011
                                                              6414.901
                                                                        7029.017
   betaSIZE
## 6225.720
## [1] "The difference of EPI impact \n between Interdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= STEW cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between Interdich cut samples in EPS has a
                                                                  \beta_2
            probability of -68.08 %
             mode = -0.155
68.1% < 0 < 31.9%
                                                           mode = -0.136
                                                           76% < 0 < 24%
                                                              95% HDI
                   95% HDI
           -0.573
                            0.362
                                                      -0.556
         -1.0
                -0.5
                        0.0
                               0.5
                                                           -0.5
                                                                    0.0
                                                                             0.5
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
              mode = -0.0233
                                                        mode = 0.0219
               61% < 0 < 39%
                                                          30.2% < 0 < 69.8%
                                                             95% HDI
                  95% HDI
          -0.286
                                                                       0.437
           -0.4 -0.2 0.0
                            0.2
                                 0.4
                                                     -0.4
                                                              0.0 0.2 0.4 0.6 0.8
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
```

##

##

Initializing

Compiling model graph

Reading data back into data table

```
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
                       beta0[1]
                                 beta0[2] beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                                                                betaGFI
                                                                          betaGPS
   7469.017 8536.572
                       8532.930
                                 8507.553 7469.017
                                                     8536.572 7762.334
                                                                         7026.039
   betaSIZE
##
   7139.295
##
  [1] "The difference of STEW impact \n between Interdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between Interdich cut samples in EPS has a
                                                                    \beta_2
            probability of -58.97 %

    \text{mode} = -0.198
    59\% < 0 < 41\%

                                                            mode = 0.275
                                                             29.8% < 0 < 70.2%
                   95% HDI
                                                               95% HDI
            -1.92
                              1.54
                                                       -0.866
           -3 -2 -1
                        0
                             1
                                 2
                                     3
                                                           _1
                                                                  0
                                                                         1
                                                                               2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = 0.564
                                                              mode = -0.0225
                 22% < 0 < 78%
                                                             57.7% < 0 < 42.3%
                 95% HDI
                                                                 95% :HDI
                           1.78
                                                                           1.11
           -0.78
                                                                      2
                                   3
                                                           -2
                                                                       0
                                                                                  2
         -2
              -1
                                                      -3
                                                                 _1
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

Reading data back into data table

Resolving undeclared variables

##

##

##

##

Initializing

Compiling model graph

```
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
  alpha1[1] alpha1[2] beta0[1]
                                   beta0[2]
                                             beta1[1] beta1[2]
                                                                   betaGFI
                                                                              betaGPS
    8856.414 7658.347 9747.498 8780.457
                                             8856.414 7658.347
                                                                  8288.404
                                                                             6934.077
   betaSIZE
    6203.385
##
## [1] "The difference of II_10 impact \n between Interdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                       \beta_2
between Interdich cut samples in EPS has a
            probability of -64.33 %
                                                              mode = 3.49
52.9% < 0 < 47.1%
              mode = -13.4
64.3% < 0 < 35.7%
                   95% HDI
                                                                  95%:HDI
                             37
                                                                             37.7
        -100
                -50
                         0
                                50
                                       100
                                                              -50
                                                                        0
                                                                                50
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                           \begin{array}{c} mode = 0.326 \\ 38.5\% < 0 < 61.5\% \end{array}
                  mode = 7.31
                  27.9% < 0 < 72.1%
                    95% HDI
                                                                95% HDI
               15.9
                                                          –23.9
                                                                        35.4
         -40
               -20
                       0
                             20
                                   40
                                                         -40
                                                                   0
                                                                       20
                                                                           40
                                                                              60
                                                                                    80
                  Param. Val.
                                                                Param. Val.
##
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
```

##

Allocating nodes

```
## Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                            betaGPS
   7521.414 7835.525 8586.324 8327.487 7521.414 7835.525 7874.813
                                                                          7553.233
   betaSIZE
  7195.795
## [1] "The difference of FOR_10 impact \n between Interdich cut samples in EPS has a\n probability o
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                     \beta_2
between Interdich cut samples in EPS has a
            probability of -81.71 %
             mode = -11.5
81.7% < 0 < 18.3%
                                                               mode = 2.58
39.1% < 0 < 60.9%
                   95% HDI
                                                                 95% HDI
                                                                            14.4
                             10.8
                           0
                    -20
                                 20
                                                          -20 -10
                                                                     0
                                                                          10
             -40
                                                                               20
                                                                                    30
                 Param. Val.
                                                               Param. Val.
                       \beta_1
                                                            |beta[2]| - |beta[1]|
                                                            mode = -5.47
77.4% < 0 < 22.6%
                 mode = 11.5
                  7.3% < 0 < 92.7%
                   95% HDI
                                                                 95% HDI
                                                                            8.69
        -20
                   0
                       10
                            20
                                30
                                     40
                                                     -40
                                                               -20
                                                                              10
                                                                                  20
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
```

##

##

Resolving undeclared variables

Allocating nodes

Graph information:

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
      Total graph size: 2053
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                    betaGFI
                                                                               betaGPS
   8098.530 8213.903 9207.894 8917.204 8098.530 8213.903 8214.629 7051.530
##
    betaSIZE
   6884.280
## [1] "The difference of PRI impact \n between Interdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                        \beta_2
between Interdich cut samples in ET3 has a
             probability of 52.53 %
               mode = 0.0438
47.5% < 0 < 52.5%

    \text{mode} = -0.431

    94.5\% < 0 < 5.5\%

                  95%: HDI
                                                                  95% HDI
                  -0.5
                           0.5
                                                                    -0.5
         -1.5
                                    1.5
                                                        -1.5 -1.0
                                                                                  0.5
                  Param. Val.
                                                                 Param. Val.
                         \beta_1
                                                              |beta[2]| - |beta[1]|

mode = -0.475

93.9% < 0 < 6.1%

mode = -0.0291

52.6\% < 0 < 47.4\%

                     95% HDI:
                                                                    95%: HDI
                                                             -0.79
                                                                              0.745
            -1.5 -1.0 -0.5
                               0.0
                                     0.5
                                                         -1.5
                                                                  -0.5
                                                                             0.5 1.0 1.5
                  Param. Val.
                                                                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

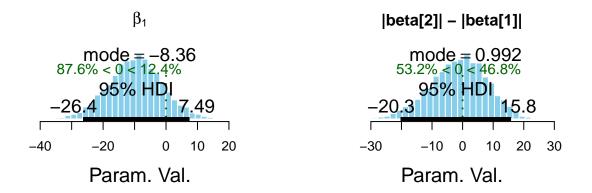
Observed stochastic nodes: 131

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
   7312.197 8027.939 7448.685 7141.483 7312.197
                                                       8027.939 7760.736
   betaSIZE
##
##
   6583.113
## [1] "The difference of INIT impact \n between Interdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between Interdich cut samples in ET3 has a
                                                                      \beta_2
             probability of 51.72 %

    \text{mode} = -1.29 \\
    48.3\% < 0 < 51.7\%

                                                              mode = -8.41
                                                            92.5% < 0 < 7.5%
                   95% HDI
                                                                 95% HDI:
                              21.8
         -40
                -20
                        0
                              20
                                                              -20
                                                                    -10
                                                                           0
                                     40
                                                        -30
                                                                                 10
```

Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
```

Param. Val.

```
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7168.383 5912.949 8597.903 7424.336 7168.383 5912.949
                                                               6950.870 7052.578
  betaSIZE
## 6014.390
## [1] "The difference of EPI impact \n between Interdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                   \beta_2
between Interdich cut samples in ET3 has a
            probability of 52.81 %
                mode = 0.0717
47.2% < 0 < 52.8%
                                                          mode = -0.132
68.1% < 0 < 31.9%
                   95% HDI
                                                               95% HDI
                                                         -0.895
                      0.857
                                                                          0.534
         -1.5
                  -0.5
                           0.5 1.0 1.5
                                                     -1.5
                                                               -0.5 0.0
                                                                          0.5
                                                                               1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
              mode = -0.201
80.2% < 0 < 19.8%
                                                           mode = 0.00822
                                                             42.3% < 0 < 57.7%
                    95% HDI
                                                                95% HDI
              -0.653
                           0.263
                                                         -0.516
                                                                        0.671
             -1.0
                    -0.5
                           0.0
                                  0.5
                                                        -1.0
                                                                   0.0
                                                                        0.5
                                                                            1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
```

##

Total graph size: 2047

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
                       8399.062 8207.227 7595.737 8531.483
  7595.737 8531.483
                                                                7963.854
                                                                          6202.357
##
   betaSIZE
   6609.444
## [1] "The difference of STEW impact \n between Interdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between Interdich cut samples in ET3 has a
                                                                    \beta_2
            probability of 75.01 %
                 modé = 1.11
25% < 0 < 75%
                                                           mode = -0.644
72.7% < 0 < 27.3%
                                                                 95% HDI
                   95% HDI
                                                            -2.65
                -2
                     0
                          2
                                   6
                                                                 -2
                                                                        0
                                                                              2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                           mode = -0.794
72.7% < 0 < 27.3%
                 mode = -1.49
              93.2% < 0 < 6.8%
                   10H %2e
                                                                 95% HDI
              4.03
                      -2
                                                                        0
                                                                             2
                                   2
          -6
                                                       -6
                                                                                   4
                 Param. Val.
                                                              Param. Val.
```

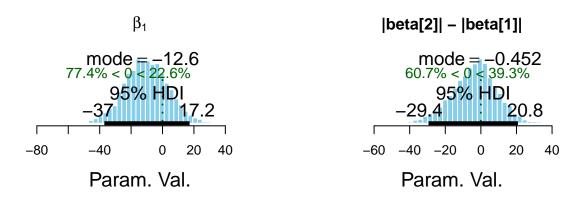
```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
```

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
   8708.490 7627.463
                       9092.881 8143.577 8708.490
                                                     7627.463
                                                               8790.489
                                                                         7282.304
##
   betaSIZE
  6637.581
##
## [1] "The difference of II_10 impact \n between Interdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
between Interdich cut samples in ET3 has a
            probability of -72.1 %
              mode = -24.4
72.1% < 0 < 27.9%
                                                              mode 🚃 –9.91
                                                            61.7% < 0 < 38.3%
                   95% HDI
                                                                 95% HDI
       -200
                -100
                          0
                               50
                                  100
                                                     -150
                                                                -50
                                                                           50
                                                                                100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                  mode = 14
                                                           mode = 0.24
                 25.4% < 0 < 74.6%
                                                            38.3% < 0 < 61.7%
                   95% HDI
                                                               95% HDI
                              55.9
                                                                        66.4
           -50
                             50
                                     100
                                                    -100
                                                          -50
                                                                       50
                                                                             100
                 Param, Val.
                                                              Param, Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
```

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  7434.806 7618.295 8162.428 7832.627 7434.806 7618.295 7574.789
                                                                        7463.499
## betaSIZE
   6910.902
## [1] "The difference of FOR_10 impact \n between Interdich cut samples in ET3 has a\n probability o
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
between Interdich cut samples in ET3 has a
            probability of 78.99 %
                mode = 14.1
21% < 0 < 79%
                                                             mode = 4.67
                                                            36.1% < 0 < 63.9%
                  95% HDI
                                                               95% HDI
          -50
                    0
                             50
                                                     -40
                                                           -20
                                                                  0
                                                                       20
                                                                             40
```

Param. Val.



```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
## Initializing model
##
```

Param. Val.

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[1] beta1[2]
                                                                  betaGFI
  7706.449 7894.342 8462.414 8051.657 7706.449 7894.342 7989.234 7573.322
  betaSIZE
  6860.344
##
## [1] "The difference of PRI impact \n between Interdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                      \beta_2
between Interdich cut samples in ER3 has a
              probability of 61.9 %
                mode = 0.193
38.1% < 0 < 61.9%

    \text{mode} = -0.403 \\
    90.3\% < 0 < 9.7\%

                   95% HDI
                                                                  95% HDI
                                                          -0.951
           -0.727
        -1.5
                 -0.5
                          0.5
                                   1.5
                                                       -1.5 -1.0 -0.5
                                                                           0.0
                                                                                 0.5
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                             mode = -0.103
61.9% < 0 < 38.1%
                mode = -0.558
                   95% < 0 < 5%
                    95% HDI:
                                                                 95% HDI
            -1.5 -1.0 -0.5
                              0.0
                                                       -1.5
                                                                 -0.5 0.0 0.5
                                     0.5
                                                                                 1.0
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta6FI

```
## 7074.708 8237.445 7382.292 7093.084 7074.708 8237.445 7852.127 7135.171
## betaSTZE
  7699.150
## [1] "The difference of INIT impact \n between Interdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
between Interdich cut samples in ER3 has a
             probability of 74.94 %
                 mode = 6.96
25.1% < 0 < 74.9%
                                                           mode = -5.6
84.1% < 0 < 15.9%
                                                                 95% HDI
                   95% HDI
              -20
                      0
                            20
                                                        -30 -20 -10
                                                                          0
                                  40
                                                                               10
                                                                                    20
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = -13.7
94.1% < 0 < 5.9%
                                                             mode = -7.43
74.9% < 0 < 25.1%
                     95% HDI:
                                                                  95% HDI
                                                                             11.6
         -50
                 -30
                          -10 0
                                  10 20
                                                          -40
                                                                  -20
                                                                          0
                                                                                 20
                 Param, Val.
                                                               Param. Val.
## Compiling data graph
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
```

7381.743 5555.489 8331.148 7239.348 7381.743 5555.489 6613.531 7585.928

betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

```
## betaSIZE
## 6073.898
## [1] "The difference of EPI impact \n between Interdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                  \beta_2
between Interdich cut samples in ER3 has a
            probability of 74.46 %
               mode = 0.311
25.5% < 0 < 74.5%
                                                          mode = 0.0477
                                                           43.6% < 0 < 56.4%
                  95% HDI
                                                              95% HDI
          -0.616
                                                                       0.769
          -1.0
                   0.0 0.5 1.0 1.5 2.0
                                                   -1.5
                                                            -0.5
                                                                      0.5
                                                                         1.0 1.5
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
             mode = 0.00219
                                                        48.5% < 0 < 51.5%
                                                            95% HDI
                  95% HDI
                                                                      0.652
           -0.707
           -1.0
                  -0.5
                          0.0
                                                    -1.0 -0.5
                                 0.5
                                                               0.0
                                                                     0.5
                                                                           1.0
                                                                                 1.5
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
  Compiling model graph
##
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
  8220.106 9000.000 8486.466 8138.594 8220.106 9000.000 7711.627
                                                                       7058.381
```

betaSIZE

```
## 7039.568
## [1] "The difference of STEW impact \n between Interdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between Interdich cut samples in ER3 has a
                                                                         \beta_2
             probability of 73.84 %
                  mode = 0.856
26.2% < 0 < 73.8%

    \text{mode} = -0.632 \\
    71\% < 0 < 29\%

                     95% HDI
                                                                     95% HDI
                  -2
                        0
                             2
                                                                    -2
                                                                             0
                                                                                    2
         -6
              -4
                                      6
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|

    \text{mode} = -1.44 \\
    91.5\% < 0 < 8.5\%

                                                               mode = -0.351
70.9\% < 0 < 29.1\%
                     95% HDI
                                                                     95% HDI
                                0.684
                                                                                 1.78
                        -2
                               0
                                      2
                                                                     -2
                                                                            0
                                                                                   2
                                                                                         4
           -6
                                                                  Param, Val.
                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
   Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
##
  Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                     betaGFI
                                                                                betaGPS
```

8790.986 8344.237 9169.382 8757.599 8790.986 8344.237 8746.179 7389.717

##

betaSIZE 6664.464

```
## [1] "The difference of II_10 impact \n between Interdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
between Interdich cut samples in ER3 has a
            probability of -60.5 %
              mode = -10.6
60.5% < 0 < 39.5%
                                                              mode = 7.57
                                                            43.8% < 0 < 56.2%
                   95% HDI
                                                               95% HDI
          -150
                   -50
                       0
                            50
                                                              -50
                                                                   0
                                                                        50 100
                                    150
                                                    -150
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                 mode = 16.8
22.1% < 0 < 77.9%
                                                         mode = -0.619
                                                           42% < 0 < 58%
                                                             95% HDI
                   95% HDI
                                                                       65.8
           -50
                     0
                             50
                                    100
                                                    -100 -50
                                                                 0
                                                                      50
                                                                           100
                                                                                 150
                 Param. Val.
                                                              Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
##
  Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1] beta1[2]
                                                                 betaGFI
  7667.462 7749.236 7977.365 7676.303
                                           7667.462 7749.236 8010.275
                                                                         7319.072
   betaSIZE
##
##
  7106.336
## [1] "The difference of FOR_10 impact \n between Interdich cut samples in ER3 has a\n probability o
```

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
between Interdich cut samples in ER3 has a
                                                                    \beta_2
            probability of 82.11 %
                 mode = 17.8
17.9% < 0 < 82.1%
                                                                mode = 8
                                                               22.8% < 0 < 77.2%
                  95% HDI
                                                                95% HDI
           -40
                       20
                           40 60 80
                                                          -20
                                                                  0
                                                                         20
                                                                               40
                                                              Param. Val.
                 Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

mode = -8.21

71.8\% < 0 < 28.2\%

                                                              mode = -0.112
                                                              51.8% < 0 < 48.2%
                                                                 95%:HDI
                  95% HDI
                                                                            23.9
                                                            27.8
        -60
             -40
                  -20
                         0
                              20
                                    40
                                                     -60
                                                          -40
                                                                -20
                                                                      0
                                                                            20
                                                                                 40
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  8272.998 7882.326 8462.460 8316.893 8272.998 7882.326 8531.974 7027.392
## betaSIZE
## 7004.093
```

[1] "

[1] "The difference of PRI impact \n between Interdich cut samples in ER1 has a\n probability of

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                        \beta_2
between Interdich cut samples in ER1 has a
              probability of 88.3 %
                 mode = 0.643
11.7% < 0 < 88.3%

mode = -0.0816

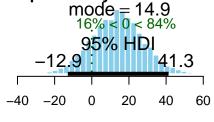
60.7\% < 0 < 39.3\%

                    95% HDI
                                                                    95% HDI
             0.429
            _1
                    0
                            1
                                   2
                                                          -1.5
                                                                    -0.5 0.0
                                                                               0.5
                                                                                    1.0
                  Param. Val.
                                                                 Param. Val.
                         \beta_1
                                                              |beta[2]| - |beta[1]|
              \begin{array}{l} mode = -0.793 \\ 97.2\% < 0 < 2.8\% \end{array}
                                                            mode = -0.472
84.5% < 0 < 15.5%
                                                                   95% HDI
                   95% HDI:
                         0.0236
                                                                           0.403
           -2.0
                    -1.0
                              0.0 0.5 1.0
                                                        -2.0
                                                                 -1.0
                                                                           0.0 0.5 1.0
                  Param. Val.
                                                                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                        beta1[2]
                                                                    betaGFI
                                                                               betaGPS
   6884.332 7960.054 7420.778 7148.470 6884.332 7960.054 7679.815
##
                                                                              6702.119
##
  betaSIZE
   6431.885
## [1] "The difference of INIT impact \n between Interdich cut samples in ER1 has a\n probability of
## [1] "
```

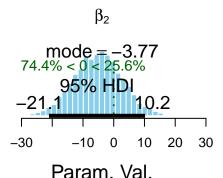
[1] " Analysis of Y= ER1 explained by x= EPI cutted by Interdich"

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact between Interdich cut samples in ER1 has a probability of 84.03 %



Param. Val.



 β_1 mode = -19.2
95.7% < 0 < 4.3%
95% HDI:
-39.4
3.14
-60 -40 -20 0 20

Param. Val.

|beta[2]| - |beta[1]| mode = -13.4 83.3% < 0 < 16.7% 95% HDI -34.9 : 10.4 -40 -20 0 20 Param. Val.

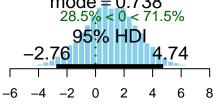
```
Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                  betaGFI
                                                                            betaGPS
  6797.493 6692.932
                       7737.021 7025.438 6797.493 6692.932 7195.183
                                                                           6526.961
   betaSIZE
   6306.631
## [1] "The difference of EPI impact \n between Interdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by Interdich"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

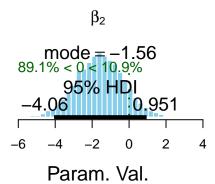
The difference of EPI impact between Interdich cut samples in ER1 has a β_2 probability of -53.66 % mode = -0.0395 53.7% < 0 < 46.3% mode = -0.11259% < 0 < 41% 95% HDI 95%:HDI 1.05 1.02 -0.9740.802 0 0 1 -2 -1 2 -1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.099mode = 0.023358.5% < 0 < 41.5% 36.3% < 0 < 63.7% 95%:HDI 95% HDI -0.484-0.6190.505 0.836 -1.0-0.50.0 0.5 1.0 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7319.627 9097.269
                       8856.829 8774.518 7319.627 9097.269 7512.766
                                                                         7274.341
##
  betaSIZE
   7064.293
##
  [1] "The difference of STEW impact \n between Interdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact between Interdich cut samples in ER1 has a probability of 71.49 % mode = 0.738 28.5% < 0 < 71.5%



Param. Val.



β₁

mode = -2.5
96.8% < 0 < 3.2%
95% HDI :
39
0.143

Param. Val.

-4

-8

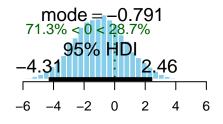
-6

-2

0

2

|beta[2]| - |beta[1]|



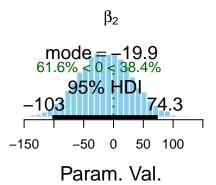
Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   9000.000 7898.967 9000.000 8473.120 9000.000 7898.967
                                                                8608.220
                                                                          6882.463
##
  betaSIZE
  6755.330
## [1] "The difference of II_10 impact \n between Interdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of II_10 impact between Interdich cut samples in ER1 has a probability of -82.08 %

mode = -51.8 82.1% < 0 < 17.9% 95% HDI **5**6.5 -200 -100 0 100

Param. Val.



 β_1 95% HDI 85.5 -19**.5** 0 50 100 150

Param. Val.

|beta[2]| - |beta[1]|

mode = -1.2550.6% < 0 < 49.4% 95% HDI -1000 50 100 150

Param. Val.

```
Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
```

Compiling model graph ## Resolving undeclared variables

Allocating nodes ## Graph information:

-50

Compiling data graph

Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 7 ##

Total graph size: 2043

##

##

##

Initializing model

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 7631.892 7433.130 7596.613 7368.803 7631.892 7433.130 8035.980 7148.159 ## betaSIZE ## 6964.219

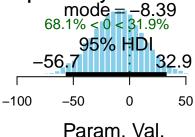
[1] "The difference of FOR_10 impact \n between Interdich cut samples in ER1 has a\n probability o ## [1] "

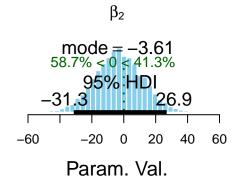
[1] " Analysis of Y= ER explained by x= PRI cutted by Interdich"

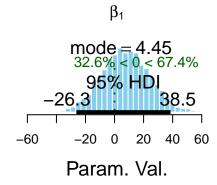
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

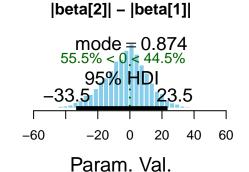
The difference of FOR_10 impact between Interdich cut samples in ER1 has a probability of -68.14 %







500): Unused variable "n" in data



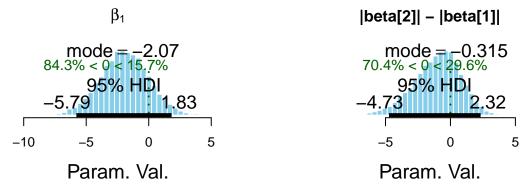
```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8118.560 8787.565 9000.000 8626.740 8118.560 8787.565 7937.463 7235.933
## betaSIZE
## 6796.996
## [1] "The difference of PRI impact \n between Interdich cut samples in ER has a\n probability of 6
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of PRI impact β_2 between Interdich cut samples in ER has a probability of 62.18 % mode = 0.0317 37.8% < 0 < 62.2% mode = 0.0025545.9% < 0 < 54.1% 95% HDI 95% HDI -0.129-0.1690.2250.137 -0.20.0 0.2 0.4 -0.20.0 0.1 0.2 0.3 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7000.089 7786.485 9396.566 8665.714 7000.089 7786.485 7933.298
                                                                          6740.534
## betaSIZE
## 7034.696
## [1] "The difference of INIT impact \n between Interdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between Interdich cut samples in ER has a probability of 72.17 % mode = 1.45 27.8% < 0 < 72.2% $\text{mode} = -0.472 \\ 63.9\% < 0 < 36.1\%$ 95% HDI 95% HDI 6.25 -5 0 5 10 -6-4 -2 0 2 4 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7759.296 5830.119 8315.794 7888.925 7759.296 5830.119
                                                                6876.217
                                                                          6962.347
## betaSIZE
## 6607.470
## [1] "The difference of EPI impact \n between Interdich cut samples in ER has a\n probability of 7
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by Interdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 between Interdich cut samples in ER has a probability of 70.82 % mode = 0.0488 29.2% < 0 < 70.8% mode = -0.0027861% < 0 < 39% 95% HDI 95% HDI -0.135 0.229 -0.1760.137 -0.3-0.10.1 0.3 -0.4-0.20.0 0.1 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\text{mode} = -0.0766 \\ 92.5\% < 0 < 7.5\%$ mode = -0.0128 57.9% < 0 < 42.1% 95%:HDI 95% HDI -0.1430.122-0.1720.0258-0.2-0.2 -0.1-0.3-0.10.0 0.1 0.0 0.1 0.2 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2047 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 7928.356 8331.901 9136.952 9087.594 7928.356 8331.901 8104.090 6663.972

[1] " Analysis of Y= ER explained by x= II_10 cutted by Interdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of STEW impact \n between Interdich cut samples in ER has a\n probability of

betaSIZE ## 7121.032

500): Unused variable "n" in data

[1] "

The difference of STEW impact β_2 between Interdich cut samples in ER has a probability of -55.73 % mode = -0.0646 55.7% < 0 < 44.3% mode = 0.012753.9% < 0 < 46.1% 95%:HDI 95% HDI 0.625 -0.4920.435-1.5-0.5 0.0 0.5 1.0 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $mode = 0.0264 \\ 45.4\% < 0 < 54.6\%$ mode = -0.004652.7% < 0 < 47.3% 95% HDI 95% HDI -0.5010.509 0.43 -0.415-0.50.0 -0.50.0 -1.00.5 -1.00.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8283.642 7509.507 9032.722 8929.847 8283.642 7509.507 8395.463 7143.527 ## betaSIZE 6541.556 ## [1] "The difference of II_10 impact \n between Interdich cut samples in ER has a\n probability of

[1] " Analysis of Y= ER explained by x= FOR_10 cutted by Interdich"

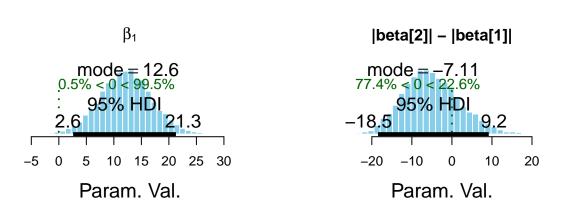
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "

500): Unused variable "n" in data

The difference of II_10 impact β_2 between Interdich cut samples in ER has a probability of -96.22 % mode = -3.1369.8% < 0 < 30.2% modé = -17.7 96.2% < 0 < 3.8% 95% HDI: 95% HDI -50-30-10 0 10 -30-10 0

Param. Val.



11.7

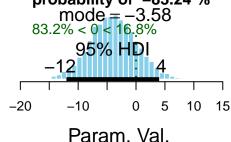
20

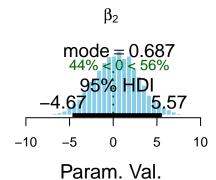
10

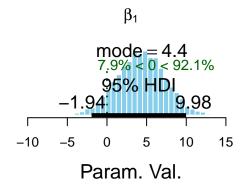
Param. Val.

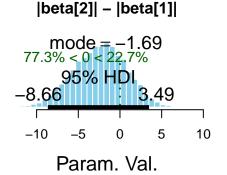
```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
                        beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
## alpha1[1] alpha1[2]
                                                                 betaGFI
   7385.839 7530.724
                        9000.000 9000.000 7385.839
                                                      7530.724 7960.826
                                                                           6852.810
##
  betaSIZE
## 6845.637
## [1] "The difference of FOR_10 impact \n between Interdich cut samples in ER has a\n probability of
```

The difference of FOR_10 impact between Interdich cut samples in ER has a probability of -83.24 %









Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')</pre>
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by Interdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
      Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  5350.331 5120.951 5182.947 5363.525 5350.331 5120.951 4994.435 4379.031
  betaSIZE
## 4560.733
## [1] "The difference of PRI impact \n between Interdich cut samples in CP has a\n probability of -
        The difference of PRI impact
 between Interdich cut samples in CP has a
                                                                     \beta_2
            probability of -65.58 %

    \text{mode} = -0.00455 \\
    65.6\% < 0 < 34.4\%

                                                                mode = 0.0124
                                                                  14.9% < 0 < 85.1%
                     95% HDI
                                                                   95% HDI
                                                          -0.00851
             -0.0402
                           0.0258
                                                                            0.0347
                -0.05
                                                      -0.04
                          0.00
                                    0.05
                                                                   0.00 0.02
                                                                              0.04
                 Param. Val.
                                                              Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.00324

65.5\% < 0 < 34.5\%

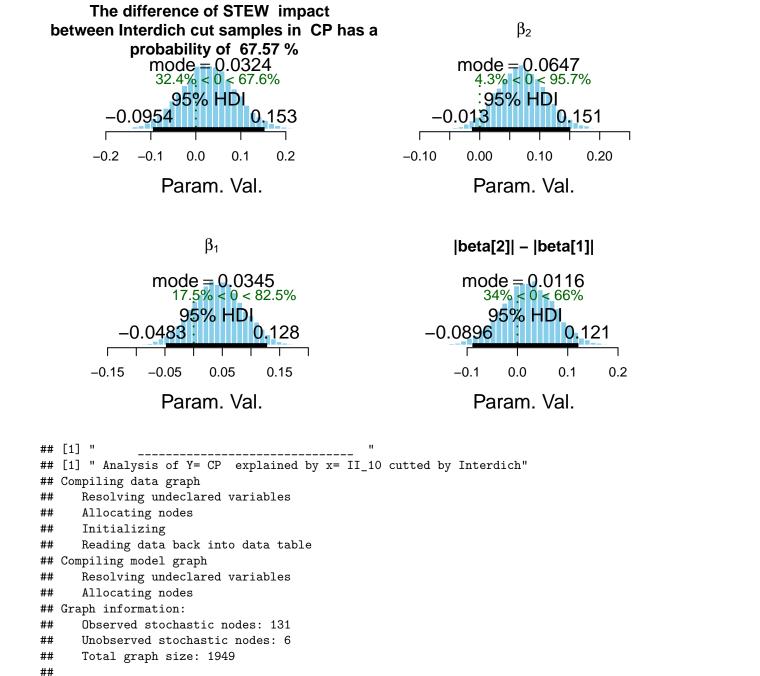
                mode = 0.0187
                 6.4% < 0 < 93.6%
                   95% HDI
                                                                 95% HDI
                                                        -0.0352
                                                                           0.0211
                              0.0426
           -0.005
         -0.02 0.00
                       0.02
                              0.04
                                    0.06
                                                     -0.06
                                                                -0.02
                                                                           0.02
                 Param. Val.
                                                              Param, Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by Interdich"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2038
##
## Initializing model
```

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  4925.139 5073.785 4979.134 5139.231 4925.139 5073.785 5245.506 5149.538
## betaSIZE
## 4293.785
## [1] "The difference of INIT impact \n between Interdich cut samples in CP has a\n probability of
        The difference of INIT impact
 between Interdich cut samples in CP has a
                                                                    \beta_2
            probability of -83.73 %
             mode = -0.476
83.7% < 0 < 16.3%
                                                           mode = -0.0527
                                                            51.8% < 0 < 48.2%
                   95% HDI
                                                                95%: HDI
                                                          0.481
                                                                          0.472
         -2.0
                  -1.0
                           0.0
                                   1.0
                                                    -1.0
                                                            -0.5
                                                                    0.0
                                                                            0.5
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = 0.325
11.5% < 0 < 88.5%
                                                            mode = -0.0831
77.5% < 0 < 22.5%
                   95% HDI
                                                                 95% HDI
                                                          -0.867
                                                                            0.36
            -0.5 0.0
                        0.5
                                                     -1.5 -1.0
                                                                 -0.5
                                                                              0.5
                             1.0
                                  1.5
                                                                        0.0
                 Param. Val.
                                                              Param, Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by Interdich"
  Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
     Total graph size: 2033
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
## 5007.918 3737.240 4638.685 5403.467 5007.918 3737.240 4353.067 4258.490
```

```
## [1] "The difference of EPI impact \n between Interdich cut samples in CP has a\n probability of -
        The difference of EPI impact
                                                                  \beta_2
 between Interdich cut samples in CP has a
            probability of -78.51 %
             mode = -0.0105
78.5% < 0 < 21.5%
                                                         mode = -0.00166
                                                          52.5% < 0 < 47.5%
                                                              95%:HDI
                   95% HDI
           -0.0446
                         0.0194
                                                                       0.0257
                -0.04
                         0.00
                                                                 0.00 0.02 0.04
       -0.08
                                 0.04
                                                      -0.04
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = 0.0124
                                                        mode = -0.00146
                                                         58.3% < 0 < 41.7%
                 10% < 0 < 90%
                  95% HDI
                                                             95%:HDI
        -0.00598
                            0.031
                                                      -0.0245
                                                                     0.0209
        -0.02
                0.00
                        0.02
                               0.04
                                                     -0.04
                                                                 0.00
                                                                      0.02
                                                                            0.04
                Param. Val.
                                                            Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by Interdich"
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
     Initializing
     Reading data back into data table
  Compiling model graph
##
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
     Total graph size: 2033
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                        betaGPS
## 5062.012 5003.442 5361.218 5248.402 5062.012 5003.442 4472.528 4731.313
## betaSIZE
## 4600.645
```

betaSIZE ## 3965.200

[1] "The difference of STEW impact \n between Interdich cut samples in CP has a\n probability of



[1] "The difference of II_10 impact \n between Interdich cut samples in CP has a\n probability of

betaGFI

betaGPS

4537.154

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

5552.512 4960.800 5390.787 6048.671 5552.512 4960.800 5280.750

Initializing model

betaSIZE ## 4158.992

mode = -1.24 77.4% < 0 < 22.6% mode = 0.42142.6% < **0** < 57.4% 95% HDI 95% HDI 2.12 3.13 -8 -6 -4 -20 2 6 -2 0 2 6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 1.54mode = -0.44 65.1% < 0 < 34.9% 5.2% < 0 < 94.8% 95% HDI :95% HDI -0.3223.57 2.19 -2 0 2 4 -2 0 2 6 -4 6 -6 4 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by Interdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6 ## Total graph size: 2029

beta1[2]

[1] "The difference of FOR_10 impact \n between Interdich cut samples in CP has a\n probability of

betaGFI

betaGPS

4347.100

 β_2

The difference of II_10 impact

##

##

##

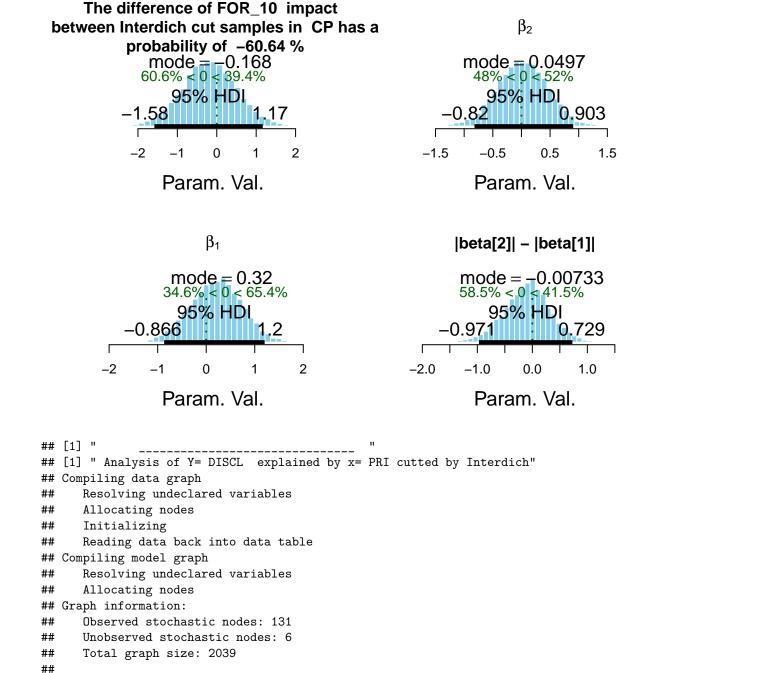
Initializing model

betaSIZE 4366.682

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

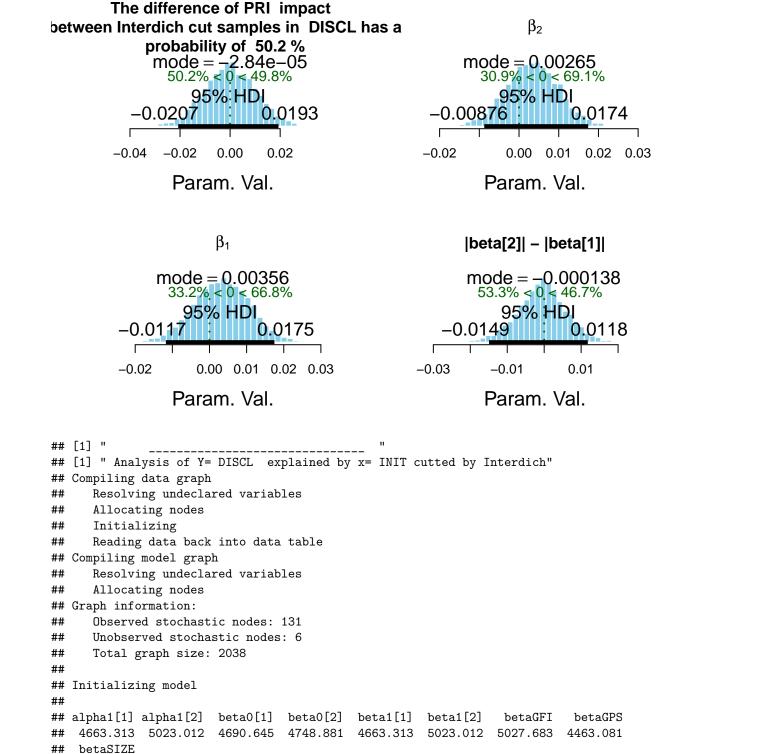
between Interdich cut samples in CP has a probability of -77.39 %

4990.448 4165.859 4702.921 5147.529 4990.448 4165.859 4803.955



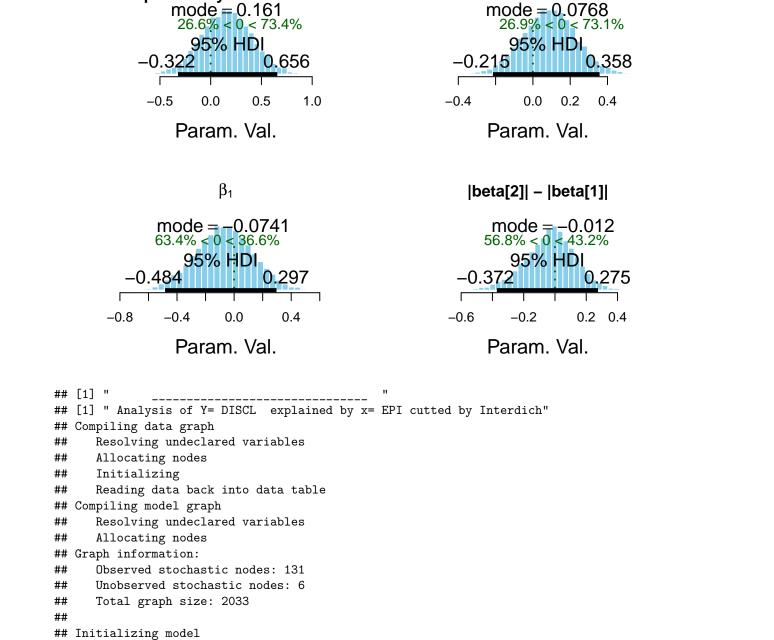
##
alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
5150.479 5126.401 5262.982 5419.358 5150.479 5126.401 5350.501 4370.252
betaSIZE
4479.226
[1] "The difference of PRI impact \n between Interdich cut samples in DISCL has a\n probability of

Initializing model



[1] "The difference of INIT impact \n between Interdich cut samples in DISCL has a\n probability o

4173.918



 β_2

betaGFI

betaGPS

4692.541

The difference of INIT impact

between Interdich cut samples in DISCL has a probability of 73.41 %

[1] "The difference of EPI impact \n between Interdich cut samples in DISCL has a\n probability of

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4206.217

4809.956 3656.676 4924.051 5729.638 4809.956 3656.676 4580.466

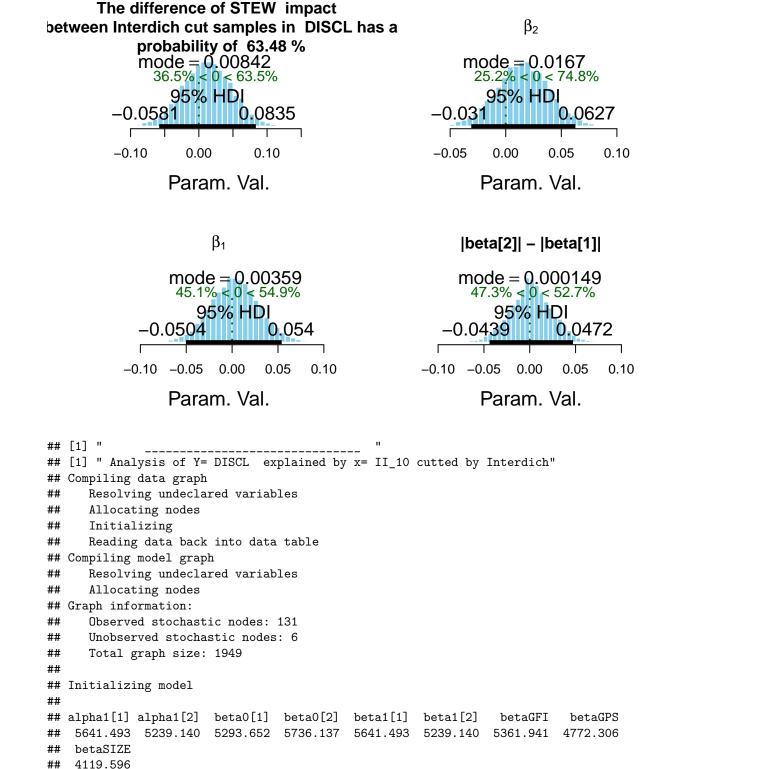
probability of -72.66 % mode = -0.004772.7% < 0 < 27.3% mode = 0.004327% < 0 < 73%95% HDI 95% HDI -0.02440.0137 -0.01090.0209 -0.04-0.020.00 0.02 -0.020.00 0.02 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0112 2.4% < 0 < 97.6% mode = -0.0044567.7% < 0 < 32.3% 95% HDI 95% HDI -0.01**73** 0.000535 0.0219 0.0129 -0.01 0.00 0.01 0.02 -0.020.00 0.03 0.02 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= STEW cutted by Interdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 6 ## Total graph size: 2033 ## ## Initializing model ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS ## 5028.655 5509.059 5491.211 5569.811 5028.655 5509.059 4950.227 4419.661 ## betaSIZE ## 4726.100

 β_2

The difference of EPI impact

between Interdich cut samples in DISCL has a

[1] "The difference of STEW impact \n between Interdich cut samples in DISCL has a\n probability o



[1] "The difference of II_10 impact \n between Interdich cut samples in DISCL has a\n probability

probability of -66.54 % mode = -0.509 66.5% < 0 < 33.5% mode = 0.089748.4% < 0 < 51.6% 95% HDI 95% HDI 1.68 _4 -20 2 -3 -2 -1 0 2 3 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.378 \\ 19\% < 0 < 81\% \end{array}$ mode = 0.0413 45.1% < 0 < 54.9%95% HDI 95% HDI **-1.15** 2 -2 2 3 -1 0 -1 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by Interdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 6 ## Total graph size: 2029

 β_2

The difference of II_10 impact

##

Initializing model

betaSIZE ## 4487.661

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5114.520 4834.513 5195.375 5263.024 5114.520

between Interdich cut samples in DISCL has a

beta1[2]

[1] "The difference of FOR_10 impact \n between Interdich cut samples in DISCL has a\n probability

betaGFI

4834.513 4942.176 4250.604

betaGPS

The difference of FOR_10 impact β_2 between Interdich cut samples in DISCL has a probability of 50.68 % $\text{mode} = -0.0238 \\ 49.3\% < 0 < 50.7\%$ 95% HDI 95%: HDI -0.1390.886 0.816 -1.5-0.50.5 1.5 -0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = 0.385 \\ 11.8\% < 0 < 88.2\% \end{array}$ mode = -0.01250.5% < 0 < 49.5% 95%:HDI 95% HDI -0.20**7** -0.738 1.06 0.675 -0.50.0 0.5 1.0 -1.0 -0.5 0.01.5 0.5 1.0

Param. Val.

DE-Separated Bayesian models

Param. Val.

Quantitative Y

```
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
##
     Total graph size: 2053
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  8757.876 8493.828 9198.206 8877.221 8757.876 8493.828
                                                              8195.648
                                                                        8615.491
   betaSIZE
##
   6740.517
## [1] "The difference of PRI impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
 between DEdich cut samples in EPS has a
            probability of -77.94 %
              mode = -0.197
77.9% < 0 < 22.1%
                                                           mode = 0.102
                                                             22.1% < 0 < 77.9%
                   95% HDI
                                                              95% HDI
                              0.298
                                                       -0.185
          -1.0
                  -0.5
                          0.0
                                                     -0.4
                                                               0.0 0.2 0.4 0.6
                                  0.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -0.114
77.1% < 0 < 22.9%
                                                                95% HDI
                 ∶95% HDI
           -0.048
                            0.681
                                                          -0.54
                                                                       0.266
                0.0
                         0.5
                                   1.0
                                                     -1.0
                                                             -0.5
                                                                      0.0
                                                                              0.5
                 Param. Val.
                                                             Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
                                                     8283.974
   7304.854 8283.974 7579.637 7226.179 7304.854
                                                               8217.548
                                                                         6918.183
  betaSIZE
##
##
  6781.647
## [1] "The difference of INIT impact \n between DEdich cut samples in EPS has a\n probability of 95
## [1] " Analysis of Y= EPS explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
 between DEdich cut samples in EPS has a
             probability of 95.8 %
                    mode = 10.2
4.2% < 0 < 95.8%
                                                              mode = 1.7
                                                              28.9% < 0 < 71.1%
                                                                95% HDI
                      :95% HDI
                                                          -5.24
                 -1.03
                               21.7
                          10
                     0
                               20
                                                                   0
                                                                       5
         -20 -10
                                                     -15
                                                              -5
                                                                           10
                                                                               15
                                    30
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
            mode = -8.31
95.9% < 0 < 4.1%
                                                              mode = -4.56
                                                           82.2% < 0 < 17.8%
                 95% HDI
                                                                95% HDI
            -16.5
                   -10
                           0
                                                                         0
             -20
                                 10
                                                        -20
                                                                -10
                                                                                10
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
```

##

##

##

Resolving undeclared variables

Reading data back into data table

Allocating nodes

Initializing

```
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                  beta0[2]
                                          beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  6879.105 6702.780 10210.639 9114.043 6879.105 6702.780
                                                                6866.518
                                                                          6503.733
##
   betaSIZE
  6394.278
## [1] "The difference of EPI impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
 between DEdich cut samples in EPS has a
                                                                     \beta_2
             probability of 95.28 %
                                                             mode = 0.11
19.6% < 0 < 80.4%
                 mode = 0.357
4.7% < 0 < 95.3%
                    95% HDI
                                                                95% HDI
           -0.0678
                                                         -0.173 :
        -0.5
                 0.0
                          0.5
                                   1.0
                                                        -0.4
                                                                 0.0
                                                                         0.4
                                                                                  0.8
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -0.211
                                                            mode_{=} -0.03
              93.7\% < 0 < 6.3\%
                                                          59.3% < 0 < 40.7%
                   95% HDI:
                                                              95% HDI
                             0.0611
                      -0.2
                            0.0
                                                      -0.6
                                                               -0.2
                                                                       0.2
            -0.6
                                 0.2
                                                                                0.6
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

##

Initializing

Compiling model graph

Reading data back into data table

```
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
      Total graph size: 2047
##
##
## Initializing model
##
                                            beta1[1]
##
  alpha1[1] alpha1[2]
                        beta0[1]
                                  beta0[2]
                                                       beta1[2]
                                                                   betaGFI
                                                                             betaGPS
    7698.345 8927.531
                        9000.000
                                  8549.090 7698.345
                                                       8927.531
                                                                  7985.447
                                                                            6859.986
    betaSIZE
##
##
    6823,250
  [1] "The difference of STEW impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                      \beta_2
 between DEdich cut samples in EPS has a
            probability of -95.94 %
              mode = -1.53
95.9% < 0 < 4.1%
                                                               mode = -0.15
                                                             63.9% < 0 < 36.1%
                                                                  95% HDI
                    95% HDI:
                             0.202
                                                                             0.891
                      -2
                              0
                                     2
                                                          -2
                                                                 -1
                                                                        0
                                                                                1
                                                                                      2
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                            \begin{array}{c} mode = -0.868 \\ 88.6\% < 0 < 11.4\% \end{array}
                  mode = 1.27
                  2.4% < 0 < 97.6%
                    95% HDI
                                                                  95% HDI
             0.0382
                                2.74
                                                                             0.528
                             2
                                  3
                                                            -3
            -1
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
```

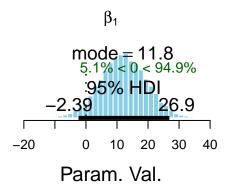
```
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2]
                        beta0[1]
                                   beta0[2]
                                             beta1[1]
                                                        beta1[2]
                                                                    betaGFI
                                                                              betaGPS
    8631.328 7936.506
                        9406.095
                                   8124.709
                                             8631.328 7936.506
                                                                  8526.384
                                                                             6871.798
    betaSIZE
    6741.771
##
## [1] "The difference of II_10 impact \n between DEdich cut samples in EPS has a\n probability of 8
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                       \beta_2
 between DEdich cut samples in EPS has a
             probability of 89.02 %
                 mode = 26.8
11% < 0 < 89%
                                                                 mode = 23
                                                                 10.6% < 0 < 89.4%
                   95% HDI
                                                                  95% HDI
              16.1
                                                            -11.4
                   0
         -50
                           50
                                    100
                                                       -50
                                                                  0
                                                                           50
                                                                                     100
                  Param. Val.
                                                                 Param. Val.
                        \beta_1
                                                              |beta[2]| - |beta[1]|

    \text{mode} = -3.62 \\
    65.4\% < 0 < 34.6\%

                                                              mode = 11
25.5% < 0 < 74.5%
                                                                95% HDI
                    95% HDI
              -30.9
             -40
                   -20
                           0
                                20
                                      40
                                                       -50
                                                                  0
                                                                            50
                                                                                      100
                  Param. Val.
                                                                 Param. Val.
##
   Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
```

Allocating nodes

```
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8015.620 7575.831 8683.412 8509.196 8015.620 7575.831 7651.935
                                                                         8012.040
##
   betaSIZE
   6072.195
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
 between DEdich cut samples in EPS has a
            probability of -86.8 %
            mode = -10.3
86.8% < 0 < 13.2%
                                                            mode = 0.171
                                                              47% < 0 < 53%
                                                               95% HDI
                  95% HD1
          -33.2
                             7.82
                                                                          13.5
```



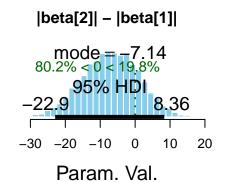
0

Param. Val.

20

-40

-20



0

Param. Val.

10

20

-20 -10

```
## Compiling data graph
## Resolving undeclared variables
## Allocating nodes
## Initializing
## Reading data back into data table
## Compiling model graph
## Resolving undeclared variables
## Allocating nodes
## Graph information:
```

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                    betaGFI
                                                                              betaGPS
   8513.158 8624.990 9207.580 8788.502 8513.158 8624.990 8325.882 7184.620
##
    betaSIZE
##
  7147.759
## [1] "The difference of PRI impact \n between DEdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                       \beta_2
 between DEdich cut samples in ET3 has a
             probability of 95.24 %
                 mode = 0.729
4.8% < 0 < 95.2%
                                                            mode = -0.226
72.9% < 0 < 27.1%
                    95% HDI
                                                                  95% HDI
            -0.5
                      0.5
                          1.0
                                1.5 2.0
                                                         -1.0
                                                                 -0.5
                                                                        0.0
                                                                               0.5
                                                                                      1.0
                  Param. Val.
                                                                 Param. Val.
                        \beta_1
                                                              |beta[2]| - |beta[1]|
                  mode = -0.886
99.7% < 0 < 0.3%

    \text{mode} = -0.71 \\
    94.9\% < 0 < 5.1\%

                      95% HDI
                                                                   95% HDI:
                                -0.258
                                                                              0.102
            -2.0 -1.5 -1.0 -0.5 0.0
                                                        -2.0
                                                                  -1.0
                                                                             0.0
                                                                                  0.5
                  Param. Val.
                                                                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
```

Allocating nodes

Observed stochastic nodes: 131

Graph information:

##

```
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   6885.186 7632.507 7706.243 7416.724 6885.186 7632.507 7905.542
   betaSIZE
##
##
   6293.636
## [1] "The difference of INIT impact \n between DEdich cut samples in ET3 has a\n probability of 93
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
 between DEdich cut samples in ET3 has a
                                                                   \beta_2
            probability of 93.41 %
                mode = 14.2
6.6% < 0 < 93.4%
                                                           mode = -2.62
                                                        68.2% < 0 < 31.8%
                  95% HDI
                                                             95% HDI
            -5.05
                                                       -15.6
                                                                        10
          -20
                  0
                        20
                               40
                                                        -20 -10
                                                                   0
                                                                        10
                                     60
                                                                             20
                 Param. Val.
                                                            Param. Val.
```



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
```

```
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
  7379.459 5907.465 8685.396 7908.062 7379.459 5907.465 6719.581 7588.355
  betaSIZE
## 6277.602
## [1] "The difference of EPI impact \n between DEdich cut samples in ET3 has a\n probability of 82.
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                      \beta_2
 between DEdich cut samples in ET3 has a
             probability of 82.06 %
               mode = 0.265
17.9% < 0 < 82.1%
                                                           mode = -0.00618
48.6\% < 0 < 51.4\%
                   95% HDI
                                                                 95% HDI
                                                            -0.58 : 0.6
            -0.383 : 1.13
                    0.0 0.5 1.0 1.5 2.0
          -1.0
                                                          -1.0
                                                                     0.0
                                                                          0.5
                                                                              1.0
                                                                                    1.5
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

    \text{mode} = -0.349 \\
    90.4\% < 0 < 9.6\%

                                                         mode = -0.176
65.6% < 0 < 34.4%
                    95% HDI
                                                               95% HDI
            -0.823
                                                                         0.445
             -1.0
                     -0.5
                              0.0
                                      0.5
                                                        -1.0 -0.5
                                                                    0.0
                                                                          0.5
                                                                                1.0
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
```

Resolving undeclared variables

Compiling model graph

##

##

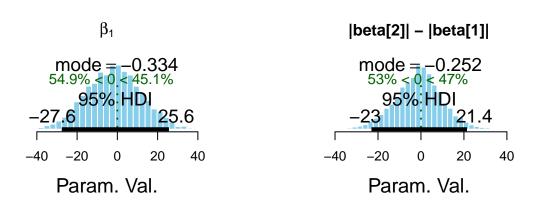
```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
                                                     9000.000
  7957.988 9000.000 8996.186 8952.072 7957.988
                                                               7997.621
                                                                         7774.785
  betaSIZE
##
  6717.948
## [1] "The difference of STEW impact \n between DEdich cut samples in ET3 has a\n probability of 94
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
 between DEdich cut samples in ET3 has a
                                                                   \beta_2
            probability of 94.72 %
                                                           mode = 2.42
5.3% < 0 < 94.7%
                  95% HDI
                                                               95%:HDI
          -0.398
           -2
                 0
                     2
                          4
                               6
                                    8
                                                        -3 -2 -1
                                                                    0
                                                                            2
                                                                                3
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                           mode = -2.09
92.2% < 0 < 7.8%
                 mode = -2.61
                 98.5% < 0 < 1.5%
                   95% HDI
                                                                95% HDI
                         -2
                                0
                                                                    -2
                                                                          0
                                                                                2
                                                         -6
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1963
```

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  8430.470 8220.495 9000.000 8453.297 8430.470 8220.495
                                                               9427.264
                                                                        7472.868
##
  betaSIZE
## 7278.762
## [1] "The difference of II_10 impact \n between DEdich cut samples in ET3 has a\n probability of -
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
 between DEdich cut samples in ET3 has a
            probability of -50.72 %
             mode = 0.297
50.7% < 0 < 49.3%
                                                             mode = 5.04
                                                             40.7% < 0 < 59.3%
                 95%: HDI
                                                                95% HDI
                 -50 0
                         50 100
                                                                   0
                                                                        50
        -150
                                                       -100 -50
                                                                             100
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 5.36
                                                          mode = 0.298
                                                          41.7% < 0 < 58.3%
                 35.5% < 0 < 64.5%
                   95% HDI
                                                              95% HDI
                                                         40.3
                             53.7
                                                                     57.2
              -50
                      0
                             50
                                    100
                                                         -50
                                                                 0
                                                                       50
                                                                              100
                 Param. Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2043
##
```

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   6919.892 7735.045 9063.335
                                 8656.890 6919.892 7735.045 7059.985
                                                                         6975.334
  betaSIZE
##
   6409.183
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
 between DEdich cut samples in ET3 has a
            probability of -50.64 %
              mode = -0.558
50.6% < 0 < 49.4%
                                                           mode = -4.31
                                                           56.4% < 0 < 43.6%
                  95%:HDI
                                                               95%:HDI
                                                          25.9
             -50
                       0
                                50
                                                       -40
                                                             -20
                                                                    0
                                                                         20
                                                                               40
```

Param. Val.



```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
## Initializing model
##
```

Param. Val.

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                                 betaGFI
  8309.847 9484.263 8463.552 8357.328 8309.847 9484.263 8623.800 6947.636
  betaSIZE
## 7512.418
## [1] "The difference of PRI impact \n between DEdich cut samples in ER3 has a\n probability of 92."
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
 between DEdich cut samples in ER3 has a
             probability of 92.78 %
                 mode = 0.601
7.2% < 0 < 92.8%
                                                           mode = -0.185
74.4\% < 0 < 25.6\%
                    :95% HDI
                                                                 95% HDI
            -0.197
         -1.0
                  0.0 0.5 1.0 1.5 2.0
                                                                        0.0
                                                         -1.0
                                                                -0.5
                                                                               0.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

    \text{mode} = -0.801 \\
    99.4\% < 0 < 0.6\%

                                                             mode = -0.58
                                                              92% < 0 < 8%
                                                               95% HDI:
                   95% HDI
         -2.0 -1.5 -1.0 -0.5 0.0
                                                                    -0.5 0.0 0.5
                                     0.5
                                                          -1.5
                                                                                   1.0
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta0FI

##

```
## 6482.540 8164.488 7412.179 7149.633 6482.540 8164.488 8567.238 6760.097
## betaSTZE
  6597.715
## [1] "The difference of INIT impact \n between DEdich cut samples in ER3 has a\n probability of 94
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
 between DEdich cut samples in ER3 has a
            probability of 94.49 %
                 modé = 16
5.5% < 0 < 94.5%
                                                           mode = -2.78
63.1% < 0 < 36.9%
                   95% HDI
                                                                95% HDI
         -20
                 0
                        20
                               40
                                                                      0
                                                                           10
                                      60
                                                         -20
                                                               -10
                                                                                 20
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -17.8
                                                             mode = -12.9
                98.8% < 0 < 1.2%
                                                            93.1% < 0 < 6.9%
                  95% HDI
                                                                95% HDI
                                                                           4.06
        -50
                 -30
                          -10
                                0
                                    10
                                                        -40
                                                                 -20
                                                                           0
                                                                               10
                                                                                   20
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
```

7201.276 6467.897 7938.697 7232.003 7201.276 6467.897 6774.374 7400.038

betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

```
## betaSIZE
## 6208.611
## [1] "The difference of EPI impact \n between DEdich cut samples in ER3 has a\n probability of 74."
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                   \beta_2
 between DEdich cut samples in ER3 has a
            probability of 74.21 %
                mode = 0.239
25.8% < 0 < 74.2%
                                                            mode = 0.0332
                                                            48.8% < 0 < 51.2%
                                                                95% HDI
                   95% HDI
           -0.504
                                                        -0.592
                                                                         0.608
          -1.0
                    0.0 0.5 1.0 1.5
                                                       -1.0 -0.5
                                                                   0.0
                                                                         0.5
                                                                               1.0
                 Param, Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
             mode = -0.021
57.3% < 0 < 42.7%
                                                               95%:HDI
                   95% HDI
                                                                         0.497
            -0.766
                                                        -0.605
            -1.0
                   -0.5
                          0.0
                                                       -1.0
                                                             -0.5
                                                                          0.5
                                 0.5
                                                                   0.0
                                                                               1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
  Compiling model graph
##
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
  8062.517 9000.000 8602.755 8474.431 8062.517 9000.000 8527.275
                                                                       7085.642
```

betaSIZE

```
## 6551.219
## [1] "The difference of STEW impact \n between DEdich cut samples in ER3 has a\n probability of 94
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                    \beta_2
 between DEdich cut samples in ER3 has a
            probability of 94.76 %
                mode = 2.79
5.2% < 0 < 94.8%
                                                             mode = 0.0686
                                                           53.7% < 0 < 46.3%
                  :95% HDI
                                                               95%:HDI
            0.562
                                                          -2.03
                                                                    1.82
                                                                            2
            -2
                      2
                                                            -2
                                                                     0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                             mode = -1.94
92% < 0 < 8%
               mode = -2.69
98.6% < 0 < 1.4%
                   95% HDI
                                                                95% HDI:
            -5.06
                                                                          0.599
            -6
                         -2
                               0
                                     2
                                                                    -2
                                                                          0
                                                                                2
                                                        -6
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
                                                                           betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
  8212.398 8698.366 9227.842 8518.004 8212.398 8698.366 8269.134 6953.866
## betaSIZE
```

6519.508

```
## [1] "The difference of II_10 impact \n between DEdich cut samples in ER3 has a\n probability of 5
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
 between DEdich cut samples in ER3 has a
            probability of 59.61 %
                mode = 11.2
40.4% < 0 < 59.6%
                                                              mode = 18.8
                                                              26.3% < 0 < 73.7%
                   95% HDI
                                                                 95% HDI
                                                                            88.3
       -150
                 -50
                       0
                           50
                                                     -100
                                                          -50
                                                                  0
                                                                        50
                                                                             100
                              100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                            mode = 1.5
37.6% < 0 < 62.4%
                  mode = 11.4
                  33% < 0 < 67%
                   95% HDI
                                                               95% HDI
              -50
                       0
                              50
                                     100
                                                           -50
                                                                  0
                                                                        50
                                                                              100
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
##
  Initializing model
##
                       beta0[1]
                                  beta0[2]
                                           beta1[1] beta1[2]
## alpha1[1] alpha1[2]
                                                                 betaGFI
  7653.718 7534.497 8595.169 8556.016 7653.718 7534.497 7300.875
                                                                          7405.337
   betaSIZE
##
##
  7027.751
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER3 has a\n probability of
```

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
 between DEdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 52.76 %
                 mode = 1.36
47.2% < 0 < 52.8%
                                                                mode = 1.79
                                                                42.7% < 0 < 57.3%
                    95% HDI
                                                                  95% HDI
              -50
                         0
                                  50
                                                         -40
                                                                -20
                                                                       0
                                                                            20
                                                                                  40
                                                               Param. Val.
                 Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

    \text{mode} = 2.3
    46.2\% < 0 < 53.8\%

                                                                mode = 0.154
                                                              52.2% < 0 < 47.8%
                   95% HDI
                                                                  95%:HDI
                                                             24.2
                                                                             21.5
           -40
                 -20
                        0
                             20
                                   40
                                                         -40
                                                                -20
                                                                       0
                                                                             20
                                                                                   40
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                            betaGPS
   9498.198 8779.952 9158.280 8927.197 9498.198 8779.952 8594.547
                                                                           6895.098
## betaSIZE
   6805.050
```

[1] "

[1] "The difference of PRI impact \n between DEdich cut samples in ER1 has a\n probability of 52.

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                      \beta_2
 between DEdich cut samples in ER1 has a
              probability of 52.6 %
               mode = 0.018
47.4% < 0 < 52.6%
                                                              mode = -0.372
                                                           87.4% < 0 < 12.6%
                   95% HDI
                                                                 95% HDI
             -0.997
                                                          -1.08
                                                                               0.5
         -2
                _1
                       0
                                     2
                                                        -1.5 -1.0 -0.5
                                                                         0.0
                                                                                     1.0
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
            \begin{array}{c} mode = -0.429 \\ 85.9\% < 0 < 14.1\% \end{array}
                                                              mode = 0.00797
                                                              53.4% < 0 < 46.6%
                                                                 95% HDI
                   95% HDI
                             0.364
                                                        -0.965
            -1.5
                      -0.5
                                0.5 1.0
                                                       -1.5
                                                                 -0.5
                                                                           0.5
                                                                               1.0
                                                                                    1.5
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1]
                                  beta0[2] beta1[1]
                                                       beta1[2]
                                                                   betaGFI
                                                                             betaGPS
             8068.079 8240.143 8007.511 7389.089
                                                       8068.079
##
   7389.089
                                                                 8366.647
                                                                            6859.423
##
   betaSIZE
   7868.405
## [1] "The difference of INIT impact \n between DEdich cut samples in ER1 has a\n probability of 73
## [1] "
```

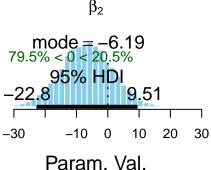
[1] " Analysis of Y= ER1 explained by x= EPI cutted by DEdich"

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt = ## 500): Unused variable "n" in data

The difference of INIT impact between DEdich cut samples in ER1 has a probability of 73.7 % \beta_2
```

mode = 4.35 26.3% < 0 < 73.7% 95% HDI -17.2 : 33.4 -40 -20 0 20 40 60

Param. Val.



 $\begin{array}{c} \beta_1 \\ \text{mode} = -14 \\ 92.8\% < 0 < 7.2\% \\ 95\% \text{ HDI:} \\ -34.1 \\ \hline -40 \quad -20 \quad 0 \quad 20 \end{array}$

Param. Val.

```
Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2]
                        beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                 betaGFI
                                                                            betaGPS
  6880.532 6264.773
                       7570.727
                                  6961.278 6880.532 6264.773 7091.259
                                                                           7743.685
   betaSIZE
   6170.987
## [1] "The difference of EPI impact \n between DEdich cut samples in ER1 has a\n probability of 88.
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by DEdich"
```

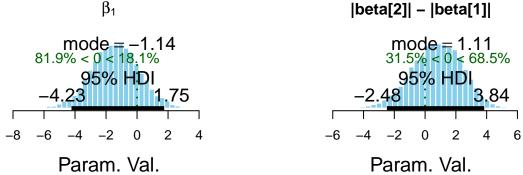
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of EPI impact

between DEdich cut samples in ER1 has a β_2 probability of 88.36 % mode = 0.518 11.6% < 0 < 88.4% mode = 0.26925.3% < 0 < 74.7% 95% HDI 95% HDI 0.992 -0.397-0.4760 -1 2 -1.5-0.50.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.32mode = -0.0046383.7% < 0 < 16.3% 51.5% < 0 < 48.5% 95% HDI 95% HDI -0.919 0.307 -0.7140.754-1.0-0.50.0 0.5 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val. ## Compiling data graph ## Resolving undeclared variables ## Allocating nodes ## Initializing

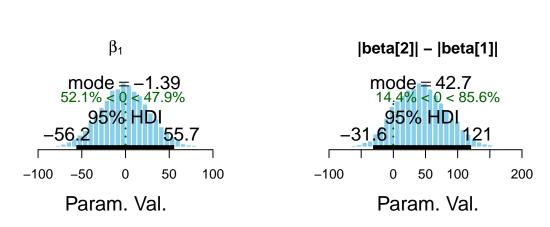
```
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7710.347 8779.463 9306.873 8899.466 7710.347 8779.463 8035.645
                                                                         6704.369
## betaSIZE
   6793.268
##
## [1] "The difference of STEW impact \n between DEdich cut samples in ER1 has a\n probability of -7
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between DEdich cut samples in ER1 has a probability of -70.31 % mode = -1.2 70.3% < 0 < 29.7%mode = -2.4397.8% < 0 < 2.2% 95% HDI 95% HDI: -0.0442 -5 0 5 -6 -4 -2 0 2 Param. Val. Param. Val.



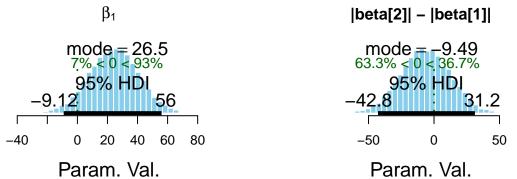
```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8735.078 8516.382 9115.333 7973.991 8735.078 8516.382 8387.564
                                                                          7050.999
## betaSIZE
## 6968.678
## [1] "The difference of II_10 impact \n between DEdich cut samples in ER1 has a\n probability of 9
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of II_10 impact β_2 between DEdich cut samples in ER1 has a probability of 91.24 % mode = 75.3mode = 67.74.7% < 0 < 95.3% 8.8% < 0 < 91.2% 95% HDI 95% HDI -29.8 143 -1000 100 200 -50 0 50 100 200 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   6359.063 7843.589 9000.000 9000.000 6359.063 7843.589 7651.222 7385.679
## betaSIZE
## 6564.718
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact β_2 between DEdich cut samples in ER1 has a probability of -96.34 % mode = -38.596.3% < 0 < 3.7% mode = -17.1 87.2% < 0 < 12.8% 95% HDI: 95% HDI 4.55 -100-500 50 -80 -400 20 40 Param. Val. Param. Val.



```
## Compiling data graph
     Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8267.452 8531.837 9000.000 9000.000 8267.452 8531.837 8659.722 7459.799
## betaSIZE
## 6877.041
## [1] "The difference of PRI impact \n between DEdich cut samples in ER has a\n probability of -56.
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact β_2 between DEdich cut samples in ER has a probability of -56.92 % mode = -0.0224 56.9% < 0 < 43.1% mode = -0.0068158.7% < 0 < 41.3% 95%:HDI 95% HDI -0.2060.178 -0.1360.11 -0.4-0.20.0 0.2 -0.2 -0.10.0 0.1 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.00552 48.6% < 0 < 51.4%mode = -0.0014254.4% < 0_.< 45.6% 95% HDI 95% HDI **−0.145** -0.13 0.106 -0.3 -0.2 -0.1-0.3-0.1 0.0 0.1 0.2 0.0 0.1 0.2 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2053 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS ## 7128.388 7929.898 8192.268 7746.370 7128.388 7929.898 8004.832 6403.738

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] " Analysis of Y= ER explained by x= EPI cutted by DEdich"

[1] "The difference of INIT impact \n between DEdich cut samples in ER has a\n probability of 50.

betaSIZE ## 6726.192

500): Unused variable "n" in data

[1] "

β_2 between DEdich cut samples in ER has a probability of 50.14 % $\text{mode} = -0.0993 \\ 49.9\% < 0 < 50.1\%$ mode = -0.792 74.7% < 0 < 25.3%95% HDI 95% HDI -5 0 5 -6 -2 0 2 4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = -0.991 \\ 71.8\% < 0 < 28.2\% \end{array}$ mode = -0.0044253.8% < 0 < 46.2% 95% HDI 95% HDI 2.42 -8 -6 -4 -2 -4 -2 2 0 6 0 4 6 -6 Param. Val. Param. Val. Resolving undeclared variables Allocating nodes Initializing

The difference of INIT impact

```
## Compiling data graph
##
##
##
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7430.927 6439.994 8402.727 8157.616 7430.927 6439.994
                                                                6763.045 7255.403
## betaSIZE
## 6418.475
## [1] "The difference of EPI impact \n between DEdich cut samples in ER has a\n probability of -95.
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 between DEdich cut samples in ER has a probability of -95.39 % mode = -0.139 95.4% < 0 < 4.6% $\text{mode} = -0.147 \\ 98.3\% < 0 < 1.7\%$ 95% HDI 95% HDI: -0.00974-0.3010.0265-0.5-0.3-0.10.1 0.2 -0.4 -0.3 -0.2 -0.10.0 0.1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $mode = 0.104 \\ 8.7\% < 0 < 91.3\%$ mode = -0.0018451.3% < 0 < 48.7% 95% HDI 95%: HDI 0.105-0.109-0.04450.238-0.2 -0.10.0 0.2 0.1 0.2 -0.10.0 0.1 0.3 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2047 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8589.384 8791.083 9145.241 8387.728 8589.384 8791.083 7677.711 6325.085 ## betaSIZE ## 6746.742 ## [1] "The difference of STEW impact n between DEdich cut samples in ER has an probability of -72 ## [1] " ## [1] " Analysis of Y= ER explained by x= II_10 cutted by DEdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

The difference of STEW impact β_2 between DEdich cut samples in ER has a probability of -72.11 % mode = -0.24272.1% < 0 < 27.9% mode = -0.07264.1% < 0 < 35.9% 95% HDI 95% HDI 0.91-0.5050.477 -1.5-0.5 0.0 0.5 1.0 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.14mode = -0.0099631.8% < 0 < 68.2% 59.5% < 0 < 40.5% 95% HDI 95% HDI -0.53 0.388 -0.409 0.678-0.5-0.50.0 0.5 1.0 -1.00.0 0.5 1.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model

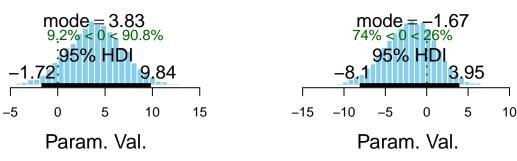
```
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
## 8252.739 8455.715 10492.311 8594.411 8252.739 8455.715 8326.526 7402.783
## betaSIZE
## 6997.143
## [1] "The difference of II_10 impact \n between DEdich cut samples in ER has a\n probability of -7
## [1] " _______ "
## [1] " Analysis of Y= ER explained by x= FOR_10 cutted by DEdich"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of II_10 impact β_2 between DEdich cut samples in ER has a probability of -79.91 % mode = -6.82 79.9% < 0 < 20.1% mode = 3.8431.9% < 0 < 68.1% 95% HDI 95% HDI 9.56 16.4 -40-200 10 20 -20 -10 0 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 11.2 2% < 0 < 98% mode = -5.4575.2% < 0 < 24.8% 95% HDI 95% HDI 0.221 8.9 20.1 -100 10 20 -20 0 10 20 30 -10 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
## alpha1[1] alpha1[2]
                                                                 betaGFI
   7155.467 7294.703
                       9132.172 9240.078 7155.467
                                                      7294.703
                                                                8134.007
                                                                          6853.882
##
  betaSIZE
  6336.175
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER has a\n probability of
```

The difference of FOR_10 impact β_2 between DEdich cut samples in ER has a probability of -80.43 % mode = -3.280.4% < 0 < 19.6% mode = 0.83842.6% < 0 < 57.4% 95% HDI 95% HDI -20-10 -50 5 10 -10 -5 0 5 10 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|



Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by DEdich"
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
     Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
  5555.835 5119.663 5124.133 5442.765 5555.835 5119.663 4935.014 4577.265
  betaSIZE
## 4560.077
## [1] "The difference of PRI impact \n between DEdich cut samples in CP has a\n probability of
        The difference of PRI impact
  between DEdich cut samples in CP has a
                                                                  \beta_2
           probability of -97.71 %

mode = -0.0356

97.7\% < 0 < 2.3\%

                                                         mode = 0.000349
                                                           44.7% < 0 < 55.3%
                  95% HDI:
                                                              95% HDI
                          -0:00139
         -0.0676
                                                      -0.0195
                                                                         0.022
       -0.10
               -0.06
                        -0.02
                                 0.02
                                                   -0.04
                                                          -0.02
                                                                 0.00
                                                                        0.02
                                                                               0.04
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = 0.0327
                                                          mode = -0.0248
              0.4\% < 0 < 99.6\%
                                                          96.5% < 0 < 3.5%
                   95% HDI
                                                              95% HDI:
           0.00983
                                                     -0.0544
                             0.0609
                                                                       0.00183
            0.00 0.02 0.04 0.06 0.08
                                                   -0.08
                                                             -0.04
                                                                        0.00
                 Param. Val.
                                                            Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by DEdich"
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2039
##
```

Initializing model

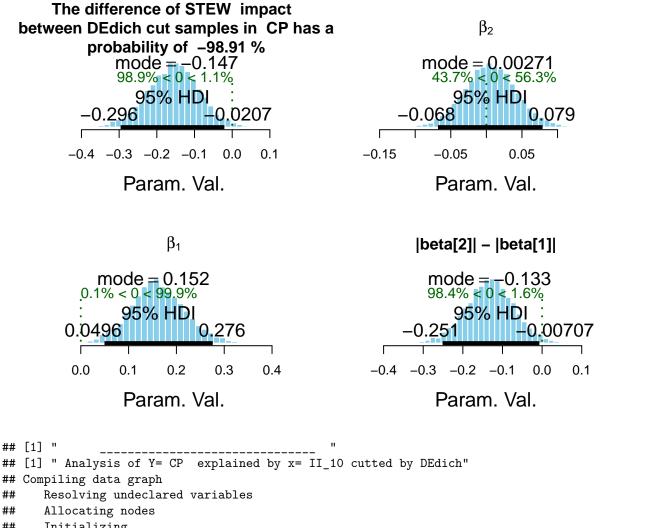
```
##
                                                                            betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
  4948.366 5008.594 5205.363 4947.967 4948.366 5008.594 5027.981 4483.954
## betaSIZE
## 4408.843
## [1] "The difference of INIT impact \n between DEdich cut samples in CP has a\n probability of -62
        The difference of INIT impact
  between DEdich cut samples in CP has a
                                                                     \beta_2
             probability of -62.8 %
               mode = -0.161
62.8% < 0 < 37.2%
                                                              mode = 0.0855
                                                               37.7% < 0 < 62.3%
                    95% HDI
                                                                 95% HDI
                               0.687
                                                           0.389
                                                                            0.582
          -1.5
                    -0.5
                              0.5 1.0
                                                            -0.5
                                                                    0.0
                                                                            0.5
                                                                                   1.0
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = 0.175
25% < 0 < 75%

    \text{mode} = -0.00446 \\
    62\% < 0 < 38\%

                  95% HDI
                                                                   95% HDI
                                                           -0.626
          -0.413
                                                                             0.451
                   0.0
                          0.5
                                                                 -0.5
                                                                        0.0
                                                                               0.5
             -0.5
                                1.0
                                      1.5
                                                           -1.0
                 Param. Val.
                                                               Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by DEdich"
  Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2033
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                            betaGPS
## 5130.903 4207.513 4746.108 5146.337 5130.903 4207.513 4727.274 4954.803
```

```
## [1] "The difference of EPI impact \n between DEdich cut samples in CP has a\n probability of -74.
        The difference of EPI impact
                                                                   \beta_2
  between DEdich cut samples in CP has a
            probability of -74.1 %
              mode = -0.0122
74.1% < 0 < 25.9%
                                                         mode = 0.000502
                                                           41.8% < 0 < 58.2%
                   95% HDI
                                                              95% HDI
          -0.041
                             0.0185
                                                     -0.0205
                                                                        0.0244
                   -0.02
                                                                0.00
                                                                       0.02
        -0.06
                              0.02 0.04
                                                         -0.02
                                                                              0.04
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                          mode = -0.00237
64.1% < 0 < 35.9%
               mode = 0.0126
                 11.1% < 0 < 88.9%
                                                               95% HDI
                  95% HDI
                                                      -0.0278
           -0.008
                            0.0318
                                                                         0.0171
         -0.02
                 0.00
                         0.02
                                0.04
                                                      -0.04 -0.02 0.00
                                                                          0.02
                                                                                0.04
                 Param. Val.
                                                             Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by DEdich"
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2033
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                                          betaGPS
                                                     beta1[2]
                                                                betaGFI
## 5346.390 5828.086 5507.379 5324.416 5346.390 5828.086 4947.459
                                                                         4467.124
## betaSIZE
## 4498.666
## [1] "The difference of STEW impact \n between DEdich cut samples in CP has a\n probability of -98
```

betaSIZE ## 3946.170



```
## [1] " Analysis of Y= CP explained by x= II_10 cutted by DEdich"
##
##
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 1949
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  5421.322 5526.859 5598.730 6019.028 5421.322 5526.859
                                                                4981.288
                                                                          4556.075
## betaSIZE
## 4481.603
## [1] "The difference of II_10 impact \n between DEdich cut samples in CP has a\n probability of
```

The difference of II_10 impact β_2 between DEdich cut samples in CP has a probability of -72.26 % modé = -0.86 72.3% < 0 < 27.7%95% HDI 95% HDI -6 -4 -2 0 2 -2 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 1.21 6.7% < 0 < 93.3% mode = -0.52467% < **0** < 33% 95% HDI 95% HDI 3.82 1.96 -2 2 -2 2 4 6 0 4 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by DEdich" Compiling data graph

```
Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2029
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  4531.778 4351.027 4212.479 4635.978 4531.778 4351.027 4838.773 4673.077
## betaSIZE
## 4052.425
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in CP has a\n probability of -
```

The difference of FOR_10 impact β_2 between DEdich cut samples in CP has a probability of -80.76 % mode = -0.585 80.8% < 0 < 19.2% mode = -0.0856 62.6% < 0 < 37.4%95% HDI 95% HDI -1.04 0.816 0.73 -3 -2 -1 0 2 -2 -1 0 1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.455 19.2% < 0 < 80.8% mode = -0.0233 63.8% < 0 < 36.2% 95% HDI 95% HDI 0.758 -1.19 2 -2 -1 0 -1 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by DEdich" Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131

[1] "The difference of PRI impact \n between DEdich cut samples in DISCL has a\n probability of -

betaGFI

betaGPS

5602.798 5545.653 5320.396 5449.180 5602.798 5545.653 5096.266 4876.995

##

##

##

##

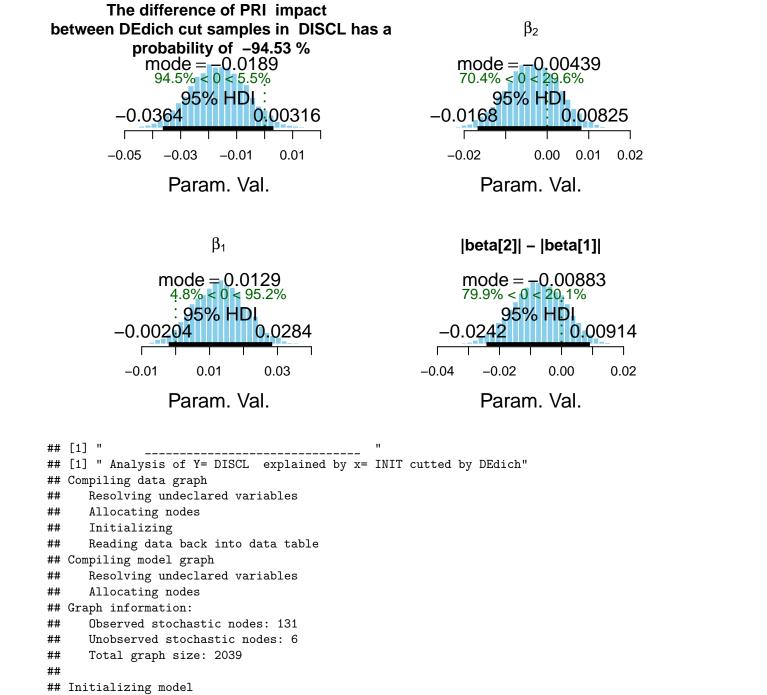
Unobserved stochastic nodes: 6

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

Total graph size: 2039

Initializing model

betaSIZE ## 4564.278



[1] "The difference of INIT impact \n between DEdich cut samples in DISCL has a \n probability of

4664.806 5135.701 5136.442 4996.685 4664.806 5135.701 5255.285 4134.069

betaGFI

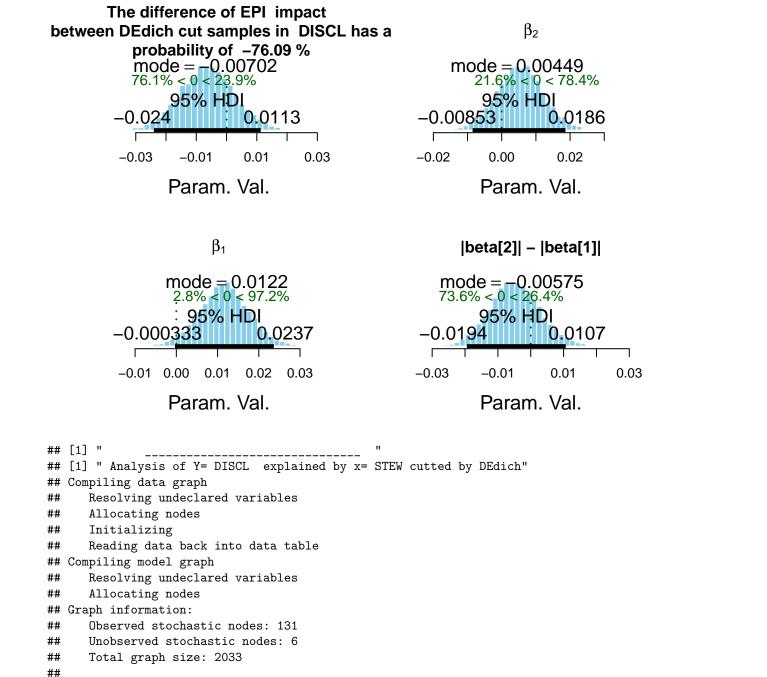
betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4240.802

The difference of INIT impact β_2 between DEdich cut samples in DISCL has a probability of 64.2 % mode = 0.111 35.8% < 0 < 64.2% 95% HDI 95% HDI -0.3670.579 -0.50.0 0.5 1.0 -0.40.0 0.2 0.4 0.6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0202 54.1% < 0.< 45.9% mode = -0.00826 53.7% < 0 < 46.3%95%:HDI 95% HDI 0.295 -0.31**7** -0.20.2 -0.20.2 0.4 0.6 -0.60.6 -0.6Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= EPI cutted by DEdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing

```
Reading data back into data table
##
##
  Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2033
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5072.349 3953.342 5373.911 5524.744 5072.349
                                                     3953.342 4718.338 4524.878
## betaSIZE
## 4008.940
## [1] "The difference of EPI impact \n between DEdich cut samples in DISCL has a\n probability of -
```



[1] "The difference of STEW impact \n between DEdich cut samples in DISCL has a\n probability of

4852.490 5619.906 4900.282 4710.899 4852.490 5619.906 5297.104 4269.093

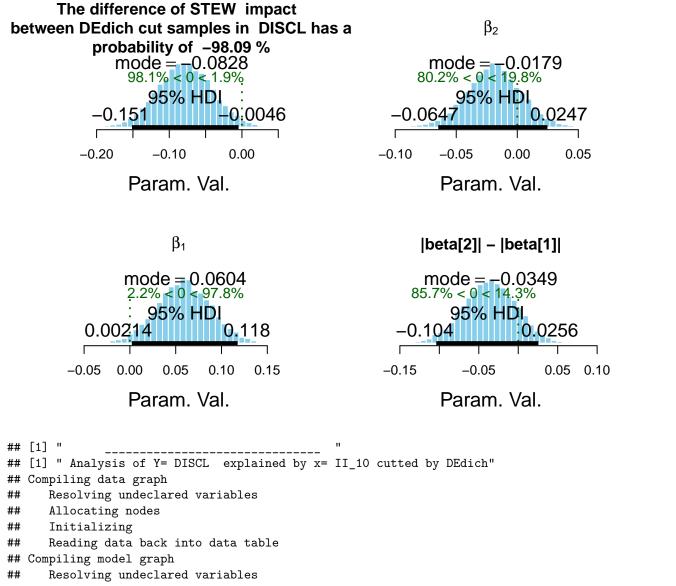
betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

Initializing model

betaSIZE ## 4046.935



```
Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 1949
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5213.124 5311.152 5776.855 5907.739 5213.124 5311.152 5798.998
                                                                         4531.389
## betaSIZE
  4168.177
##
## [1] "The difference of II_10 impact \n between DEdich cut samples in DISCL has a\n probability of
```

mode = -0.932 84.6% < 0 < 15.4% mode = -0.19863.1% < 0 < 36.9% 95% HDI 95% HDI 0.884 -4 -2 0 2 -3 -2 -1 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.643mode = -0.04411.3% < 0 < 88.7% 60% < **0** < 40% 95% :HDI 95% HDI 1.17 1.88 0 2 -2 2 -1 -1 0 1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by DEdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6

 β_2

The difference of II_10 impact

##

##

##

Total graph size: 2029

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

Initializing model

betaSIZE ## 3846.214

between DEdich cut samples in DISCL has a probability of -84.62 %

4553.819 4444.071 4120.785 4426.868 4553.819 4444.071 5186.688 4491.776

beta1[2]

[1] "The difference of FOR_10 impact \n between DEdich cut samples in DISCL has a\n probability of

betaGFI

betaGPS

The difference of FOR_10 impact β_2 between DEdich cut samples in DISCL has a probability of -95.6 % mode = -0.7895.6% < 0 < 4.4% mode = 0.044841.9% < 0 < 58.1% 95% HDI: 95% HDI 0.117 -2.5-1.5-0.50.5 -1.0-0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.840.5% < 0 < 99.5%mode = -0.642 94.1% < 0 < 5.9%95% HDI: 95% HDI 0.174.41

-0.5 0.0 0.5

Param. Val.

1.0

-1.5

DE5-Separated Bayesian models

0.0

-0.5

0.5

Param. Val.

1.0

1.5

2.0

Quantitative Y

```
X$DEdich <- factor(X$DE_5>median(X$DE_5))
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('EPS', 'ET3', 'ER3', 'ER1', 'ER')
cut.name <- 'DEdich'
BLquantiCut <- bayesList(X, x.names, y.names, cut.name, 'model1-cut.R')

## [1] " _____ "
## [1] " Analysis of Y= EPS explained by x= PRI cutted by DEdich"

## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data

## Compiling data graph
## Resolving undeclared variables
## Allocating nodes</pre>
```

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
                                                                betaGFI
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                          betaGPS
                       9050.943 8826.623 8526.643 8761.275
   8526.643 8761.275
                                                               7621.372
                                                                         7341.210
   betaSIZE
##
   7547.219
## [1] "The difference of PRI impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
 between DEdich cut samples in EPS has a
            probability of -81.43 %
              mode = -0.236
81.4% < 0 < 18.6%
                                                           mode = 0.0768
                                                              24.6% < 0 < 75.4%
                   95% HDI
                                                               95% HDI
                                                       -0.206
          -1.0
                  -0.5
                           0.0
                                                      -0.4
                                                                0.0
                                                                      0.2
                                                                           0.4
                                   0.5
                                                                                0.6
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -0.215
79.8% < 0 < 20.2%
                   95% HDI
                                                                95% HDI
           -0.0269
                             0.685
                                                         -0.572
       -0.5
                 0.0
                           0.5
                                    1.0
                                                    -1.0
                                                              -0.5
                                                                        0.0
                                                                                 0.5
                 Param. Val.
                                                             Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
##
##
  Initializing model
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
                                                                 8147.045
   7359.215 8527.941 8231.770 7865.541 7359.215
                                                      8527.941
                                                                           7059.857
##
   betaSIZE
##
   6861.876
## [1] "The difference of INIT impact \n between DEdich cut samples in EPS has a\n probability of 94
## [1] " Analysis of Y= EPS explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
 between DEdich cut samples in EPS has a
             probability of 94.2 %
                  mode = 9.29
5.8% < 0 < 94.2%
                                                               mode = 1.78
32.8% < 0 < 67.2%
                    :95% HDI
                                                                 95% HDI
                                                           -5.81
                               20.7
                                                                   10
                               20
            -10
                   0
                                                               -5
                                                                     0
                                     30
                                                      -15
                                                                         5
                                                                              10
                                                                                  15
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -4.72

81.7\% < 0 < 18.3\%

                mode_{--}7.33
              95.4% < 0 < 4.6%
                   95% HDI:
                                                                  95% HDI
                              1.56
                         -5
         -25
                 -15
                                  5
                                                         -20
                                                                 -10
                                                                                  10
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
```

##

##

##

##

Resolving undeclared variables

Reading data back into data table

Allocating nodes

Initializing

```
## Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
##
## Initializing model
##
  alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7034.801 6388.083
                       8850.546 7571.843 7034.801 6388.083
                                                               6677.855
                                                                         6808.528
##
   betaSIZE
  6909.590
## [1] "The difference of EPI impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
 between DEdich cut samples in EPS has a
                                                                   \beta_2
            probability of 90.74 %
                 mode = 0.268
9.3% < 0 < 90.7%
                                                          mode = 0.0782
                                                            27.3% < 0 < 72.7%
                    95% HDI
                                                              95% HDI
            -0.154
          -0.5
                   0.0
                           0.5
                                                      -0.4
                                                                0.0 0.2 0.4 0.6 0.8
                                    1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = -0.171
                                                          mode = -0.0312
             89.7% < 0 < 10.3%
                                                          59.5% < 0 < 40.5%
                    95% HDI
                                                              95% HDI
         -0.8
                  -0.4
                            0.0
                                                               -0.2
                                0.2 0.4
                                                      -0.6
                                                                        0.2 0.4 0.6
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
```

Reading data back into data table

Allocating nodes

Initializing

Compiling model graph

##

##

##

```
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 2047
##
##
## Initializing model
##
                       beta0[1] beta0[2] beta1[1]
##
  alpha1[1] alpha1[2]
                                                    beta1[2]
                                                               betaGFI
                                                                        betaGPS
   8042.384 8828.374
                       9886.104
                                9180.434 8042.384
                                                    8828.374
                                                              8847.193
                                                                        6828.768
   betaSIZE
##
   7251.637
##
  [1] "The difference of STEW impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of STEW impact
                                                                  \beta_2
 between DEdich cut samples in EPS has a
            probability of -96.23 %
                mode ____1.61
                                                          mode = -0.186
               96.2% < 0 < 3.8%
                                                         64.3\% < 0 < 35.7\%
                                                              95% HDI
                   95% HDI:
            -3.39
                            0.0748
                                                                        0.882
         -5 -4 -3 -2 -1
                                                      -2
                                                            -1
                                                                    0
                                                                                 2
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = 1.27
2.3% < 0 < 97.7%
                                                        95% HDI
                                                              95% HDI
        0.00128
                                                                       0.576
                           2.69
                         2
                                                        -3
                                                             -2
                                                                                 2
         -1
              0
                                   4
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
  Compiling model graph
##
```

##

Resolving undeclared variables

```
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                            beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
   8099.323 8795.201 9207.072 7926.559
                                            8099.323 8795.201
                                                                 8342.809
                                                                            7018.282
   betaSIZE
   6816.302
##
## [1] "The difference of II_10 impact \n between DEdich cut samples in EPS has a\n probability of 8
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                      \beta_2
 between DEdich cut samples in EPS has a
             probability of 88.34 %
                mode = 27.4
11.7% < 0 < 88.3%
                                                                mode = 24.5
11.2% < 0 < 88.8%
                  95% HDI
                                                                 95% HDI
             15.9
                             69.2
                                                                             55.6
        -50
                  0
                          50
                                   100
                                                        -40
                                                                 0
                                                                     20
                                                                          40
                                                                              60
                                                                                  80
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                              mode = 10.1
24.7% < 0 < 75.3%
               mode = -3.69
64.5% < 0 < 35.5%
                    95% HDI
                                                                 95% HDI
                                                           -19.6
                                20.6
             -40
                   -20
                          0
                                20
                                      40
                                                         -40
                                                                   0
                                                                       20
                                                                           40
                                                                                60
                                                                                    80
                  Param. Val.
                                                                Param. Val.
##
  Compiling data graph
```

Resolving undeclared variables
Allocating nodes
Initializing
Reading data back into data table
Compiling model graph
Resolving undeclared variables
Allocating nodes

```
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   7619.773 7545.812 9000.000
                                 9000.000 7619.773 7545.812 7461.574
                                                                         6938.315
##
   betaSIZE
   6644.979
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
 between DEdich cut samples in EPS has a
            probability of -89.63 %
             mode = -11.8
89.6% < 0 < 10.4%
                                                             mode = 0.308
                                                           51.7% < 0 < 48.3%
                    95% HDI
                                                               95%:HDI
              -40
                     -20
                            0
                                   20
                                                        -20 -10
                                                                    0
                                                                         10
                                                                              20
       -60
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 12.5
                                                             mode = -6.34
                4.6% < 0 < 95.4%
                                                          81.1% < 0 < 18.9%
                                                                95% HDI
                  95% HDI
                                                                          7.68
           -2.08
                             26.1
                                                           -22.6
           -10
                0
                     10
                          20
                               30
                                    40
                                                     -40
                                                              -20
                                                                        0
                                                                            10
                                                                                20
```

Param. Val.

Compiling data graph ## Resolving undeclared variables ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information:

Param. Val.

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
  8798.613 8461.417 9178.910 9000.000 8798.613 8461.417 8688.507 6627.396
##
   betaSIZE
  6978.993
## [1] "The difference of PRI impact \n between DEdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                      \beta_2
 between DEdich cut samples in ET3 has a
             probability of 96.37 %
                 mode = 0.794
3.6% < 0 < 96.4%
                                                            mode = -0.137
70.8\% < 0 < 29.2\%
                                                                 95% HDI
                   95% HDI
          -0.0673
                                                         -0.701
                                                                            0.366
           -0.5
                     0.5 1.0 1.5 2.0 2.5
                                                         -1.0
                                                                -0.5
                                                                        0.0
                                                                               0.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                mode = -0.933
99.7% < 0 < 0.3%

mode = -0.67

95.8\% < 0 < 4.2\%

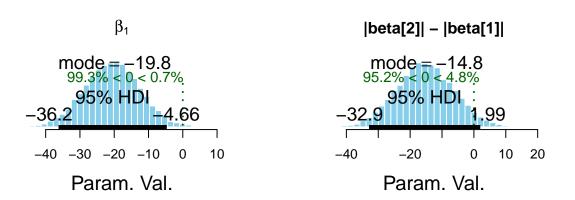
                                                                 95% HDI:
                    95% HDI
                                                            1.37
                              -0.316
             -1.56
                                                                            0:0766
          -2.0 -1.5 -1.0 -0.5
                                   0.0
                                                       -2.0
                                                                 -1.0
                                                                            0.0
                                                                                0.5
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
```

Graph information:

Observed stochastic nodes: 131

```
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7128.389 8635.705 8186.025 7896.770 7128.389
                                                     8635.705
                                                               8367.429
                                                                         6841.630
   betaSIZE
##
   6345.267
## [1] "The difference of INIT impact \n between DEdich cut samples in ET3 has a\n probability of 96
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                   \beta_2
 between DEdich cut samples in ET3 has a
            probability of 96.32 %
                 mode = 19.2
3.7% < 0 < 96.3%
                                                             mode = -1.67
                                                           61.6% < 0 < 38.4%
                    95% HDI
                                                               95% HDI
                              39.6
                                                                           10.5
              1.19
         -20
                 0
                        20
                               40
                                                              -10
                                                                     0
                                                                           10
                                                        -20
                                                                                 20
```

Param. Val.



```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
   Graph information:
##
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
```

Param. Val.

```
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                      betaGFI
                                                                                 betaGPS
   6671.455 6743.787 8303.204 7438.370 6671.455 6743.787 6749.998 7287.821
   betaSIZE
## 6555.754
## [1] "The difference of EPI impact \n between DEdich cut samples in ET3 has a\n probability of 84."
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of EPI impact
                                                                          \beta_2
  between DEdich cut samples in ET3 has a
             probability of 84.97 %
                  \begin{array}{c} mode = 0.388 \\ 15\% < 0 < 85\% \end{array}

mode = 0.047

44.9\% < 0 < 55.1\%

                     95% HDI
                                                                     95% HDI
                                                             -0.562
          -1.0
                     0.0
                          0.5
                                1.0
                                      1.5
                                                           -1.0
                                                                  -0.5
                                                                         0.0
                                                                                0.5
                                                                                       1.0
                  Param. Val.
                                                                   Param. Val.
                         \beta_1
                                                                |beta[2]| - |beta[1]|

    \text{mode} = -0.348 \\
    91.9\% < 0 < 8.1\%

                                                                 mode = -0.0541
68% < 0 < 32%
                     95% HDI
                                                                    95% HDI
             -0.843
                                                            -0.718
                                0.137
                                                                                0.423
                       -0.5
               -1.0
                                0.0
                                       0.5
                                                            -1.0 -0.5
                                                                           0.0
                                                                                 0.5
                                                                                        1.0
                  Param. Val.
                                                                   Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
```

Resolving undeclared variables
Allocating nodes
Initializing
Reading data back into data table
Compiling model graph
Resolving undeclared variables
Allocating nodes
Graph information:
Observed stochastic nodes: 131
Unobserved stochastic nodes: 7
Total graph size: 2047

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                           beta1[1]
                                                       beta1[2]
                                                                  betaGFI
                                                                             betaGPS
   7372.892 8569.069
                        9000.000 8809.369 7372.892
                                                       8569.069
                                                                 8665.171
                                                                            6964.258
   betaSIZE
##
   6665.217
## [1] "The difference of STEW impact \n between DEdich cut samples in ET3 has a\n probability of 95
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
 between DEdich cut samples in ET3 has a
                                                                      \beta_2
             probability of 95.82 %
                 mode = 2.96
4.2% < 0 < 95.8%

mode = -0.199

53.8\% < 0 < 46.2\%

                   95% HDI
                                                                  95%:HDI
                                                           -1.95
           -0.385
                              5.83
            -2
                 0
                      2
                           4
                               6
                                    8
                                                       -4
                                                               -2
                                                                       0
                                                                              2
                                                                                      4
                  Param. Val.
                                                               Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                mode = -2.74
98.7% < 0 < 1.3%
                                                                mode = -1.96
                                                              93.4% < 0 < 6.6%
                    95% HDI
                                                                   95% HDI:
                                                              4.66
                           -2
                                      2
                                                      -8
                                                                       -2
                                                                                   2
           -8
                                                            -6
                  Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
```

##

##

Total graph size: 1963

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   9486.524 8322.366 8894.001 8090.293 9486.524
                                                      8322.366
                                                                8682.948
                                                                          7458.156
##
   betaSIZE
## 6343.837
## [1] "The difference of II_10 impact \n between DEdich cut samples in ET3 has a\n probability of -
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                     \beta_2
 between DEdich cut samples in ET3 has a
            probability of -53.43 %
                mode = 0.218
53.4% < 0 < 46.6%

mode = 7.38

42.2\% < 0 < 57.8\%

                    95%: HDI
                                                                95% HDI
                              50
                                                             -50
                                                                    0
                                                                          50
         -150
                   -50
                         0
                                 100
                                                       -100
                                                                               100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                  mode = 12.4
                                                            mode = 1.46
                 34.1% < 0 < 65.9%
                                                            42.6% < 0 < 57.4%
                                                               95% HDI
                    95% HDI
              -50
                              50
                                     100
                                                           -50
                                                                          50
                                                                                 100
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
```

##

##

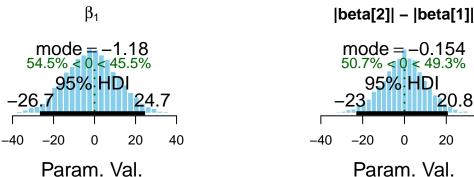
##

Unobserved stochastic nodes: 7

Total graph size: 2043

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   7185.583 7703.839 9000.000
                                9000.000 7185.583 7703.839 7077.221
                                                                        6823.085
  betaSIZE
##
   7078.224
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                  \beta_2
 between DEdich cut samples in ET3 has a
            probability of -51.68 %
               mode = -3.05
51.7% < 0 < 48.3\%
                                                          mode = -3.83
                                                         56.6% < 0 < 43.4%
                   95% HDI
                                                             95% HDI
              -50
                        0
                                 50
                                                      -40
                                                            -20
                                                                  0
                                                                       20
                                                                             40
                 Param. Val.
                                                            Param. Val.
```



20.8

40

20

```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                               betaGFI
  9000.000 8774.016 8489.009 8373.509 9000.000 8774.016 8609.492 6869.160
  betaSIZE
  6915.277
##
## [1] "The difference of PRI impact \n between DEdich cut samples in ER3 has a\n probability of 92."
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
 between DEdich cut samples in ER3 has a
            probability of 92.74 %
               mode = 0.673
7.3% < 0 < 92.7%
                                                            mode = -0.252
                                                          75.6% < 0 < 24.4%
                  95% HDI
                                                                95% HDI
                                                                          0.371
        -1.0
                 0.0
                         1.0
                                 2.0
                                                    -1.5 -1.0 -0.5
                                                                      0.0
                                                                            0.5
                                                                                  1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -0.9
99.3% < 0 < 0.7%
                                                           mode = -0.613
                                                          91.9% < 0 < 8.1%
                   95% HDI
                                                               95% HDI:
          -2.0
                    -1.0
                                                                   -0.5 0.0
                               0.0
                                     0.5
                                                        -1.5
                                                                            0.5
                                                                                  1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta6FI

```
7688.220 8654.765 7751.379 7769.365 7688.220 8654.765 8069.602 7321.878
##
  betaSTZE
  6553.847
## [1] "The difference of INIT impact \n between DEdich cut samples in ER3 has a\n probability of 95
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
 between DEdich cut samples in ER3 has a
                                                                   \beta_2
            probability of 95.51 %
                mode = 18
4.5% < 0 < 95.5%
                                                            mode = -1.41
                                                          61.6% < 0 < 38.4%
                                                              95% HDI
                  95% HDI
             3.02
        -20
                0
                        20
                                                                    0
                               40
                                                    -30 -20 -10
                                                                         10
                                                                              20
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = -20.3
                                                             mode = -15.9
                 99.3% < 0 < 0.7%
                                                               94% < 0 < 6%
                    95% HDI
                                                                 95% HDI:
           -50
                   -30
                           -10 0
                                    10
                                                      -50
                                                              -30
                                                                      -10 0
                                                                              10
                 Param. Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
##
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
```

7540.432 6171.245 8402.497 7440.746 7540.432 6171.245 6665.094 7147.468

```
## betaSIZE
## 6298.206
## [1] "The difference of EPI impact \n between DEdich cut samples in ER3 has a\n probability of 74."
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                   \beta_2
 between DEdich cut samples in ER3 has a
            probability of 74.78 %
              mode = 0.261
25.2% < 0 < 74.8%
                                                            mode = 0.0199
                                                            48.3% < 0 < 51.7%
                                                               95% HDI
                 95% HDI
            −0.49
                        1.07
                                                        -0.597
                                                                          0.623
           -1.0
                   0.0
                           1.0
                                   2.0
                                                       -1.0 -0.5
                                                                   0.0
                                                                         0.5
                                                                               1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
             mode = -0.249
84.2% < 0 < 15.8%
                                                           mode = -0.0234
                                                           57.1% < 0 < 42.9%
                                                               95% HDI
                   95% HDI
                                                        -0.622
                                                                         0.496
            -0.762
                                                             -0.5
            -1.0
                   -0.5
                           0.0
                                                       -1.0
                                                                          0.5
                                 0.5
                                                                    0.0
                                                                                1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
  Compiling model graph
##
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  8096.347 8726.938 8483.592 8277.511 8096.347 8726.938 7860.771
                                                                        6878.160
```

betaSIZE

```
## 6881.950
## [1] "The difference of STEW impact \n between DEdich cut samples in ER3 has a\n probability of 94
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
 between DEdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 94.87 %
                  mode = 2.72
5.1% < 0 < 94.9%
                                                             mode = -0.125
                                                             52.5% < 0 < 47.5%
                    95% HDI
                                                                 95%: HDI
             -0.3<del>88</del> 5.87
                                                           1.99
              -2
                        2
                                                      -4
                                                             -2
                                                                             2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -2.46
98.3% < 0 < 1.7%
                                                            mode = -1.77
91.9% < 0 < 8.1%
                                                                 95% HDI
                  95% HDI
                            -0:279
                                                                           0.807
             -6
                         -2
                               0
                                     2
                                                                     -2
                                                                           0
                                                                                2
                                                          -6
                 Param. Val.
                                                              Param, Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
##
  Initializing model
                                                                 betaGFI
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
  8194.686 7666.560 9553.968 8693.461 8194.686 7666.560 7951.917 7503.619
   betaSIZE
##
```

6338.092

```
## [1] "The difference of II_10 impact \n between DEdich cut samples in ER3 has a\n probability of 5
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                        \beta_2
 between DEdich cut samples in ER3 has a
             probability of 59.21 %
                mode = 13.8
40.8% < 0 < 59.2%

    \begin{array}{l}
      \text{mode} = 22.5 \\
      26.3\% < 0 < 73.7\%
    \end{array}

                   95% HDI
                                                                   95% HDI
                                                                               84.8
        -150
                  -50
                      0
                            50 100
                                                              -50
                                                                      0
                                                                           50
                                                                                 100
                                                        -100
                                                                                       150
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|
                  mode = 8.14
32.5% < 0 < 67.5%
                                                             mode = 1.95
                                                               38% < 0 < 62%
                     95% HDI
                                                                 95% HDI
                                                                            66.5
               -50
                        0
                               50
                                       100
                                                             -50
                                                                     0
                                                                          50
                                                                                 100
                                                                                       150
                  Param. Val.
                                                                  Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
##
  Initializing model
##
                         beta0[1]
                                    beta0[2]
                                              beta1[1]
                                                         beta1[2]
## alpha1[1] alpha1[2]
                                                                     betaGFI
  8498.800 7578.125 9000.000 8826.777
                                              8498.800
                                                         7578.125 7541.987
                                                                              6795.656
##
    betaSIZE
## 6689.094
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER3 has a\n probability of
```

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
 between DEdich cut samples in ER3 has a
                                                                    \beta_2
             probability of 54.7 %
                mode = -0.135
45.3% < 0 < 54.7%
                                                             mode = 3.39
                                                            41.4% < 0 < 58.6%
                                                               95% HDI
                    95% HDI
             -50
                        0
                                 50
                                                        -40 -20
                                                                       20
                                                                            40
                                                                                 60
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 2.18
48.5\% < 0 < 51.5\%
                                                            mode = 0.0266
                                                            50.8% < 0 < 49.2%
                   95% HDI
                                                                95%: HDI
                                                            -23.8
         -60 -40 -20
                        0
                             20
                                  40
                                      60
                                                     -60
                                                               -20
                                                                     0
                                                                         20
                                                                              40
                                                                                   60
                                                              Param. Val.
                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
   9067.083 9000.000 8609.518 8551.628 9067.083 9000.000 8344.274
                                                                         7104.700
## betaSIZE
   7356.859
```

[1] "

[1] "The difference of PRI impact \n between DEdich cut samples in ER1 has a\n probability of -62

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
 between DEdich cut samples in ER1 has a
            probability of -62.91 %
              mode = -0.103
62.9% < 0 < 37.1%
                                                            mode = -0.53
                                                          92.1% < 0 < 7.9%
                   95% HDI
                                                               95% HDI:
                            0.889
           -2
                         0
                  _1
                                      2
                                                        -1.5
                                                                  -0.5
                                                                        0.0
                                                                             0.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                             mode = -0.25
77.7% < 0 < 22.3%
                                                                95% HDI
                    95% HDI
                                                                          0.943
                          0.452
                                                         -0.748
          -2.0
                  -1.0
                           0.0
                                   1.0
                                                       -1.5
                                                               -0.5
                                                                        0.5
                                                                                1.5
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
##
  Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
     Total graph size: 2053
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
            8223.961 8273.046 8034.127 7139.986 8223.961 8735.776
##
  7139.986
                                                                         6789.786
##
  betaSIZE
   6672,408
## [1] "The difference of INIT impact \n between DEdich cut samples in ER1 has a\n probability of 70
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= EPI cutted by DEdich"

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                       \beta_2
 between DEdich cut samples in ER1 has a
             probability of 70.59 %
                  mode = 6.94
29.4% < 0 < 70.6%
                                                             mode = -8.21
81.2% < 0 < 18.8%
                    95% HDI
                                                                   95% HDI
              -18.5
                -20
          -40
                       0
                             20
                                   40
                                                           -30 -20 -10
                                                                            0
                                                                                10
                                                                                      20
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

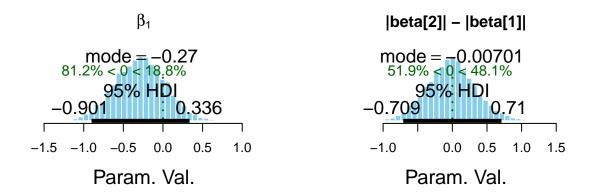
mode = -4.87

70.4\% < 0 < 29.6\%

                mode = -15.8
              92.7\% < 0 < 7.3\%
                                                                  95% HDI
                   95% HDI
             -40
                     -20
                                    20
                                                          -40
                                                                  -20
                                                                                 20
                  Param. Val.
                                                                Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
```

```
Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7928.641 6559.991
                       8051.495 7342.515 7928.641
                                                     6559.991 7190.447
                                                                         7068.218
  betaSIZE
   6639.691
## [1] "The difference of EPI impact \n between DEdich cut samples in ER1 has a\n probability of 84.
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of EPI impact between DEdich cut samples in ER1 has a β_2 probability of 84.37 % mode = 0.484 15.6% < 0 < 84.4% mode = 0.19130% < 0 < 70% 95% HDI 95% HDI 0.903 0.5 -1.00.0 1.0 2.0 -1.00.0 1.0 Param. Val. Param. Val.

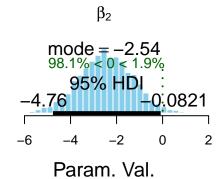


1.5

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8174.490 8836.019 9000.000 8833.211 8174.490 8836.019 8414.898
                                                                          7048.970
## betaSIZE
   6416.758
  [1] "The difference of STEW impact \n between DEdich cut samples in ER1 has a\n probability of -7
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact between DEdich cut samples in ER1 has a probability of -72.3 %

Param. Val.



Param. Val.

-6

mode = 1.03 29.4% < 0 < 70.6% 95% HDI -2.45 3.88

2

4

6

|beta[2]| - |beta[1]|

Param. Val.

0

-2

-6

-4

```
## Compiling data graph
     Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8102.913 8396.043 8282.356 7589.239 8102.913 8396.043
                                                                8249.904
                                                                          6341.905
## betaSIZE
## 6732.834
## [1] "The difference of II_10 impact \n between DEdich cut samples in ER1 has a\n probability of 9
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of II_10 impact β_2 between DEdich cut samples in ER1 has a probability of 92.87 % mode = 64.4 7.1% < 0 < 92.9% mode = 66.54% < 0 < 96% 95% HDI 95% HDI -1000 100 200 -500 50 100 200 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|

mode = 41.8 13.2% < 0 < 86.8%mode = -4.655.5% < 0 < 44.5% 95%:HDI 95% HDI 33.8 -50 0 -100 50 100 -1000 50 100 200 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7266.427 7945.811 8830.799 8784.140 7266.427 7945.811 7214.168
                                                                          7030.141
## betaSIZE
  6511.484
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact between DEdich cut samples in ER1 has a probability of -93.82 %

mode = -33.9 93.8% < 0 < 6.2% 95% HDI: -78.7 -100 -50 0 50 eta_2 mode = -14.9
83.4% < 0 < 16.6%
95% HDI
-47.7 : 13.2
-60 -20 0 20 40

Param. Val.

Param. Val.

 β_1 mode = 21.7

10.9% < 0 < 89.1%

95% HDI

-12.6:

50.9

-40

0 20 40 60 80

Param. Val.

500): Unused variable "n" in data

|beta[2]| - |beta[1]| mode = -1.81 58.1% < 0 < 41.9% 95% HDI -40.9 30.9 -60 -20 0 20 40 60 Param. Val.

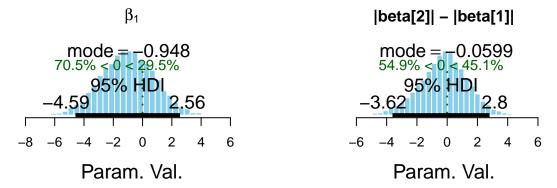
```
## Compiling data graph
     Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 8727.489 9720.558 9193.793 9000.000 8727.489 9720.558 8433.894
                                                                         7124.215
## betaSIZE
## 7241.813
## [1] "The difference of PRI impact \n between DEdich cut samples in ER has a\n probability of -57.
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

β_2 between DEdich cut samples in ER has a probability of -57.6 % mode = -0.0205 57.6% < 0 < 42.4% mode = -0.024160.4% < 0 < 39.6% 95% HDI 95% HDI -0.2080.165 0.11-0.4-0.20.0 0.2 -0.2 -0.10.0 0.1 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = -0.000974 \\ 49\% < 0 < 51\% \end{array}$ mode = 0.003954.5% < **0** < 45.5% 95% HDI 95%:HDI -0.1**41** 0.111 -0.20.0 0.1 0.2 -0.2 -0.10.0 0.1 0.3 0.2 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing

The difference of PRI impact

```
Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
## 7498.002 8226.675 8930.188 8267.561 7498.002 8226.675 8171.121 7041.819
## betaSIZE
## 6263.487
## [1] "The difference of INIT impact \n between DEdich cut samples in ER has a\n probability of 50."
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between DEdich cut samples in ER has a probability of 50.22 % mode = 0.198 49.8% < 0 < 50.2% mode = -1.35 75% < 0 < 25%95% HDI 95% HDI -5 0 5 -6 -4 -2 0 2 4 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  7166.057 6660.100 9000.000 7983.221 7166.057 6660.100 7146.303 7012.106
## betaSIZE
## 6599.669
## [1] "The difference of EPI impact \n between DEdich cut samples in ER has a\n probability of -96.
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by DEdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 between DEdich cut samples in ER has a probability of -96.41 % mode = -0.146 96.4% < 0 < 3.6% 95% HDI: 95% HDI 0.0187 -0:017 -0.4-0.20.0 0.1 -0.3 -0.2 -0.10.0 0.1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.122 7.6% < 0 < 92.4%mode = 0.016 47.7% < 0 < 52.3% 95% HDI 95% HDI -0.1080.11 -0.0420.242-0.2-0.10.0 0.1 0.2 -0.10.0 0.1 0.2 0.3 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2047 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 7733.873 8923.268 8531.600 8173.113 7733.873 8923.268 8653.205 6993.049 ## betaSIZE ## 6403.326 ## [1] "The difference of STEW impact \n between DEdich cut samples in ER has a\n probability of -75 ## [1] " ## [1] " Analysis of Y= ER explained by x= II_10 cutted by DEdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

β_2 between DEdich cut samples in ER has a probability of -75.79 % mode = -0.0704 66.2% < 0 < 33.8%mode = -0.208 75.8% < 0 < 24.2% 95% HDI 95% HDI 0.427 0.531-0.96**6** 0.303 -2.0-1.00.0 1.0 -1.0-0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = -0.00109 \\ 60.1\% < 0 < 39.9\% \end{array}$ 95% HDI 95% HDI -0.394 -0.556 0.394 -1.0 -0.50.0 0.5 -1.0-0.50.0 0.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## Compiling model graph ## ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 7925.196 8695.714 9740.631 8371.192 7925.196 8695.714 7982.547 6947.302 ## betaSIZE ## 6529.631 ## [1] "The difference of II_10 impact \n between DEdich cut samples in ER has a\n probability of

The difference of STEW impact

[1] "

500): Unused variable "n" in data

[1] " Analysis of Y= ER explained by x= FOR_10 cutted by DEdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of II_10 impact between DEdich cut samples in ER has a β_2 probability of -83.57 % mode = -7.77 83.6% < 0 < 16.4% mode = 3.6136.5% < 0 < 63.5% 95% HDI 95% HDI 15.8 -40-200 10 20 -20 -10 0 10 20 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 9.811.6% < 0 < 98.4%mode = -6.34 78.3% < 0 < 21.7%95% HDI 95% HDI 0.865 20.8 0 10 20 -30 -20 -10 0 10 -1030 20 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
                        beta0[1] beta0[2] beta1[1] beta1[2]
                                                                            betaGPS
## alpha1[1] alpha1[2]
                                                                 betaGFI
   7384.010 7554.259
                        8596.650
                                 8676.169
                                           7384.010
                                                      7554.259
                                                                7547.147
                                                                          7256.819
##
  betaSIZE
  6945.660
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in ER has a\n probability of
```

The difference of FOR_10 impact β_2 between DEdich cut samples in ER has a probability of -89.59 % mode = -5.7589.6% < 0 < 10.4% mode = -0.52356.1% < 0 < 43.9% 95%:HDI 95% HDI 4.94 -20-10 -5 5 10 -10-5 0 5 10 Param. Val. Param. Val.



Binomial Y

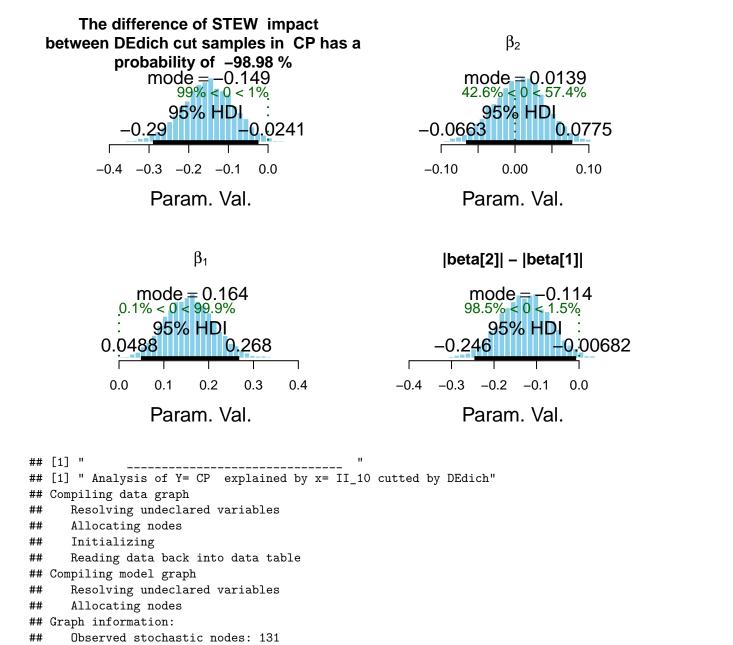
```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')</pre>
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by DEdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
     Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  5713.719 5359.921 5642.456 5729.496 5713.719 5359.921 5700.464 4270.843
  betaSIZE
## 4820.099
## [1] "The difference of PRI impact \n between DEdich cut samples in CP has a\n probability of
        The difference of PRI impact
                                                                  \beta_2
  between DEdich cut samples in CP has a
            probability of -94.79 %
              mode = -0.0242
94.8% < 0 < 5.2%
                                                           mode = 0.0054
36.5% < 0 < 63.5%
                  95% HDI:
                                                              95% HDI
          -0.0599
                                                                        0.0244
                           0:00482
                                                      -0.0174
          -0.08
                  -0.04
                           0.00
                                    0.04
                                                  -0.04 -0.02
                                                                0.00
                                                                       0.02
                                                                              0.04
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
              mode = 0.0236
                                                        93.4% < 0 < 6.6%
                   95% HDI
                                                             95% HDI:
          0.00504
                             0.0555
                                                                      0.00622
             0.00 0.02 0.04
                               0.06
                                                      -0.06
                                                                -0.02
                                                                           0.02
                Param. Val.
                                                            Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by DEdich"
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2039
##
## Initializing model
```

```
##
                                                                           betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
  5122.974 5315.612 4999.184 4694.119 5122.974 5315.612 5024.422 4554.543
## betaSIZE
## 4309.087
## [1] "The difference of INIT impact \n between DEdich cut samples in CP has a\n probability of -51
        The difference of INIT impact
  between DEdich cut samples in CP has a
                                                                     \beta_2
            probability of -51.09 %
              mode = 0.000471
                                                            mode = 0.114
               51.1% < 0 < 48.9%
                                                             30.8% < 0 < 69.2%
                   95%: HDI
                                                               95% HDI
           -0.788 0.759
                                                        0.381
         -1.5
                  -0.5
                            0.5 1.0 1.5
                                                        -0.5
                                                                 0.0
                                                                         0.5
                                                                                 1.0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                            |beta[2]| - |beta[1]|
               \begin{array}{c} mode = 0.0874 \\ 33.1\% < 0 < 66.9\% \end{array}
                                                             mode = -0.00635
56.3% < 0 < 43.7%
                                                                 95% HDI
                   95% HDI
                                                            -0.61
                                                                           0.461
         -1.0 -0.5
                      0.0
                                                              -0.5
                                                                            0.5
                           0.5
                                  1.0
                                                        -1.0
                                                                      0.0
                                                                                   1.0
                 Param. Val.
                                                              Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by DEdich"
  Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
     Total graph size: 2033
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 4770.884 3754.775 4894.663 4591.999 4770.884 3754.775 4805.248 4720.133
```

```
## [1] "The difference of EPI impact \n between DEdich cut samples in CP has a\n probability of -75.
        The difference of EPI impact
                                                                     \beta_2
  between DEdich cut samples in CP has a
            probability of -75.64 %
              mode = -0.0133
75.6% < 0 < 24.4%
                                                            mode = 0.00319
                                                              40.5% < 0 < 59.5%
                                                                95% HDI
                    95% HDI
            -0.0397
                          0.0187
                                                       -0.0201
                                                                          0.0234
                     -0.02
                                                    -0.04 -0.02
                                                                   0.00
           -0.06
                               0.02
                                                                          0.02
                                                                                 0.04
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                            |beta[2]| - |beta[1]|
               \begin{array}{c} mode = 0.0121 \\ 10.8\% < 0 < 89.2\% \end{array}
                                                            mode = -0.00134
65.8% < 0 < 34.2%
                   95% HDI
                                                                 95% HDI
                          0.0333
                                                         -0.0272
          -0.00786
                                                                           0.0176
           -0.02 0.00
                         0.02
                                0.04
                                                        -0.04 -0.02 0.00
                                                                             0.02
                 Param. Val.
                                                              Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by DEdich"
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
      Initializing
##
      Reading data back into data table
## Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 6
     Total graph size: 2033
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 5509.232 5101.684 5278.687 4998.113 5509.232 5101.684 5145.619 4317.086
## betaSIZE
## 4362.784
## [1] "The difference of STEW impact \n between DEdich cut samples in CP has a\n probability of -98
```

betaSIZE ## 3808.278



betaGFI

betaGPS

4685.212

##

##

##

Unobserved stochastic nodes: 6

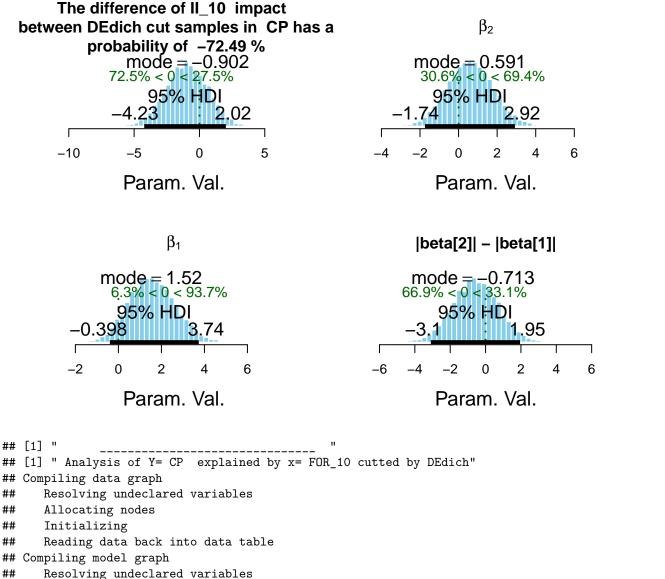
alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

4800.309 4996.739 5488.766 5144.251 4800.309 4996.739 5213.467

Total graph size: 1949

Initializing model

betaSIZE ## 4173.416



```
##
##
##
##
##
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2029
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
  4344.468 4594.844 4311.855 4638.173 4344.468
                                                     4594.844 4919.992 4221.407
## betaSIZE
  4477.561
## [1] "The difference of FOR_10 impact \n between DEdich cut samples in CP has a\n probability of -
```

The difference of FOR_10 impact β_2 between DEdich cut samples in CP has a probability of -80.82 % mode = -0.62280.8% < 0 < 19.2%mode = -0.20964% < 0 < 36% 95% HDI 95% HDI 0.741 -1.060.728 -3 -2 -1 0 1 2 -1.5-0.50.5 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.042161.2% < 0 < 38.8% mode = 0.33119.2% < 0 < 80.8% 95% HDI 95% HDI -1.14 0.791 0 2 -2 -1 0 1 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by DEdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table

```
## Unobserved stochastic nodes: 6
## Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
## 5249.997 5219.367 5159.839 5200.245 5249.997 5219.367 4650.444 4402.209
## betaSIZE
## 4501.678
## [1] "The difference of PRI impact \n between DEdich cut samples in DISCL has a\n probability of -
```

##

##

##

##

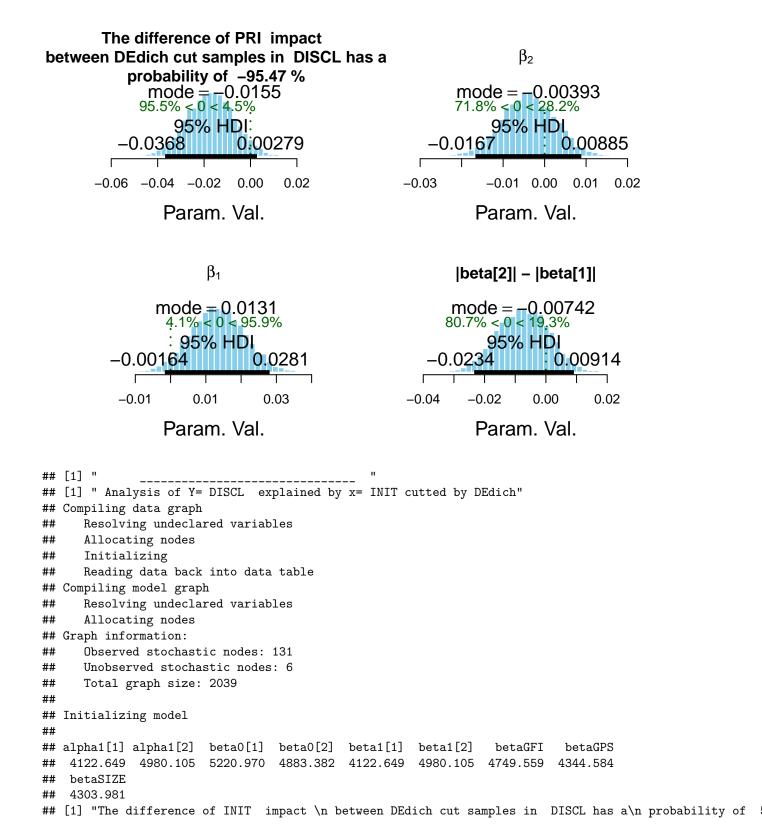
Compiling model graph

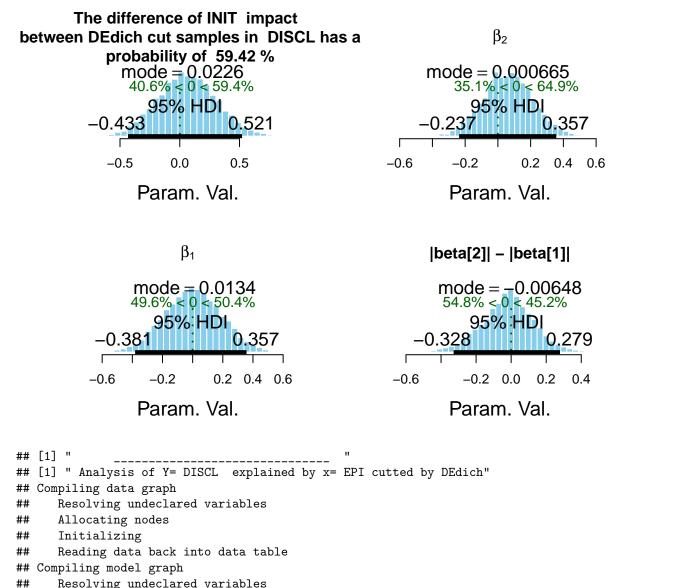
Allocating nodes

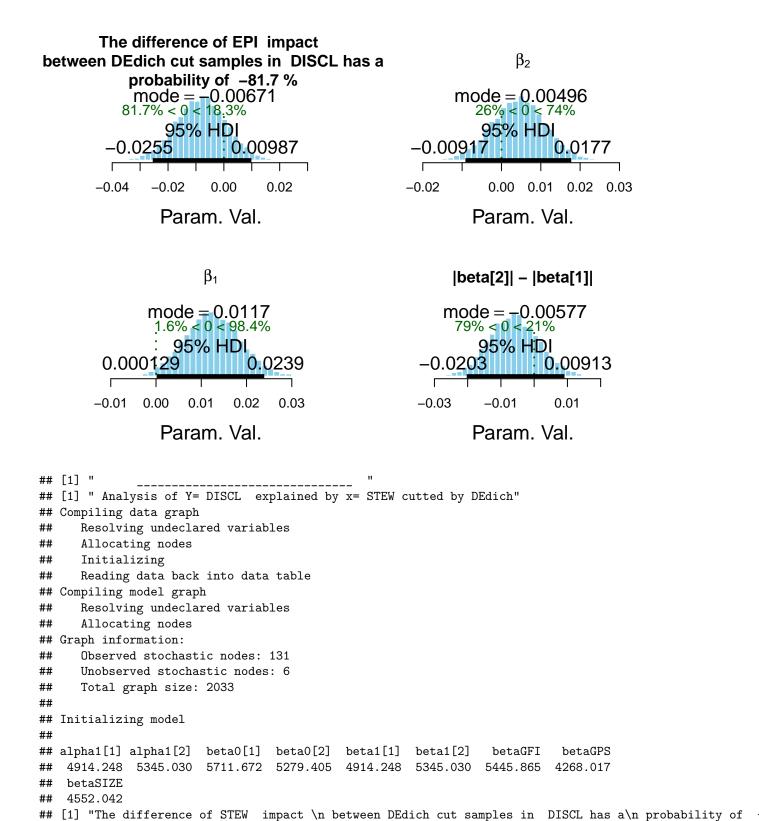
Graph information:

Resolving undeclared variables

Observed stochastic nodes: 131







The difference of STEW impact β_2 between DEdich cut samples in DISCL has a probability of -98.63 % $\text{mode} = -0.0768 \\ 98.6\% < 0 < 1.4\%$ mode = -0.0227 80.2% < 0 < 19.8%95% HDI 95% HDI **-0**:0067 -0.06570.0252 0.00 -0.20-0.100.00 -0.10-0.050.05 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = -0.0305 \\ 86.2\% < 0 < 13.8\% \end{array}$ mode = 0.05811.6% < 0 < 98.4% 95% HDI 95% HDI 0.0053 -0.0994 0.0298 -0.05 0.00 0.05 -0.050.05 0.10 0.10 0.15 -0.15Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= II_10 cutted by DEdich" Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes Graph information:

[1] "The difference of II_10 impact \n between DEdich cut samples in DISCL has a\n probability of

betaGFI

betaGPS

4732.707

Observed stochastic nodes: 131

Unobserved stochastic nodes: 6

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

5006.129 6017.355 5969.497 5877.770 5006.129 6017.355 5259.187

Total graph size: 1949

Initializing model

betaSIZE ## 4331.023

##

##

##

mode = -0.618 79.6% < 0 < 20.4% mode = -0.006 56.5% < 0 < 43.5%95%:HDI 95% HDI -4 -2 0 2 -2 -1 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.534 \\ 13\% < 0 < 87\% \end{array}$ mode = -0.17558.4% < 0 < 41.6% 95% HDI 95% HDI 0 2 3 -2 0 2 -1 -3 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by DEdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6 ## Total graph size: 2029

 β_2

betaGFI

betaGPS

The difference of II_10 impact

##

Initializing model

betaSIZE ## 4348.166

between DEdich cut samples in DISCL has a probability of -79.56 %

[1] "The difference of FOR_10 impact \n between DEdich cut samples in DISCL has a\n probability of

5282.312 4864.581 4720.118 5299.728 5282.312 4864.581 5105.510 4546.771

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

The difference of FOR_10 impact β_2 between DEdich cut samples in DISCL has a probability of -97 % mode = -0.77797% < 0 < 3% $\begin{array}{l} mode = 0.00281 \\ 47.8\% < 0 < 52.2\% \end{array}$ 95% HDI 95% HDI **-0:**00215 0.551 -2.0-1.00.0 0.5 -1.0 -0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.786 0.4% < 0 < 99.6% mode = -0.609 94.9% < 0 < 5.1%95% HDI: 95% HDI 1.39 -1.23 0.118 1.0 1.5 -1.5-0.5 0.0 0.5 0.0 0.5 2.0

Param. Val.

DC-Separated Bayesian models

Param. Val.

Quantitative Y

```
X$DCdich <- factor(X$DC>median(X$DC))
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('EPS', 'ET3', 'ER3', 'ER1', 'ER')
cut.name <- 'DCdich'
BLquantiCut <- bayesList(X, x.names, y.names, cut.name, 'model1-cut.R')

## [1] " _____ "
## [1] " Analysis of Y= EPS explained by x= PRI cutted by DCdich"

## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data

## Compiling data graph
## Resolving undeclared variables
## Allocating nodes</pre>
```

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   8806.693 8757.208 9000.000 8805.182 8806.693 8757.208
                                                                 8505.732
                                                                           7044.755
   betaSIZE
##
   7005.671
## [1] "The difference of PRI impact \n between DCdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= INIT cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
 between DCdich cut samples in EPS has a
            probability of -86.06 %
             mode = -0.286
86.1% < 0 < 13.9%
                                                            mode = 0.0728
                                                               29\% < 0 < 71\%
                  95% HD1
                                                                95% HDI
                                                         -0.223
                                                                           0.392
          -0.765
                             0.189
         -1.0
                  -0.5
                           0.0
                                                        -0.4
                                                                  0.0 0.2 0.4 0.6
                                    0.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = 0.322

2.6\% < 0 < 97.4\%

                                                           mode = -0.235
84.3% < 0 < 15.7%
                : 95% HDI
                                                                 95% HDI
           0.0013
                                                          -0.614
                                                                          0.182
               0.0
                        0.5
                                  1.0
                                                      -1.0
                                                               -0.5
                                                                         0.0
                                                                                  0.5
                 Param. Val.
                                                               Param. Val.
```

Compiling data graph

Initializing

Allocating nodes

Resolving undeclared variables

##

##

##

```
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
      Total graph size: 2053
##
##
##
  Initializing model
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   7217.574 8059.318 7878.809 7529.011 7217.574
                                                       8059.318
                                                                 8286.339
                                                                            6698.804
   betaSIZE
##
##
   6901.906
## [1] "The difference of INIT impact \n between DCdich cut samples in EPS has a\n probability of 91
## [1] " Analysis of Y= EPS explained by x= EPI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
 between DCdich cut samples in EPS has a
             probability of 91.48 %
                   mode = 9.35
8.5% < 0 < 91.5%
                                                               mode = 2.05
35.6% < 0 < 64.4%
                     95% HDI
                                                                  95% HDI
                                20.2
                    0
                                                                               10
                          10
                                 20
                                                               -5
                                                                     0
                                                                          5
             -10
                                       30
                                                          -10
                                                                                    15
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                                                            mode = -4.12
78.7\% < 0 < 21.3\%
                mode_{-} = -6.48
             93.3\% < 0 < 6.7\%
                  95% HDI:
                                                                 95% HD
                             2.15
           -20
                   -10
                                 5
                                    10
                                                       -20
                                                                -10 -5
                                                                                   10
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
```

##

##

##

Resolving undeclared variables

Reading data back into data table

Allocating nodes

Initializing

```
## Compiling model graph
##
     Resolving undeclared variables
     Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                beta0[2] beta1[1] beta1[2]
                                                              betaGFI
                                                                        betaGPS
  7425.194 6533.821 8632.377 7677.665 7425.194 6533.821 7018.817
                                                                       7329.574
  betaSIZE
## 6299.472
## [1] "The difference of EPI impact \n between DCdich cut samples in EPS has a\n probability of 94.
## [1] " Analysis of Y= EPS explained by x= STEW cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
 between DCdich cut samples in EPS has a
                                                                  \beta_2
            probability of 94.47 %
                mode = 0.303
5.5% < 0 < 94.5%
                                                             mode = 0.155
                                                              20.5% < 0 < 79.5%
                   95% HDI
                                                                95% HDI
                                                        -0.186 : 0.478
           -0.0914
         -0.5
                 0.0
                         0.5
                                                   -0.6
                                                            -0.2
                                                                    0.2 0.4 0.6
                                 1.0
                Param. Val.
                                                            Param. Val.
                      \beta_1
                                                         |beta[2]| - |beta[1]|
                mode = -0.208
                                                         mode = -0.0783
               93.3% < 0 < 6.7%
                                                         59.3% < 0 < 40.7%
                   95% HDI:
                                                              95%:HDI
                                                      -0.389
                                                                        0.325
            -0.6 -0.4 -0.2
                                                              -0.2
                                                                      0.2
                           0.0
                                  0.2
                                                      -0.6
                                                                              0.6
                Param. Val.
                                                            Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
     Allocating nodes
##
```

##

Initializing

Compiling model graph

Reading data back into data table

```
##
     Resolving undeclared variables
##
     Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 2047
##
##
## Initializing model
##
                                         beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                       beta0[1] beta0[2]
                                                               betaGFI
                                                                        betaGPS
   7664.104 8207.300
                       9000.000 9786.511 7664.104 8207.300
                                                              7823.457
                                                                       6982.579
   betaSIZE
##
   6674,229
##
  [1] "The difference of STEW impact \n between DCdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of STEW impact
                                                                  \beta_2
 between DCdich cut samples in EPS has a
           probability of -97.09 %
               modé = -1.77
97.1% < 0 < 2.9%
                                                           mode = -0.31
                                                          68.5\% < 0 < 31.5\%
                                                              95% HDI
                   95% HDI
                          -0.033
                                                         -1.36
                                                                         0.808
         -5 -4 -3 -2 -1
                                                      -2
                                                             -1
                                                                     0
                                                                            1
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
                                                       mode = 1.45
                2% < 0 < 98%
                                                             95% HDI
                  95% HDI
           0.0604
                                                                       0.557
                          2
                               3
                                                                                2
         -1
                                                       -3
                                                                -1
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
```

Reading data back into data table

Resolving undeclared variables

Compiling model graph

##

##

```
##
     Allocating nodes
  Graph information:
##
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                           beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8210.040 8542.983 9327.632 8382.241
                                          8210.040 8542.983
                                                               8730.585
                                                                         6540.577
   betaSIZE
   6697.894
##
## [1] "The difference of II_10 impact \n between DCdich cut samples in EPS has a\n probability of 9
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
 between DCdich cut samples in EPS has a
            probability of 90.09 %
                mode = 27.7
9.9% < 0 < 90.1%
                                                               mode = 24.3
                                                                9.5% < 0 < 90.5%
                  95% HDI
                                                                 95% HDI
                            69.5
         -50
                  0
                         50
                                 100
                                                       -40
                                                                 0
                                                                    20
                                                                        40
                                                                            60
                                                                                80
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                           mode = -6.54
64.9% < 0 < 35.1%
                    95% HDI
                                                               95% HDI
                                                                          48.2
             -40 -20
                         0
                              20
                                   40
                                                      -40
                                                                0
                                                                    20
                                                                                  80
         -60
                                                                         40
                                                                             60
                 Param. Val.
                                                             Param. Val.
##
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
```

##

Resolving undeclared variables

Allocating nodes

```
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7221.581 7805.325 8759.351 8747.590 7221.581 7805.325
                                                               7775.812
                                                                          7204.915
   betaSIZE
   6444.973
## [1] "The difference of FOR_10 impact \n between DCdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                    \beta_2
 between DCdich cut samples in EPS has a
            probability of -93.23 %
               mode = -13.6
93.2% < 0 < 6.8%
                                                            mode = -0.515
55.6% < 0 < 44.4%
                    95% HDI:
                                                                95%: HDI
             -35<mark>.5</mark>
                              5.03
                                                         -20 -10
              -40
                      -20
                              0
                                     20
                                                                     0
                                                                           10
                                                                                20
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 14.3
                                                              mode = -9.27
                3% < 0 < 97%
                                                           86.9% < 0 < 13.1%
                  95% HDI
                                                                95% HDI
          -0.375
                                                                            6.82
                             29.8
          -10
                0
                    10
                         20
                              30
                                   40
                                                      -40
                                                               -20
                                                                              10
                                                                                  20
                 Param. Val.
                                                              Param. Val.
```

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
```

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                    betaGFI
                                                                               betaGPS
   9000.000 8785.144 8826.936 8453.760 9000.000 8785.144 8266.880 7216.193
##
    betaSIZE
  7190.785
##
## [1] "The difference of PRI impact \n between DCdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                        \beta_2
 between DCdich cut samples in ET3 has a
             probability of 93.89 %

    \text{mode} = -0.207 \\
    77\% < 0 < 23\%

                    :95% HDI
                                                                    95% HDI
                                                                                0.348
                   0.0
                            1.0
                                                                   -0.5
         -1.0
                                     2.0
                                                           -1.0
                                                                            0.0
                                                                                   0.5
                  Param. Val.
                                                                 Param. Val.
                         \beta_1
                                                              |beta[2]| - |beta[1]|

    \text{mode} = -0.824 \\
    99.5\% < 0 < 0.5\%

    \text{mode} = -0.613 \\
    93.4\% < 0 < 6.6\%

                                                                  95% HDI:
                    95% HDI
                                                             -1.32
                              -0.217
                                                                             0.181
          -2.0 -1.5 -1.0 -0.5
                                                       -2.0
                                                                 -1.0
                                                                            0.0 0.5
                                                                                      1.0
                  Param. Val.
                                                                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
```

##

Allocating nodes

Observed stochastic nodes: 131

Graph information:

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8446.946 7317.702 7657.502 7381.111 8446.946 7317.702 8427.891
   betaSIZE
##
   6620.044
## [1] "The difference of INIT impact \n between DCdich cut samples in ET3 has a\n probability of 90
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
 between DCdich cut samples in ET3 has a
            probability of 90.66 %
                 mode = 12
9.3% < 0 < 90.7%
                                                              mode = -3.04
                                                           71.5% < 0 < 28.5%
                   95% HDI
                                                                95% HDI
             -5.89
                                                          -17.6
                                                                          8.59
           -20
                   0
                        20
                                                       -30 -20 -10
                                                                       0
                               40
                                                                           10
                                                                                20
                                     60
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                         mode = -11.1
89.4% < 0 < 10.6%
                 mode = -16.3
                98.7% < 0 < 1.3%
                   95% HDI
                                                                95% HDI
         -50
                 -30
                               0
                          -10
                                    10
                                                        -40
                                                                -20
                                                                            10
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
```

Observed stochastic nodes: 131

Unobserved stochastic nodes: 7

##

```
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  7046.507 6945.439 8079.357 7184.948 7046.507 6945.439
                                                                6743.019 6851.531
  betaSIZE
## 6529.552
## [1] "The difference of EPI impact \n between DCdich cut samples in ET3 has a\n probability of 76.
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                    \beta_2
 between DCdich cut samples in ET3 has a
            probability of 76.53 %
                mode = 0.262
23.5% < 0 < 76.5%
                                                          mode = -0.0783
                                                           54.3% < 0 < 45.7%
                    95% HDI
                                                               95%:HDI
                                                        -0.62
                         0.5
                                                                   0.0
          -1.0
                     0.0
                              1.0
                                   1.5
                                                      -1.0
                                                            -0.5
                                                                         0.5
                                                                               1.0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -0.304
                                                           mode = -0.018 62.4\% < 0 < 37.6\%
             88.8% < 0 < 11.2%
                                                                95% HDI
                   95% HDI
                                                          -0.64
                                                                          0.461
            -1.0
                    -0.5
                            0.0
                                   0.5
                                                         -1.0 -0.5
                                                                     0.0
                                                                           0.5
                                                                                 1.0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
```

Total graph size: 2047

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
  8928.406 9000.000 9171.756 9000.000 8928.406
                                                     9000.000
                                                               8217.008
                                                                         6595.363
   betaSIZE
##
  7162.329
## [1] "The difference of STEW impact \n between DCdich cut samples in ET3 has a\n probability of 97
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
 between DCdich cut samples in ET3 has a
                                                                    \beta_2
            probability of 97.63 %
               mode = 3.07
2.4% < 0 < 97.6%
                                                            mode = 0.17
44.8% < 0 < 55.2%
                  95% HD
                                                                95% HDI
                                                                          2.05
           0.165
         -2
               0
                    2
                         4
                              6
                                   8
                                                            -2
                                                                    0
                                                                           2
                                                                                   4
                 Param, Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                 mode = -3.01
                                                            mode_{-} = -2.23
                 99.5% < 0 < 0.5%
                                                           94.9% < 0 < 5.1%
                    95% HDI
                                                               95% HDI:
                           -2
                                 0
                                                                    -2
         -8
                                                                                2
                 Param. Val.
                                                             Param. Val.
```

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
```

```
## Initializing model
##
## alpha1[1] alpha1[2]
                        beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                             betaGPS
    8266.458 8633.999
                        8530.946 8192.610 8266.458 8633.999
                                                                  8457.954
                                                                            7195.760
##
    betaSIZE
## 6806.319
## [1] "The difference of II_10 impact \n between DCdich cut samples in ET3 has a\n probability of 5
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                       \beta_2
 between DCdich cut samples in ET3 has a
             probability of 57.02 %

    \text{mode} = 5.33 \\
    43\% < 0 < 57\%

                                                                mode = 11.1
                                                                34.7% < 0 < 65.3%
                    95% HDI
                                                                   95% HDI
                   -50
                       0
                            50 100
                                                         -100 -50
                                                                      0
                                                                           50
         -150
                                                                                 100
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

mode = 5.54

41.1\% < 0 < 58.9\%

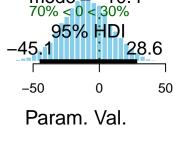
                                                             mode = 1.72
                                                             38.9% < 0 < 6<del>1</del>.1%
                    95% HDI
                                                                95% HDI
                                                                            61.6
                                                            Γ
              -50
                       0
                                50
                                                           -50
                                                                    0
                                                                           50
                                                                                  100
                  Param, Val.
                                                                Param, Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
```

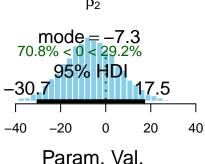
Initializing model

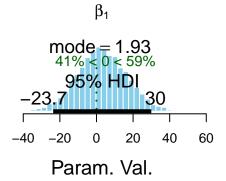
```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                              betaGPS
   7404.019 7629.532 9000.000
                                   9000.000 7404.019 7629.532 7718.785
                                                                             7431.351
  betaSIZE
##
    6131.305
## [1] "The difference of FOR_10 impact \n between DCdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                       \beta_2
 between DCdich cut samples in ET3 has a
            probability of -69.96 %

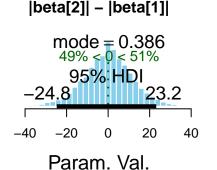
    \text{mode} = -10.4 \\
    70\% < 0 < 30\%

                                                             mode = -7.3
70.8\% < 0 < 29.2\%
```









```
Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
      Total graph size: 2053
##
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                             betaGFI
  8807.432 8806.200 8740.188 8651.024 8807.432 8806.200 8413.207 7009.764
  betaSIZE
## 6957.090
## [1] "The difference of PRI impact \n between DCdich cut samples in ER3 has a\n probability of 90.
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                  \beta_2
 between DCdich cut samples in ER3 has a
            probability of 90.06 %
                                                        mode = 0.591
9.9% < 0 < 90.1%
                                                             95% HDI
                   95% HDI
           -0.302:
                                                                          0.5
                  0.0 0.5 1.0 1.5 2.0
                                                             -0.5
                                                                    0.0
         -1.0
                                                       -1.0
                Param. Val.
                                                           Param. Val.
                      \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = -0.801
                                                          mode = -0.518
                98.9% < 0 < 1.1%
                                                        89.5% < 0 < 10.5%
                                                              95% HD1
                                                                        0.281
       -2.0 -1.5 -1.0 -0.5
                                                  -2.0
                                                            -1.0
                              0.0
                                    0.5
                                                                      0.0
                                                                           0.5
                Param. Val.
                                                           Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2053
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta6FI

```
## 6388.297 8076.460 8017.954 7675.948 6388.297 8076.460 7922.711 6674.883
##
  betaSIZE
  6782.179
## [1] "The difference of INIT impact \n between DCdich cut samples in ER3 has a\n probability of 91
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
 between DCdich cut samples in ER3 has a
                                                                   \beta_2
            probability of 91.86 %
                 mode = 16.5
                                                             mode = -2.67
                 8.1% < 0 < 91.9%
                                                             67% < 0 < 33%
                   95% HDI
                                                                95% HDI
                                                                          10.6
           -20
                  0
                        20
                                                                      0
                                                                           10
                               40
                                     60
                                                    -30
                                                          -20
                                                               -10
                                                                                20
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                          mode = -12.3
90.4% < 0 < 9.6%
                mode = -17.3
               98.6% < 0 < 1.4%
                  95% HDI
                                                               95% HDI
                                                          -30.2
        -50
                 -30
                         -10
                              0
                                  10
                                                    -50
                                                            -30
                                                                    -10 0
                                                                            10 20
                 Param. Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
     Reading data back into data table
##
##
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2047
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
```

7640.649 6573.362 8241.528 7199.679 7640.649 6573.362 6822.637

```
## betaSIZE
## 6154.544
## [1] "The difference of EPI impact \n between DCdich cut samples in ER3 has a\n probability of 67.
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                    \beta_2
 between DCdich cut samples in ER3 has a
             probability of 67.64 %
               mode = 0.123
32.4% < 0 < 67.6%
                                                             mode = -0.0546
                                                             54.7% < 0 < 45.3%
                   95% HDI
                                                                 95%:HDI
            -0.562
                                                          -0.658
                                                                           0.57
       -1.5
                -0.5
                         0.5 1.0 1.5 2.0
                                                          -1.0 -0.5 0.0
                                                                           0.5
                                                                                 1.0
                 Param, Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

    \text{mode} = -0.208

    79.1\% < 0 < 20.9\%

                                                           mode = -0.0349
                                                            53.7% < 0 < 46.3%
                                                                95%:HDI
                    95% HDI
                               0.307
                                                          -0.57
             -0.708
                                                                          0.512
             -1.0
                   -0.5
                           0.0
                                                       -1.0
                                                             -0.5
                                                                    0.0
                                  0.5
                                                                          0.5
                                                                                1.0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
## 8119.312 9000.000 9330.160 9247.735 8119.312 9000.000 8751.298
                                                                         6959.124
```

betaSIZE

```
## 6806.520
## [1] "The difference of STEW impact \n between DCdich cut samples in ER3 has a\n probability of 97
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
 between DCdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 97.2 %
                mode = 3.22
2.8% < 0 < 97.2%
                                                             mode = 0.17
                                                           44.4% < 0 < 55.6%
                   95% HDI
                                                              95% HDI
          -0.0147
           -2
                0
                     2
                                    8
                                                           -2
                                                                   0
                                                                          2
                                                                                 4
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -2.89
99% < 0 < 1%
                                                           mode = -2.13
93.8% < 0 < 6.2%
                   95% HDI
                                                               95% HDI:
                              -0:384
                                                         -4.68
                                                                           0.534
             -6
                          -2
                                0
                                       2
                                                                    -2
                                                                           0
                                                                                 2
                                                        -6
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
##
  Initializing model
                                                                 betaGFI
                                                                           betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
  8448.608 8716.389 9000.000 8420.151 8448.608 8716.389 8226.183 7067.559
  betaSIZE
##
```

6474.958

```
## [1] "The difference of II_10 impact \n between DCdich cut samples in ER3 has a\n probability of 6
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
 between DCdich cut samples in ER3 has a
             probability of 67.1 %
                 mode = 16.2
32.9% < 0 < 67.1%
                                                              mode = 28.7
                                                              21.4% < 0 < 78.6%
                                                               95% HDI
                   95% HDI
                                                                          89.8
           -100
                      0
                          50
                             100 150
                                                    -100 -50
                                                                      50
                                                                           100
                                                                 0
                                                                                 150
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                         mode = 7.69
                 36.8% < 0 < 63.2%
                    95% HDI
                                                             95% HDI
                              55.5
       -100
               -50
                       0
                              50
                                     100
                                                        -50
                                                                0
                                                                      50
                                                                            100
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2043
##
##
  Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                         beta1[1]
                                                    beta1[2]
                                                               betaGFI
  7421.529 7467.179 9307.119 9239.111 7421.529
                                                    7467.179 7399.967
                                                                        7239.725
##
   betaSIZE
## 6494.540
```

[1] "The difference of FOR_10 impact \n between DCdich cut samples in ER3 has a\n probability of

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                    \beta_2
 between DCdich cut samples in ER3 has a
            probability of -65.27 %
             mode = -9.16
65.3% < 0 < 34.7%
                                                           mode = -3.73
                                                           55.7% < 0 < 44.3%
                                                              95% HDI
                   95% HDI
              -50
                         0
                                 50
                                                        -40
                                                             -20
                                                                         20
                                                                               40
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                            mode = -0.577
56.2% < 0 < 43.8%
                 mode = 6.57
                 33.5% < 0 < 66.5%
                                                                95%:HDI
                   95% HDI
            -21.9
           -40 -20
                          20
                               40
                                                         -40
                                                               -20
                                                                          20
                                                                                40
                      0
                                    60
                                                                     0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                          betaGPS
  8932.742 9000.000 8596.013 8311.259 8932.742 9000.000 8654.267
                                                                        7356.568
## betaSIZE
## 6814.670
## [1] "The difference of PRI impact \n between DCdich cut samples in ER1 has a\n probability of 56.
## [1] "
```

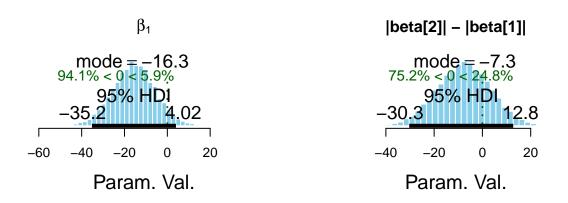
```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
 between DCdich cut samples in ER1 has a
            probability of 56.08 %
                mode = 0.0958
43.9% < 0 < 56.1%
                                                          mode = -0.4
                                                         86% < 0 < 14%
                   95% HDI
                                                             95% HDI
                                                                  0.298
             -0.976
                       0
           -2
                 _1
                                   2
                                                     -1.5
                                                               -0.5 0.0
                                                                         0.5
                                                                              1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
          mode = -0.458
86.5% < 0 < 13.5%
                                                            95%:HDI
                 95% HDI
                          0.371
                                                                          0.786
         -2
                         0
                                                       -1.5
                                                                -0.5
                                                                         0.5 1.0 1.5
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
##
  Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
     Total graph size: 2053
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                               betaGFI
                                                                         betaGPS
                                                     beta1[2]
            7962.245 8453.696 8136.412 7523.305
                                                    7962.245
##
   7523.305
                                                              8202.974
                                                                        7615.861
##
  betaSIZE
   6529.998
## [1] "The difference of INIT impact \n between DCdich cut samples in ER1 has a\n probability of 76
```

[1] " Analysis of Y= ER1 explained by x= INIT cutted by DCdich"

[1] " Analysis of Y= ER1 explained by x= EPI cutted by DCdich"

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between DCdich cut samples in ER1 has a probability of 76.12 % mode = 8.81 23.9% < 0 < 76.1% mode = -5.6478.5% < 0 < 21.5%95% HDI 95% HDI -17<u>.1</u> -40 -20 0 20 40 60 -30 -20 -100 10 20 Param. Val. Param. Val.

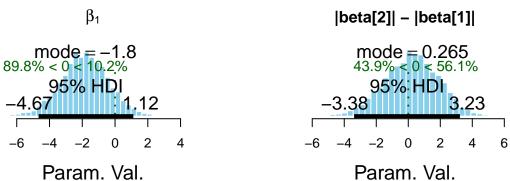


```
Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2]
                        beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                  betaGFI
                                                                            betaGPS
  6860.712 6439.395
                        8028.454 7315.455 6860.712 6439.395
                                                                6774.133
                                                                           7317.470
   betaSIZE
   6381.143
## [1] "The difference of EPI impact \n between DCdich cut samples in ER1 has a\n probability of 86.
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of EPI impact between DCdich cut samples in ER1 has a β_2 probability of 86.13 % mode = 0.278 27.3% < 0 < 72.7% mode = 0.49513.9% < 0 < 86.1% 95% HDI 95% HDI -0.3930.942 Г -1.00.0 1.0 2.0 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.296mode = 0.026482.3% < 0 < 17.7% 49.7% < 0 < 50.3% 95% HDI 95% HDI 0.9010.304 -0.6970.743-1.5 -1.0 -0.50.0 0.5 1.0 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val.

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7990.358 8783.844 9000.000 9000.000 7990.358 8783.844 8529.508
                                                                          6977.584
##
  betaSIZE
##
   6628.840
  [1] "The difference of STEW impact \n between DCdich cut samples in ER1 has a\n probability of -5
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between DCdich cut samples in ER1 has a probability of -56.94 % modé = -0.342 56.9% < 0 < 43.1% mode = -2.1896.1% < 0 < 3.9% 95%:HDI 95% HDI: 0.312 -5 0 5 -6 -2 0 2 Param. Val. Param. Val.



```
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8492.713 8846.083 8659.603 7988.682 8492.713 8846.083
                                                                8932.658
                                                                          7154.124
## betaSIZE
## 6525.444
## [1] "The difference of II_10 impact \n between DCdich cut samples in ER1 has a\n probability of 9
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of II_10 impact β_2 between DCdich cut samples in ER1 has a probability of 93.56 % mode = 78.8 6.4% < 0 < 93.6% mode = 70.53.6% < 0 < 96.4%95% HDI 95% HDI 166 146 -1000 100 200 -1000 50 100 200 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -1.3754.8% < 0 < 45.2% 95%:HDI 95% HDI **5**1.7 -50 0 50 -50 -100100 0 50 100 150 200

Param. Val.

```
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7535.692 7597.748 9000.000 8812.200 7535.692 7597.748 7382.185
                                                                          6953.886
## betaSIZE
## 6257.749
## [1] "The difference of FOR_10 impact \n between DCdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

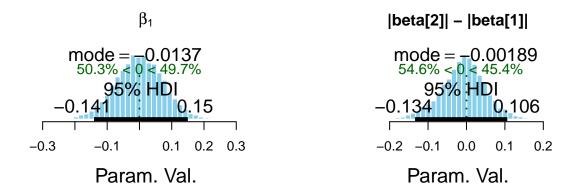
Param. Val.

The difference of FOR_10 impact β_2 between DCdich cut samples in ER1 has a probability of -97.22 % mode = -44.6 97.2% < 0 < 2.8% mode = -21.388.3% < 0 < 11.7% 95% HDI: 95% HDI 2.88 -100-500 50 -60 -40 -2020 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -6.7265.2% < 0 < 34.8% mode = 29.55.5% < 0 < 94.5% 95% HDI 95% HDI -6.8**6** 46.5 58.5 0 50 -100-50 -50100 0 50 Param. Val. Param. Val. ## Compiling data graph ## Resolving undeclared variables Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131

```
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                         betaGPS
   8840.354 8592.533 9000.000 8774.485 8840.354
                                                    8592.533
                                                               8513.784
                                                                        7142.772
## betaSIZE
## 6859.248
## [1] "The difference of PRI impact \n between DCdich cut samples in ER has a\n probability of -55.
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of PRI impact β_2 between DCdich cut samples in ER has a probability of -55.69 % mode = -0.0236 55.7% < 0.< 44.3% mode = -0.0057358.7% < 0 < 41.3% 95% HDI 95% HDI 0.169 -0.136-0.2110.108 -0.4-0.20.0 0.2 0.4 -0.2 -0.10.0 0.1 0.2 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  6964.508 7994.077 8179.963 7807.169 6964.508 7994.077 8549.964
                                                                         7202.941
## betaSIZE
## 6813.698
## [1] "The difference of INIT impact \n between DCdich cut samples in ER has a\n probability of 53.
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by DCdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact between DCdich cut samples in ER has a probability of 53.48% mode = -0.0548 r 46.5% < 0 < 53.5% 72.4% 95% HDI -4.7 4.71 -3.4%

5

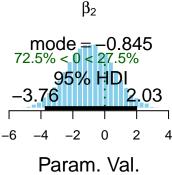
Param. Val.

0

-5

500): Unused variable "n" in data

-10



 eta_1 mode = -1.4 73% < 0 < 27% 95% HDI -4.88 \vdots 2.3 -8 -6 -4 -2 0 2 4

Param. Val.

```
## Compiling data graph
     Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2047
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  7039.550 6741.916 8236.121 7567.062 7039.550 6741.916
                                                                6957.564
                                                                          6959.713
## betaSIZE
## 6198.422
## [1] "The difference of EPI impact \n between DCdich cut samples in ER has a\n probability of -95.
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by DCdich"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of EPI impact β_2 between DCdich cut samples in ER has a probability of -95.86 % mode = -0.15395.9% < 0 < 4.1% mode = -0.15898.5% < 0 < 1.5% 95% HDI: 95% HDI **0**:0143 -0.0149 -0.5-0.3-0.10.1 -0.4-0.20.0 0.1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0074 50.7% < 0 < 49.3% $\begin{array}{c} mode = 0.091 \\ 8.2\% < 0 < 91.8\% \end{array}$ 95% HDI 95% HDI 0.112 -0.0412-0.1060.1 -0.2-0.10.0 0.2 -0.10.0 0.1 0.2 0.3 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2047 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8569.216 9293.505 9000.000 8135.315 8569.216 9293.505 8342.123 6933.033 ## betaSIZE ## 6821.183 ## [1] "The difference of STEW impact \n between DCdich cut samples in ER has a\n probability of -64

[1] " Analysis of Y= ER explained by x= II_10 cutted by DCdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "

500): Unused variable "n" in data

The difference of STEW impact β_2 between DCdich cut samples in ER has a probability of -64.68 % mode = -0.131 64.7% < 0 < 35.3% mode = -0.10359.3% < 0 < 40.7% 95% HDI 95% HDI 0.559 0.374-1.5-0.5 0.0 0.5 1.0 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.09438.3% < 0 < 61.7% 95% :HDI 95% HDI 0.591 -0.4740.387 -0.4650.0 -1.0-0.50.0 0.5 -1.0-0.50.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8753.429 9074.812 10231.582 9000.000 8753.429 9074.812 8564.664 7252.797 ## betaSIZE

[1] " Analysis of Y= ER explained by x= FOR_10 cutted by DCdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of II_10 impact \n between DCdich cut samples in ER has a\n probability of

6238.788

500): Unused variable "n" in data

[1] "

The difference of II_10 impact β_2 between DCdich cut samples in ER has a probability of -77.82 % mode = -7.3577.8% < 0 < 22.2% mode = 4.4928.7% < 0 < 71.3% 95% HDI 95% HDI 10.6 17.5 -30-100 10 20 -20 -10 0 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 9.56 2.1% < 0 < 97.9% mode = -5.7473.5% < 0 < 26.5% 95% HDI 95% HDI 0.48420.2 -16.9 9.6 -100 10 20 -30 -20 -1030 0 10 20 Param. Val. Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
##
                                           beta1[1] beta1[2]
## alpha1[1] alpha1[2]
                        beta0[1]
                                  beta0[2]
                                                                  betaGFI
                                                                            betaGPS
   7282.438 7427.638
                        9085.303
                                  9372.956
                                            7282.438
                                                      7427.638
                                                                7616.469
                                                                           6905.509
##
##
  betaSIZE
   6365.888
## [1] "The difference of FOR_10 impact \n between DCdich cut samples in ER has a\n probability of
```

The difference of FOR_10 impact β_2 between DCdich cut samples in ER has a probability of -83.93 % mode = -4.24 83.9% < 0 < 16.1% mode = 0.0851 45.9% < 0 < 54.1%95% HDI 95% HDI 5.51 -20 -100 5 10 -5 0 5 10 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -1.8776.5% < 0 < 23.5%mode = 4.537.2% < 0 < 92.8% 95% HDI 95% HDI 10.1 3.75

-15

-10

-5

Param. Val.

0

5

Binomial Y

-5

5

Param. Val.

10

15

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by DCdich"
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
      Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  5769.080 5288.419 5017.788 5450.250 5769.080 5288.419 5299.797 4415.848
  betaSIZE
## 4653.378
## [1] "The difference of PRI impact \n between DCdich cut samples in CP has a\n probability of
        The difference of PRI impact
                                                                    \beta_2
  between DCdich cut samples in CP has a
            probability of -98.94 %
                mode = -0.0379
98.9% < 0 < 1.1%
                                                           mode = -0.00124
52.6% < 0 < 47.4%
                    95% HDI
                                                                95% HDI
                                                                          0.0205
           -0.0714
                             -0.00493
                                                        -0.0203
         -0.10
                  -0.06
                           -0.02
                                     0.02
                                                     -0.04
                                                            -0.02
                                                                    0.00
                                                                           0.02
                                                                                  0.04
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

mode = -0.0286

97.9\% < 0 < 2.1\%

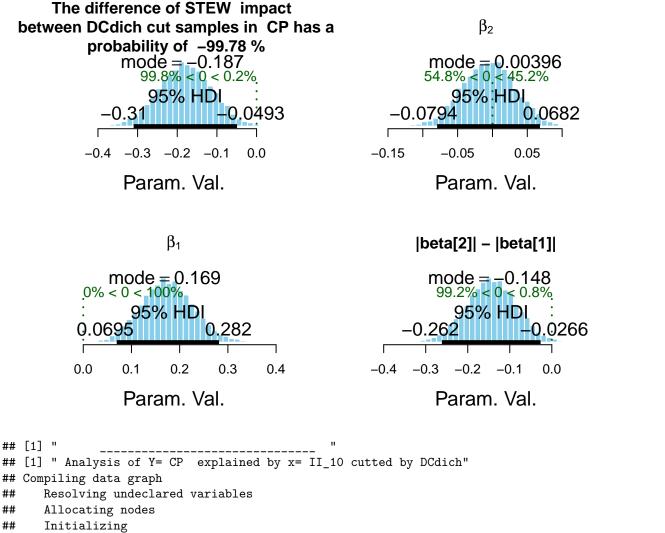
                mode = 0.0385
              0.2\% < 0 < 99.8\%
                                                                95% HDI
                   95% HDI
            0.0119
                                                       -0.0589 -0.00163
                             0.0643
            0.00 0.02 0.04 0.06 0.08
                                                      -0.08
                                                                -0.04
                                                                           0.00
                 Param. Val.
                                                              Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by DCdich"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2039
```

Initializing model

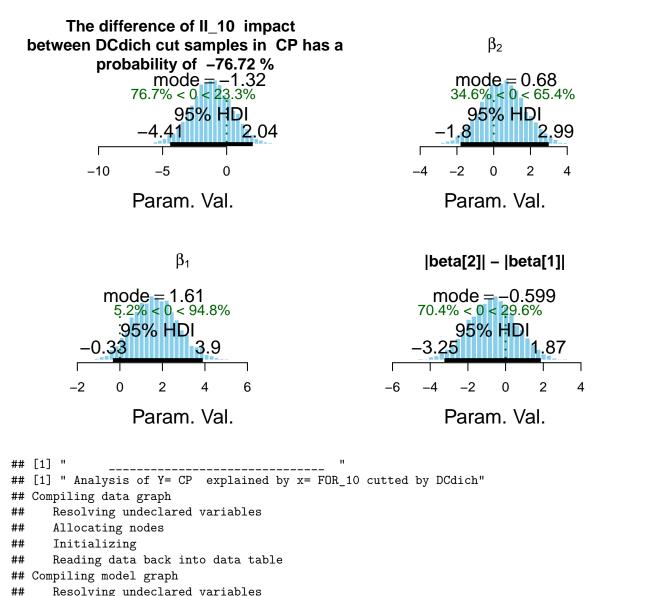
```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
  4850.628 4975.120 5205.860 4734.718 4850.628 4975.120 5527.087 4823.635
## betaSIZE
## 4404.400
## [1] "The difference of INIT impact \ between DCdich cut samples in CP has a\ probability of -72
        The difference of INIT impact
  between DCdich cut samples in CP has a
                                                                      \beta_2
            probability of -72.23 %
            mode = -0.204
72.2% < 0 < 27.8%
                                                              mode = 0.0569
                                                               43.4% < 0 < 56.6%
                  95% HDI
                                                                  95% HDI
            -1.03
                        0.569
                                                                             0.544
          -1.5
                   -0.5
                            0.5
                                     1.5
                                                      -1.0
                                                             -0.5
                                                                     0.0
                                                                             0.5
                                                                                    1.0
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                             \begin{array}{c} mode = -0.022 \\ 68.1\% < 0 < 31.9\% \end{array}
                  mode = 0.295
19.1% < 0 < 80.9%
                                                                 95% HDI
                     95% HDI
             -0.33<mark>5</mark>
                                0.923
                                                                            0.386
                                                          -0.757
        -1.0 -0.5
                     0.0
                           0.5
                                  1.0
                                                                        0.0
                                                                              0.5
                                                           -1.0 -0.5
                                                                                     1.0
                                                                Param. Val.
                 Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by DCdich"
  Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2033
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
## 4827.504 3706.833 5553.319 5777.422 4827.504 3706.833 4502.044 4450.617
```

```
## [1] "The difference of EPI impact \n between DCdich cut samples in CP has a\n probability of -75.
        The difference of EPI impact
                                                                   \beta_2
  between DCdich cut samples in CP has a
            probability of -75.43 %
             mode = -0.00909
75.4% < 0 < 24.6%
                                                         mode = 0.000438
                                                           42.8% < 0 < 57.2%
                   95% HDI
                                                               95% HDI
                                                     -0.0199
                         0.0192
                                                                         0.0249
                   -0.02
                                                         -0.02
                                                                 0.00
          -0.06
                             0.02
                                                                        0.02
                                                                               0.04
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                          mode = -0.00144
65.1% < 0 < 34.9%
               mode = 0.0129
                 10.9% < 0 < 89.1%
                                                               95% HDI
                  95% HDI
        -0.00803
                                                                         0.0167
        -0.02
                 0.00
                         0.02
                                0.04
                                                      -0.04
                                                            -0.02
                                                                    0.00
                                                                           0.02
                 Param. Val.
                                                             Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by DCdich"
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
     Total graph size: 2033
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                          betaGPS
                                                                betaGFI
## 5158.251 5072.927 5369.438 5468.876 5158.251 5072.927 5630.023 4022.419
## betaSIZE
## 4381.423
## [1] "The difference of STEW impact \n between DCdich cut samples in CP has a\n probability of -99
```

betaSIZE ## 4413.961



```
## [1] " Analysis of Y= CP explained by x= II_10 cutted by DCdich"
##
##
##
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 1949
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5436.663 5296.495 5446.670 5867.147 5436.663 5296.495 5698.017
                                                                         4678.560
## betaSIZE
## 4380.231
## [1] "The difference of II_10 impact \n between DCdich cut samples in CP has a\n probability of -7
```



```
Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2029
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  4703.152 4695.923 4047.282 4398.439 4703.152 4695.923 5114.249
                                                                         4359.002
## betaSIZE
   3956.137
## [1] "The difference of FOR_10 impact \n between DCdich cut samples in CP has a\n probability of -
```

The difference of FOR_10 impact β_2 between DCdich cut samples in CP has a probability of -85.62 % mode = -0.717 85.6% < 0 < 14.4% mode = -0.16567.9% < 0 < 32.1% 95% HDI 95% HDI 0.619 0.681 -3 -2 -1 0 1 2 -1.5-0.50.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.49815.5% < 0 < 84.5% $\begin{array}{l} mode = -0.0616 \\ 66.5\% < 0 < 33.5\% \end{array}$ 95% HDI 95% HDI 0.746 -0.52**6** 0 2 -2 1 -1 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by DCdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information:

[1] "The difference of PRI impact \n between DCdich cut samples in DISCL has a\n probability of -

5091.422 5715.918 4941.448 5126.471 5091.422 5715.918 5202.241 4155.157

betaGFI

betaGPS

##

##

##

##

Observed stochastic nodes: 131

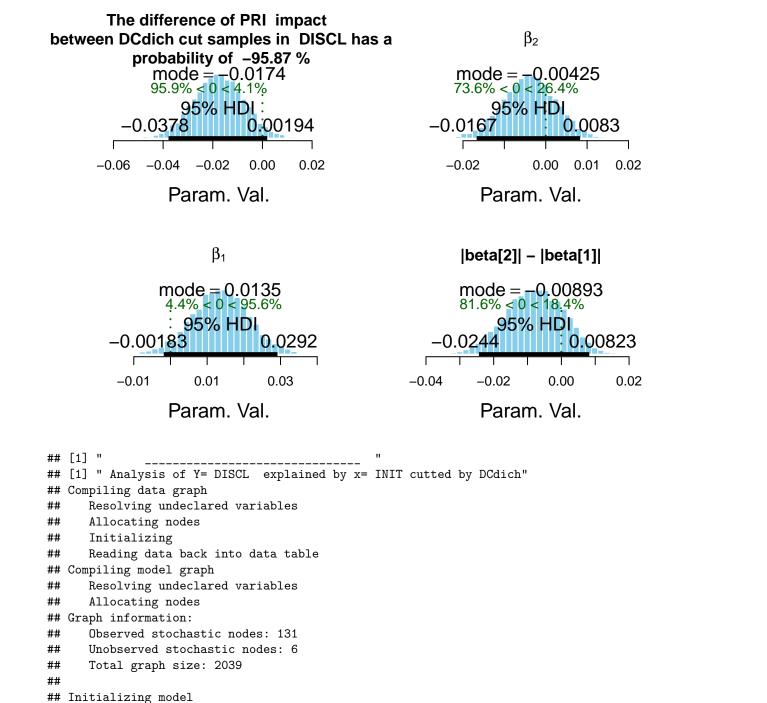
Unobserved stochastic nodes: 6

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

Total graph size: 2039

Initializing model

betaSIZE ## 4426.922



[1] "The difference of INIT impact \n between DCdich cut samples in DISCL has a\n probability of

betaGFI

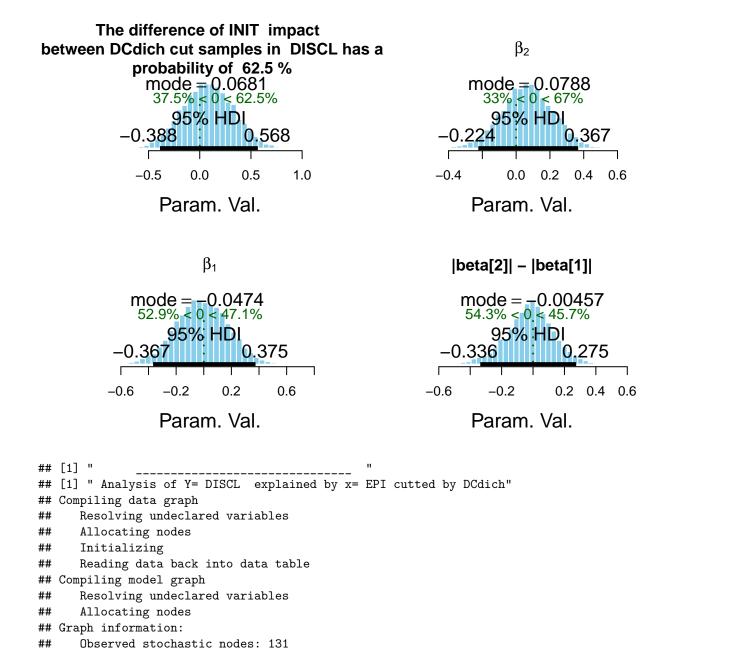
betaGPS

4790.565

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4047.703

4521.766 4971.058 4962.600 4477.048 4521.766 4971.058 4859.904

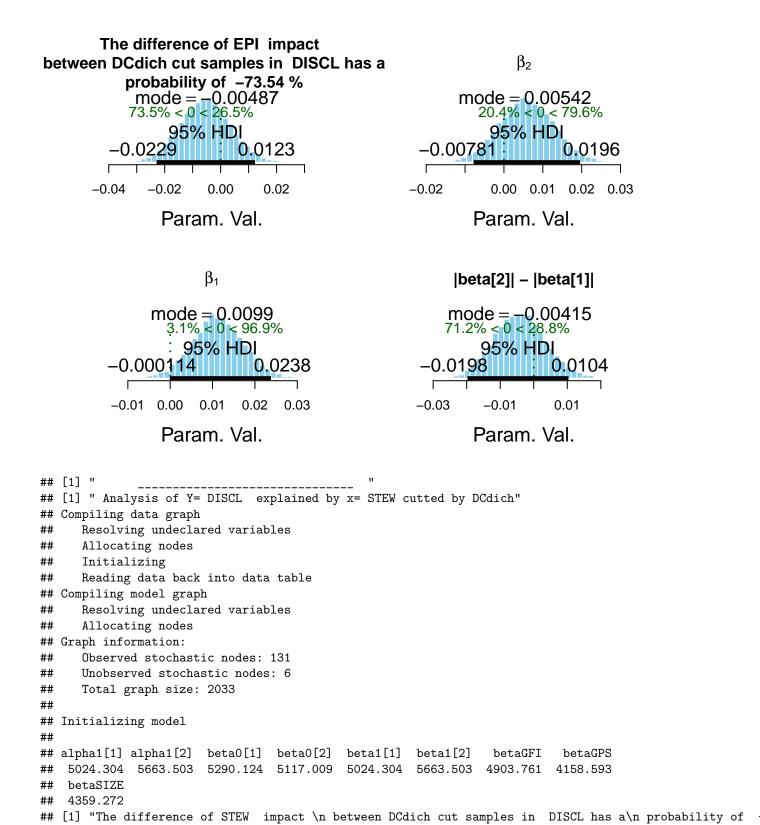


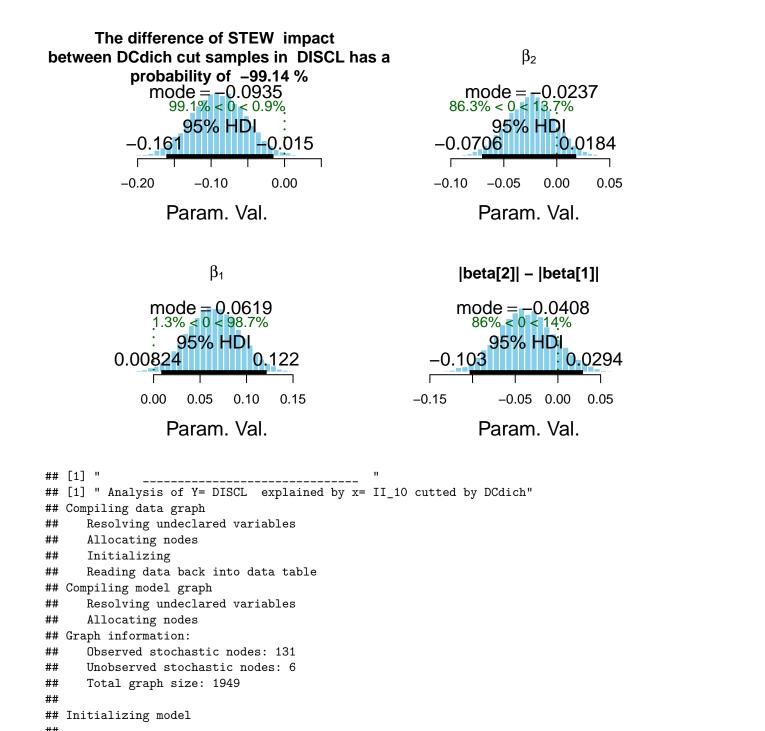
##

##

Unobserved stochastic nodes: 6

Total graph size: 2033





[1] "The difference of II_10 impact \n between DCdich cut samples in DISCL has a\n probability of

4901.697 5300.674 5641.217 6264.121 4901.697 5300.674 5355.316 4473.762

betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4244.281

mode = -1.07 88.3% < 0 < 11.7% 66.8% < 0 < 33.2% 95% HDI 95% HDI 0.697 -3 -2 -12 -3 -2 -1 0 1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.756 9.5% < 0 < 90.5%mode = -0.0897 60.7% < 0 < 39.3%95% HDI 95% HDI -1.58 0 1 2 3 -2 2 -1 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by DCdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6 ## Total graph size: 2029

beta1[2]

[1] "The difference of FOR_10 impact \n between DCdich cut samples in DISCL has a\n probability of

betaGFI

betaGPS

 β_2

mode = -0.354

The difference of II_10 impact

##

##

##

Initializing model

betaSIZE

3763.327

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

between DCdich cut samples in DISCL has a probability of -88.29 %

4868.873 4577.709 4001.673 4245.275 4868.873 4577.709 4978.162 4441.819

The difference of FOR_10 impact β_2 between DCdich cut samples in DISCL has a probability of -95.98 % $\text{mode} = -0.756 \\ 96\% < 0 < 4\%$ mode = 0.088139.8% < 0 < 60.2% 95% HDI: 95% HDI 0.0938 0.586 -2.0-1.00.0 0.5 1.0 -1.0 -0.50.0 0.5 1.0 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.806 0.6% < 0 < 99.4% $mode_{-} - 0.612$ 94.6% < 0 < 5.4% 95% HDI 95% HDI: 0.133 0.158 -0.5 0.0 0.5 1.0 1.5 -2.0-1.0 2.0 0.0 0.5

Param. Val.

BRCR-Separated Bayesian models

Param. Val.

Quantitative Y

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                     beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8757.246 9000.000
                       9000.000 8832.203 8757.246
                                                     9000.000
                                                                8076.495
                                                                          6718.525
   betaSIZE
##
   6522.364
## [1] "The difference of PRI impact \n between BRCRdich cut samples in EPS has a\n probability of 7
## [1] " Analysis of Y= EPS explained by x= INIT cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between BRCRdich cut samples in EPS has a
            probability of 77.03 %
                 mode = 0.154
                                                              mode = 0.295
                   23% < 0 < 77%
                                                                4.8\% < 0 < 95.2\%
                                                                 95% HDI
                   95% HDI
                                                         -0.0431
             -0.298
                                                                           0.643
                            0.621
       -1.0
              -0.5
                     0.0
                            0.5
                                                      -0.4
                                                               0.0
                                                                       0.4
                                                                               0.8
                                   1.0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = 0.106
21.6% < 0 < 78.4%
                                                            mode = 0.144
24.5% < 0 < 75.5%
                                                               95% HDI
                  95% HDI
          -0.204
                                                         0.245
                                                                          0.537
         -0.4
                   0.0
                        0.2
                             0.4
                                  0.6
                                                      -0.5
                                                                0.0
                                                                          0.5
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
```

223

##

##

##

Resolving undeclared variables

Allocating nodes

Initializing

```
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8266.835 8453.446
                       8977.608 8737.953 8266.835
                                                      8453.446
                                                                8019.948
                                                                          7215,265
   betaSIZE
##
##
  6737.853
## [1] "The difference of INIT impact \n between BRCRdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= EPI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
between BRCRdich cut samples in EPS has a
            probability of -68.02 %
               mode = -2.2

68\% < 0 < 32\%

mode = -3.06

79.5\% < 0 < 20.5\%

                  95% HDI
                                                                 95% HDI
                             8.8
           -20
                 -10
                        0
                              10
                                                       -15 -10 -5
                                    20
                                                                              5
                                                                                   10
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -0.995
                                                              mode = 0.259
              52.6% < 0 < 47.4%
                                                               48% < 0 < 52%
                                                                 95% HDI
                  95%:HDI
                                                                           8.09
               -10
                       0
                               10
                                      20
                                                       -15
                                                                -5
                                                                         5
                                                                              10
                                                                                  15
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
```

##

##

Allocating nodes

Reading data back into data table

Initializing

```
## Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
     Unobserved stochastic nodes: 7
##
     Total graph size: 2046
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                 beta0[2]
                                           beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7701.880 6718.475
                       8822.815 8540.670 7701.880 6718.475
                                                               6290.412
                                                                         7192.990
##
   betaSIZE
  6617.208
## [1] "The difference of EPI impact \n between BRCRdich cut samples in EPS has a\n probability of -
## [1] " Analysis of Y= EPS explained by x= STEW cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between BRCRdich cut samples in EPS has a
                                                                   \beta_2
            probability of -94.38 %
              mode = -0.361
94.4% < 0 < 5.6%
                                                            mode = -0.206
                                                          93.6% < 0 < 6.4%
                   95% HDI:
                                                               95% HDI:
                                                       -0.517
                             0.0862
                                                                         0.0653
          -1.0
                   -0.5
                             0.0
                                                   -0.8
                                                              -0.4
                                                                         0.0
                                                                              0.2
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 0.111
                                                            mode = 0.0775
                  25.2% < 0 < 74.8%
                                                              32.1% < 0 < 67.9%
                    95% HDI
                                                                95% HDI
                     0.0
                          0.2
                                                    -0.6
                                                             -0.2
                                                                      0.2 0.4 0.6
           -0.4
                               0.4
                                    0.6
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
```

Reading data back into data table

Compiling model graph

```
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 2046
##
##
## Initializing model
##
                       beta0[1] beta0[2] beta1[1] beta1[2]
## alpha1[1] alpha1[2]
                                                               betaGFI
                                                                         betaGPS
   8116.481 9000.000
                       9000.000 8592.658 8116.481
                                                    9000.000
                                                              8252.029
                                                                        7621.379
   betaSIZE
##
   6174.531
##
  [1] "The difference of STEW impact \n between BRCRdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                   \beta_2
between BRCRdich cut samples in EPS has a
            probability of -92.93 %
              mode = -1.48
92.9% < 0 < 7.1%
                                                           mode = -0.0909
                                                           57.5% < 0 < 42.5%
                                                               95%:HDI
                   95% HDI:
                             0.384
                                                          1.17
                                                                         0.978
             -3.05
        -5 -4 -3 -2 -1
                             0
                                                      -2
                                                             -1
                                                                    0
                                                                                  2
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 1.21
                                                            mode_{-} - 0.75
                                                         85.4% < 0 < 14.6%
                 4.2% < 0 < 95.8%
                   95% HDI
                                                               95% HDI
                             2.55
             -0.14
                                                                       0.603
                                 3
                                                             -2
            _1
                                     4
                                                        -3
                                                                        0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

##

##

Initializing

Compiling model graph

Reading data back into data table

Resolving undeclared variables

```
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                   beta0[2]
                                              beta1[1]
                                                        beta1[2]
                                                                    betaGFI
                                                                               betaGPS
    8343.593 9000.000 9236.342
                                   9902.852 8343.593
                                                        9000.000
                                                                              6645.923
                                                                   8757.101
   betaSIZE
    6735.945
##
## [1] "The difference of II_10 impact \n between BRCRdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II 10 impact
                                                                        \beta_2
between BRCRdich cut samples in EPS has a
             probability of 71.47 %

    \text{mode} = 10.2 \\
    28.5\% < 0 < 71.5\%

                                                                  mode = 10
                                                                  23.6% < 0 < 76.4%
                      95% HDI
                                                                   95% HDI
                                 53.7
                                                                                38
                -27.6
                                                              18.5
              -50
                        0
                                 50
                                                          -40
                                                               -20
                                                                      0
                                                                          20
                                                                                40
                                                                                     60
                  Param. Val.
                                                                 Param. Val.
                         \beta_1
                                                              |beta[2]| - |beta[1]|

    \text{mode} = -2.57 \\
    54\% < 0 < 46\%

                                                               mode = 0.0817
44.5% < 0 < 55.5%
                                                                   95% HDI
                     95%: HDI
               -30.2
                                 29.3
                                                                               29.7
         -60 -40 -20
                          0
                               20
                                     40
                                                            -40 -20
                                                                        0
                                                                             20
                                                                                  40
                                                                                        60
                  Param. Val.
                                                                 Param. Val.
##
   Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
```

Allocating nodes

```
## Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2043
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   8560.232 7758.845 9533.943 9553.381 8560.232 7758.845
                                                               8561.750
                                                                        7454.006
##
   betaSIZE
   6643.765
## [1] "The difference of FOR_10 impact \n between BRCRdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
between BRCRdich cut samples in EPS has a
            probability of -95.12 %
               mode = -18.2
95.1% < 0 < 4.9%
                                                           mode = -4.04
                                                         67.2% < 0 < 32.8%
                                                              95% HDI
                   95% HDI
            -35.8
                                                                        11.4
                 -30
                         -10 0
                                                               -10 0
                                                                        10
                                                                            20
         -50
                                10 20
                                                      -30
                                                                                30
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 13
                                                            mode = -6.21
                2.3% < 0 < 97.7%
                                                         79.7% < 0 < 20.3%
                  95% HDI
                                                              95% HDI
                                                         21.5
            0.822
                            26.3
          -10
                0
                     10
                          20
                               30
                                   40
                                                      -30 -20 -10
                                                                      0
                                                                           10
                                                                               20
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
```

Graph information:

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
   8616.430 8759.813 8083.489 7978.716 8616.430 8759.813 8154.395 7133.433
##
   betaSIZE
   6650.278
## [1] "The difference of PRI impact \n between BRCRdich cut samples in ET3 has a\n probability of 5
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
between BRCRdich cut samples in ET3 has a
                                                                      \beta_2
             probability of 55.61 %
                mode = 0.102
44.4% < 0 < 55.6%
                                                               mode = -0.415
                                                             91.7% < 0 < 8.3%
                   95% HDI
                                                                  95% HDI
                                                            -1.08
                                                         -1.5 -1.0 -0.5
        -1.5
                  -0.5
                           0.5
                              1.0 1.5
                                                                                 0.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

mode = -0.518

96.2\% < 0 < 3.8\%

mode = -0.0902

55.2\% < 0 < 44.8\%

                    95% HDI:
                                                                 95%:HDI
               -1.0<del>5</del>
                                                        -0.791
                                                                            0.715
                              0:0464
           -1.5 -1.0 -0.5
                              0.0
                                     0.5
                                                          -1.0
                                                                     0.0
                                                                           0.5
                                                                                1.0
                  Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
      Allocating nodes
##
```

Graph information:

Observed stochastic nodes: 131

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7620.348 7820.497 8490.798 8258.456 7620.348
                                                      7820.497
                                                                8280.335
   betaSIZE
##
##
   6164.290
## [1] "The difference of INIT impact \n between BRCRdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
between BRCRdich cut samples in ET3 has a
            probability of 65.83 %
                 mode = 3.76
34.2% < 0 < 65.8%
                                                               mode = -6.5
                                                           88.8% < 0 < 11.2%
                    95% HDI
                                                                 95% HDI
              -15.6
                                                                            5.06
         -40
                -20
                       0
                             20
                                                            -20
                                                                  -10
                                   40
                                                      -30
                                                                                10
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -13.7
92.9% < 0 < 7.1%
                                                                 mode = -3.2
                                                                66% < 0 < 34%
                   95% HD1
                                                                  95% HDI
                    -20
                             0
                                                                         0
            -40
                                    20
                                                        -40
                                                                -20
                                                                                20
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

##

##

Graph information:

Observed stochastic nodes: 131

Unobserved stochastic nodes: 7

```
##
      Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
  7839.736 6725.686 8846.394 8553.793 7839.736 6725.686 7154.933 7161.607
  betaSIZE
## 7132.588
## [1] "The difference of EPI impact \n between BRCRdich cut samples in ET3 has a\n probability of 6
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                      \beta_2
between BRCRdich cut samples in ET3 has a
             probability of 67.59 %
                 mode = 0.16
32.4% < 0 < 67.6%

mode = -0.0867

65.4\% < 0 < 34.6\%
                                                                   95% HDI
                    95% HDI
                      0.899
                                                                              0.439
           -0.565
          -1.0
                      0.0
                           0.5
                                1.0
                                     1.5
                                                         -1.0
                                                                -0.5
                                                                        0.0
                                                                               0.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.243

83.7\% < 0 < 16.3\%

                                                             mode = -0.0301
62.3% < 0 < 37.7%
                   95% HDI
                                                                  95% HDI
          -0.828
                                                          -0.666
                                                                            0.445
                           0.0
            -1.0
                   -0.5
                                  0.5
                                                         -1.0
                                                              -0.5
                                                                       0.0
                                                                              0.5
                                                                                    1.0
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
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##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
```

##

##

Observed stochastic nodes: 131

Unobserved stochastic nodes: 7

Total graph size: 2046

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                           beta1[1]
                                                      beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8529.366 9000.000 9000.000 9000.000 8529.366
                                                      9000.000
                                                                7547.555
                                                                          6842.984
   betaSIZE
##
   7131.399
## [1] "The difference of STEW impact \n between BRCRdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between BRCRdich cut samples in ET3 has a
                                                                     \beta_2
            probability of -81.51 %
             mode = -1.39
81.5% < 0 < 18.5%
                                                            mode = -1.85
95.5% < 0 < 4.5%
                   95% HDI
                                                                95% HDI:
                               1.64
                                                            3.58
           -6
                      -2
                           0
                                 2
                                      4
                                                            -4
                                                                    -2
                                                                           0
                                                                                   2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -0.341
                                                                mode = 1.01
               58.2% < 0 < 41.8%
                                                               27.2% < 0 < 72.8%
                   95% HDI
                                                                95% HDI
                         0
                                                                    0
                                                                          2
                                                             -2
                                      4
                                                       -4
                                                                                4
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
```

##

Total graph size: 1963

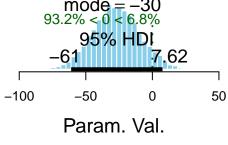
```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                         betaGPS
   8522.705 8677.494
                       9000.000 9000.000 8522.705 8677.494
                                                               8429.126
                                                                        7159.647
##
   betaSIZE
## 6780.207
## [1] "The difference of II 10 impact \n between BRCRdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
between BRCRdich cut samples in ET3 has a
            probability of -78.13 %
             mode = -24.9
78.1% < 0 < 21.9%
                                                            mode_{-} = -1.22
                                                          57.7% < 0 < 42.3%
                   95% HDI
                                                              95% HDI
                    -50
                          0
                              50
                                                            -50
                                                                    0
                                                                          50
           -150
                                  100
                                                    -100
                                                                                 100
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 26.8
                                                               mode_{-} = -2.75
                                                            61.2% < 0 < 38.8%
                  19.5% < 0 < 80.5%
                                                                95% HDI
                   95% HDI
                                                            63.3
                                                                           41.4
             -50
                     0
                          50
                                100
                                                        -100
                                                               -50
                                                                      0
                                                                            50
                 Param, Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
##
```

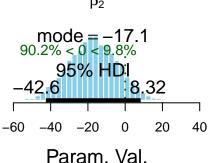
```
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
## Initializing model
```

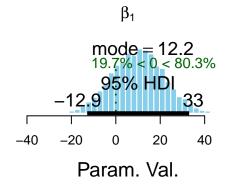
```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8595.524 7714.796 9000.000
                                  9000.000 8595.524 7714.796 7260.070
                                                                         7134.099
  betaSIZE
##
   7019.743
## [1] "The difference of FOR_10 impact \n between BRCRdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                    \beta_2
between BRCRdich cut samples in ET3 has a
            probability of -93.21 %

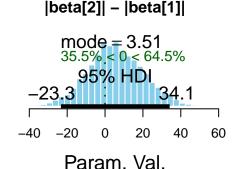
    \text{mode} = -30 \\
    93.2\% < 0 < 6.8\%

                                                             mode = -17.1
                                                          90.2% < 0 < 9.8%
                   95% HDI
                                                                95% HDI
```









```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                               betaGFI
  8616.051 8844.970 8803.710 8732.281 8616.051 8844.970 8331.694 7225.955
  betaSIZE
## 6641.906
## [1] "The difference of PRI impact \n between BRCRdich cut samples in ER3 has a\n probability of -
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between BRCRdich cut samples in ER3 has a
            probability of -55.34 %
             mode = -0.158
55.3% < 0 < 44.7%

    \text{mode} = -0.421

    93.5\% < 0 < 6.5\%

                 95%:HDI
                                                                  95% HDI:
          -0.898
                           0.767
         -1.5
                 -0.5
                          0.5
                                                     -2.0
                                                                -1.0
                                  1.5
                                                                           0.0
                                                                                0.5
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -0.397
                                                          mode = -0.0486
                                                            44.8% < 0 < 55.2%
               93.2% < 0 < 6.8%
                                                               95% HDI
                    95% HDI
                                                       -0.705
                                                                          0.818
             -0.963
          -1.5 -1.0 -0.5
                             0.0
                                   0.5
                                                        -1.0
                                                                   0.0 0.5 1.0 1.5
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta0FI

```
## 7495.061 8344.865 8808.773 8512.886 7495.061 8344.865 8382.615 6952.824
## betaSTZE
  6561.603
## [1] "The difference of INIT impact \n between BRCRdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between BRCRdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 65.28 %
                mode = 4.53
34.7% < 0 < 65.3%
                                                            mode = -8.52
87.9% < 0 < 12.1%
                  95% HDI
                                                                  95% HDI
            -16.8
             -20
                     0
                            20
                                   40
                                                         -30
                                                               -20
                                                                    -10
                                                                                 10
                                                               Param. Val.
                 Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

    \text{mode} = -1.76

    65.7\% < 0 < 34.3\%

                mode = -10.7
             91.5% < 0 < 8.5%
                                                                  95% HDI
                   95% HD1
                                10 20
           -40
                   -20
                             0
                                                      -40
                                                               -20
                                                                         0
                                                                             10
                                                                                20
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
## Initializing model
                                                                  betaGFI
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                            betaGPS
## 7370.677 5772.819 8992.952 8775.204 7370.677 5772.819 6240.055 7420.521
```

```
## betaSIZE
## 6443.982
## [1] "The difference of EPI impact \n between BRCRdich cut samples in ER3 has a\n probability of 6
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                     \beta_2
between BRCRdich cut samples in ER3 has a
             probability of 65.97 %
               mode = 0.138
34% < 0 < 66%
                                                             mode = -0.0375
                                                            59.5% < 0 < 40.5%
                  95% HDI
                                                                 95% HDI
           -0.559
                                                         -0.599
                                                                            0.474
          -1.0
                     0.0 0.5 1.0 1.5
                                                       -1.0
                                                              -0.5
                                                                      0.0
                                                                             0.5
                                                                                    1.0
                 Param, Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.195

78.6\% < 0 < 21.4\%

                                                           mode = -0.0226
58.8% < 0 < 41.2%
                                                                95% HDI
                   95% HDI
           -0.787
                                                         -0.611
                                                                          0.466
            -1.0
                   -0.5
                          0.0
                                                       -1.0
                                                             -0.5
                                                                     0.0
                                                                            0.5
                                 0.5
                                                                                   1.0
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
  8440.973 9000.000 9000.000 9000.000 8440.973 9000.000 8047.352
                                                                          7086.287
```

betaSIZE

```
## 6700.460
## [1] "The difference of STEW impact \n between BRCRdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                   \beta_2
between BRCRdich cut samples in ER3 has a
            probability of -79.53 %
             mode = -1.19
79.5% < 0 < 20.5%
                                                           mode = -1.45
                                                        94.2% < 0 < 5.8%
                   95% HDI
                                                              95% HDI
                 -4
                     -2
                               2
                                                                 -2
                                                                              2
            -6
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 0.477
29.5% < 0 < 70.5%
                     95%:HDI
                                                                95% HDI
                                                          -1.75
                                                                           2.88
              -4
                   -2
                          0
                                2
                                                            -2
                                                                   0
                                                                         2
                                                                               4
        -6
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1963
##
##
  Initializing model
                                                                          betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
   8098.100 8867.625 9000.000 8774.590 8098.100 8867.625
                                                               8811.146 7004.394
##
   betaSIZE
   6480.622
```

```
## [1] "The difference of II_10 impact \n between BRCRdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                     \beta_2
between BRCRdich cut samples in ER3 has a
            probability of -72.91 %
               mode = -27
72.9% < 0 < 27.1%
                                                                mode = 8.71
                                                              44.4% < 0 < 55.6%
                                                                 95% HDI
                     95% HDI
               -100
                                                                            55.1
       -200
                 -100
                            0
                                50
                                                    -100
                                                             -50
                                                                     0
                                                                            50
                                                                                    100
                                     100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 26.4
17.<u>1</u>% < 0 < 82.9%
                                                                 mode = -1.23
                                                                64% < 0 < 36%
                  95% HDI
                                                                  95% HDI
                             80.6
                                                                             40.3
           -50
                   0
                          50
                                100
                                                         -100
                                                                 -50
                                                                         0
                                                                               50
                 Param. Val.
                                                              Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2043
##
##
  Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                 betaGFI
  8689.968 7038.241 9000.000 9000.000
                                            8689.968
                                                      7038.241 7352.258
                                                                          6688.527
##
   betaSIZE
##
  6981.563
## [1] "The difference of FOR_10 impact \n between BRCRdich cut samples in ER3 has a\n probability of
```

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
between BRCRdich cut samples in ER3 has a
                                                                    \beta_2
            probability of -94.78 %
              mode = -30.2
94.8% < 0 < 5.2%
                                                               mode = -16
                                                          85.5% < 0 < 14.5%
                                                                 95% HDI
                   95% HDI:
        -100
                 -60
                         -20
                             0
                                 20 40
                                                        -60
                                                             -40
                                                                  -20
                                                                              20
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                   mode = 16.9
11.9% < 0 < 88.1%
                                                            mode = 0.322
                                                            49.3% < 0 < 50.7%
                    95% HDI
                                                               95% HDI
                                                          -28.9
              -8.86
        -40
             -20
                    0
                          20
                               40
                                     60
                                                     -60
                                                              -20
                                                                    0
                                                                        20
                                                                             40
                                                                                 60
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  8073.540 8848.049 9000.000 8806.321 8073.540 8848.049 8180.196
                                                                        6709.768
## betaSIZE
   6745.738
## [1] "The difference of PRI impact \n between BRCRdich cut samples in ER1 has a\n probability of 7
```

[1] "

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                       \beta_2
between BRCRdich cut samples in ER1 has a
             probability of 73.94 %
                mode = 0.287
26.1% < 0 < 73.9%
                                                              mode = -0.221
                                                            71.8\% < 0 < 28.2\%
                   95% HDI
                                                                  95% HDI
                                                             0.99
           -0.676
                      0
              _1
                                    2
                                                         -1.5
                                                                   -0.5
                                                                             0.5
                                                                                 1.0
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                            \begin{array}{c} mode = -0.234 \\ 69.8\% < 0 < 30.2\% \end{array}
               mode = -0.594
94.5% < 0 < 5.5%
                    95% HDI:
                                                                  95% HDI
                               0.121
                                                          -1.05
                                                                             0.604
        -2.0
                   -1.0
                              0.0
                                   0.5
                                                        -1.5
                                                                  -0.5 0.0
                                                                            0.5
                                                                                 1.0
                                                                Param. Val.
                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                             betaGPS
  8242.471 8047.460 8631.545 8526.583 8242.471 8047.460
##
                                                                  8459.985
                                                                            6954.684
## betaSIZE
  6583.021
## [1] "The difference of INIT impact \n between BRCRdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER1 explained by x= EPI cutted by BRCRdich"
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of INIT impact β_2 between BRCRdich cut samples in ER1 has a probability of 83.57 % mode = 12.2 16.4% < 0 < 83.6% mode = -6.43 75.2% < 0 < 24.8% 95% HDI 95% HDI 38.3 9.07 -40 -200 20 40 60 -40 -200 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -16.496.1% < 0 < 3.9% mode = -10.182.5% < 0 < 17.5% 95% HDI 95% HDI: **1**1.4 -20 0 -60-4020 -40 -200 20 40

Param. Val.

```
Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8004.323 6511.777
                       8814.721 8724.206 8004.323
                                                      6511.777
                                                                6442.427
                                                                          7192.478
   betaSIZE
   6725.475
## [1] "The difference of EPI impact \n between BRCRdich cut samples in ER1 has a\n probability of 8
## [1] " Analysis of Y= ER1 explained by x= STEW cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

Param. Val.

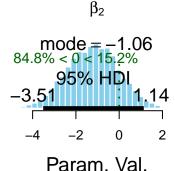
The difference of EPI impact between BRCRdich cut samples in ER1 has a β_2 probability of 83.93 % mode = 0.517 16.1% < 0 < 83.9% $mode_{=} 0.211$ 33.9% < 0 < 66.1% 95% HDI 95% HDI -0.461-0.4570.821 0 2 -1 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|

 $\text{mode} = -0.375 \\
 83.1\% < 0 < 16.9\%$ 95% HDI 95% HDI -0.991 0.35-0.79 0.588 -1.5 -1.0 -0.50.0 0.5 1.0 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val.

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8082.385 8828.303 9284.009 9254.223 8082.385 8828.303 7710.512 7317.299
##
  betaSIZE
##
   6873.652
  [1] "The difference of STEW impact \n between BRCRdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact between BRCRdich cut samples in ER1 has a probability of 87.04 %

mode = 2.04 13% < 0 < 87% 95% HDI -1.71: 5.77 -4 -2 0 2 4 6 8 10



Param. Val.

 β_1 mode = -3.14
99% < 0 < 1%
95% HDI:
-6.2
-0:395
-6 -4 -2 0 2

95% HDI -5.32 : 1.48 -8 -6 -4 -2 0 2 4

mode = -1.9586.7% < 0 < 13.3%

|beta[2]| - |beta[1]|

Param. Val.

-8

500): Unused variable "n" in data

Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8482.766 8766.436 9038.899 9013.520 8482.766 8766.436
                                                                9000.000 7606.934
## betaSIZE
  6618.148
## [1] "The difference of II_10 impact \n between BRCRdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by BRCRdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of II_10 impact β_2 between BRCRdich cut samples in ER1 has a probability of -62.29 % mode = -20.1 62.3% < 0 < 37.7% mode = 11.2 32.6% < 0 < 67.4% 95% HDI 95% HDI -200-1000 100 -100 -50 0 50 100 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = 30.3 \\ 19.6\% < 0 < 80.4\% \end{array}$ mode = -2.1259.7% < 0 < 40.3% 95% HDI 95% HDI **-36.7** -75**.5 5**6.1 -10050 100 -1000 50 100 150 200 -2000 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2043 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 7878.597 7255.121 9000.000 8837.935 7878.597 7255.121 7410.853 6867.083

[1] " Analysis of Y= ER explained by x= PRI cutted by BRCRdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of FOR_10 impact \n between BRCRdich cut samples in ER1 has a\n probability of

betaSIZE ## 6821.996

500): Unused variable "n" in data

[1] "

β_2 between BRCRdich cut samples in ER1 has a probability of 69.19 % mode = 8.14 30.8% < 0 < 69.2% mode = 9.3331.6% < 0 < 68.4% 95% HDI 95% HDI **5**6.6 -500 50 -400 20 40 60 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -3.22mode = 1.09 58.4% < **0** < 41.6% 42.7% < 0 < 57.3% 95% HDI 95% HDI 33.4 20 -20 20 -60-20 0 40 -600 40 60 60 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2053 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS

8699.316

[1] "The difference of PRI impact \n between BRCRdich cut samples in ER has a\n probability of 87

8030.894

7147.257

The difference of FOR_10 impact

9726.449 8699.316 9000.000 8844.957 9726.449

500): Unused variable "n" in data

[1] " Analysis of Y= ER explained by x= INIT cutted by BRCRdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

betaSIZE ## 6765.154

[1] "

The difference of PRI impact β_2 between BRCRdich cut samples in ER has a probability of 87.79 % mode = 0.122 12.2% < 0 < 87.8% mode = 0.040722.1% < 0 < 77.9% 95% HDI 95% HDI 0.304 -0.0818 0.197 -0.20.0 0.2 0.4 -0.20.0 0.1 0.2 0.3 0.4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0013449.2% < 0 < 50.8% 95% HDI 95% HDI -0.18**1 0.**0669 -0.137 0.146 -0.3 -0.2 -0.1-0.20.0 0.1 0.2 0.3 0.0 0.1 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2053 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS

[1] "The difference of INIT impact \n between BRCRdich cut samples in ER has a\n probability of 6
[1] " ______ "
[1] " Analysis of Y= ER explained by x= EPI cutted by BRCRdich"
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
500): Unused variable "n" in data

7882.668 8066.254 9113.297 8911.946 7882.668 8066.254 7621.965 7610.374

betaSIZE ## 6720.132

The difference of INIT impact β_2 between BRCRdich cut samples in ER has a probability of 62.56 % mode = 0.877mode = -0.71137.4% < 0 < 62.6% 69% < 0 < 31% 95% HDI 95% HDI -5 0 5 10 -6 -4 -2 0 2 4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.208mode = -1.61 78.9% < 0 < 21.1%62.7% < 0 < 37.3% 95% HDI 95% HDI 2.07 -8 -6 -4 -2 2 0 6 -2 0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2046 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8173.500 6289.660 8122.122 8816.036 8173.500 6289.660 6596.179 7077.129 ## betaSIZE ## 6499.960

[1] " Analysis of Y= ER explained by x= STEW cutted by BRCRdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "

500): Unused variable "n" in data

[1] "The difference of EPI impact \n between BRCRdich cut samples in ER has a\n probability of 89

The difference of EPI impact β_2 between BRCRdich cut samples in ER has a probability of 89.42 % mode = 0.105 10.6% < 0 < 89.4% mode = -0.018856.9% < 0 < 43.1% 95%:HDI 95% HDI 0.263-0.0574-0.1190.11-0.1 0.0 0.1 0.2 0.3 0.4 -0.2 -0.10.0 0.1 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0724 83.7% < 0 < 16.3% mode = -0.11696.9% < 0 < 3.1% 95% HDI 95% HDI: -0.2010.00898 0.0637 -0.3 -0.2 -0.10.0 0.1 -0.3 -0.2 -0.10.0 0.1 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2046 ## ## Initializing model

Graph information:

Observed stochastic nodes: 131

Unobserved stochastic nodes: 7

Total graph size: 2046

##

Initializing model

##

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS

8189.244 9760.034 9180.826 8519.248 8189.244 9760.034 7893.412 7786.553

betaSIZE

6822.672

[1] "The difference of STEW impact \n between BRCRdich cut samples in ER has a\n probability of 7

[1] " ______ "

[1] " Analysis of Y= ER explained by x= II_10 cutted by BRCRdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

The difference of STEW impact β_2 between BRCRdich cut samples in ER has a probability of 72.62 % mode = 0.182 27.4% < 0 < 72.6% mode = 0.08634.3% < 0 < 65.7% 95% HDI 95% HDI 0.888 -0.3660.486-1.00.0 0.5 1.0 1.5 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.102 68.1% < 0 < 31.9% mode = 0.0021457.5% < 0 < 42.5% 95% HDI 95% HDI -0.5170.4 0.0 -0.5-1.0-0.50.5 -1.00.0 0.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1963 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8533.060 9000.000 10332.452 9899.403 8533.060 9000.000 8406.504 6804.872 ## betaSIZE ## 6624.093 ## [1] "The difference of II_10 impact \n between BRCRdich cut samples in ER has a\n probability of

[1] " Analysis of Y= ER explained by x= FOR_10 cutted by BRCRdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "

500): Unused variable "n" in data

mode = -12.2 94.7% < 0 < 5.3% mode = 1.9837.9% < 0 < 62.1% 95% HDI: 95% HDI 2.47 -40-20 0 10 -20-10 0 10 20 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 15.5mode = -10.192.7% < 0 < 7.3% 0.6% < 0 < 99.4% 95% HDI 95% HDI: 3.53 26.8 0 10 20 30 -30 -20 -10 0 10 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 7

 β_2

betaGPS

7538.065

betaGFI

7995.745 7745.384

The difference of II_10 impact

Total graph size: 2043

Initializing model

alpha1[1] alpha1[2]

betaSIZE 6937.100

8079.451 7995.745

##

##

##

between BRCRdich cut samples in ER has a probability of -94.71 %

beta0[1] beta0[2] beta1[1] beta1[2]

[1] "The difference of FOR_10 impact \n between BRCRdich cut samples in ER has a\n probability of

8663.417 8729.021 8079.451

The difference of FOR_10 impact β_2 between BRCRdich cut samples in ER has a probability of -63.82 % mode = -1.3963.8% < 0 < 36.2% mode = 1.3632.6% < 0 < 67.4% 95% HDI 95% HDI 6.4 7.15 -15 -5 0 5 10 15 -10 -5 0 5 10 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 2.96 15% < 0 < 85%mode = -0.3857.5% < **0** < 42.5% 95%:HDI 95% HDI -6.16 5.21

-10

-5

0

Param. Val.

5

10

Binomial Y

-5

0

5

Param. Val.

10

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by BRCRdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
      Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                              betaGPS
  5451.658 5634.012 5372.786 4999.407 5451.658 5634.012 5405.905 4441.493
   betaSIZE
## 4497.956
## [1] "The difference of PRI impact \n between BRCRdich cut samples in CP has a\n probability of
         The difference of PRI impact
                                                                       \beta_2
between BRCRdich cut samples in CP has a
            probability of -55.99 %
              \begin{array}{c} mode = -0.000327 \\ 56\% < 0 < 44\% \end{array}
                                                              mode = 0.0134
                                                                14.6% < 0 < 85.4%
                    95% HDI
                                                                  95% HDI
          -0.0355
                               0.0287
                                                         -0.0106
                                                                            0.0381
         -0.06
                   -0.02
                             0.02
                                       0.06
                                                          -0.02
                                                                       0.02
                                                                             0.04
                                                                                   0.06
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
               \begin{array}{c} mode = 0.0138 \\ 7.4\% < 0 < 92.6\% \end{array}
                                                           mode = -1.16e - 05
                                                             54.6% < 0 < 45.4%
                   :95% HDI
                                                                 95%:HDI
                                                        -0.0287
         -0.00618
                              0.0358
                                                                            0.0255
                 0.00
         -0.02
                         0.02
                                0.04
                                                         -0.04
                                                                     0.00 0.02 0.04
                  Param. Val.
                                                                Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by BRCRdich"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 2039
##
```

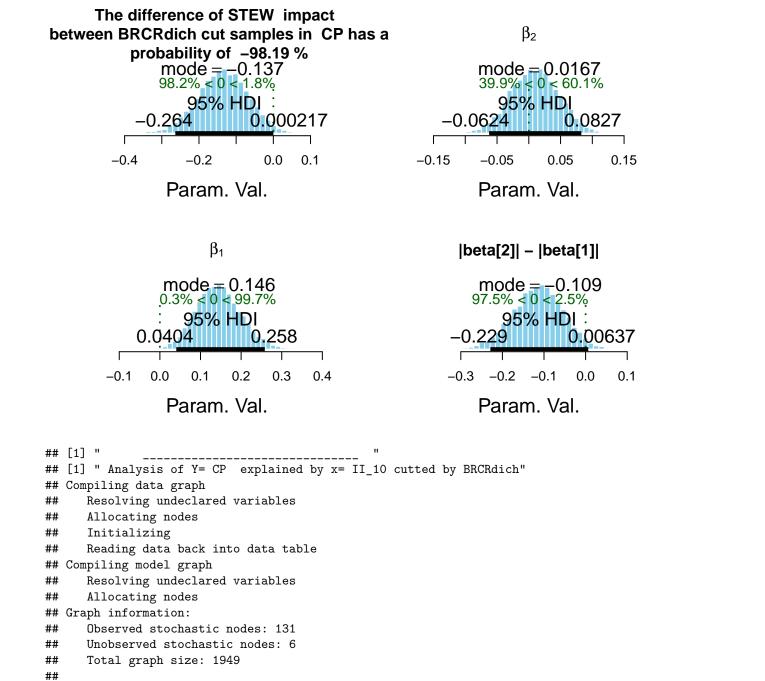
Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                              betaGFI
                                                                          betaGPS
  4617.164 5374.142 4991.659 4653.395 4617.164 5374.142 5190.389 4457.642
## betaSIZE
## 4148.469
## [1] "The difference of INIT impact \n between BRCRdich cut samples in CP has a\n probability of -
        The difference of INIT impact
between BRCRdich cut samples in CP has a
                                                                    \beta_2
            probability of -74.21 %
               mode = -0.336
74.2% < 0 < 25.8%
                                                            mode = 0.0685
                                                            44.1% < 0 < 55.9%
                                                               95% HDI
                     95% HDI
                                                       -0.446
                -1.02 : 0.564
                                                                         0.514
            -2
                   -1
                                    1
                                                          -0.5
                                                                  0.0
                                                                          0.5
                                                                                 1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 0.333
17.6% < 0 < 82.4%
                                                           mode = -0.0389
69.5% < 0 < 30.5%
                                                                95% HDI
                   95% HDI
                              0.955
                                                        -0.773
        -1.0 -0.5
                   0.0
                         0.5
                                                                            0.5
                               1.0
                                     1.5
                                                         -1.0 -0.5
                                                                      0.0
                                                                                  1.0
                                                             Param. Val.
                 Param. Val.
## [1] " Analysis of Y= CP explained by x= EPI cutted by BRCRdich"
  Compiling data graph
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
     Total graph size: 2032
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
```

5006.324 3652.842 6004.377 5323.608 5006.324 3652.842 4026.320 4308.226

```
## [1] "The difference of EPI impact \n between BRCRdich cut samples in CP has a\n probability of -9
        The difference of EPI impact
                                                                   \beta_2
between BRCRdich cut samples in CP has a
            probability of -96.49 %
               mode = -0.0257
96.5% < 0 < 3.5%
                                                          mode = -0.00533
                                                           67.4\% < 0 < 32.6\%
                                                                95% HDI
                   95% HDI:
          -0.0556
                             0.00284
                                                        -0.025
                                                                          0.016
                  -0.04
                                                            -0.02
                                                                    0.00
        -0.08
                             0.00 0.02
                                                     -0.04
                                                                            0.02
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                          mode = -0.0155
84.6% < 0 < 15.4%
               mode = 0.0236
                2.1% < 0 < 97.9%
                  95% HDI
                                                               95% HDI
                                                        -0.0401
                                                                     0.0123
                            0.0448
       -0.02 0.00
                    0.02
                           0.04
                                 0.06
                                                     -0.06
                                                                 -0.02 0.00 0.02
                 Param. Val.
                                                             Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by BRCRdich"
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
     Reading data back into data table
  Compiling model graph
##
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
     Total graph size: 2032
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                          betaGPS
                                                                betaGFI
## 5169.784 5315.409 5582.587 5433.710 5169.784 5315.409 5170.072 4736.469
## betaSIZE
## 4702.960
## [1] "The difference of STEW impact \n between BRCRdich cut samples in CP has a\n probability of -
```

betaSIZE ## 4422.105



betaSIZE
4273.927
[1] "The difference of II_10 impact \n between BRCRdich cut samples in CP has a\n probability of

betaGFI

betaGPS

5215.346 5296.977 5844.750 5057.332 5215.346 5296.977 5401.002 4416.721

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

Initializing model

β_2 between BRCRdich cut samples in CP has a probability of 58.7 % mode = 0.0625 41.3% < 0 < 58.7% mode = 1.1611% < 0 < 89% 95% HDI 95% HDI 3.66 3.72 -0.815-4 -2 0 2 4 6 -2 0 2 4 6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.936 \\ 18\% < 0 < 82\% \end{array}$ $\begin{array}{c} mode = -0.00199 \\ 42.4\% < 0 < 57.6\% \end{array}$ 95% HDI 95% HDI **−1.06** : -2.1**6** -2 2 -2 2 4 0 6 -4 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by BRCRdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6

The difference of II_10 impact

##

##

Total graph size: 2029

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

5128.918 4770.411 5463.845 5514.000 5128.918 4770.411 4839.084

Initializing model

betaSIZE ## 4902.379

[1] "The difference of FOR_10 impact \n between BRCRdich cut samples in CP has a\n probability of

betaGFI

betaGPS

4705.479

β_2 between BRCRdich cut samples in CP has a probability of -90.16 % mode = -0.901 90.2% < 0 < 9.8% mode = -0.4478% < 0 < 22% 95% HDI 95% HDI 0.429 0.602 -3 -2 -1 0 1 2 -2 -1 0 1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.431mode = 0.037514<u>.5% < 0 < 85.5</u>% 52.3% < 0 < 47.7% 95% HDI 95% HDI -1.071.05 -0.365-1.02.0 -2 0 2 0.0 1.0 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by BRCRdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes Graph information: Observed stochastic nodes: 131

The difference of FOR_10 impact

##

##

##

Unobserved stochastic nodes: 6

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5545.048 5310.853 5536.100 5078.445 5545.048 5310.853 5180.734

Total graph size: 2039

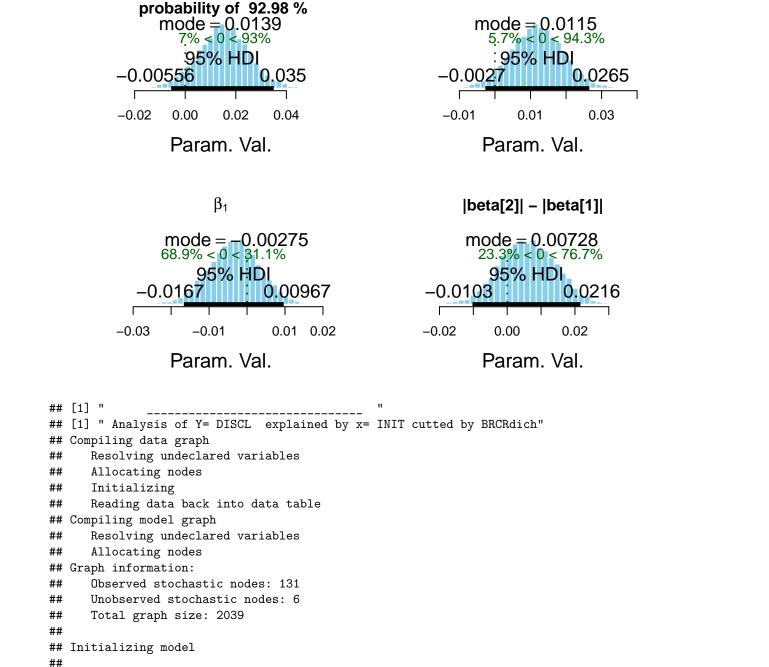
Initializing model

betaSIZE ## 4616.849 beta1[2]

betaGFI

betaGPS

4838.121



 β_2

betaGFI

betaGPS

The difference of PRI impact

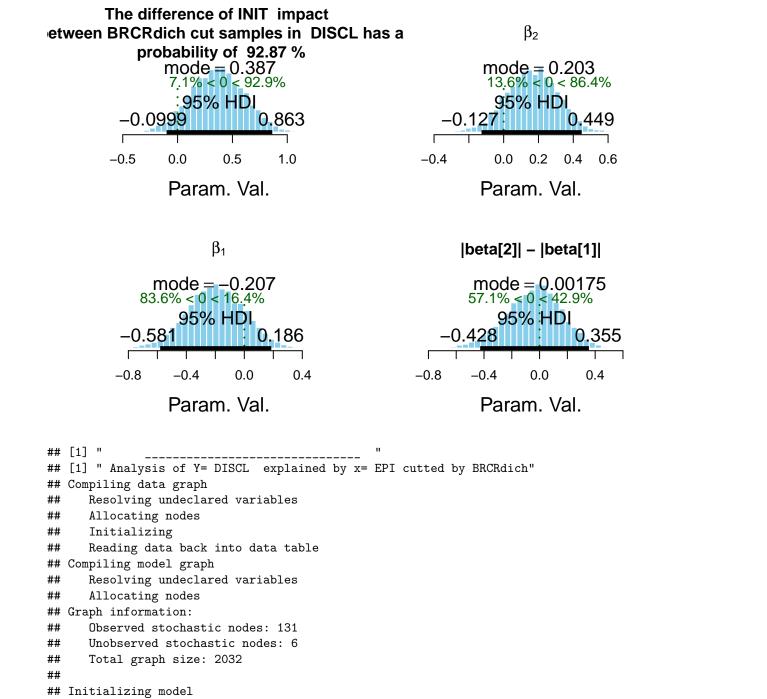
etween BRCRdich cut samples in DISCL has a

[1] "The difference of INIT impact \n between BRCRdich cut samples in DISCL has a\n probability of

4873.573 4968.424 4992.764 4781.265 4873.573 4968.424 5033.271 4187.303

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4267.747



[1] "The difference of EPI impact \n between BRCRdich cut samples in DISCL has a\n probability of

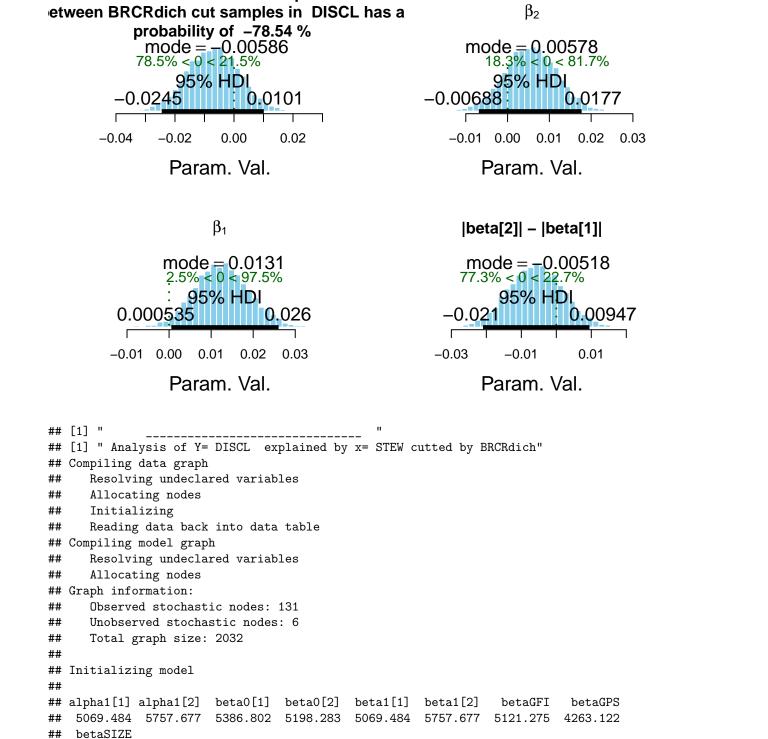
5139.033 3650.814 5537.766 5075.287 5139.033 3650.814 4379.945 4765.589

betaGFI

betaGPS

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

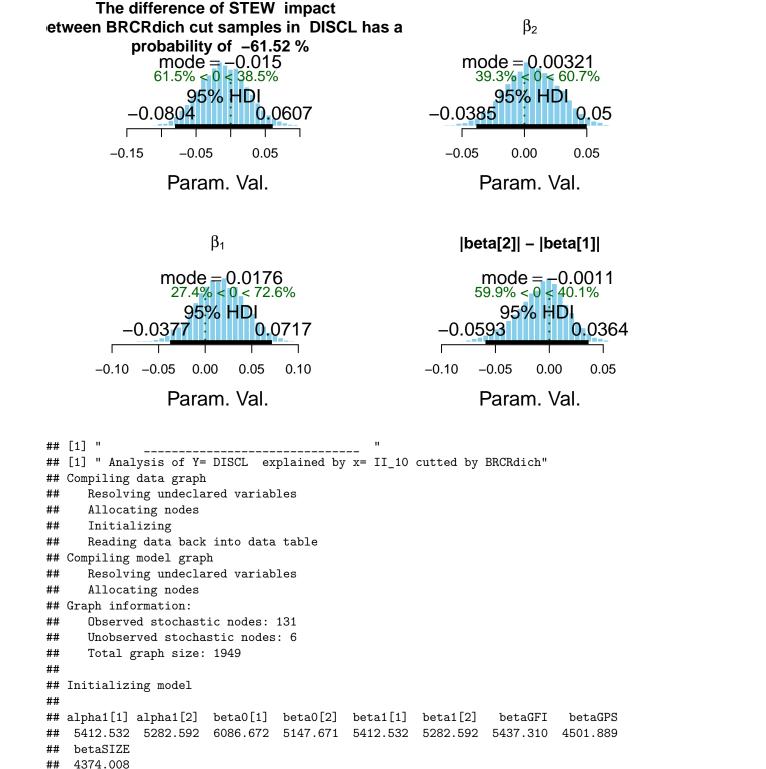
betaSIZE ## 4286.978



The difference of EPI impact

4607.242

[1] "The difference of STEW impact \n between BRCRdich cut samples in DISCL has a\n probability of



[1] "The difference of II_10 impact \n between BRCRdich cut samples in DISCL has a\n probability o

β_2 etween BRCRdich cut samples in DISCL has a probability of 92.01 % mode = 1.24 8% < 0 < 92% mode = 0.9236.9% < 0 < 93.1% 95% HDI 95% HDI -2 -1 0 1 2 3 -1 0 1 2 3 4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.294 67.5% < 0 < 32.5% mode = 0.26425.7% < 0 < 74.3% 95% HDI 95% HDI -0.9580.912 1.86 -2 0 2 -2 2 -1 0 3 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by BRCRdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6 ## Total graph size: 2029 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 4933.921 4839.868 5019.398 5234.828 4933.921 4839.868 4552.333 4824.603 betaSIZE

The difference of II_10 impact

##

4521.920

[1] "The difference of FOR_10 impact \n between BRCRdich cut samples in DISCL has a\n probability

The difference of FOR_10 impact β_2 etween BRCRdich cut samples in DISCL has a probability of 59.82 % mode = 0.118 40.2% < 0 < 59.8% 95% HDI :95% HDI 0.873 1.04 -1.5-0.50.5 1.0 1.5 -0.50.0 0.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.292 \\ 11\% < 0 < 89\% \end{array}$ 95% HDI 95% HDI 0.866 -0.20**7** -0.50.5 -1.0 -0.5 0.00.5 0.0 1.0 1.5 1.0 1.5

Param. Val.

STAB-Separated Bayesian models

Param. Val.

Quantitative Y

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2053
##
##
  Initializing model
##
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                      beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8594.271 8286.893 9000.000 9000.000
                                           8594.271
                                                      8286.893
                                                                8653.473
                                                                          7209.963
   betaSIZE
##
   6961.004
## [1] "The difference of PRI impact \n between STABdich cut samples in EPS has a\n probability of -
## [1] " Analysis of Y= EPS explained by x= INIT cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between STABdich cut samples in EPS has a
            probability of -81.83 %
             mode = -0.219
81.8% < 0 < 18.2%
                                                              mode = 0.0986
                                                                26.5% < 0 < 73.5%
                   95% HDI
                                                                 95% HDI
                                                                          0.392
          -1.0
                  -0.5
                          0.0
                                  0.5
                                                      -0.6
                                                               -0.2
                                                                        0.2
                                                                                0.6
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                           mode = -0.198
79.8% < 0 < 20.2%
                mode = 0.335
                 3.6% < 0 < 96.4%
                                                                 95% HDI
                   95% HDI
         -0.00853
                             0.685
                                                         -0.546
       -0.4
                0.0
                        0.4
                                 8.0
                                                       -0.8
                                                                -0.4
                                                                        0.0
                                                                                0.4
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
```

##

Allocating nodes

Initializing

```
Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                             betaGPS
                                                                   betaGFI
    8542.191 8335.752 8473.384 8373.230 8542.191 8335.752
                                                                  8617.331
                                                                           7048.182
##
   betaSIZE
##
   6619.714
## [1] "The difference of INIT impact \n between STABdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= EPI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
between STABdich cut samples in EPS has a
             probability of 69.67 %
                  modé = 3.03
30.3% < 0 < 69.7%

mode = -0.877

61.1\% < 0 < 38.9\%

                    95% HDI
                                                                  95% HDI
                       0
                             10
                                                      -15 -10
                                                                         0
         -20
               -10
                                   20
                                                                  -5
                                                                                    10
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
            mode = -5.23
79.8\% < 0 < 20.2\%
                                                              mode = -0.445
67.5% < 0 < 32.5%
                                                                   95% HDI
                   95% HDI
                                                                             6.09
                  -10
         -20
                                  10
                                                        -20
                                                                -10
                 Param. Val.
                                                                Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
```

##

##

Allocating nodes

Reading data back into data table

Initializing

```
## Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
     Unobserved stochastic nodes: 7
##
     Total graph size: 2046
##
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                          beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  7058.272 6695.926
                       8424.883 8054.034 7058.272 6695.926
                                                              6519.400
                                                                        6731.811
##
   betaSIZE
  6465.893
## [1] "The difference of EPI impact \n between STABdich cut samples in EPS has a\n probability of 7
## [1] " Analysis of Y= EPS explained by x= STEW cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between STABdich cut samples in EPS has a
                                                                  \beta_2
             probability of 71.9 %
                 mode = 0.141
28.1% < 0 < 71.9%
                                                          mode = 0.0135
                                                           48.3% < 0 < 51.7%
                   95% HDI
                                                              95% HDI
           -0.288
                                                       -0.326
           -0.5
                     0.0
                              0.5
                                                     -0.6
                                                             -0.2
                                                                      0.2
                                                                               0.6
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                          mode = 0.00033
               mode = -0.116
             79.9% < 0 < 20.1%
                                                          53.9% < 0 < 46.1%
                  95% HDI
                                                             95%:HDI
                                                        0.307 0.273
         -0.6 -0.4 -0.2 0.0
                               0.2
                                                    -0.6
                                                             -0.2
                                    0.4
                                                                      0.2 0.4 0.6
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
```

##

Initializing

Compiling model graph

Reading data back into data table

```
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 2046
##
##
## Initializing model
##
                                beta0[2] beta1[1] beta1[2]
  alpha1[1] alpha1[2]
                       beta0[1]
                                                               betaGFI
                                                                         betaGPS
   8813.108 9280.312
                       9000.000
                                9000.000 8813.108
                                                    9280.312
                                                              8636.195
                                                                        7397.209
   betaSIZE
##
   6807.505
##
  [1] "The difference of STEW impact \n between STABdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                  \beta_2
between STABdich cut samples in EPS has a
             probability of 65.9 %
                mode = 0.391
34.1% < 0 < 65.9%
                                                            mode = 0.592
                                                             17.7% < 0 < 82.3%
                  95% HDI
                                                              95% HDI
                             2.04
                                                       -0.632
                                                                         1.76
        -3 -2 -1
                     0
                         1
                              2
                                                    -2
                                                         _1
                                                                0
                                                                     1
                                                                           2
                                                                                3
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
                                                         mode = 0.148
                 35.7% < 0 < 64.3%
                                                              95% HDI
                    95% HDI
             -0.976
                                                                       1.43
                                                         -1.02
           -2
                       0
                                  2
                                                       -2
                                                            -1
                                                                 0
                                                                                 3
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
  Compiling model graph
##
```

Resolving undeclared variables

```
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                  beta0[2]
                                            beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   9000.000 7834.529
                       9160.810 9090.630
                                           9000.000 7834.529 7585.018
                                                                          6890.124
   betaSIZE
   6887.460
##
## [1] "The difference of II_10 impact \n between STABdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
between STABdich cut samples in EPS has a
            probability of -69.6 %
            mode = -12.1
69.6% < 0 < 30.4%
                                                              mode = 0.447
                                                             52.7% < 0 < 47.3%
                 95% HDI
                                                                 95%: HDI
            -52.5
                             30.1
               -50
                        0
                                 50
                                                     -60 -40
                                                               -20
                                                                      0
                                                                          20
                                                                               40
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                 mode = 7.1
25.3% < 0 < 74.7%
                                                              mode = 0.179
                                                            54.7% < 0 < 45.3%
                                                                95% HDI
                  95% HDI
                             37.3
          -40
                     0
                         20
                              40
                                                     -60 -40 -20
                                                                     0
                                                                          20
                                                                               40
                                   60
                 Param. Val.
                                                              Param. Val.
##
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
```

##

##

Compiling model graph

Allocating nodes

Resolving undeclared variables

```
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
      Total graph size: 2044
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8117.376 8294.770 8546.906 8818.226 8117.376 8294.770 7507.545
                                                                          6919.110
   betaSIZE
   7349.222
## [1] "The difference of FOR_10 impact \n between STABdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                    \beta_2
between STABdich cut samples in EPS has a
            probability of 72.69 %
                 modé = 7.14
27.3% < 0 < 72.7%
                                                               mode = 9.56

10\% < 0 < 90\%
                  95% HDI
                                                                 95% HDI
                             24.6
                                                                           21.7
            -20
                     0
                            20
                                                     -20 -10
                                                                 0
                                                                      10
                                                                           20
                                    40
                                                                                30
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                  mode = 4.44
                                                             mode = 1.56
                  35% < 0 < 65%
                                                             33.5% < 0 < 66.5%
                    95% HDI
                                                                95% HDI
             -10.8
                               17.2
                                                                           18.1
           -20
                -10
                       0
                            10
                                 20
                                      30
                                                       -20 -10
                                                                   0
                                                                        10
                                                                             20
                                                                                  30
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
```

```
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
      Total graph size: 2053
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                    betaGFI
                                                                               betaGPS
  9160.285 7817.448 9000.000 9000.000 9160.285 7817.448 8619.228 7457.191
##
    betaSIZE
  6579.758
## [1] "The difference of PRI impact \n between STABdich cut samples in ET3 has a\n probability of 7
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                        \beta_2
between STABdich cut samples in ET3 has a
             probability of 71.89 %
                 mode = 0.29
28.1% < 0 < 71.9%

    \text{mode} = -0.364 \\
    89.7\% < 0 < 10.3\%

                   95% HDI
                                                                     95% HDI
                                                              -0.932
                      0
                                     2
              _1
                                                          -1.5 -1.0 -0.5
                                                                                     0.5
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|
                                                           \begin{array}{l} mode = -0.254 \\ 71.5\% < 0 < 28.5\% \end{array}
                mode = -0.62
97.4% < 0 < 2.6%
                    95% HDI:
                                                                  95% HDI
                                                          -0.974
                              0.00759
                                                                             0.572
            -1.5 -1.0 -0.5
                               0.0
                                      0.5
                                                        -1.5
                                                                  -0.5
                                                                             0.5 1.0 1.5
                  Param. Val.
                                                                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
```

##

Resolving undeclared variables

Observed stochastic nodes: 131

Allocating nodes

Graph information:

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2052
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8437.819 8065.079 8702.309 8421.778 8437.819 8065.079 8703.170
   betaSIZE
##
   6455.653
## [1] "The difference of INIT impact \n between STABdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between STABdich cut samples in ET3 has a
                                                                     \beta_2
             probability of 83.41 %
                 mode = 10.4
16.6% < 0 < 83.4%
                                                              mode = -5.43
                                                              83% < 0 < 17%
                   95% HDI
                                                                 95% HDI
             -10.8
                                                                            6.5
             -20
                    0
                          20
                                                            -20 -10
                                                                         0
                                 40
                                                       -30
                                                                               10
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -15.6
97.1% < 0 < 2.9%
                                                           mode = -10.3
82.9% < 0 < 17.1%
                   95% HDI:
                                                                95% HDI
                              0.909
        -50
                 -30
                          -10
                                   10
                                                       -40
                                                                -20
                                                                             10
                                                                                 20
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
##
```

Unobserved stochastic nodes: 7

```
##
     Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  7272.160 6718.120 8661.887 8184.123 7272.160 6718.120
                                                              6452.241 6922.907
  betaSIZE
## 6505.635
## [1] "The difference of EPI impact \n between STABdich cut samples in ET3 has a\n probability of 6
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                  \beta_2
between STABdich cut samples in ET3 has a
            probability of 64.32 %
                mode = 0.151
35.7% < 0 < 64.3%
                                                           mode = -0.112
63.5% < 0 < 36.5%
                                                                95% HDI
                   95% HDI
                    0.903
                                                         -0.701 0.499
           -0.595
                                                    -1.5 -1.0 -0.5 0.0
           -1.0
                     0.0
                          0.5
                               1.0
                                   1.5
                                                                          0.5
                                                                                1.0
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = -0.293
                                                         mode = 0.00733
                                                        54.4% < 0 < 45.6%
           83.6% < 0 < 16.4%
                  95% HDI
                                                            95%:HDI
                                                     -0.583
                                                                      0.504
                         0.0
                                                    -1.0 -0.5
           -1.0
                 -0.5
                               0.5
                                                                0.0
                                                                      0.5
                                                                            1.0
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
```

##

##

Observed stochastic nodes: 131

Unobserved stochastic nodes: 7

Total graph size: 2046

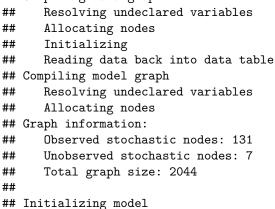
```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                       beta1[2]
                                                                   betaGFI
                                                                             betaGPS
  9188.565 7996.364
                        8803.148 9141.301 9188.565
                                                       7996.364
                                                                  8208.826
                                                                            6320.846
   betaSIZE
##
  7077.707
## [1] "The difference of STEW impact \n between STABdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between STABdich cut samples in ET3 has a
                                                                      \beta_2
             probability of 64.41 %
                mode = 0.433
35.6% < 0 < 64.4%
                                                            mode = -0.809
77.1% < 0 < 22.9%
                   95% HDI
                                                                  95% HDI
                 -2
                      0
                           2
                                     6
                                                                  -2
                                                                          0
                                                                                 2
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

    \text{mode} = -1.32 \\
    90.4\% < 0 < 9.6\%

                                                                 mode = -0.24
                                                              62.4% < 0 < 37.6%
                    95% HD1
                                                                   95% HDI
                       -2
                                     2
                                                                  -2
                                                                         0
                                                                                2
         -6
                                                                                      4
                  Param. Val.
                                                                Param. Val.
```

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
```

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   9000.000 7990.674
                       9004.672 8910.344 9000.000
                                                     7990.674
                                                               7556.258
                                                                         7065.178
   betaSIZE
  5917.469
##
## [1] "The difference of II 10 impact \n between STABdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
between STABdich cut samples in ET3 has a
            probability of 65.89 %
                 mode = 16.7
34.1% < 0 < 65.9%
                                                              mode = 18.1
                                                               28% < 0 < 72%
                   95% HDI
                                                                95% HDI
                 -50 0
                          50 100
                                                           -50
                                                                  0
                                                                        50
        -150
                                                    -100
                                                                              100
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = 5.47
48.7% < 0 < 51.3%
                                                           mode = 0.585
                                                           42.4% < 0 < 57.6%
                   95% HDI
                                                              95% HDI
                              51.4
                                                          42.8
                                                                          55.1
       -100
               -50
                              50
                                     100
                                                          -50
                                                                         50
                                                                                100
                 Param, Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
```



```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  8055.145 9000.000 8652.061 8773.225 8055.145 9000.000 7523.734
                                                                        6849.089
  betaSIZE
##
   7054.181
## [1] "The difference of FOR_10 impact \n between STABdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                  \beta_2
between STABdich cut samples in ET3 has a
            probability of -61.57 %
                mode = -6.5
                                                         mode = -4.71
64.1% < 0 < 35.9%
              61.6% < 0 < 38.4%
                   95% HDI
                                                              95% HDI
                                                                         19.8
           -60
                   -20
                        0
                            20
                                40
                                    60
                                                        -40
                                                             -20
                                                                    0
                                                                         20
                                                                               40
                 Param. Val.
                                                            Param. Val.
```



```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI
  8889.747 8263.417 9000.000 8832.854 8889.747 8263.417 8614.345
                                                                        7317.936
## betaSIZE
## 6858.613
## [1] "The difference of PRI impact \n between STABdich cut samples in ER3 has a\n probability of 7
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
between STABdich cut samples in ER3 has a
            probability of 70.89 %
                mode = 0.23
29.1% < 0 < 70.9%
                                                          mode = -0.416
88.5% < 0 < 11.5%
                  95% HDI
                                                                95% HDI
          -0.578
                    0.0 0.5 1.0 1.5
                                                      -1.5 -1.0 -0.5
                                                                         0.0
          -1.0
                                                                               0.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = -0.552
                                                           mode = -0.224
                                                          70.6% < 0 < 29.4%
               96.6% < 0 < 3.4%
                    95% HDI:
                                                               95% HDI
                                                       -0.971
             -1.5 -1.0 -0.5 0.0
                                                      -1.5
                                                                -0.5 0.0 0.5 1.0
                                   0.5
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 2052
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI

```
## 8735.675 8795.959 8637.203 8424.458 8735.675 8795.959 9347.398 6864.961
## betaSTZE
  6395.525
## [1] "The difference of INIT impact \n between STABdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between STABdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 78.64 %
                   mode = 9.49
21.4% < 0 < 78.6%
                                                              mode = -6.56
                                                              84% < 0 < 16%
                    95% HDI
                                                                 95% HDI
              -20
                      0
                             20
                                                            -20
                                    40
                                                      -30
                                                                  -10
                                                                               10
                 Param. Val.
                                                              Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
              mode = -14.8
95.2% < 0 < 4.8%
                                                           mode = -5.52
78.6\% < 0 < 21.4\%
                   95% HDI:
                                                                 95% HDI
                                                                            10.7
                             2.68
           -40
                    -20
                             0
                                 10
                                    20
                                                       -40
                                                               -20
                                                                         0
                                                                             10 20
                 Param. Val.
                                                              Param, Val.
## Compiling data graph
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 2046
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
```

7951.543 6758.996 9000.000 8559.131 7951.543 6758.996 6372.872 7111.807

```
## betaSIZE
## 6183.943
## [1] "The difference of EPI impact \n between STABdich cut samples in ER3 has a\n probability of -
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                    \beta_2
between STABdich cut samples in ER3 has a
            probability of -50.56 %
             mode = 0.0165
50.6% < 0 < 49.4%
                                                           mode = -0.0914
                                                            69% < 0 < 31%
                                                               95% HDI
                 95% HDI
                                                                         0.465
           -1.0
                     0.0 0.5 1.0 1.5
                                                         -1.0 -0.5
                                                                    0.0
                                                                          0.5
                                                                                1.0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -0.139
71.5% < 0 < 28.5%
                                                          mode = 0.0115
                                                            45% < 0 < 55%
                                                             95% HDI
                   95% HDI
            -0.635
                             0.349
                                                       -0.494
                                                                       0.556
           -1.0
                  -0.5
                         0.0
                                                    -1.0 -0.5
                                                                       0.5
                                0.5
                                                                 0.0
                                                                             1.0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  8694.286 8062.994 9000.000 9000.000 8694.286 8062.994 8613.542
                                                                         6699.790
```

betaSIZE

```
## 6793.747
## [1] "The difference of STEW impact \n between STABdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                       \beta_2
between STABdich cut samples in ER3 has a
             probability of 55.62 %
                  mode = 0.241
44.4% < 0 < 55.6%
                                                            \begin{array}{c} mode = -0.981 \\ 80.5\% < 0 < 19.5\% \end{array}
                     95% HDI
                                                                   95% HDI
                 -2.82 3.25
            -6 -4 -2
                         0
                              2
                                                                   -2
                                                                           0
                                                                                 2
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

mode = -0.0597

54.6\% < 0 < 45.4\%

              mode = -1.09
          86.1% < 0 < 13.9%
                 95% HDI
                                                                  95%:HDI
                            1.05
             -4
                   -2
                          0
                                2
                                                                 -2
                                                                       0
                                                                              2
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
                                                                   betaGFI
                                                                             betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
  8868.466 8735.791 9746.063 9293.989 8868.466 8735.791 8122.162 7217.322
## betaSIZE
```

6794.828

```
## [1] "The difference of II_10 impact \n between STABdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
between STABdich cut samples in ER3 has a
             probability of 57.4 %
               mode = 12.8
42.6% < 0 < 57.4%
                                                             mode = 17.6
25.5% < 0 < 74.5%
                  95% HDI
                                                               95% HDI
            -68.1
                                                         -39.3
        -150
                 -50
                      0
                          50 100
                                                   -100
                                                          -50
                                                                  0
                                                                       50
                                                                             100
                                                             Param. Val.
                 Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                   mode = 11.7
                                                            mode = 2.43
                   33.1% < 0 < 66.9%
                                                           43.9% < 0 < 56.1%
                     95% HDI
                                                              95% HDI
                                                        47.6
                                                                        53.9
                                63.6
          -100
                 -50
                        0
                              50
                                    100
                                                          -50
                                                                  0
                                                                        50
                                                                               100
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2044
##
##
  Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1] beta1[2]
                                                                betaGFI
  8058.163 8672.680 8892.710 9140.274 8058.163 8672.680 7428.948
                                                                         6981.827
   betaSIZE
##
##
  7285.618
## [1] "The difference of FOR_10 impact \n between STABdich cut samples in ER3 has a\n probability of
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
between STABdich cut samples in ER3 has a
                                                                   \beta_2
            probability of -52.57 %
                mode = -2.59
52.6% < 0 < 47.4%
                                                            mode = 0.352
                                                            47.3% < 0 < 52.7%
                    95% HDI
                                                               95% HDI
                                                                          26.3
           -60
                    -20
                            20
                                 40
                                                       -40
                                                             -20
                                                                         20
                                                                              40
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -1.07
                                                             mode = 0.562
               44.1% < 0 < 55.9%
                                                           51.1% < 0 < 48.9%
                                                               95% HDI
                   95% HDI
              22.8
                                                           22.3
          -40
                -20
                       0
                            20
                                                       -40
                                                             -20
                                                                         20
                                                                                40
                                  40
                                                                    0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
     Observed stochastic nodes: 131
     Unobserved stochastic nodes: 7
##
##
     Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   8958.319 8247.556 9000.000 9000.000 8958.319 8247.556 8506.211
                                                                        6876.103
## betaSIZE
   6708.427
## [1] "The difference of PRI impact \n between STABdich cut samples in ER1 has a\n probability of 9
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= PRI cutted by STABdich"

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
between STABdich cut samples in ER1 has a
             probability of 98.53 %
                  mode = 1.2
                                                              mode = 0.0699
                1.5% < 0 < 98.5%
                                                               36.8% < 0 < 63.2%
                    95% HDI
                                                                 95% HDI
             0.178
                                                         -0.585
                               2
               0
                       1
                                      3
                                                         -1.0
                                                                    0.0
                                                                          0.5
                                                                               1.0
                                                                                     1.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                mode = -1.03
99.6% < 0 < 0.4%

    \text{mode} = -0.663

    95.1\% < 0 < 4.9\%

                   95% HDI
                                                                95% HDI:
            -1.82
                                                         -1.61
                                                                           0.141
        -2.5
                  -1.5
                            -0.5 0.0
                                       0.5
                                                        -2.0
                                                                 -1.0
                                                                           0.0 0.5 1.0
                                                               Param. Val.
                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 7
      Total graph size: 2052
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                                  betaGFI
                                                                            betaGPS
                                                      beta1[2]
  8449.877 8601.591 9059.011 8814.757 8449.877 8601.591 8149.335
##
                                                                           7025.877
##
  betaSIZE
   7055,264
## [1] "The difference of INIT impact \n between STABdich cut samples in ER1 has a\n probability of
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= EPI cutted by STABdich"

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                     \beta_2
between STABdich cut samples in ER1 has a
             probability of 97.1 %
                 mode = 23.9
2.9% < 0 < 97.1%
                                                             mode = -1.77
57% < 0 < 43%
                                                                95% HDI
                   95% HDI
            -0.933
                              48.8
                                                          -16.8
           -20
                 0
                      20
                            40
                                  60
                                       80
                                                      -30
                                                                -10
                                                                      0
                                                                          10
                                                                               20
                                                                                   30
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                 mode = -24.4
                                                               mode = -18.6
                 99.2% < 0 < 0.8%
                                                             95.6% < 0 < 4.4%
                   95% HDI
                                                                  95% HDI
                                                            40.5
                         -20
                                                                     -20
                                                                             0
           -60
                                 0
                                                      -60
                                                             -40
                                                                                    20
                 Param. Val.
                                                               Param. Val.
  Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 131
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
##
## Initializing model
##
  alpha1[1] alpha1[2]
                        beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   7564.625
             7025.257
                        8842.546 8487.428
                                            7564.625
                                                      7025.257
                                                                 6791.137
                                                                           7375.529
```

[1] " Analysis of Y= ER1 explained by x= STEW cutted by STABdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of EPI impact \n between STABdich cut samples in ER1 has a\n probability of -

##

##

betaSIZE

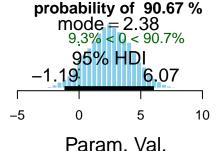
6698.646

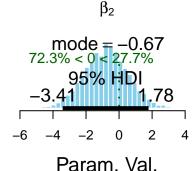
The difference of EPI impact between STABdich cut samples in ER1 has a β_2 probability of -56.29 % mode = 0.0652mode = -0.047556.3% < 0 < 43.7% 62.8% < 0 < 37.2% 95% HDI 95%:HDI -0.96 0.821 -0.860.596 -2.0-1.00.0 1.0 -1.5-0.5 0.0 0.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0465mode = 0.0009543.5% < 0 < 56.5% 55.9% < 0 < 44.1% 95%:HDI 95% HDI -0.514-0.6570.552 0.713 -1.0 -0.50.0 0.5 1.0 -1.0 -0.50.0 0.5 1.0 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 7 ## Total graph size: 2046 ## ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 9000.000 8212.412 8073.997 8125.890 9000.000 8212.412 8334.053 7897.928 ## betaSIZE ## 6975.592 [1] "The difference of STEW impact \n between STABdich cut samples in ER1 has a\n probability of ## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by STABdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

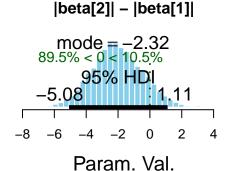
500): Unused variable "n" in data

The difference of STEW impact between STABdich cut samples in ER1 has a





 β_1 mode = -3.4299.3% < 0 < 0.7% 95% HDI -2 2 -6 -8 Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
   9000.000 7932.751 9033.085 8763.192 9000.000 7932.751 7834.793 7356.916
```

500): Unused variable "n" in data

##

[1] "

betaSIZE 6364.655

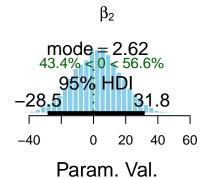
```
betaGFI
                                                                          betaGPS
## [1] "The difference of II_10 impact \n between STABdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by STABdich"
```

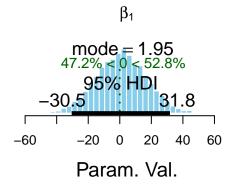
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of II_10 impact β_2 between STABdich cut samples in ER1 has a probability of -83.49 % modé = -42.3 83.5% < 0 < 16.5% mode = -4.7753.6% < 0 < 46.4% 95% HDI 95% HDI 65.4 -200-1000 50 -150-500 50 100 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -7.9770.5% < 0 < 29.5%mode = 47.68,7% < 0 < 91.3% 95% HDI 95% HDI 48.5 103 -100 -500 50 50 100 -150-500 100 150 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ##

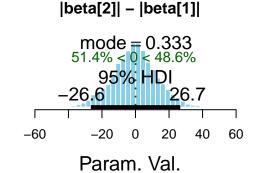
```
Unobserved stochastic nodes: 7
##
     Total graph size: 2044
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  7801.737 8257.649 8837.088 9000.000 7801.737 8257.649 7567.684
                                                                       7134.016
##
  betaSIZE
  7627.073
## [1] "The difference of FOR_10 impact \n between STABdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact between STABdich cut samples in ER1 has a probability of 52.73 %





500): Unused variable "n" in data



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2053
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
## 10018.465 9000.000 8584.431 8712.571 10018.465 9000.000
                                                                8498.839
                                                                          7097.301
## betaSIZE
## 6840.982
## [1] "The difference of PRI impact \n between STABdich cut samples in ER has a\n probability of -6
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

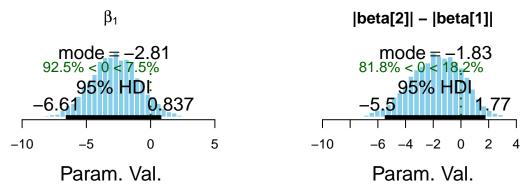
The difference of PRI impact β_2 between STABdich cut samples in ER has a probability of -62.64 % mode = -0.0191 62.6% < 0 < 37.4% mode = -0.027462.9% < **0 < 3**7.1% 95% HDI 95% HDI -0.2240.154 **0.**101 -0.4-0.20.0 0.2 0.4 -0.3-0.10.1 0.2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0215mode = 0.0044244.4% < 0 < 55.6% 51% < 0 < 49% 95%:HDI 95% HDI -0.127 0.114 0.15-0.2 -0.1 0.0-0.20.0 0.1 0.2 0.1 0.2 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 2052 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS **##** 8651.064 8680.408 8579.847 8468.468 8651.064 8680.408 8544.142 7037.376 ## betaSIZE ## 6755.538 ## [1] "The difference of INIT impact \n between STABdich cut samples in ER has a\n probability of 8 ## [1] "

[1] " Analysis of Y= ER explained by x= EPI cutted by STABdich"

500): Unused variable "n" in data

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

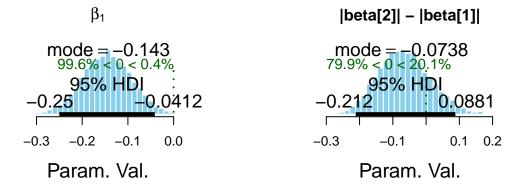
The difference of INIT impact β_2 between STABdich cut samples in ER has a probability of 88.3 % mode = 3.21 11.7% < 0 < 88.3% mode = -0.114 49.8% < 0 < 50.2%95% HDI 95%:HDI -5 0 5 10 -2 0 2 4 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7423.610 6641.975 8223.178 8350.689 7423.610 6641.975
                                                                6571.133 7308.739
## betaSIZE
## 6745.063
## [1] "The difference of EPI impact \n between STABdich cut samples in ER has a\n probability of 99
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of EPI impact β_2 between STABdich cut samples in ER has a probability of 99.61 % mode = 0.208 0.4% < 0 < 99.6% mode = 0.070813.3% < 0 < 86.7% 95% HDI 95% HDI 0.0569 0.376 -0.05**37** 0.199 0.0 0.1 0.2 0.3 0.4 0.5 -0.20.0 0.1 0.2 0.3 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 2046
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
## 8779.718 8836.841 8790.730 9306.206 8779.718 8836.841 8312.044 7107.862
## betaSIZE
## 7060.055
## [1] "The difference of STEW impact \n between STABdich cut samples in ER has a\n probability of 7
## [1] "
## [1] " Analysis of Y= ER explained by x= II_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between STABdich cut samples in ER has a probability of 76.54 % mode = 0.148mode = 0.2923.5% < 0 < 76.5% 29.3% < 0 < 70.7% 95% HDI 95% HDI 0.889 0.613 -1.0 -0.5 0.00.5 1.0 1.5 -0.50.0 0.5 1.0 Param. Val. Param. Val.



```
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 131
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1963
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8556.554 7989.005 9513.826 9920.628 8556.554 7989.005
                                                                8047.645 7231.670
## betaSIZE
## 7358.935
## [1] "The difference of II_10 impact \n between STABdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= FOR_10 cutted by STABdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

probability of 76.29 % mode = 5.43 23.7% < 0 < 76.3% mode = 11.3 3.3% < 0 < 96.7% 95% HDI 95% HDI -1.0:1 -20 0 10 20 30 -100 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 4.28 17.6% < 0 < 82.4% mode = 5.14 24.9% < 0 < 75.1% 95% HDI 95% HDI 16.3 9.09 18.9 -10 0 10 20 -20 -10 0 10 20 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes ## Graph information:

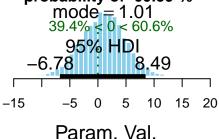
 β_2

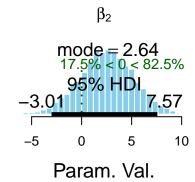
The difference of II_10 impact

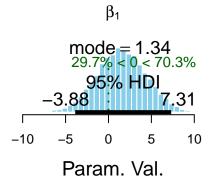
##

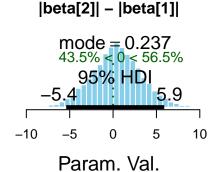
between STABdich cut samples in ER has a

The difference of FOR_10 impact between STABdich cut samples in ER has a probability of 60.59 %









Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by STABdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 131
##
      Unobserved stochastic nodes: 6
```

```
##
     Total graph size: 2039
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  5712.915 4933.452 5093.430 5291.033 5712.915 4933.452 5690.852 4414.723
  betaSIZE
## 4422.750
## [1] "The difference of PRI impact \n between STABdich cut samples in CP has a\n probability of
        The difference of PRI impact
                                                                   \beta_2
between STABdich cut samples in CP has a
            probability of -55.26 %
             mode = -0.00284
55.3% < 0 < 44.7%
                                                            mode = 0.0132
                                                              10.5% < 0 < 89.5%
                   95%:HDI
                                                               95% HDI
          -0.0342
                             0.0312
                                                     -0.00798
                                                                         0.0351
        -0.06
                 -0.02
                           0.02
                                    0.06
                                                       -0.02
                                                              0.00
                                                                     0.02
                                                                            0.04
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 0.0149
10\% < 0 < 90\%
                                                          mode = -0.00213
                                                           55.4% < 0 < 44.6%
                    95% HDI
                                                              95% HDI
           -0.00824
                                                      -0.0311
                                                                        0.0245
                              0.0398
      -0.04
                   0.00 0.02
                             0.04
                                                       -0.04
                                                                   0.00 0.02 0.04
                                    0.06
                 Param. Val.
                                                             Param, Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by STABdich"
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 131
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2038
##
```

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                             betaGFI
                                                                        betaGPS
  5056.662 5411.661 5118.506 4965.388 5056.662 5411.661 5404.716 4891.819
## betaSIZE
## 4338.016
## [1] "The difference of INIT impact \n between STABdich cut samples in CP has a\n probability of 6
        The difference of INIT impact
between STABdich cut samples in CP has a
                                                                  \beta_2
            probability of 60.57 %
                mode = 0.106
39.4% < 0 < 60.6%
                                                           mode = 0.135
                                                             23.4% < 0 < 76.6%
                  95% HDI
                                                               95% HDI
                                                                        0.654
           -1.0
                     0.0
                          0.5
                              1.0
                                   1.5
                                                        -0.5
                                                                0.0
                                                                       0.5
                                                                              1.0
                Param. Val.
                                                            Param. Val.
                      \beta_1
                                                         |beta[2]| - |beta[1]|
                mode = 0.0209
                                                           52.7% < 0 < 47.3%
                    95% HDI
                                                               95%:HDI
             -0.566
                                                        -0.575
                                                                        0.481
            -1.0 -0.5
                       0.0
                             0.5
                                                       -1.0
                                                            -0.5
                                                                   0.0
                                                                         0.5
                                                                               1.0
                                  1.0
                Param. Val.
                                                            Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by STABdich"
  Compiling data graph
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
##
     Reading data back into data table
  Compiling model graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2032
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                              betaGFI
                                                                        betaGPS
```

4676.729 4400.514 5644.888 5199.491 4676.729 4400.514 4504.208 4330.917

```
The difference of EPI impact
                                                                 \beta_2
between STABdich cut samples in CP has a
            probability of 80.54 %
            mode = 0.00972
                                                         mode = 0.0146
                19.5% < 0 < 80.5%
                                                           9.3% < 0 < 90.7%
                 95% HDL
                                                            95% HDI
                                                   -0.0086
         -0.017
                            0.0422
                                                                      0.0387
                      0.02 0.04 0.06
                                                    -0.02 0.00
                                                                 0.02
           -0.02
                                                                       0.04
                                                                              0.06
                Param, Val.
                                                           Param. Val.
                      \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = 0.00206
                                                        mode = 0.00719
                                                           23.7% < 0 < 76.3%
                37.5% < 0 < 62.5%
                  95% HDI
                                                             95% HDI
                                                     -0.0131
                                                                       0.0337
         -0.0165
        -0.03
                -0.01
                        0.01
                                0.03
                                                       -0.02 0.00
                                                                    0.02
                                                                          0.04
                                                           Param. Val.
                Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by STABdich"
  Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
##
     Allocating nodes
## Graph information:
     Observed stochastic nodes: 131
##
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 2032
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                                        betaGPS
                                                   beta1[2]
                                                              betaGFI
## 5602.726 5376.295 4944.187 5058.191 5602.726 5376.295 5657.129 4417.892
## betaSIZE
## 4229.812
## [1] "The difference of STEW impact \n between STABdich cut samples in CP has a\n probability of 8
```

[1] "The difference of EPI impact \n between STABdich cut samples in CP has a\n probability of 80

betaSIZE ## 4411.766

between STABdich cut samples in CP has a probability of 86.38 % mode = 0.0517mode = 0.085413.6% < 0 < 86.4% 1.8% < 0 < 98.2% 95% HDI 95% HDI 0.179 -0.04930.183 0.00426 -0.1 0.0 0.1 0.2 0.3 0.0 0.1 0.2 0.3 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0244 $\begin{array}{c} mode = 0.0478 \\ 15.2\% < 0 < 84.8\% \end{array}$ 27.9% < 0 < 72.1% 95% HDI 95% HDI **-0.055** 0.108 -0.0445 0.154 0.00 -0.100.10 -0.10.0 0.1 0.2 0.3 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= II_10 cutted by STABdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6

 β_2

betaGFI

betaGPS

The difference of STEW impact

##

##

##

Total graph size: 1949

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

Initializing model

betaSIZE ## 4505.830

[1] "The difference of II_10 impact \n between STABdich cut samples in CP has a\n probability of

5294.720 5706.434 5899.731 5770.344 5294.720 5706.434 5194.019 4691.535

β_2 between STABdich cut samples in CP has a probability of 63.82 % mode = 0.447 36.2% < 0 < 63.8% mode = 1.339.6% < 0 < 90.4%95% HDI 95% HDI 3.89 -0.8283.98 Γ -6 -4 -2 0 2 6 -2 0 2 4 6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.859mode = 0.328 36.9% < 0 < 63.1% 18.2% < 0 < 81.8% 95% HDI 95% HDI 2.18 -2 2 -2 2 0 0 4 6 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by STABdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6

The difference of II_10 impact

##

##

##

##

##

Total graph size: 2030

4686.478 5354.560 5329.540

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

Initializing model

betaSIZE

4662.935 ## [1] "The difference of FOR_10 impact \n between STABdich cut samples in CP has a\n probability of

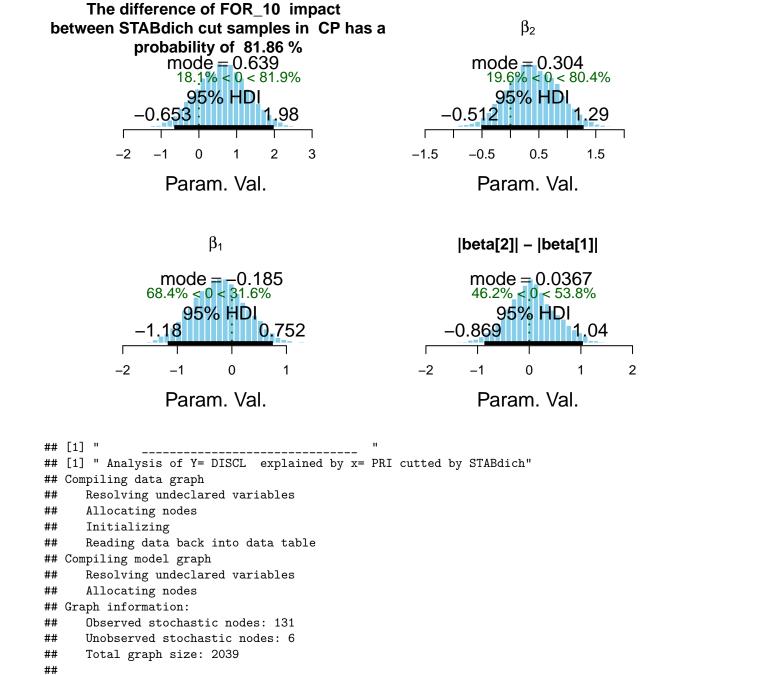
5282.856 4686.478 5354.560 5114.147

beta1[2]

betaGFI

betaGPS

4338.576



beta1[2]

[1] "The difference of PRI impact \n between STABdich cut samples in DISCL has a\n probability of

4982.718 5337.191

betaGFI

betaGPS

4735.074

Initializing model

betaSIZE

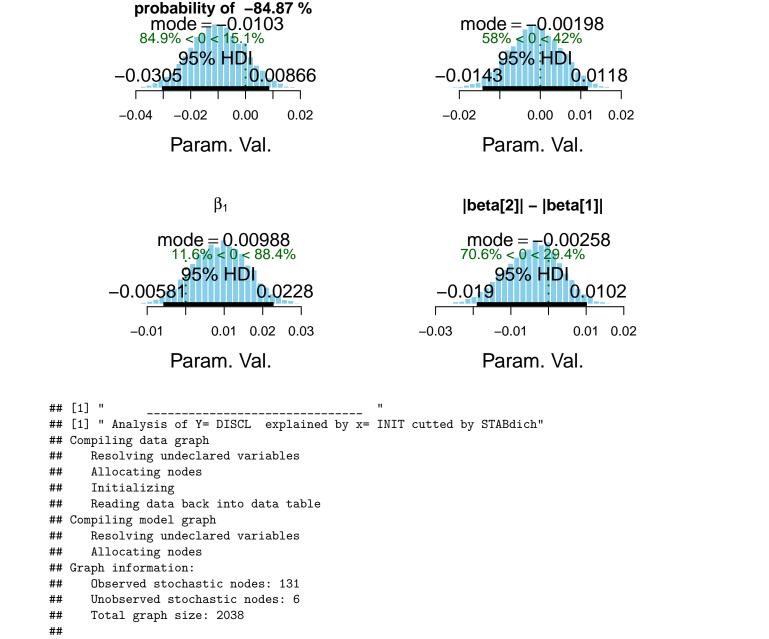
4369.903

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5222.248 4982.718 4555.783 4811.329 5222.248

##

##



 β_2

betaGFI

betaGPS

5495.399

The difference of PRI impact

Initializing model

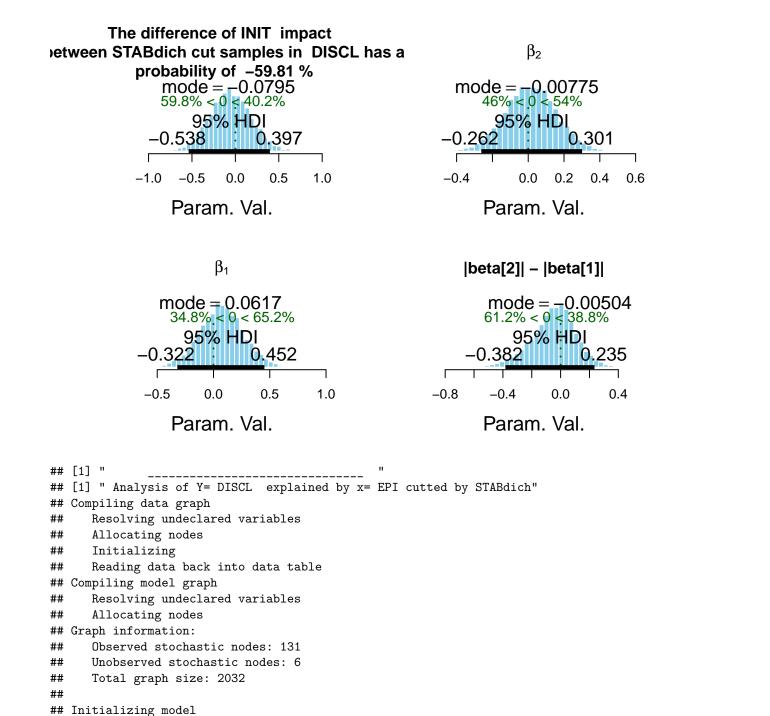
betaSIZE ## 4668.731

etween STABdich cut samples in DISCL has a

[1] "The difference of INIT impact \n between STABdich cut samples in DISCL has a\n probability of

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

5472.364 5437.572 5759.582 5608.900 5472.364 5437.572 5005.620



beta1[2]

[1] "The difference of EPI impact \n between STABdich cut samples in DISCL has a\n probability of

3945.714 4443.787

betaGFI

betaGPS

4554.394

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

4625.889 3945.714 4771.659 4800.224 4625.889

##

##

betaSIZE

3806.028

probability of -75.1 % mode = -0.00559 75.1% < 0 < 24.9% mode = 0.0060922.8% < 0 < 77.2% 95% HDI 95% HDI -0.02350.0111 -0.008440.0191 -0.020.00 0.02 -0.020.00 0.02 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.01082.8% < 0 < 97.2% $\begin{array}{l} mode = -0.00517 \\ 72.3\% < 0 < 27.7\% \end{array}$ 95% HDI 95% HDI -0.000570.0226 -0.018**7 0.**0105 -0.01 0.00 0.01 0.02 0.03 -0.03-0.010.01 0.03 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= STEW cutted by STABdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 131 ## Unobserved stochastic nodes: 6 ## Total graph size: 2032 ## ## Initializing model ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS ## 5175.955 4773.160 5078.024 5296.381 5175.955 4773.160 5040.370 4734.415 ## betaSIZE

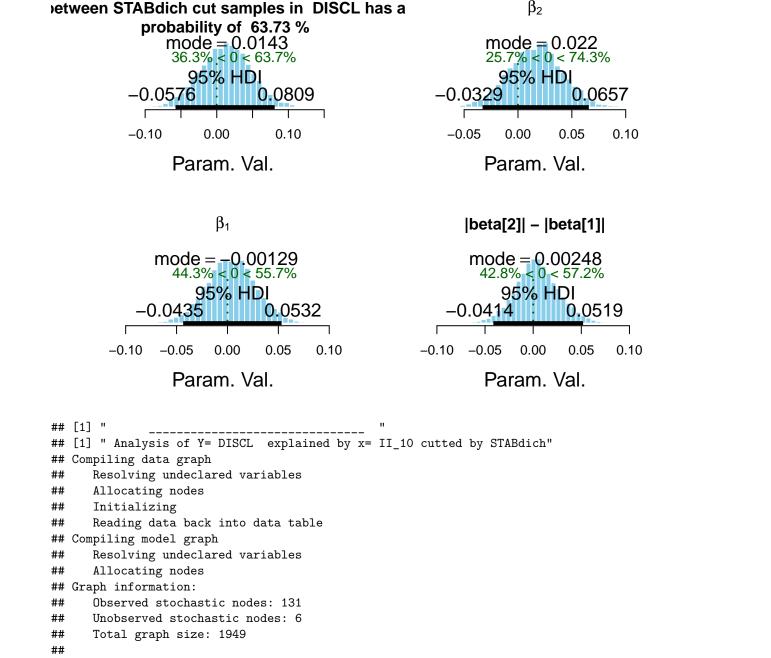
 β_2

The difference of EPI impact

4396.719

between STABdich cut samples in DISCL has a

[1] "The difference of STEW impact \n between STABdich cut samples in DISCL has a\n probability of



The difference of STEW impact

Initializing model

betaSIZE ## 4090.461

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5334.367 5413.790 5814.338 5610.278 5334.367

beta1[2]

[1] "The difference of II_10 impact \n between STABdich cut samples in DISCL has a\n probability o

5413.790 5206.237

betaGFI

betaGPS

4649.323

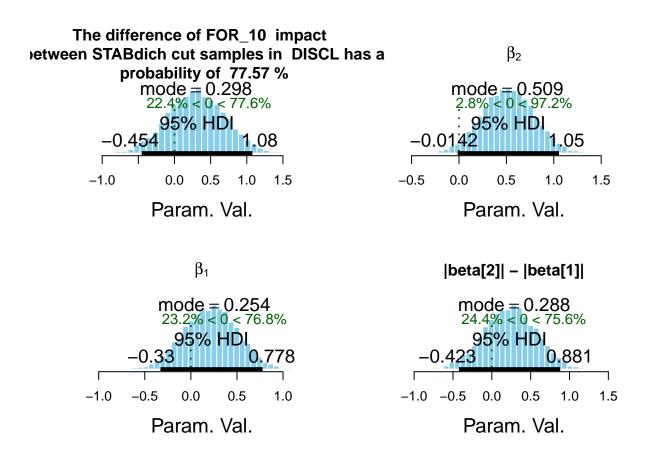
β_2 etween STABdich cut samples in DISCL has a probability of -65.14 % mode = -0.415 65.1% < 0 < 34.9% mode = 0.08241.1% < 0 < 58.9% 95% HDI 95% HDI 1.38 1.06 1.51 -3 -2 -1 0 2 3 -2 -1 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} \text{mode} = 0.452 \\ 20.9\% < 0 < 79.1\% \end{array}$ mode = 0.034156% < **0** < 44% 95%:HDI 95% HDI 1.15 -1 2 -2 0 2 0 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by STABdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: Observed stochastic nodes: 131 ## ## Unobserved stochastic nodes: 6 ## Total graph size: 2030 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 5200.127 5379.724 5281.755 5107.724 5200.127 5379.724 4951.795 4765.317 ## betaSIZE

The difference of II_10 impact

4589.724

##

[1] "The difference of FOR_10 impact \n between STABdich cut samples in DISCL has a\n probability



BASEL-Separated Bayesian models

Quantitative Y

```
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
##
##
  Initializing model
##
                       beta0[1]
## alpha1[1] alpha1[2]
                                 beta0[2] beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
   9181.701 8097.989 9000.000 9000.000 9181.701
                                                     8097.989 7009.243
                                                                         6940.298
##
   betaSIZE
##
   7484.705
## [1] "The difference of PRI impact \n between BASELdich cut samples in EPS has a\n probability of
## [1] "
## [1] " Analysis of Y= EPS explained by x= INIT cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between BASELdich cut samples in EPS has a
             probability of 57.3 %
               mode = 0.0457
42.7% < 0 < 57.3%
                                                            mode = 0.262
                                                              18.2% < 0 < 81.8%
                   95% HDI
                                                               95% HDI
           -0.568
          -1.0 -0.5
                      0.0
                            0.5
                                                        -0.5
                                                               0.0
                                                                      0.5
                                                                             1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                  mode = 0.232
                                                        mode = 0.0184
                   12% < 0 < 88%
                                                          37.6% < 0 < 62.4%
                    95% HDI
                                                             95% HDI
                             0.526
                                                                        0.628
           -0.4
                   0.0
                            0.4
                                    0.8
                                                       -0.5
                                                               0.0
                                                                      0.5
                                                                              1.0
                 Param. Val.
                                                             Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1469
##
##
  Initializing model
##
##
  alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1]
                                                       beta1[2]
                                                                   betaGFI
                                                                             betaGPS
                        9000.000 9000.000 8439.049
                                                       8279.444
   8439.049 8279.444
                                                                  6855.500
                                                                            7107.440
    betaSIZE
##
    7146.593
## [1] "The difference of INIT impact \n between BASELdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= EPI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                      \beta_2
between BASELdich cut samples in EPS has a
            probability of -56.87 %
                modé = -2.02
56.9% < 0 < 43.1%
                                                                mode = -3.07
                                                            76.8% < 0 < 23.2%
                    95%:HDI
                                                                  95% HDI
             -16.6
         -30 -20 -10
                              10
                                                            -20
                                                                  -10
                                                                                10
                                   20
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                mode = -2.83
71% < 0 < 29%

    \text{mode} = 0.0432 \\
    44.1\% < 0 < 55.9\%

                                                                  95% HDI
                   95% HDI
                                                            -10.4
                          0
                                                                      0
            -20
                  -10
                                10
                                       20
                                                         -20
                                                               -10
                                                                            10
                                                                                  20
                  Param. Val.
                                                                Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
Reading data back into data table
## Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1462
##
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7285.385 6910.220 8184.343 6814.266 7285.385
                                                     6910.220 7359.548
                                                                         6776.012
##
  betaSIZE
## 7292.945
## [1] "The difference of EPI impact \n between BASELdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= STEW cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                   \beta_2
between BASELdich cut samples in EPS has a
             probability of 78.1 %
                mode = 0.251
21.9% < 0 < 78.1%
                                                            mode = 0.0677
45.4% < 0 < 54.6%
                                                               95% HDI
                   95% HDI
                                                                         0.515
            -0.338 0.829
                                                                  0.0
                          0.5
                                                                  0.0
       -1.0 -0.5
                                1.0
                                                          -0.5
                                                                          0.5
                                                                                 1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                  mode = -0.17
                                                          mode = 0.00215
              87.2% < 0 < 12.8%
                                                         55.7% < 0 < 44.3%
                                                             95% HDI
                   95% HDI
            -0.563
                                                      -0.461
                                                                        0.378
                              0.135
           -0.8
                   -0.4
                            0.0
                                    0.4
                                                         -0.5
                                                                  0.0
                                                                          0.5
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
```

Allocating nodes

Initializing

##

##

##

```
## Compiling model graph
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 93
     Unobserved stochastic nodes: 7
##
     Total graph size: 1462
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                         betaGPS
   7045.732 9151.914 9205.981 9181.256 7045.732 9151.914
                                                              6504.653
                                                                        6930.671
##
   betaSIZE
  7625.755
## [1] "The difference of STEW impact \n between BASELdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between BASELdich cut samples in EPS has a
                                                                   \beta_2
            probability of 60.72 %
                mode = 0.462
39.3% < 0 < 60.7%
                                                            mode = 0.247
                                                            36.4% < 0 < 63.6%
                                                               95% HDI
                   95% HDI
                                                        -1.05
              -2
                      0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -0.0724
                                                           mode = -0.0513
                52.8% < 0 < 47.2%
                                                           54.5% < 0 < 45.5%
                    95% HDI
                                                               95%:HDI
                        0
                                                         -2
                                                                    0
                                                                               2
          -3
              -2
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
```

##

Initializing

Compiling model graph

Reading data back into data table

```
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
      Total graph size: 1399
##
##
## Initializing model
##
                                          beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                                                 betaGFI
                                                                           betaGPS
   8210.188 8812.743
                       7569.934
                                 9232.591 8210.188
                                                     8812.743
                                                               7224.318
                                                                          6800.796
   betaSIZE
##
   7147.136
##
  [1] "The difference of II_10 impact \n between BASELdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II 10 impact
                                                                    \beta_2
between BASELdich cut samples in EPS has a
            probability of -84.9 %
                                                            mode = -34.9
84.9% < 0 < 15.1%
                   95% HDI
                                                               95% HDI
                             29.3
         -150
                    -50
                           0
                                50
                                                    -60
                                                             -20
                                                                  0
                                                                     20
                                                                          40
                                    100
                                                                             60
                                                                                  80
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                  mode = 35
6.9% < 0 < 93.1%
                                                              mode_{=} -21.6
                                                           82.8% < 0 < 17.2%
                   95% HDI
                                                                 95% HDI
                             89.5
             -11.8
           -50
                   0
                         50
                                                                -50
                               100
                                      150
                                                        -100
                                                                         0
                                                                                50
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
```

```
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1459
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   7591.408 7196.589
                        9044.426
                                  8802.759
                                            7591.408 7196.589
                                                                 6489.496
                                                                           6564.029
   betaSIZE
   7554.721
##
## [1] "The difference of FOR_10 impact \n between BASELdich cut samples in EPS has a\n probability o
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                     \beta_2
between BASELdich cut samples in EPS has a
             probability of 93.33 %
                 mode = 17.1
6.7% < 0 < 93.3%
                                                                mode = 17.3
4.4% < 0 < 95.6%
                    :95% HDI
                                                                : 95% HDI
                                                            -2.98
              -5.88
                                                                             36
            -20
                   0
                         20
                               40
                                     60
                                                       -20
                                                                0
                                                                       20
                                                                               40
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                                                              mode = 12.1
15.7% < 0 < 84.3%
                 mode = -1.18
               59.3% < 0 < 40.7%
                   95% HDI
                                                                95% HDI
            -17.6
                               13.9
         -30
                   -10
                         0
                              10
                                  20
                                       30
                                                       -20
                                                                0
                                                                        20
                                                                                40
                 Param. Val.
                                                               Param. Val.
##
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

```
## Graph information:
##
      Observed stochastic nodes: 93
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   9000.000 8160.484 9000.000 9000.000 9000.000 8160.484
                                                                6601.138
                                                                          6650.894
##
   betaSIZE
   7357.827
## [1] "The difference of PRI impact \n between BASELdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
between BASELdich cut samples in ET3 has a
             probability of 60.42 %
                                                         mode = -0.31
80.4% < 0 < 19.6%
                mode = 0.085
39.6% < 0 < 60.4%
                   95% HDI
                                                               95% HDI
           -0.748
                             0.969
                                                                         0.427
         -1.5
                 -0.5
                          0.5
                                                                 -0.5
                                                                           0.5
                                  1.5
                                                       -1.5
                                                                              1.0 1.5
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -0.419
                                                          mode = -0.133
                97.3% < 0 < 2.7%
                                                          56.7% < 0 < 43.3%
                                                               95% HDI
                    95% HDI:
             -0.839
                              0.0122
                                                        -0.68<mark>5</mark>
                                                                         0.699
              -1.0
                      -0.5
                               0.0
                                                        -1.0
                                                                   0.0
                                                                        0.5
                                                                             1.0
                                                                                   1.5
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
```

Compiling model graph

Graph information:

Allocating nodes

Resolving undeclared variables

##

##

```
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                            betaGPS
   7601.118 8645.933 9039.442 9017.844 7601.118 8645.933
                                                                6834.847 6989.374
##
   betaSIZE
  7396.983
##
## [1] "The difference of INIT impact \n between BASELdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                     \beta_2
between BASELdich cut samples in ET3 has a
             probability of 86.87 %
                mode = 11.1
13.1% < 0 < 86.9%
                                                                mode = -3.75
                                                            71.9% < 0 < 28.1%
                   95% HDI
                                                                  95% HDI
                                                            -19.6
             -8.4<mark>6</mark>
                   0
                          20
           -20
                                 40
                                                      -40
                                                               -20
                                                                             10
                                                                                 20
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                                                          mode = -9.74
84.9% < 0 < 15.1%
               mode = -15.6
               98.8% < 0 < 1.2%
                  95% HDI
                                                                95% HDI
                            <del>-</del>2:.09
             -29.6
                                                                           7.61
          -40 -30 -20 -10
                                    10
                                                       -40
                                                               -20
                                                                         0
                                                                            10 20
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

Graph information:

Observed stochastic nodes: 93

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1462
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                             betaGPS
   7433.422 7014.328 8017.436
                                  6902.980 7433.422 7014.328 8012.582
                                                                            7050.547
  betaSIZE
   7287.561
## [1] "The difference of EPI impact \n between BASELdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between BASELdich cut samples in ET3 has a
                                                                      \beta_2
             probability of 90.77 %
                mode = 0.555
9.2% < 0 < 90.8%
                                                              mode = 0.114
                                                               35.1% < 0 < 64.9%
                   :95% HDI
                                                                 95% HDI
          -0.268
                      0.5
                            1.0
                                                      -1.0 -0.5
                                                                    0.0
                                                                          0.5
           -0.5
                 0.0
                                 1.5
                                       2.0
                                                                                1.0
                                                                Param. Val.
                  Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
             mode = -0.444
95.5% < 0 < 4.5%

    \text{mode} = -0.183

    68.3\% < 0 < 31.7\%

                  95% HDI:
                                                                 95% HDI
                                                         -0.709
           -0.884
                            0:0493
                                                                           0.468
             -1.0
                    -0.5
                            0.0
                                    0.5
                                                         -1.0
                                                               -0.5
                                                                      0.0
                                                                            0.5
                                                                                  1.0
                                                                Param. Val.
                  Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
```

##

Observed stochastic nodes: 93

Unobserved stochastic nodes: 7

```
##
      Total graph size: 1462
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                             betaGPS
  7754.250 8458.510 8710.260 8491.880 7754.250 8458.510
                                                                  6926.599
                                                                            6879.942
  betaSIZE
## 6878.777
## [1] "The difference of STEW impact \n between BASELdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                      \beta_2
between BASELdich cut samples in ET3 has a
             probability of 97.99 % mode = 2.82 2% < 0 < 98%
                                                                mode = 0.88
17.3% < 0 < 82.7%
                    95% HDI
                                                                  95% HDI
                                                           -0.826
              0.216
                               5.56
            -2
                       2
                                                       -3 -2 -1
                            4
                                                                                    4
                 Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

mode = -2.07

97.6\% < 0 < 2.4\%

                                                            mode = -1.26
81.6% < 0 < 18.4%
                    95% HDI:
                                                                   95% HDI
                             -0:0584
                                                                              1.28
                        -2
                               0
                                                                    -2
                                                                           0
                                                                                  2
          -6
                                       2
                                                      -6
                                                             -4
                 Param. Val.
                                                                Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1399
```

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                          beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   8186.190 8471.507 7894.053 9196.933 8186.190
                                                     8471.507
                                                                7236.592
                                                                          6900.926
##
   betaSIZE
   7519.812
## [1] "The difference of II_10 impact \n between BASELdich cut samples in ET3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II 10 impact
between BASELdich cut samples in ET3 has a
                                                                    \beta_2
            probability of 81.57 %
                 mode = 38.3
18.4% < 0 < 81.6%
                                                             mode = 21.9
                                                              15.9% < 0 < 84.1%
                   95% HDI
                                                                95% HDI
          -100
                     0
                        50 100
                                     200
                                                       -50
                                                                 0
                                                                        50
                                                                                100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -13.2
65.5% < 0 < 34.5%
                                                               mode = 0.681
                                                                50% < 0 < 50%
                   95% HDI
                                                                 95%:HDI
                                                                            53.8
        -150
                   -50
                          0
                              50
                                                         -100
                                                               -50
                                                                      0
                                                                            50
                                   100
                                                                                 100
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
```

##

##

##

##

##

##

##

Compiling model graph

Allocating nodes

Graph information:

Resolving undeclared variables

Observed stochastic nodes: 93

Unobserved stochastic nodes: 7

Total graph size: 1459

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7600.584 7935.481 9702.434 8758.788 7600.584
                                                     7935.481
                                                               6753.690
                                                                         6657.556
##
   betaSIZE
## 8539.769
## [1] "The difference of FOR_10 impact \n between BASELdich cut samples in ET3 has a\n probability o
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
between BASELdich cut samples in ET3 has a
            probability of -79.21 %
             mode = -13.6
79.2% < 0 < 20.8%
                                                            mode = -6.37
                                                            67% < 0 < 33%
                  95% HDI
                                                               95% HDI
                            19.7
            -47.6
                          0
                              20
                                                                     0
                                                                          20
        -80
                 -40
                                  40
                                                    -60 -40 -20
                                                                               40
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                mode = 8.17
                                                            mode = 0.131
                                                             48% < 0 < 52%
                 23.7% < 0 < 76.3%
                  95% HDI
                                                               95% HDI
                                                           22.6
        -40
             -20
                    0
                         20
                               40
                                     60
                                                       -40
                                                             -20
                                                                   0
                                                                        20
                                                                             40
                 Param, Val.
                                                             Param, Val.
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1469
```

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8614.332 7936.899 9676.328 9289.480 8614.332 7936.899 7224.974 6913.332
## betaSIZE
   7544.946
## [1] "The difference of PRI impact \n between BASELdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
between BASELdich cut samples in ER3 has a
             probability of 70.46 %
               mode = 0.218
29.5% < 0 < 70.5%
                                                           mode = -0.146
72.8% < 0 < 27.2%
                   95% HDI
                                                                 95% HDI
           -0.563
                                                           -0.903
                             1.03
                                                                           0.487
                                                                            0.5
           -1.0
                    0.0 0.5 1.0 1.5 2.0
                                                        -1.5
                                                                  -0.5 0.0
                                                                                 1.0
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.455

98.6\% < 0 < 1.4\%
                                                          mode = -0.195
65.5% < 0 < 34.5%
                   95% HDI:
                                                               95% HDI
                            -0:0255
                                                        -0.702
                                                                         0.527
                     -0.5
                              0.0
            -1.0
                                      0.5
                                                        -1.0 -0.5
                                                                    0.0
                                                                          0.5
                                                                               1.0
                 Param. Val.
                                                              Param. Val.
```

```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[1] beta1[2]
                                                              betaGFI
  8415.245 7994.724 9247.456 9208.316 8415.245 7994.724 7136.120 6836.963
  betaSIZE
## 7245.112
## [1] "The difference of INIT impact \n between BASELdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                   \beta_2
between BASELdich cut samples in ER3 has a
            probability of 94.48 %
                mode = 14.6
5.5% < 0 < 94.5%
                                                           mode = -2.22
                                                        66.6% < 0 < 33.4%
                  :95% HDI
                                                              95% HDI
            -3.56
                 0
                        20
         -20
                                                    -30 -20 -10
                                                                   0
                                                                        10
                                                                             20
                                40
                                                                                 30
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -19.3
                                                          mode = -13.2
                  99.7% < 0 < 0.3%
                                                         93.1% < 0 < 6.9%
                   95% HDI
                                                              95% HDI:
                    -20
               -30
                           -10
                                                    -40
                                                              -20
                                                                            10
          -40
                                                                        0
                                                                                 20
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1462
##
## Initializing model
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta6FI

##

```
## 7318.889 6922.174 8158.188 7080.329 7318.889 6922.174 6870.411 6772.400
## betaSTZE
## 7168.506
## [1] "The difference of EPI impact \n between BASELdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between BASELdich cut samples in ER3 has a
                                                                   \beta_2
            probability of 95.93 %
                 mode = 0.661
4.1% < 0 < 95.9%
                                                           mode = 0.266
20.8% < 0 < 79.2%
                   ∶95% HDI
                                                              95% HDI
           -0.0724
                                                        -0.315 :
                                                                        0.839
       -1.0
                 0.0 0.5
                          1.0
                               1.5
                                    2.0
                                                    -1.0 -0.5 0.0
                                                                     0.5
                                                                               1.5
                                                                          1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -0.423
                                                         mode = -0.174
               96.3\% < 0 < 3.7\%
                                                        62.7% < 0 < 37.3%
                                                             95% HDI
                  95% HDI
                                                                       0.506
                                                      -0.703
                             0:0256
           -1.0
                    -0.5
                             0.0
                                      0.5
                                                      -1.0 -0.5
                                                                 0.0
                                                                        0.5
                                                                             1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
     Reading data back into data table
##
##
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 93
      Unobserved stochastic nodes: 7
##
##
     Total graph size: 1462
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
```

7428.147 8616.539 8976.222 8790.212 7428.147 8616.539 6545.298 6831.823

```
## betaSIZE
  7297.792
## [1] "The difference of STEW impact \n between BASELdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                    \beta_2
between BASELdich cut samples in ER3 has a
            probability of 95.88 %
                 mode = 2.29
4.1% < 0 < 95.9%
                                                              mode = 0.632
                                                               24.7% < 0 < 75.3%
                   95% HDI
                                                                95% HDI
            -0.103
                                                                           2.09
            -2
                       2
                  0
                                                         -2
                                                                  0
                                                                                3
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                          mode = -1.01
79.9\% < 0 < 20.1\%
                mode = -1.7
              95.5% < 0 < 4.5%
                  95% HDI
                                                               95% HDI
                     -2
                                     2
                                                                -2
                                                                        0
                                                                               2
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  8250.394 8740.437 8162.273 9000.000 8250.394 8740.437 7000.999
                                                                         6754.411
```

betaSIZE

```
## 7033.273
## [1] "The difference of II_10 impact \n between BASELdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                     \beta_2
between BASELdich cut samples in ER3 has a
             probability of 73.14 %
                 mode = 21.8
26.9% < 0 < 73.1%
                                                                mode = 21
16.3% < 0 < 83.7%
                   95% HDI
                                                                 95% HDI
                           101
             -100
                      0
                             100
                                     200
                                                          -50
                                                                   0
                                                                          50
                                                                                 100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = -8.89
52.4% < 0 < 47.6%
                                                                mode = 0.756
                                                               48.1% < 0 < 51.9%
                                                                  95% HDI
                    95% HDI
                              63.1
                                                             -52.1
                                                                              54.3
       -150
                  -50
                        0
                             50
                                  100
                                                        -100
                                                               -50
                                                                       0
                                                                              50
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1459
##
##
  Initializing model
                                                                           betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
  8327.472 7464.814 8092.484 8032.220 8327.472 7464.814
                                                                6898.050
  betaSIZE
##
```

7231.486

```
## [1] "The difference of FOR_10 impact \n between BASELdich cut samples in ER3 has a\n probability o
## [1] "
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                   \beta_2
between BASELdich cut samples in ER3 has a
            probability of -74.73 %
              mode = -12.4
74.7% < 0 < 25.3%
                                                              mode = 4.96
                                                            42.8% < 0 < 57.2%
                                                               95% HDI
                   95% HDI
        -80
                 -40
                          0
                              20
                                                            -20
                                                                   0
                                                                        20
                                  40
                                                      -40
                                                                              40
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode_{=} -1.03
                                                         62.8% < 0 < 37.2%
                    95% HDI
                                                              95% HDI
                                                                         18.8
           -20
                   0
                          20
                                 40
                                                      -40
                                                             -20
                                                                    0
                                                                         20
                                                                                40
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1469
##
##
  Initializing model
##
                       beta0[1]
                                 beta0[2]
                                          beta1[1]
                                                    beta1[2]
## alpha1[1] alpha1[2]
                                                               betaGFI
                                                              6748.627
  8808.575 7860.783 9000.000 9000.000 8808.575
                                                    7860.783
                                                                        6770.451
##
   betaSIZE
## 7285.996
## [1] "The difference of PRI impact \n between BASELdich cut samples in ER1 has a\n probability of
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
between BASELdich cut samples in ER1 has a
                                                                    \beta_2
            probability of -89.76 %
             mode = -0.95
89.8% < 0 < 10.2%
                                                            mode = -0.995
                                                               95% < 0 < 5%
                                                                95% HDI:
                   95% HD1
             -3
                  -2
                       _1
                                                       -3
                                                              -2
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -0.138
62.8% < 0 < 37.2%
                                                            mode = 0.806
                                                              11.1% < 0 < 88.9%
                    95% HDI
                                                               95% HDI
                                                       -0.397
              0.802
         -1.5
                   -0.5 0.0
                              0.5
                                                        -1
                                                               0
                                                                     1
                                                                           2
                                                                                 3
                                   1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 93
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1469
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                          betaGPS
  9209.201 8098.906 9060.471 9060.219 9209.201 8098.906 6757.849 6615.757
## betaSIZE
## 8158.427
## [1] "The difference of INIT impact \n between BASELdich cut samples in ER1 has a\n probability of
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= INIT cutted by BASELdich"

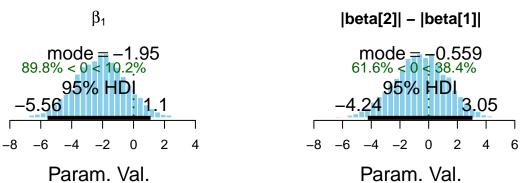
```
## [1] " Analysis of Y= ER1 explained by x= EPI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                     \beta_2
between BASELdich cut samples in ER1 has a
             probability of 50.58 %
                mode = -4.32
50.6% < 0 < 49.4%
                                                               mode = -8.72
                                                           80.5% < 0 < 19.5%
                    95% HDI
                                                                 95% HDI
                                                            36.3
                        0
         -60
                   -20
                             20
                                 40
                                                      -60
                                                            -40
                                                                  -20
                                                                         0
                                                                               20
                                                                                     40
                                      60
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
             mode = -9.77
82.7% < 0 < 17.3%
                                                             mode = -0.182
48.6\% < 0 < 51.4\%
                   95% HDI
                                                                 95% HDI
                               11.9
                                                                            26.3
             -40
                    -20
                           0
                                  20
                                                         -40
                                                               -20
                                                                      0
                                                                           20
                                                                                 40
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
      Total graph size: 1462
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1]
                                  beta0[2] beta1[1]
                                                                  betaGFI
                                                                            betaGPS
                                                       beta1[2]
   7158.551 6775.714 7289.044
                                  6531.188 7158.551 6775.714 7208.959
##
                                                                           6656.805
   betaSIZE
##
   6793.689
## [1] "The difference of EPI impact \n between BASELdich cut samples in ER1 has a\n probability of
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= STEW cutted by BASELdich"

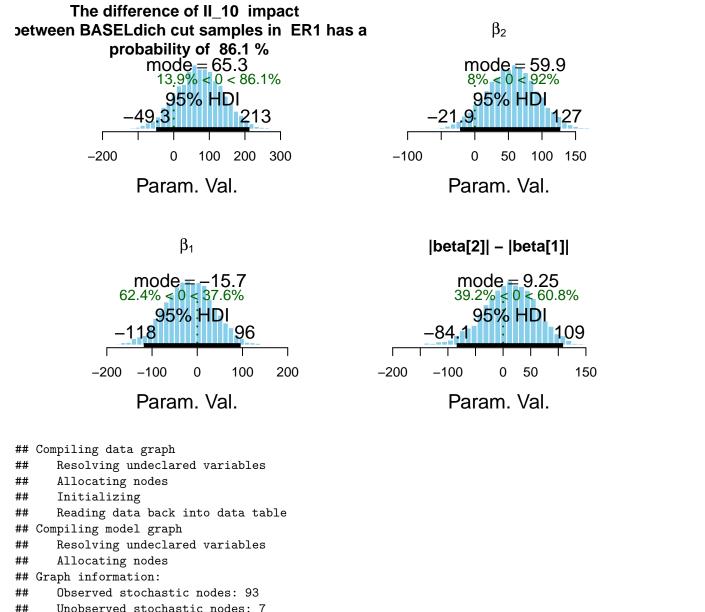
```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                    \beta_2
between BASELdich cut samples in ER1 has a
            probability of 97.18 %
               mode = 1.23
2.8% < 0 < 97.2%
                                                            mode = 0.839
                                                             4.4% < 0 < 95.6%
                 95% HDI
                                                               95% HDI
        -0.0447
                                                       -0.107
               0
                           2
                                                             0
                                                                            2
         -1
                                 3
                                       4
                                                     -1
                                                                     1
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode_{-}-0.273
                                                            mode = 0.403
             80.9% < 0 < 19.1%
                                                             19.4% < 0 < 80.6%
                                                               95% HDI
                   95% HDI
            -1.06
                             0.426
                                                                0
                                                                              2
          -1.5
                    -0.5 0.0
                               0.5
                                    1.0
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 93
      Unobserved stochastic nodes: 7
##
      Total graph size: 1462
##
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1]
                                                     beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7587.049 9182.228
                       9396.107
                                 9368.951
                                           7587.049 9182.228
                                                               6635.000
                                                                         7311.470
   betaSIZE
   7218.440
## [1] "The difference of STEW impact \n between BASELdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= II_10 cutted by BASELdich"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of STEW impact between BASELdich cut samples in ER1 has a β_2 probability of 61.47 % mode = 0.977 38.5% < 0 < 61.5% mode = -1.2286.3% < 0 < 13.7% 95% HDI 95% HDI 1.26 -5 0 5 2 -6 -2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|



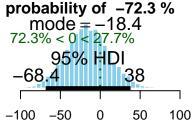
```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7778.201 8623.394
                       8064.211 8843.430 7778.201 8623.394 7044.798
                                                                          6798.227
##
  betaSIZE
##
   6865.491
  [1] "The difference of II_10 impact \n between BASELdich cut samples in ER1 has a\n probability of
## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```



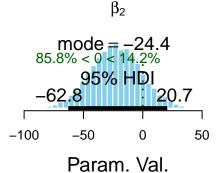
Unobserved stochastic nodes: 7 ## Total graph size: 1459 ## ## Initializing model ## betaGFI ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGPS 8264.845 7663.607 8789.229 8423.864 8264.845 7663.607 6191.745 6233.230 ## betaSIZE 7898.027 ## [1] "The difference of FOR_10 impact \n between BASELdich cut samples in ER1 has a\n probability o ## [1] " ## [1] " Analysis of Y= ER explained by x= PRI cutted by BASELdich" ## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

500): Unused variable "n" in data

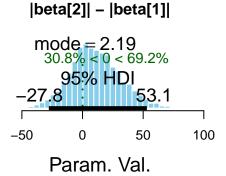
The difference of FOR_10 impact petween BASELdich cut samples in ER1 has a



Param. Val.



 $\begin{array}{c} \beta_1 \\ \text{mode} = -5.95 \\ 65.1\% < 0 < 34.9\% \\ \textbf{95\% HDI} \\ -41.8 & \vdots & 27.1 \\ \hline -60 & -20 & 0 & 20 & 40 \\ \end{array}$



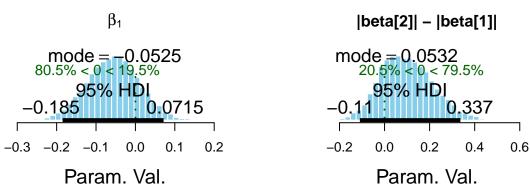
Param. Val.

500): Unused variable "n" in data

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8683.411 8727.450 9000.000 8411.054 8683.411 8727.450 7077.179
                                                                          6461.068
## betaSIZE
## 7628.213
## [1] "The difference of PRI impact \n between BASELdich cut samples in ER has a\n probability of 9
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by BASELdich"
```

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of PRI impact β_2 between BASELdich cut samples in ER has a probability of 94.6 % mode = 0.238 5.4% < 0 < 94.6% mode = 0.1768,3% < 0 < 91.7% 95% HDI 95% HDI 0.384 -0.03890.485 -0.0758-0.2 0.0 0.2 0.4 0.6 -0.20.0 0.2 0.4 0.6 Param. Val. Param. Val.



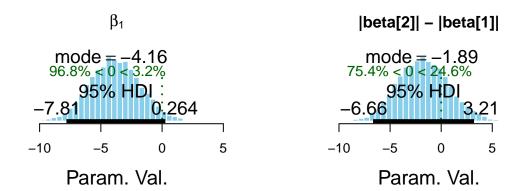
```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1469
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
  9000.000 8334.669 8822.040 8400.765 9000.000 8334.669
                                                               6814.814
                                                                          6824.014
## betaSIZE
## 7052.080
## [1] "The difference of INIT impact \n between BASELdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

The difference of INIT impact β_2 between BASELdich cut samples in ER has a probability of 95.19 % mode = 1.2527.7% < 0 < 72.3% mode = 4.664.8% < 0 < 95.2% 95% HDI :95% HDI 6.06 -10-5 0 5 10 15 -5 0 5

Param. Val.

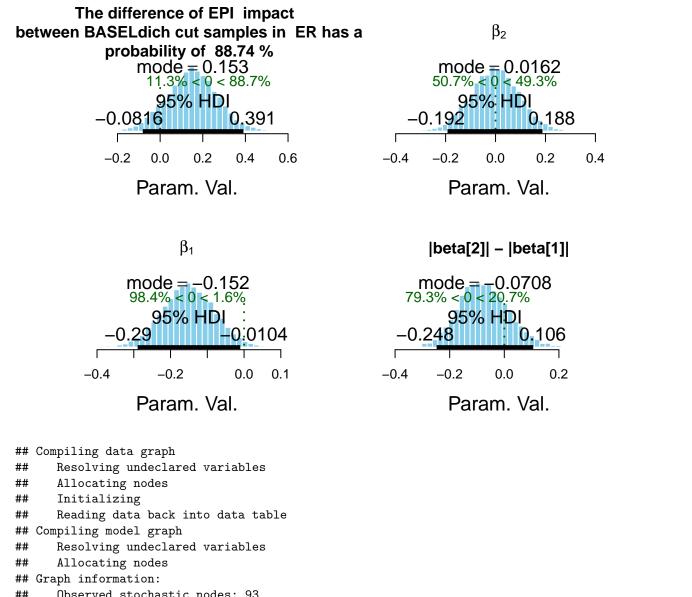
500): Unused variable "n" in data



10

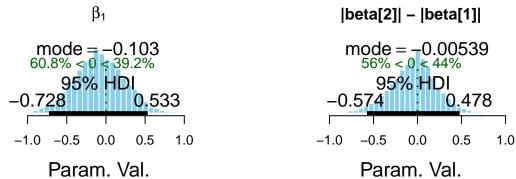
Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1462
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  6991.401 6503.343 9694.322 8014.072 6991.401 6503.343 7456.090
                                                                          6746.505
## betaSIZE
## 7075.916
## [1] "The difference of EPI impact \n between BASELdich cut samples in ER has a\n probability of 8
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```



```
Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1462
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                         betaGPS
  7430.712 9154.599 9000.000 9000.000 7430.712 9154.599
                                                               6334.077 6740.067
## betaSIZE
## 6839.577
## [1] "The difference of STEW impact \n between BASELdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= II_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between BASELdich cut samples in ER has a probability of 62.43 % mode = 0.0963 37.6% < 0 < 62.4% mode = 0.0297 42.5% < 0 < 57.5%95% HDI 95% HDI -0.6960.98 0.592 -1.5-0.50.5 1.0 1.5 -1.0-0.50.0 0.5 1.0 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 93
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
                                                                betaGFI
  8454.399 8443.142 9252.576 9332.670 8454.399 8443.142 7207.055 7144.174
## betaSIZE
  7311.019
## [1] "The difference of II_10 impact \n between BASELdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= FOR_10 cutted by BASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

500): Unused variable "n" in data

β_2 between BASELdich cut samples in ER has a probability of -69.12 % mode = -5.85 69.1% < 0 < 30.9% mode = 6.9814.7% < 0 < 85.3% 95% HDI 95% HDI 18.7 -40 -200 20 40 -20 -10 0 10 20 30 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\text{mode} = 15.6 \\ 9.4\% < 0 < 90.6\%$ mode = -5.0470.1% < 0 < 29.9% 95% HDI 95% HDI -20 0 20 -40 -20 0 20 40 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 93

The difference of II_10 impact

##

##

##

##

##

Unobserved stochastic nodes: 7

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

8178.448 7551.709 10715.694 10220.624 8178.448

Total graph size: 1459

Initializing model

betaSIZE

7510.652 ## [1] "The difference of FOR_10 impact \n between BASELdich cut samples in ER has a\n probability of

beta1[2]

7551.709

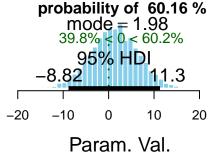
betaGFI

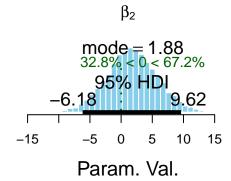
6874.677

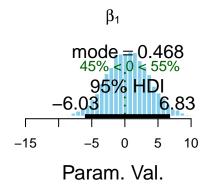
betaGPS

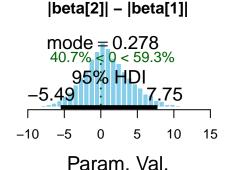
6413.188

The difference of FOR_10 impact between BASELdich cut samples in ER has a









Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(XX, x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by BASELdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 6
```

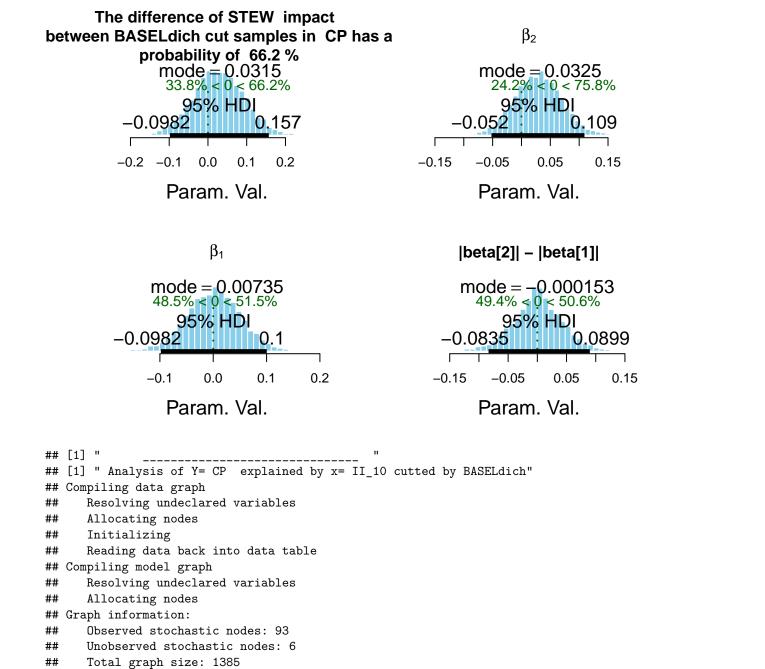
```
##
     Total graph size: 1455
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  5393.044 4922.602 5392.859 5440.659 5393.044 4922.602 4731.029 4119.298
  betaSIZE
## 4592.491
## [1] "The difference of PRI impact \n between BASELdich cut samples in CP has a\n probability of -
        The difference of PRI impact
between BASELdich cut samples in CP has a
                                                                   \beta_2
            probability of -94.69 %
               mode = -0.0342
94.7% < 0 < 5.3%
                                                          mode = -0.0139
77.8% < 0 < 22.2%
                   95% HDI:
                                                                95% HDI
          -0.0804
                             0.00512
                                                                          0.0216
                                                       -0.0521
                                                              -0.04
           -0.10
                    -0.05
                             0.00
                                                      -0.08
                                                                      0.00
                                                                              0.04
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = 0.0196
                                                      mode = -0.00486
                3.4\% < 0 < 96.6\%
                                                          55% < 0 < 45%
                                                            95% HDI
                   95% HDI
       -0.000947
                                                    -0.0329
                             0.0412
                                                                     0.0344
       -0.02
               0.00
                      0.02
                              0.04
                                     0.06
                                                   -0.06
                                                           -0.02
                                                                    0.02
                                                                           0.06
                 Param. Val.
                                                             Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by BASELdich"
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
  Graph information:
##
##
     Observed stochastic nodes: 93
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 1455
##
## Initializing model
```

```
##
                                                                         betaGPS
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
  5585.800 4956.826 4801.356 4758.073 5585.800 4956.826 4874.045 4599.261
  betaSIZE
##
## 4198.010
## [1] "The difference of INIT impact \n between BASELdich cut samples in CP has a\n probability of
       The difference of INIT impact
between BASELdich cut samples in CP has a
                                                                  \beta_2
            probability of -73.68 %
             mode = -0.27
73.7% < 0 < 26.3%
                                                          mode = -0.138
                                                         62.3\% < 0 < 37.7\%
                  95% HDI
                                                             95% HDI
                                                      -0.87<mark>4</mark>
                             0.642
          -2
                                 1
                                                        -1.0
                                                                  0.0
                                                                       0.5
                                                                             1.0
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
               mode = 0.00654
                                                           50.1% < 0 < 49.9%
                                                              95% HDI
                  95% HDI
                             0.871
                                                       -0.662
                                                                        0.68
        -1.0 -0.5
                    0.0
                         0.5
                               1.0
                                     1.5
                                                       -1.0 -0.5
                                                                  0.0
                                                                       0.5
                                                                             1.0
                Param. Val.
                                                            Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by BASELdich"
  Compiling data graph
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
##
     Reading data back into data table
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 93
##
      Unobserved stochastic nodes: 6
     Total graph size: 1448
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
```

4457.123 4169.323 6424.863 4897.689 4457.123 4169.323 4862.071 4319.756

```
## betaSIZE
## 4574.465
## [1] "The difference of EPI impact \n between BASELdich cut samples in CP has a\n probability of 6
        The difference of EPI impact
                                                                 \beta_2
between BASELdich cut samples in CP has a
            probability of 69.93 %
                                                        mode = 0.012
            mode = 0.00903
                                                          22.2% < 0 < 77.8%
               30.1% < 0 < 69.9%
                                                           95% HDI
                95% HDI
         -0.0304
                         0.0497
                                                    -0.0195
                                                                    0.0454
                  0.00
                         0.05
          -0.05
                                                  -0.05
                                                            0.00
                                                                     0.05
                                                                              0.10
                                 0.10
                Param. Val.
                                                           Param. Val.
                      \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = 0.00329
                                                      mode = 0.00213
               42.7% < 0 < 57.3%
                                                         31.2% < 0 < 68.8%
                                                           95% HDI
                   95% HDI
          -0.0191
                                                                 0.038
                                                     -0.018
        -0.04
                     0.00
                           0.02
                                 0.04
                                                    -0.04
                                                             0.00
                                                                     0.04
                                                                             0.08
                Param. Val.
                                                           Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by BASELdich"
  Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
     Reading data back into data table
  Compiling model graph
##
##
     Resolving undeclared variables
##
     Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 93
##
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 1448
##
## Initializing model
##
                                        beta1[1]
## alpha1[1] alpha1[2] beta0[1]
                                beta0[2]
                                                                        betaGPS
                                                   beta1[2]
                                                              betaGFI
  4709.726 5543.816 5011.257 5234.850 4709.726 5543.816 4411.948
##
                                                                       4502.093
## betaSIZE
##
  4602.826
```

[1] "The difference of STEW impact \n between BASELdich cut samples in CP has a\n probability of



4550.452 ## [1] "The difference of II_10 impact \n between BASELdich cut samples in CP has a\n probability of

betaGFI

betaGPS

4771.171 5469.261 5515.302 5813.898 4771.171 5469.261 4636.078 4800.466

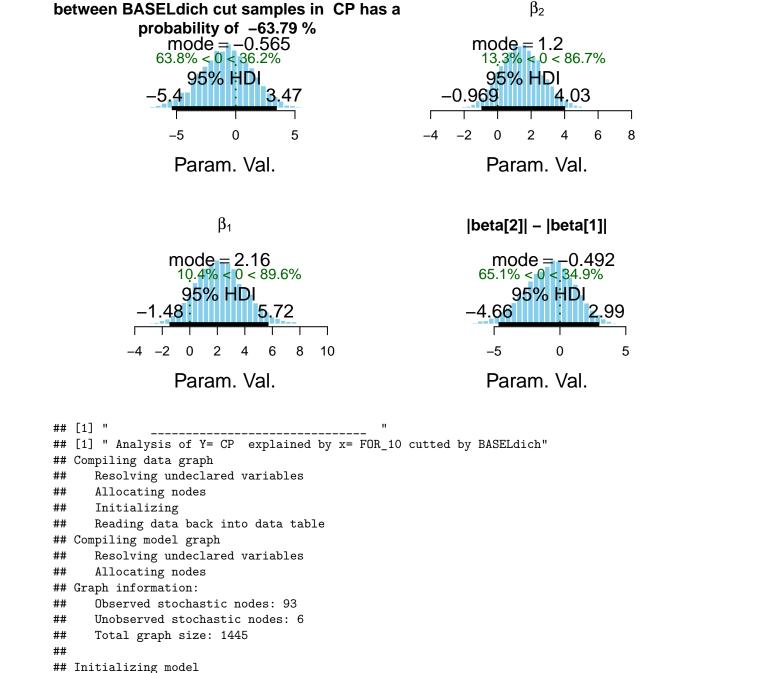
alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

##

##

Initializing model

betaSIZE



The difference of II_10 impact

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

4754.889 5094.108 5557.955

##

betaSIZE ## 4793.523 5670.850 4754.889

beta1[2]

[1] "The difference of FOR_10 impact \n between BASELdich cut samples in CP has a\n probability of

betaGFI

5094.108 4086.121 4738.762

betaGPS

mode = -0.353 66.3% < 0 < 33.7% mode = -0.11664.7% < 0 < 35.3% 95% HDI 95% HDI 1.02 -3 -2 -1 0 2 -2 -1 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.16 42.9% < 0 < 57.1%mode = 0.0098242.3% < 0 < 57.7%95% HDI 95% HDI 1.08 -0.890 2 2 -1 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by BASELdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 93 ## Unobserved stochastic nodes: 6 ## Total graph size: 1455 ## ## Initializing model

beta1[2]

[1] "The difference of PRI impact \n between BASELdich cut samples in DISCL has a\n probability of

5031.127 4588.140

betaGFI

betaGPS

4288.387

 β_2

The difference of FOR_10 impact

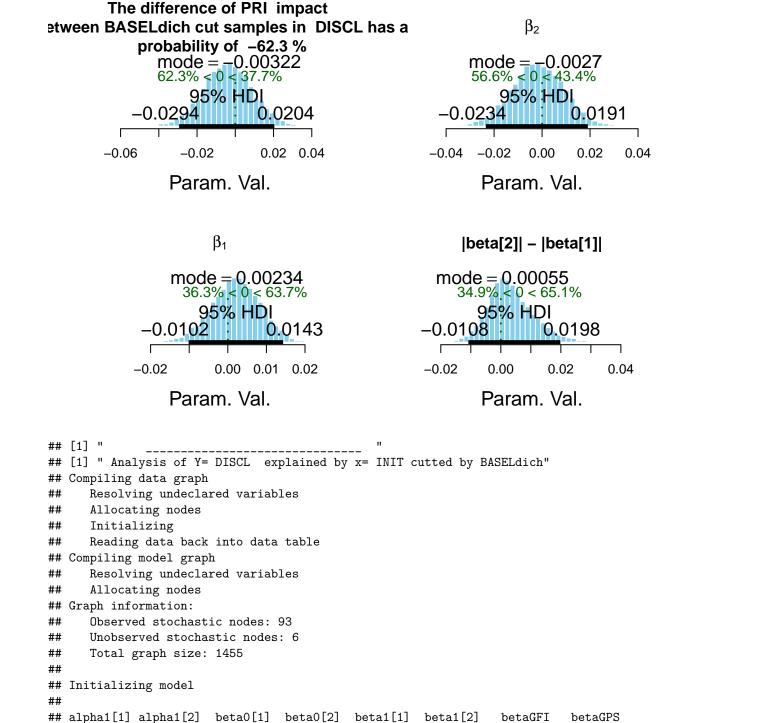
between BASELdich cut samples in CP has a probability of -66.32 %

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

5175.209 5031.127 5958.031 5926.673 5175.209

##

betaSIZE ## 5287.779



[1] "The difference of INIT impact \n between BASELdich cut samples in DISCL has a\n probability o

3890.124

5338.575 4859.500 5202.723 5310.850 5338.575 4859.500 4292.751

betaSIZE ## 4634.014

mode = 0.16 25.9% < 0 < 74.1% mode = 0.025243.9% < 0 < 56.1% 95% HDI 95% HDI -0.3**93** 0.806 0.476 -1.0 -0.5 0.00.5 1.0 1.5 -0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.00658mode = -0.15755.9% **< 0 <** 44.1% 77% < 0 < 23% 95% HDI 95% HDI -0.5**52** -0.4520.266 0.367 -1.0-0.50.0 -0.50.5 0.0 0.5 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= EPI cutted by BASELdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 93 ## Unobserved stochastic nodes: 6 ## Total graph size: 1448

 β_2

The difference of INIT impact

##

Initializing model

betaSIZE ## 4368.958

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

etween BASELdich cut samples in DISCL has a probability of 74.11 %

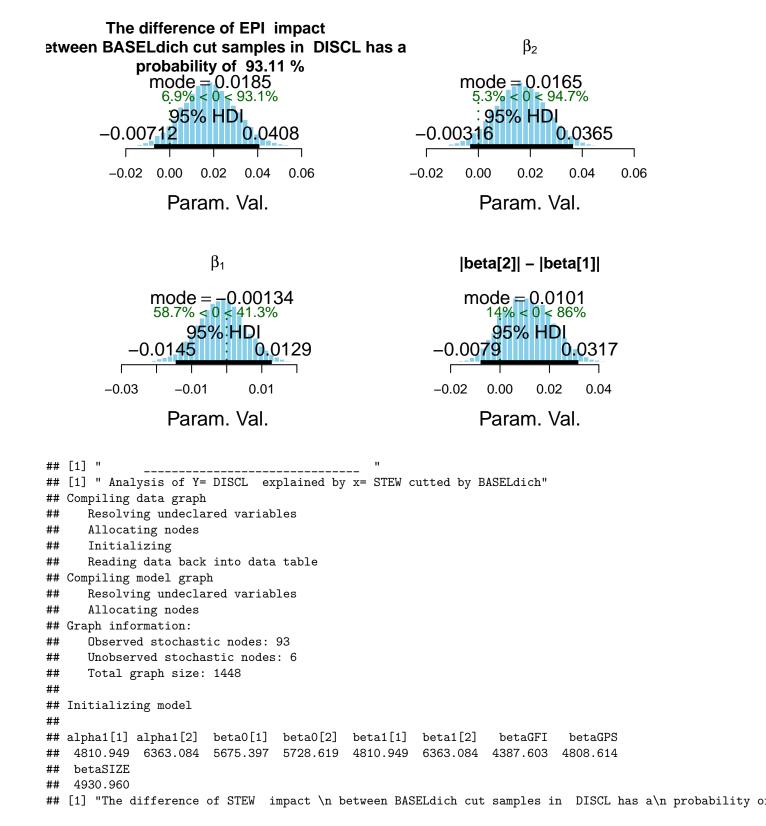
4307.621 4243.916 5550.338 4603.001 4307.621 4243.916 4969.710 4541.219

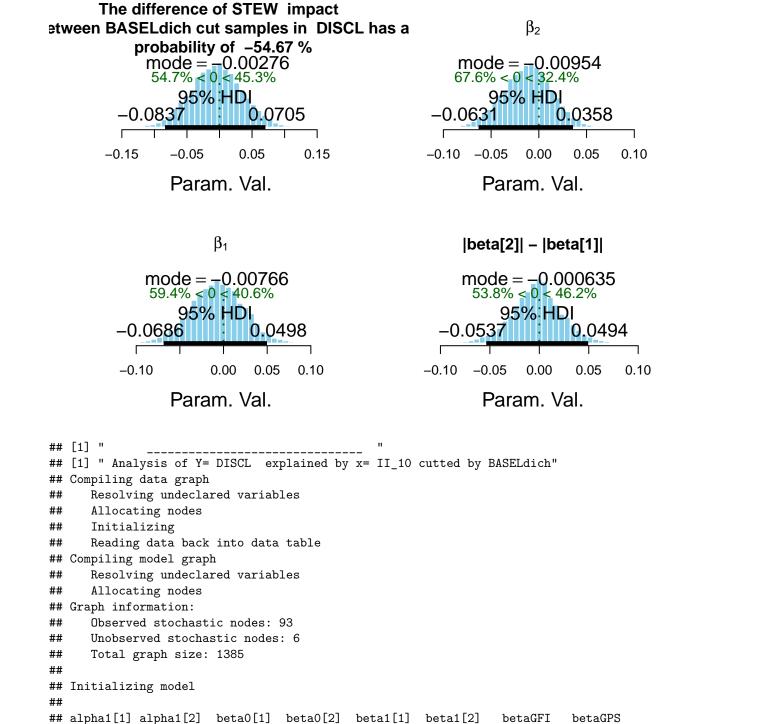
beta1[2]

[1] "The difference of EPI impact \n between BASELdich cut samples in DISCL has a\n probability of

betaGFI

betaGPS





6090.336 5115.150 5424.333 4754.908 4377.655

[1] "The difference of II_10 impact \n between BASELdich cut samples in DISCL has a\n probability

5115.150 5424.333 5758.800

betaSIZE ## 4681.077

probability of -76.78 % mode = -0.67 76.8% < 0 < 23.2% mode = -0.208 62.9% < 0 < 37.1%95% HDI 95% HDI -4 -2 0 2 -2 -1 0 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.38425.5% < 0 < 74.5% mode = -0.051965.2% < 0 < 34.8% 95% HDI 95% HDI 1.11 -2 0 2 -3 -2 -12 4 0 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by BASELdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph Resolving undeclared variables ## ## Allocating nodes Graph information: Observed stochastic nodes: 93 ## ## Unobserved stochastic nodes: 6 ## Total graph size: 1445

 β_2

The difference of II_10 impact

Initializing model

betaSIZE ## 4972.034

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

etween BASELdich cut samples in DISCL has a

4816.670 4755.865 5501.688 5573.063 4816.670 4755.865 4338.885

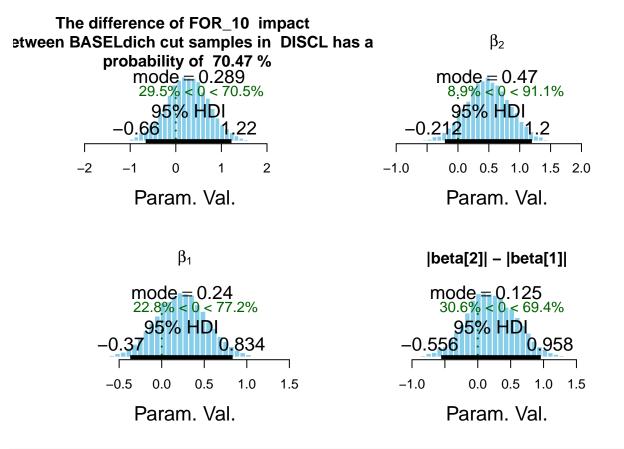
beta1[2]

[1] "The difference of FOR_10 impact \n between BASELdich cut samples in DISCL has a\n probability

betaGFI

betaGPS

4074.416



EPSI-Separated Bayesian models

Quantitative Y

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1608
##
##
  Initializing model
##
  alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   7141.776 7000.053 8563.979 7781.057 7141.776 7000.053
                                                               8832.214
                                                                         5573.085
   betaSIZE
## 5706.427
## [1] "The difference of PRI impact \n between EPSIdich cut samples in EPS has a\n probability of 8
## [1] " Analysis of Y= EPS explained by x= INIT cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between EPSIdich cut samples in EPS has a
            probability of 85.92 %
                                                            mode = 0.439
                mode = 0.344
                 14.1% < 0 < 85.9%
                                                            3.8\% < 0 < 96.2\%
                                                              95% HDI
                  95% HDI
           -0.252:
                                                      -0.0463
                                                                        0.858
                         0.936
            -0.5 0.0
                        0.5
                                                            0.0
                                                                   0.5
                                                                           1.0
                                   1.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 0.0858
30.9% < 0 < 69.1%
                                                             mode = 0.332
15.5% < 0 < 84.5%
                                                               95% HDI
                    95% HDI
            -0.246
                              0.439
                                                       -0.215
                          0.2 0.4 0.6
        -0.6
                 -0.2
                                                       -0.5
                                                               0.0
                                                                      0.5
                                                                             1.0
                 Param. Val.
                                                             Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
Reading data back into data table
## Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 102
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1608
##
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                          betaGPS
                                                                betaGFI
   6937.009 7513.961 7519.245 6881.341 6937.009 7513.961
                                                               9003.438
                                                                         6990.656
##
   betaSIZE
##
  6015.768
## [1] "The difference of INIT impact \n between EPSIdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= EPI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                   \beta_2
between EPSIdich cut samples in EPS has a
            probability of 79.48 %
                  mode = 6.04
20.5% < 0 < 79.5%
                                                           mode = -0.907
58.4% < 0 < 41.6%
                    95% HDI
                                                                95%∶HDI
              -8.41 19.7
            -20
                      0
                          10
                               20
                                                                         5
                                   30
                                                       -15
                                                                -5
                                                                     0
                                                                             10
                                                                                 15
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = -6.27
                                                               mode = -1.98
            88.6% < 0 < 11.4%
                                                           75.9% < 0 < 24.1%
                  95% HDI
                                                                95% HDI
                                                                           5.62
                   -10
             -20
                                 10
                                                         -20
                                                                -10
                                                                              10
                 Param. Val.
                                                             Param. Val.
```

- ## Resolving undeclared variables
 ## Allocating nodes
- ## Initializing

Compiling data graph

Reading data back into data table

```
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 102
      Unobserved stochastic nodes: 7
##
      Total graph size: 1601
##
##
## Initializing model
##
                        beta0[1]
## alpha1[1] alpha1[2]
                                  beta0[2]
                                            beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
  6455.198 7123.358
                        7998.263 6387.904 6455.198 7123.358
                                                                 8239.655
                                                                           6573.249
   betaSIZE
## 5764.958
## [1] "The difference of EPI impact \n between EPSIdich cut samples in EPS has a\n probability of 9
## [1] " Analysis of Y= EPS explained by x= STEW cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
between EPSIdich cut samples in EPS has a
                                                                     \beta_2
             probability of 96.8 %
                 mode = 0.511
3.2% < 0 < 96.8%
                                                             mode = 0.092
                                                               25.9<mark>% < 0 <</mark> 74.1%
                     95% HDI
                                                                 95% HDI
            -0.00994
                                                                           0.551
            -0.5
                  0.0
                        0.5
                              1.0
                                                         -0.5
                                                                  0.0
                                                                           0.5
                                                                                    1.0
                                    1.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                                                           mode = -0.21
80.6% < 0 < 19.4%
                 mode = -0.37
                   98\% < 0 < 2\%
                   95% HDI
                                                                  95% HDI
           -1.0
                     -0.5
                              0.0
                                                        -1.0
                                                                -0.5
                                                                         0.0
                                                                                 0.5
                 Param. Val.
                                                               Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
```

Reading data back into data table

Allocating nodes

Initializing

##

##

##

```
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
      Total graph size: 1600
##
##
## Initializing model
##
                       beta0[1] beta0[2] beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                                                                betaGFI
                                                                          betaGPS
   6593.826 7213.473 8667.442 8013.738 6593.826 7213.473 7451.151
                                                                          5667.484
   betaSIZE
##
   6215.029
##
  [1] "The difference of STEW impact \n between EPSIdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= II_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                    \beta_2
between EPSIdich cut samples in EPS has a
            probability of -78.41 %
            mode = -0.896
78.4% < 0 < 21.6%
                                                            mode = -0.288
                                                          65.5% < 0 < 34.5%
                  95% HDI
                                                               95% HDI
                                                                          1.04
                  -2
                          0
                                 2
                                                     -3
                                                          -2
                                                               _1
                                                                     0
                                                                                2
            _4
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 0.627
23.6% < 0 < 76.4%
                                                             mode = -0.0472
                                                            60.6% < 0 < 39.4%
                                                                 95% HDI
                  95% HDI
          -0.971
                             2.11
                                                           -1.63
                                                            -2
          -2
                    0
                                                                       0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
```

Compiling model graph

Resolving undeclared variables

##

```
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1529
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                     beta0[2]
                                               beta1[1]
                                                          beta1[2]
                                                                       betaGFI
                                                                                  betaGPS
    8017.678 8630.978 8596.904
                                    8685.160
                                               8017.678 8630.978
                                                                     9406.259
                                                                                7110.586
    betaSIZE
    6852.212
##
## [1] "The difference of II_10 impact \n between EPSIdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                          \beta_2
between EPSIdich cut samples in EPS has a
              probability of 81.36 %

    \begin{array}{r}
      \text{mode} = 24.8 \\
      15.6\% < 0 < 84.4\%
    \end{array}

                   mode = 25.3
18.6% < 0 < 81.4%
                     95% HDI
                                                                     95% HDI
           -100
                            50
                                 100
                                      150
                                                             -50
                                                                             50
                                                                                     100
                                                                    Param. Val.
                   Param. Val.
                         \beta_1
                                                                |beta[2]| - |beta[1]|
                                                                 mode = 3.61
29.6% < 0 < 70.4%
                 mode = -3.47
56.8% < 0 < 43.2%
                     95% HDI
                                                                     95% HDI
                                                               32.6
                                                                                 60.3
                -50
                           0
                                    50
                                                             -50
                                                                        0
                                                                                50
                                                                                        100
                   Param. Val.
                                                                    Param. Val.
```

Compiling data graph ## Resolving undeclared variables ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes

```
## Graph information:
##
      Observed stochastic nodes: 102
      Unobserved stochastic nodes: 7
##
      Total graph size: 1599
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                      betaGFI
                                                                                 betaGPS
    7820.701 8023.359 9000.000 9000.000 7820.701 8023.359
                                                                     8021.536
                                                                               7379.589
##
    betaSIZE
    7457.903
## [1] "The difference of FOR_10 impact \n between EPSIdich cut samples in EPS has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                          \beta_2
between EPSIdich cut samples in EPS has a
              probability of 58.72 %

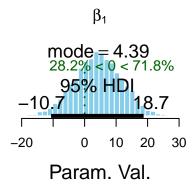
    \begin{array}{l}
      \text{mode} = 8.5 \\
      22.3\% < 0 < 77.7\%
    \end{array}

                  mode = 0.697
41.3% < 0 < 58.7%
                     95% HDI
                                                                    95% HDI
                                                                               23.8
              -20.9
                                25.4
                                                             -11.3
```

-20

0

Param. Val.



0

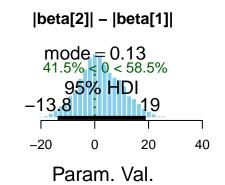
Param. Val.

20

40

-20

-40



20

40

```
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
```

```
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
      Total graph size: 1608
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                    betaGFI
                                                                               betaGPS
  7102.716 7498.202 8839.866 8527.343 7102.716 7498.202 8723.653 6081.928
##
    betaSIZE
  5735.188
## [1] "The difference of PRI impact \n between EPSIdich cut samples in ET3 has a\n probability of -
## [1] " Analysis of Y= ET3 \, explained by x= INIT cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
         The difference of PRI impact
                                                                        \beta_2
between EPSIdich cut samples in ET3 has a
             probability of -52.56 %

    \text{mode} = -0.358

    90.7\% < 0 < 9.3\%

             mode = -0.0419
              52.6% < 0 < 47.4%
                  95% HDI
                                                                  95% HDI
                  -0.5
                           0.5
                                                         -1.5 -1.0 -0.5 0.0
         -1.5
                                    1.5
                                                                                       1.0
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|

    \text{mode} = -0.363 \\
    94.4\% < 0 < 5.6\%

mode = 0.031

46.4\% < 0 < 53.6\%

                     95% HDI:
                                                                  95% HDI
                                                                              0.722
             -0.83<mark>7</mark>
                                                          -0.647
                               0.0971
                      -0.5
                                                          -1.0 -0.5 0.0
               -1.0
                               0.0
                                       0.5
                                                                            0.5
                                                                                  1.0
                                                                                        1.5
                  Param. Val.
                                                                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
```

Graph information:

Observed stochastic nodes: 102

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1608
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                            betaGPS
   6818.981 9000.000 8885.113 8307.787 6818.981
                                                      9000.000
                                                                9000.000
   betaSIZE
##
##
   6566.510
  [1] "The difference of INIT impact \n between EPSIdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between EPSIdich cut samples in ET3 has a
                                                                     \beta_2
             probability of 74.33 %
                mode = 6.06
25.7% < 0 < 74.3%
                                                             mode = -5.36
                                                             81% < 0 < 19%
                  95% HDI
                                                                95% HDI
           -20
                    0
                           20
                                                         -20
                                                                -10
                                                                        0
                                                                              10
                                   40
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = -11.2
93.4% < 0 < 6.6%
                                                               mode = -5.36
74\% < 0 < 26\%
                    95% HDI
                                                                  95% HDI
                                                                              10.9
                    -20
                                                               -20
           -40
                                  10
                                       20
                                                     -40
                                                                              10
                                                                                   20
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
```

```
##
     Total graph size: 1601
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  6421.554 6678.276 7670.002 5807.913 6421.554 6678.276 8547.757 6937.414
  betaSIZE
## 5919.746
## [1] "The difference of EPI impact \n between EPSIdich cut samples in ET3 has a\n probability of -
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                  \beta_2
between EPSIdich cut samples in ET3 has a
            probability of -68.84 %
              modé = -0.196
68.8% < 0 < 31.2%
                                                          mode = -0.318
                                                       88.7% < 0 < 11.3%
                    95% HDI
                                                             95% HDI
               -0.96 0.619
                          0
                                                   -1.5 -1.0 -0.5 0.0
           -2
                                                                          0.5
                                                                                1.0
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
                mode_{=} -0.13
                                                        mode = 0.0185
                                                           33.6% < 0 < 66.4%
            72.4% < 0 < 27.6%
                  95% HDI
                                                             95% HDI
           -0.683
                           0.342
                                                      -0.466
                                                                       0.755
                        0.0
           -1.0
                -0.5
                              0.5
                                    1.0
                                                   -1.0 -0.5
                                                               0.0
                                                                     0.5
                                                                           1.0
                 Param. Val.
                                                            Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
## Graph information:
##
     Observed stochastic nodes: 102
```

##

##

Unobserved stochastic nodes: 7

Total graph size: 1600

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2]
                                          beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
   6957.443 7194.275 9003.114 8688.736 6957.443 7194.275 7711.685
                                                                         5400.846
   betaSIZE
##
   5589.359
## [1] "The difference of STEW impact \n between EPSIdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
between EPSIdich cut samples in ET3 has a
                                                                   \beta_2
            probability of -76.38 %
             mode = -1.17
76.4% < 0 < 23.6%
                                                             mode_{-} = -1.06
                                                         88.4% < 0 < 11.6%
                                                                95% HDI
                   95% HDI
                                                                         0.688
           -6
               -4
                     -2
                          0
                               2
                                    4
                                                        -4 -3 -2 -1
                                                                        0
                                                                                 2
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = 0.0225
                                                             mode = 0.291
               50.9% < 0 < 49.1%
                                                              36.6% < 0 < 63.4%
                                                                95% HDI
                   95%: HDI
              -2.08
                       0
                              2
                -2
                                                       -3 -2
                                                                   0
          -4
                                     4
                                                                               3
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 102
##
     Unobserved stochastic nodes: 7
```

##

##

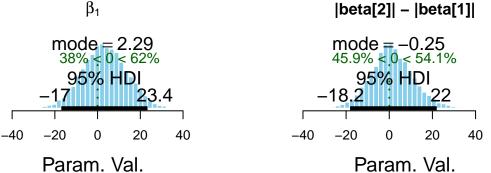
Total graph size: 1529

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7855.710 8718.529
                       8866.514 9240.266 7855.710 8718.529
                                                               8836.990
                                                                         7422.050
##
   betaSIZE
  7063.527
##
## [1] "The difference of II 10 impact \n between EPSIdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
between EPSIdich cut samples in ET3 has a
            probability of -51.8 %
                 mode = -0.657
51.8% < 0 < 48.2%
                                                              mode = 4.62
                                                             44.7% < 0 < 55.3%
                     95% HDI
                                                                95% HDI
                                89.7
               -90.7
                -100
                          0
         -200
                                100
                                                        -100 -50
                                                                     0
                                                                          50
                                                                               100
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = 10.4
                                                               mode = 0.501
              41.6% < 0 < 58.4%
                                                               44.3% < 0 < 55.7%
                 95% HDI
                                                                  95% HDI
             49.8
                                                                -51
         -100
                         50
                              100
                                   150
                                                      -150
                                                                 -50
                                                                       0
                                                                           50
                                                                               100
                 Param, Val.
                                                              Param, Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1599
```

##

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   7787.781 8261.174 8934.807
                                  8537.424 7787.781 8261.174 7394.266
                                                                           6942.787
## betaSIZE
   7438.489
## [1] "The difference of FOR_10 impact \n between EPSIdich cut samples in ET3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                     \beta_2
between EPSIdich cut samples in ET3 has a
            probability of -65.13 %
               mode = -8.23
65.1% < 0 < 34.9%
                                                             mode = -3.04
60.3\% < 0 < 39.7\%
                    95% HDI
                                                                  95% HDI
                                                                            20.3
               -37<mark>.8</mark>
                                                             27.8
            -60
                     -20
                          0
                               20
                                   40
                                                           -40
                                                                -20
                                                                        0
                                                                             20
                                                                                   40
                 Param. Val.
                                                               Param. Val.
```



```
Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
      Total graph size: 1608
##
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                                betaGFI
  7280.845 7141.585 9336.100 9039.887 7280.845 7141.585 9000.000 6167.492
## betaSIZE
## 5590.985
## [1] "The difference of PRI impact \n between EPSIdich cut samples in ER3 has a\n probability of 7
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between EPSIdich cut samples in ER3 has a
             probability of 76.28 %

mode = -0.171

76.4\% < 0 < 23.6\%

               mode = 0.275
23.7% < 0 < 76.3%
                  95% HDI
                                                              95% HDI
           -0.467
                                                       -0.837
                   0.0 0.5 1.0 1.5 2.0
                                                         -1.0 -0.5
                                                                    0.0
          -1.0
                                                                           0.5
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                                                         mode = -0.276
73.9% < 0 < 26.1%
              mode = -0.511
              98.2% < 0 < 1.8%
                  95% HDI
                                                               95% HDI
                           -0.0383
                                                                          0.459
              -1.0
                     -0.5
                             0.0
                                                        -1.0 -0.5
                                     0.5
                                                                     0.0
                                                                           0.5
                                                                                 1.0
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1608
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta0FI

```
## 7044.738 8684.977 8018.152 7541.318 7044.738 8684.977 8721.798 6992.500
##
  betaSTZE
  6143.225
## [1] "The difference of INIT impact \n between EPSIdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
between EPSIdich cut samples in ER3 has a
                                                                    \beta_2
            probability of 96.56 %
                  mode = 16.3
3.4% < 0 < 96.6%
                                                             mode = -1.16
                                                          61.9% < 0 < 38.1%
                    95% HDI
                                                               95% HDI
             -0.919
                                                                          8.94
          -20
                   0
                          20
                                                              -10
                                                                     0
                                 40
                                                       -20
                                                                           10
                                                                                 20
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = -19.3
99.4% < 0 < 0.6%
                                                            mode = 15.8
                                                            95.6% < 0 < 4.4%
                  95% HDI
                                                                 95% HDI:
                          -10
       -50
                 -30
                                0
                                    10
                                                       -40
                                                                 -20
                                                                            0
                                                                                10
                 Param. Val.
                                                              Param, Val.
## Compiling data graph
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 102
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1601
##
## Initializing model
                                                                betaGFI
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                          betaGPS
```

6568.740 6979.857 7784.255 6269.228 6568.740 6979.857 7570.843 7105.842

```
## betaSIZE
## 5654.016
## [1] "The difference of EPI impact \n between EPSIdich cut samples in ER3 has a\n probability of 6
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                     \beta_2
between EPSIdich cut samples in ER3 has a
             probability of 62.93 %
                 mode = 0.116
37.1% < 0 < 62.9%
                                                             mode = -0.0991
                                                            67.3% < 0 < 32.7%
                   95% HDI
                                                                 95% HDI
            -0.644
                              0.877
                                                          -0.691
                                                                           0.424
        -1.5
                 -0.5
                           0.5
                               1.0 1.5
                                                          -1.0 -0.5
                                                                      0.0
                                                                             0.5
                                                                                   1.0
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.248

85.1\% < 0 < 14.9\%

                                                            mode = -0.04
57.5% < 0 < 42.5%
                                                                 95%:HDI
                   95% HDI
           -0.739
                                                         -0.602
                                                                            0.525
           -1.0
                  -0.5
                           0.0
                                                        -1.0
                                                              -0.5
                                                                            0.5
                                   0.5
                                                                     0.0
                                                                                   1.0
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
  Compiling model graph
##
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1600
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
```

5875.087

6402.770 7486.905 8444.868 8155.455 6402.770 7486.905 7141.759

betaSIZE

```
## 5590.707
## [1] "The difference of STEW impact \n between EPSIdich cut samples in ER3 has a\n probability of
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
                                                                     \beta_2
between EPSIdich cut samples in ER3 has a
            probability of -57.97 %
                 mode = -0.208
58% < 0 < 42%
                                                             mode = -0.515
79% < 0 < 21%
                    95%:HDI
                                                                95% HDI
                    -2
                          0
                                                          -3
                                                              -2
                                                                                2
                                                                                    3
         -6
              -4
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -0.254
65.8% < 0 < 34.2%
                                                              mode = 0.0754
                                                              48.4% < 0 < 51.6%
                                                                 95% HDI
                  95% HDI
                              1.45
                                                           -1.87
                                                                           1.89
                 -2
                         0
                                 2
                                                              -2
                                                                      0
                                                                             2
         -4
                                                      -4
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1529
##
##
  Initializing model
                                                                 betaGFI
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
  7987.629 8495.372 9000.000 8581.653 7987.629 8495.372 8309.401 6882.164
  betaSIZE
```

##

7116.857

```
## [1] "The difference of II_10 impact \n between EPSIdich cut samples in ER3 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
between EPSIdich cut samples in ER3 has a
            probability of 54.89 %
                mode = 6.31
45.1% < 0 < 54.9%
                                                             mode = 8.17
                                                             35.3% < 0 < 64.7%
                   95% HDI
                                                                95% HDI
                  -50 0
                           50
                                                      -100 -50
                                                                        50
                                                                             100
         -150
                                   150
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 10.6
                                                          mode = 0.997
                 39% < 0 < 61%
                                                          42.9% < 0 < 57.1%
                   95% HDI
                                                             95% HDI
                                                        47.8
                             62.6
       -100
               -50
                      0
                            50
                                   100
                                                          -50
                                                                 0
                                                                       50
                                                                             100
                 Param. Val.
                                                             Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 102
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1599
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                 beta0[2] beta1[1] beta1[2]
                                                                betaGFI
  8528.531 8168.451 9000.000 8831.218 8528.531 8168.451 7627.363
                                                                         7064.956
   betaSIZE
##
##
  7383.541
## [1] "The difference of FOR_10 impact \n between EPSIdich cut samples in ER3 has a\n probability of
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
between EPSIdich cut samples in ER3 has a
                                                                   \beta_2
            probability of -72.73 %
              mode = -9.88
72.7% < 0 < 27.3%
                                                            mode = 0.667
                                                            45.5% < 0 < 54.5%
                   95% HDI
                                                               95% HDI
           -60
                     -20
                          0
                              20
                                   40
                                                     -40
                                                            -20
                                                                         20
                                                                                40
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                 mode = 9.83
                                                            mode = -0.824
                   13.7% < 0 < 86.3%
                                                           59.4% < 0 < 40.6%
                                                               95% HDI
                    95% HDI
                                                                          18.1
              -8.46
            -20
                    0
                           20
                                  40
                                                      -40
                                                             -20
                                                                     0
                                                                           20
                                                                                  40
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
  Compiling model graph
     Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
     Observed stochastic nodes: 102
##
     Unobserved stochastic nodes: 7
##
##
     Total graph size: 1608
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7757.241 6764.606 8519.835 8521.573 7757.241 6764.606 8546.745
                                                                         6396.996
## betaSIZE
## 6173.189
## [1] "The difference of PRI impact \n between EPSIdich cut samples in ER1 has a\n probability of 8
## [1] "
```

[1] " Analysis of Y= ER1 explained by x= PRI cutted by EPSIdich"

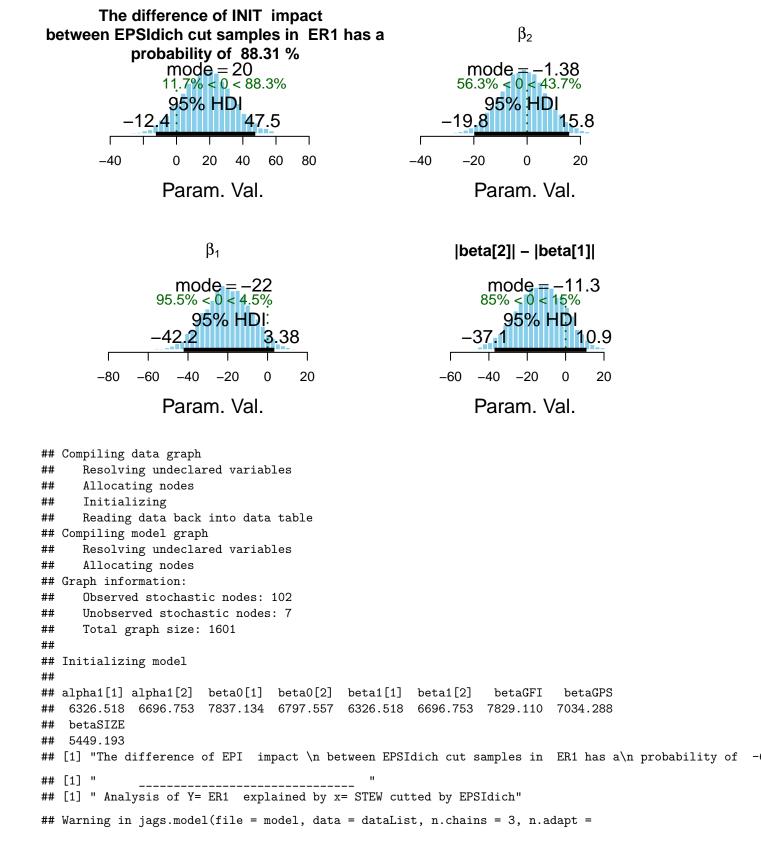
```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                    \beta_2
between EPSIdich cut samples in ER1 has a
            probability of 85.86 %
                mode = 0.69
14.1% < 0 < 85.9%
                                                           mode = -0.0131
                                                            45.9% < 0 < 54.1%
                  95% HDI
                                                               95% HDI
          -0.658
                                                        -0.936
                                                                          1.03
                         1
                               2
                                                                    0
            _1
                   0
                                     3
                                                                                  2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

mode = -0.22

71.6\% < 0 < 28.4\%

               mode = -0.706
               95.1% < 0 < 4.9%
                   95% HDI:
                                                              95% HDI
                                                                        0.657
         -2.0
                   -1.0
                              0.0
                                  0.5
                                                                     0
                                                              Param. Val.
                 Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 7
      Total graph size: 1608
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7179.219 8647.009 8069.920 7786.650 7179.219 8647.009
##
                                                               8260.102
                                                                          6497.105
##
  betaSIZE
   5902.592
## [1] "The difference of INIT impact \n between EPSIdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER1 explained by x= EPI cutted by EPSIdich"
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```



##

6099.329

500): Unused variable "n" in data

The difference of EPI impact

between EPSIdich cut samples in ER1 has a β_2 probability of -65.4 % mode = -0.365.4% < 0 < 34.6% mode = -0.2764.5% < **0** < 35.5% 95% HDI 95% HDI 1.05 0.77Г 0 0 1 -3 -2 2 -2 -1 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0949mode = -0.0077245.3% < **0** < 54.7% 41.8% < 0 < 58.2% 95% HDI 95% HDI -0.7450.906 -0.73<mark>2</mark> 0.859 -2 _1 0 1 2 -1.5-0.50.5 1.5 Param. Val. Param. Val. ## Compiling data graph ## Resolving undeclared variables ## Allocating nodes ## Initializing ## Reading data back into data table Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 102 ## Unobserved stochastic nodes: 7 ## ## Total graph size: 1600 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 6606.035 7646.924 9000.000 8826.960 6606.035 7646.924 7368.659 5476.603 betaSIZE

[1] " Analysis of Y= ER1 explained by x= II_10 cutted by EPSIdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "The difference of STEW impact \n between EPSIdich cut samples in ER1 has a\n probability of

The difference of STEW impact between EPSIdich cut samples in ER1 has a probability of 70.59 %

mode = 1.3629.4% < 0 < 70.6% 95% HDI 5.67 -5 0 5 10 Param. Val.

 β_2 mode = -1.0782.7% < 0 < 17.3% 95% HDI 1.46 -6 -4 -2 0 2 Param. Val.

 β_1 mode = -2.693.6% < 0 < 6.4% 95% HDI: -2 2 -4 0 -6 4 Param. Val.

|beta[2]| - |beta[1]| $\text{mode} = -1.32 \\
 70\% < 0 < 30\%$ 95% HDI 2.61 -8 -6 -4 -2 2 0 4 6 Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1529
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
```

500): Unused variable "n" in data

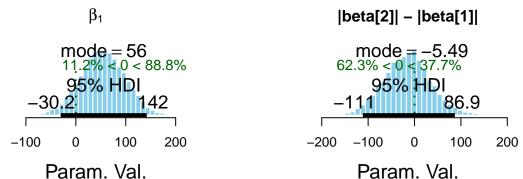
##

[1] "

betaSIZE 6819.390

betaGFI betaGPS 8524.176 9000.000 9000.000 9423.809 8524.176 9000.000 8386.245 7319.910 ## [1] "The difference of II_10 impact \n between EPSIdich cut samples in ER1 has a\n probability of ## [1] " Analysis of Y= ER1 explained by x= FOR_10 cutted by EPSIdich" ## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of II_10 impact β_2 between EPSIdich cut samples in ER1 has a probability of -80.08 % mode = -59.1 80.1% < 0 < 19.9% mode = 7.3953.7% < 0 < 46.3% 95% HDI 95%: HDI 75.6 104 -300-1000 100 200 -200 -1000 100 200 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1599
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7874.867 7955.174 8683.169 8631.837 7874.867 7955.174 7422.184
                                                                         7102.467
## betaSIZE
  7364.342
## [1] "The difference of FOR_10 impact \n between EPSIdich cut samples in ER1 has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= PRI cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of FOR_10 impact β_2 between EPSIdich cut samples in ER1 has a probability of -65.01 % mode = -5.4 65% < 0 < 35% mode = -14.2 73.4% < 0 < 26.6%95% HDI 95% HDI 39.4 -100-500 50 -500 50 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -1.96mode = 1.13 38.4% < 0 < 61.6% 56.6% < 0 < 43.4% 95% HDI 95%:HDI -20 20 -20 0 20 40 60 -600 40 80 60 -60Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## Allocating nodes ## ## Initializing Reading data back into data table

```
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1608
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  7293.821 7089.835 8522.867 7716.792 7293.821 7089.835
                                                               8576.832
                                                                         5624.104
## betaSIZE
## 5902.054
## [1] "The difference of PRI impact \n between EPSIdich cut samples in ER has a\n probability of 56
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of PRI impact β_2 between EPSIdich cut samples in ER has a probability of 56.04 % mode = 0.0161 44% < 0 < 56% mode = 0.0096651.8% < 0 < 48.2% 95% HDI 95%: HDI 0.1760.26 -0.189-0.4 -0.20.0 0.2 0.4 -0.4-0.20.0 0.2 0.4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} \text{mode} = 0.00341 \\ 43.2\% < 0 < 56.8\% \end{array}$ mode = -0.040163.9% < 0 < 36.1% 95% HDI 95% HDI -0.133-0.1**6** 0.155 -0.2 -0.10.0 0.1 0.2 -0.20.0 0.1 0.2 0.3 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 102 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1608 ## ## Initializing model

6261.507
[1] "The difference of INIT impact \n between EPSIdich cut samples in ER has a\n probability of 7
[1] " ______ "
[1] " Analysis of Y= ER explained by x= EPI cutted by EPSIdich"
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

betaGFI

8860.367 7878.863

betaGPS

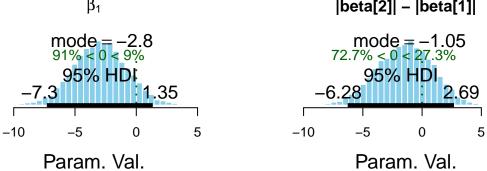
500): Unused variable "n" in data

betaSIZE

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

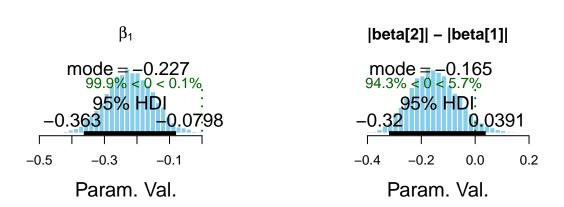
7173.774 8481.599 7826.087 6868.405 7173.774 8481.599

The difference of INIT impact β_2 between EPSIdich cut samples in ER has a probability of 73.69 % mode = 1.79 26.3% < 0 < 73.7% mode = -1.2174.9% < 0 < 25.1% 95% HDI 95% HDI 7.29 -5 0 5 10 -5 0 5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1601
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  6672.965 7508.898 8235.773 5755.459 6672.965 7508.898 7656.964
                                                                          6843.197
## betaSIZE
## 6114.666
## [1] "The difference of EPI impact \n between EPSIdich cut samples in ER has a\n probability of 95
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 between EPSIdich cut samples in ER has a probability of 95 % mode = 0.209 5% < 0 < 95% mode = -0.0273 68.4% < 0 < 31.6%95% HDI 95% HDI -0.04180.402 0.121 -0.20.0 0.2 0.4 0.6 -0.3-0.10.1 0.2 0.3 Param. Val. Param. Val.



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1600
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                           betaGPS
## 6500.321 7359.175 7880.683 7031.958 6500.321 7359.175 7160.000
                                                                          5699.767
## betaSIZE
## 6197.188
## [1] "The difference of STEW impact \n between EPSIdich cut samples in ER has a\n probability of -
## [1] "
## [1] " Analysis of Y= ER explained by x= II_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of STEW impact β_2 between EPSIdich cut samples in ER has a probability of -74.21 % mode = -0.233 74.2% < 0 < 25.8% mode = -0.19373.3% < 0 < 26.7% 95% HDI 95% HDI 0.549 -0.6810.336 -1.5-0.50.5 1.0 1.5 -1.0-0.50.0 0.5 Param, Val. Param. Val. β_1 |beta[2]| - |beta[1]|



```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1529
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  7982.266 8666.834 9696.952 7946.593 7982.266 8666.834
                                                                8554.430
                                                                          6947.714
## betaSIZE
## 6705.218
## [1] "The difference of II_10 impact \n between EPSIdich cut samples in ER has a\n probability of
## [1] "
## [1] " Analysis of Y= ER explained by x= FOR_10 cutted by EPSIdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

probability of -64.83 % mode = -7.8664.8% < 0 < 35.2% 95% HDI 95% HDI -19.219.9 21.8 -40-20 0 20 40 -20 0 20 40 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 5.72 26.4% < 0 < 73.6%mode = 0.47549.6% **< 0 <** 50.4% 95% HDI 95% HDI **-10.7 -16.5** 17.5 -40 -20 0 20 -20 0 10 20 30 40 -40Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph

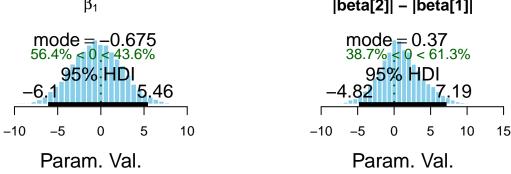
 β_2

The difference of II_10 impact

between EPSIdich cut samples in ER has a

Resolving undeclared variables ## Allocating nodes ## Graph information: ## Observed stochastic nodes: 102 Unobserved stochastic nodes: 7 ## Total graph size: 1599 ## ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8190.886 7689.460 9000.000 9000.000 8190.886 7689.460 7414.206 6902.449 ## betaSIZE 7856.223 ## [1] "The difference of FOR_10 impact \n between EPSIdich cut samples in ER has a\n probability of

The difference of FOR_10 impact β_2 between EPSIdich cut samples in ER has a probability of 70.74 % mode = 1.97 29.3% < 0 < 70.7% mode = 2.4129.4% < 0 < 70.6% 95% HDI 95% HDI -6.53-5.158.64 -15-5 0 5 10 15 20 -10 -50 5 10 15 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]|



Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')</pre>
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X[!is.na(X$EPSIdich),], x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by EPSIdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
## Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 6
```

```
##
      Total graph size: 1594
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                   betaGFI
                                                                             betaGPS
  4439.217 4499.891 4865.918 4213.936 4439.217
                                                       4499.891 4842.690 4175.587
  betaSIZE
## 3873.205
## [1] "The difference of PRI impact \n between EPSIdich cut samples in CP has a\n probability of
        The difference of PRI impact
                                                                       \beta_2
 between EPSIdich cut samples in CP has a
            probability of -67.62 %
              mode = -0.00602
67.6% < 0 < 32.4%
                                                                \begin{array}{c} \text{mode} = 0.0035 \\ 37.4\% < 0 < 62.6\% \end{array}
                                                                   95% HDI
                    95% HDI
                                                            -0.0242
           -0.0453
                                                                           0.0342
                                0.03
                                                        -0.06
                                                                 -0.02
               -0.05
                         0.00
                                   0.05
                                                                           0.02
                                                                                    0.06
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                                                            mode = -0.0016
57.8% < 0 < 42.2%
               mode = 0.0145
                 12.2% < 0 < 87.8%
                                                                 95%:HDI
                  95% HDI
                             0.0351
                                                        -0.0295
        -0.00947
                                                                          0.0245
                 0.00
                        0.02
                                0.04
                                       0.06
                                                          -0.04
                                                                     0.00
                                                                               0.04
          -0.02
                  Param. Val.
                                                                Param. Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by EPSIdich"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 1594
##
## Initializing model
```

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                            betaGPS
  4273.360 5518.913 5245.162 4287.429 4273.360 5518.913 5451.008 4381.742
## betaSIZE
## 3810.094
## [1] "The difference of INIT impact \n between EPSIdich cut samples in CP has a\n probability of 5
        The difference of INIT impact
 between EPSIdich cut samples in CP has a
                                                                     \beta_2
             probability of 51.1 %
               mode = -0.0274
                                                             mode = -0.0499
                48.9% < 0 < 51.1%
                                                             55.9% < 0 < 44.1%
                   95% HDI
                                                                 95%:HDI
                             0.963
                                                                            0.486
          -1.5
                  -0.5
                           0.5
                                    1.5
                                                        -1.0
                                                               -0.5
                                                                      0.0
                                                                             0.5
                                                                                    1.0
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
              mode = -0.0828
56.6% < 0 < 43.4%
                                                            \begin{array}{l} mode = -0.00692 \\ 59.1\% < 0 < 40.9\% \end{array}
                  95% HDI
                                                                95% HDI
          -0.796
                                                         -0.652
                             0.636
                                                                           0.45
           -1.0 -0.5
                       0.0
                                                               -0.5
                             0.5
                                   1.0
                                                        -1.0
                                                                      0.0
                                                                            0.5
                                                                                  1.0
                 Param. Val.
                                                               Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by EPSIdich"
  Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 102
##
      Unobserved stochastic nodes: 6
     Total graph size: 1587
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                            betaGPS
## 4194.312 4288.597 5669.923 3623.189 4194.312 4288.597 4499.293 4527.764
```

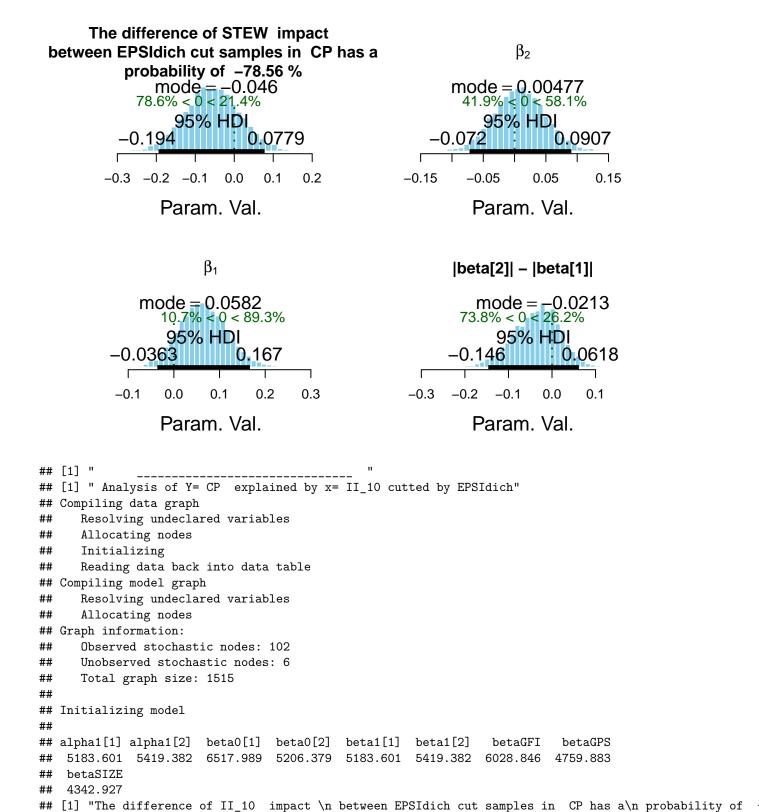
```
## [1] "The difference of EPI impact \n between EPSIdich cut samples in CP has a\n probability of 90
        The difference of EPI impact
                                                                    \beta_2
 between EPSIdich cut samples in CP has a
            probability of 90.88 %
              mode = 0.0259
                                                             mode = 0.0126
                9.1\% < 0 < 90.9\%
                                                                19% < 0 < 81%
                                                                95% HDI
                  95% HDI
        -0.00937
                            0.0656
                                                                          0.0403
                0.00
                        0.04
                                                                0.00 0.02 0.04 0.06
        -0.04
                                0.08
                                                     -0.04
                 Param. Val.
                                                              Param, Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

mode = 9.45e - 05

50.4\% < 0 < 49.6\%

            mode = -0.0144
85.8% < 0 < 14.2%
                  95% HDI
                                                               95% HDI
         -0.0382
                                                       -0.0279
                                                                         0.0297
            -0.04 -0.02 0.00
                                0.02
                                                       -0.04
                                                                  0.00
                                                                            0.04
                 Param. Val.
                                                              Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by EPSIdich"
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
      Observed stochastic nodes: 102
##
##
      Unobserved stochastic nodes: 6
##
      Total graph size: 1586
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                                          betaGPS
                                                     beta1[2]
                                                                 betaGFI
## 3743.461 4932.825 5129.363 4746.944 3743.461 4932.825 4633.990 3784.590
## betaSIZE
## 4116.099
## [1] "The difference of STEW impact \n between EPSIdich cut samples in CP has a\n probability of -
```

betaSIZE ## 3628.330



β_2 between EPSIdich cut samples in CP has a probability of -76.68 % mode = -2.1376.7% < 0 < 23.3% 95% HDI 95% HDI -6.012.67 3.66-10-5 0 5 -4 -20 2 4 6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.038355.5% < 0 < 44.5%95%:HDI 95% HDI -1.61 -2 2 -2 2 0 4 6 -4 0 4 6 -6 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by EPSIdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 102 ## Unobserved stochastic nodes: 6 ## Total graph size: 1585

The difference of II_10 impact

##

##

##

Initializing model

alpha1[1] alpha1[2]

betaSIZE

4541.073

5144.706 4628.289 5064.358

5127.875 5144.706 4628.289

[1] "The difference of FOR_10 impact \n between EPSIdich cut samples in CP has a\n probability of

beta1[2]

betaGFI

4947.591 4768.016

betaGPS

beta0[1] beta0[2] beta1[1]

probability of -54.39 % mode = -0.21354.4% < 0. < 45.6% mode = -0.039652.3% < 0 < 47.7% 95%: HDI 95%: HDI 1.08 -3 -2 -1 0 2 -2 -1 0 1 2 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.0878 $\text{mode} = -0.003 \\ 45.5\% < 0 < 54.5\%$ 46.6% < **0** < 53.4% 95% HDI 95% HDI -0.8**67** 0.991 -0.806 0.974-1.5 -0.50.5 0 2 1.5 -1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= PRI cutted by EPSIdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 102 ## Unobserved stochastic nodes: 6 ## Total graph size: 1594

 β_2

The difference of FOR_10 impact

between EPSIdich cut samples in CP has a

##

##

##

Initializing model

betaSIZE

3740.325

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

4626.662 4842.533 5087.449 4361.588 4626.662 4842.533 5224.738

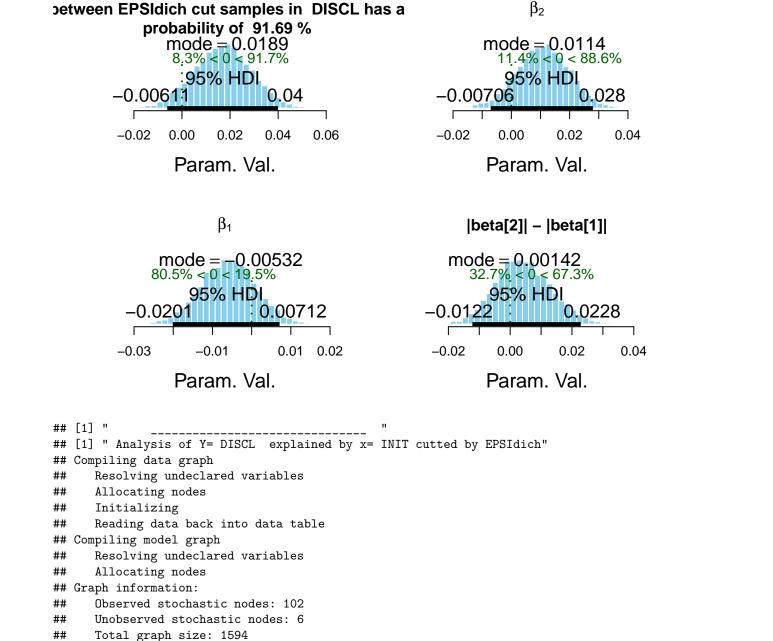
beta1[2]

[1] "The difference of PRI impact \n between EPSIdich cut samples in DISCL has a\n probability of

betaGFI

betaGPS

4351.970



The difference of PRI impact

##

##

Initializing model

betaSIZE

3668.547

[1] "The difference of INIT impact \n between EPSIdich cut samples in DISCL has a\n probability of

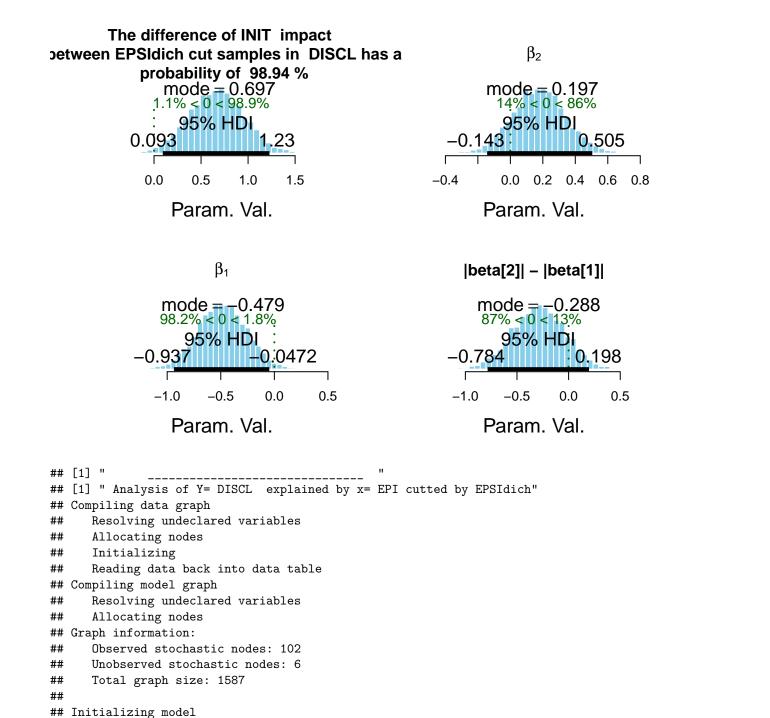
betaGFI

betaGPS

4564.214

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

4406.634 5071.241 5231.651 4053.490 4406.634 5071.241 5483.578



beta1[2]

[1] "The difference of EPI impact \n between EPSIdich cut samples in DISCL has a\n probability of

4224.839 4777.369

betaGFI

betaGPS

4866.821

beta0[1] beta0[2] beta1[1]

3838.327 3816.267

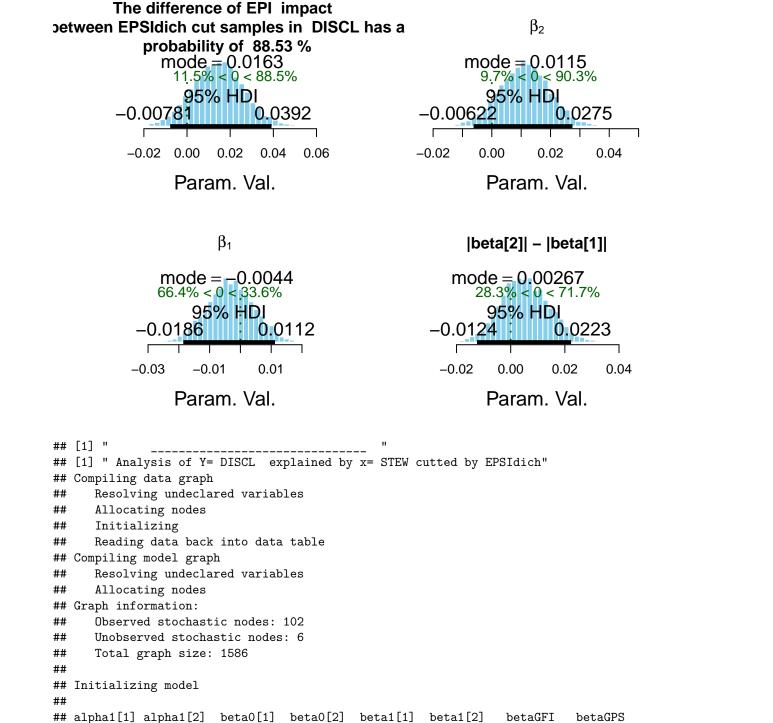
5998.427

##

alpha1[1] alpha1[2]

betaSIZE ## 3698.065

3816.267 4224.839

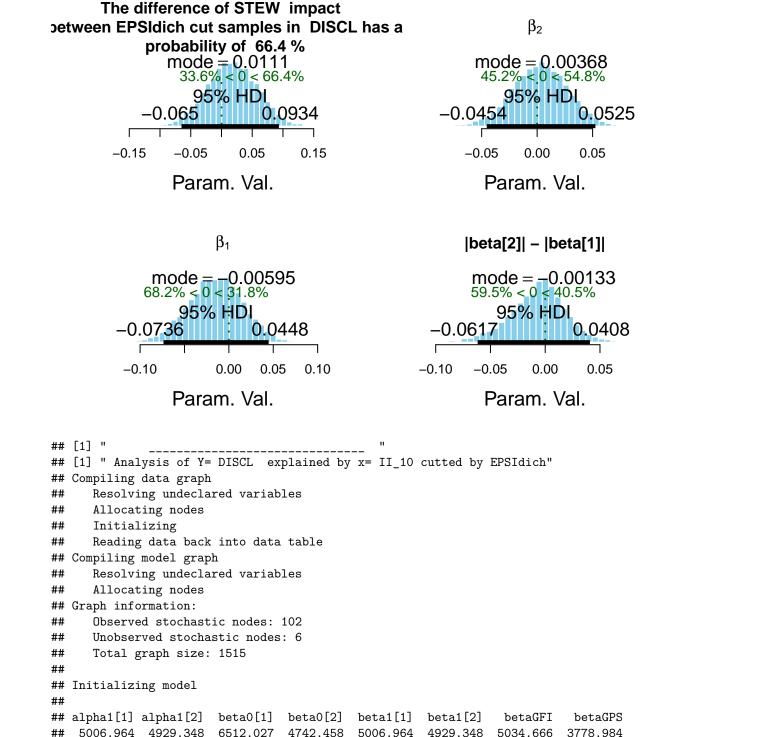


[1] "The difference of STEW impact \n between EPSIdich cut samples in DISCL has a\n probability of

3489.022

4170.442 4627.398 5692.047 5228.587 4170.442 4627.398 4758.252

betaSIZE ## 4397.604



[1] "The difference of II_10 impact \n between EPSIdich cut samples in DISCL has a\n probability o

betaSIZE ## 4404.262

probability of -65.16 % mode = -0.449 65.2% < 0 < 34.8% mode = -0.44165.5% < **0** < **3**4.5% 95% HDI 95% HDI 1.55 -6 -4 -2 0 2 4 -4 -2 0 2 4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.0525 \\ 40.6\% < 0 < 59.4\% \end{array}$ mode = 0.215 45.5% < 0 < 54.5% 95% HDI 95% HDI -1.48 1.66 -2 2 3 -2 0 2 -1 0 4 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= DISCL explained by x= FOR_10 cutted by EPSIdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 102 ## Unobserved stochastic nodes: 6 ## Total graph size: 1585 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 5195.766 5139.026 5627.687 5773.194 5195.766 5139.026 4652.330 4949.965

 β_2

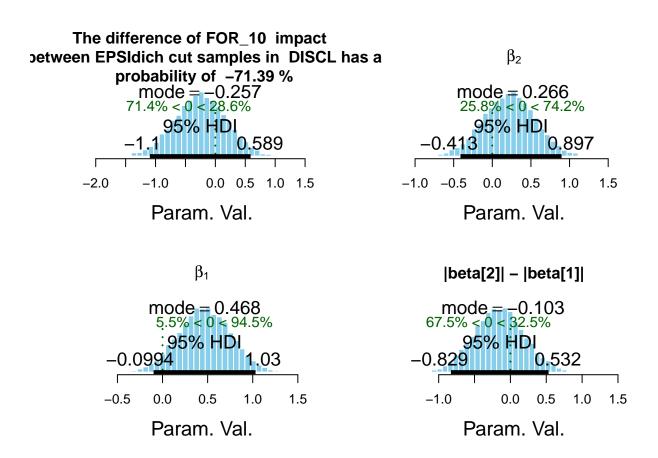
The difference of II_10 impact

betaSIZE 5056.693

##

between EPSIdich cut samples in DISCL has a

[1] "The difference of FOR_10 impact \n between EPSIdich cut samples in DISCL has a\n probability



BASEL*EPSI-Separated Bayesian models

Quantitative Y

```
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1406
##
##
  Initializing model
##
                                                                   betaGFI
##
  alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1]
                                                        beta1[2]
                                                                              betaGPS
    8569.784 7875.244
                        9454.193 8896.843 8569.784
                                                        7875.244
                                                                  7165.540
                                                                             6135.215
    betaSIZE
##
    7361.929
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in EPS has a\n probability
## [1] " Analysis of Y= EPS explained by x= INIT cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                       \beta_2
ween EPSIBASELdich cut samples in EPS has a
             probability of 70.52 %
               mode = 0.0745
29.5% < 0 < 70.5%
                                                                mode = 0.319
                                                                  10.4% < 0 < 89.6%
                    95% HDI
                                                                   95% HDI
                               0.835
                                                          -0.2081
                                                                              0.844
          -1.0 -0.5 0.0
                            0.5
                                                          -0.5
                                                                  0.0
                                                                          0.5
                                 1.0
                                       1.5
                                                                                 1.0
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|
                 mode = 0.174
17.8% < 0 < 82.2%
                                                            \begin{array}{c} mode = 0.0191 \\ 28.4\% < 0 < 71.6\% \end{array}
                    95% HDI
                                                                  95% HDI
             -0.179
                               0.511
                         0.2
        -0.6
                -0.2
                                 0.6
                                                            -0.5
                                                                    0.0
                                                                           0.5
                                                                                  1.0
                  Param. Val.
                                                                Param. Val.
```

Compiling data graph

Resolving undeclared variables

Allocating nodes

Initializing

```
Reading data back into data table
## Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1406
##
##
##
  Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   8633.901 7973.971 8673.669 8103.277 8633.901 7973.971
                                                              6856.142
                                                                        6509.256
   betaSIZE
##
## 8504.995
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in EPS has a\n probability
## [1] " Analysis of Y= EPS explained by x= EPI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                  \beta_2
ween EPSIBASELdich cut samples in EPS has a
            probability of 54.81 %

mode = -3.08

73.3\% < 0 < 26.7\%

                 95% HDI
                                                             95% HDI
           -15.6 16.8
                -10 0 10 20
                                                        -20 -10
        -30
                                 30 40
                                                                    0
                                                                          10
                                                                               20
                Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|

mode = -5.18

81.4\% < 0 < 18.6\%

                                                          mode = 0.0188
                                                          52.3% < 0 < 47.7%
                   95% HDI
                                                              95% HDI
                          0
            -20
                   -10
                                 10
                                                      -20
                                                           -10
                                                                       10
                                                                             20
                 Param. Val.
                                                            Param. Val.
```

Compiling data graph
Resolving undeclared variables
Allocating nodes
Initializing
Reading data back into data table

```
## Compiling model graph
##
     Resolving undeclared variables
     Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 89
     Unobserved stochastic nodes: 7
##
     Total graph size: 1399
##
##
## Initializing model
##
  alpha1[1] alpha1[2]
                       beta0[1]
                                beta0[2]
                                         beta1[1] beta1[2]
                                                               betaGFI
                                                                        betaGPS
   6667.141 5363.176 6461.860 5085.851 6667.141 5363.176 7700.004
                                                                       6769.925
##
   betaSIZE
  6918.091
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in EPS has a\n probability
## [1] " Analysis of Y= EPS explained by x= STEW cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
ween EPSIBASELdich cut samples in EPS has a
                                                                  \beta_2
            probability of 78.88 %
               mode = 0.358
                                                          mode = 0.0071
                21.1% < 0 < 78.9%
                                                           45.9% < 0 < 54.1%
                                                              95% HDI
                 95% HDI
          -0.463
                                                      -0.566
                                                                        0.613
         -1.0
                  0.0 0.5 1.0 1.5 2.0
                                                    -1.0
                                                          -0.5
                                                                 0.0
                                                                       0.5
                                                                              1.0
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
                mode = -0.273
                                                        mode = -0.0909
               92.1% < 0 < 7.9%
                                                        58.4% < 0 < 41.6%
                    95% HDI
                                                             95%:HDI
                                                       0.521
                             ©.117
                                                                       0.44
         -1.0
                  -0.5
                            0.0
                                                   -1.0
                                                          -0.5
                                                                 0.0
                                                                        0.5
                                                                               1.0
                 Param. Val.
                                                            Param. Val.
  Compiling data graph
##
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
```

##

Reading data back into data table

Compiling model graph

```
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 89
##
##
     Unobserved stochastic nodes: 7
     Total graph size: 1399
##
##
## Initializing model
##
                                          beta1[1] beta1[2]
##
  alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                                                betaGFI
                                                                          betaGPS
   6337.502 8806.959
                       7294.389
                                 6695.996
                                           6337.502 8806.959
                                                               5984.322
                                                                         6703.253
   betaSIZE
##
   7561.040
##
  [1] "The difference of STEW impact \n between EPSIBASELdich cut samples in EPS has a\n probability
  [1] " Analysis of Y= EPS explained by x= II_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
ween EPSIBASELdich cut samples in EPS has a
                                                                   \beta_2
             probability of 53.8 %
                mode = 0.16
46.2% < 0 < 53.8%
                                                             mode = 0.149
                                                            44.9% < 0 < 55.1%
                   95% HDI
                                                               95% HDI
                                                          1.04
                              2.98
                                                                           1.17
        -6
                  -2
                       0
                            2
                                 4
                                      6
                                                      -2
                                                             -1
                                                                    0
                                                                          1
                                                                                 2
             -4
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
               mode = 0.0518
                                                                  mode = -0.119
              51.6% < 0 < 48.4%
                                                              73.7% < 0 < 26.3%
                  95% HDI
                                                                   95% HDI
                                                             -2.36
                                                                             0.975
                             2.57
                                                                          -3 -2 -1
                 -2
                       0
                                                     -5 -4
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
     Resolving undeclared variables
```

```
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 89
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1336
##
## Initializing model
##
  alpha1[1] alpha1[2] beta0[1]
                                  beta0[2]
                                            beta1[1]
                                                      beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   7785.589 8705.300
                        8024.418
                                  9000.000
                                            7785.589 8705.300 7437.393
                                                                           6707.829
   betaSIZE
   7181.300
##
## [1] "The difference of II_10 impact \n between EPSIBASELdich cut samples in EPS has a\n probabilit
## [1] " Analysis of Y= EPS explained by x= FOR_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of II_10 impact
                                                                     \beta_2
ween EPSIBASELdich cut samples in EPS has a
              probability of 53 %
                  mode = 1.56
47% < 0 < 53%
                                                              mode = 13.9
24.5% < 0 < 75.5%
                     95% HDI
                                                                 95% HDI
                67.4
                                76.3
         -150
                   -50
                              50
                                  100
                                                          -50
                                                                   0
                                                                          50
                                                                                  100
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                  mode = 17.3
                                                              mode = -0.276
53.8% < 0 < 46.2%
                 32.7% < 0 < 67.3%
                                                                   95%:HDI
                    95% HDI
                                                                              47.4
         -100
               -50
                       0
                             50
                                   100
                                                       -100
                                                               -50
                                                                        0
                                                                               50
                 Param. Val.
                                                               Param. Val.
##
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
  Compiling model graph
##
##
      Resolving undeclared variables
##
      Allocating nodes
```

```
## Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1396
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   7181.213 6892.004 9000.000 8846.882 7181.213 6892.004
                                                                6621.269
                                                                          6438.836
##
   betaSIZE
   7369.200
## [1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in EPS has a\n probabili
## [1] " Analysis of Y= ET3 explained by x= PRI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
                                                                    \beta_2
ween EPSIBASELdich cut samples in EPS has a
            probability of 74.37 %
                  mode = 9.94
25.6% < 0 < 74.4%
                                                              mode = 12.4
13.4% < 0 < 86.6%
                    95% HDI
                                                               95% HDI
                              33.6
                                                         -7.88
                                                                          29.8
               -17.6
                 -20
                       0
                           20
                                                       -20
                                                                0
                                                                       20
        -60
                                40
                                     60
                                                                              40
                                                              Param. Val.
                 Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
               mode = 1.16
                                                             mode = 1.84
              41.9% < 0 < 58.1%
                                                              31.8% < 0 < 68.2%
                 95% HDI
                                                                95% HDI
           -15.5
             -20
                     0
                            20
                                   40
                                                    -40
                                                           -20
                                                                   0
                                                                         20
                                                                                40
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
## Graph information:
```

```
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
      Total graph size: 1406
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                             betaGPS
   8013.087 7621.104 9190.992 8622.371 8013.087 7621.104 7300.232 7061.119
##
   betaSIZE
  7179.746
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in ET3 has a\n probability
## [1] " Analysis of Y= ET3 explained by x= INIT cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                      \beta_2
tween EPSIBASELdich cut samples in ET3 has a
             probability of 71.33 %
                 mode = 0.201
28.7% < 0 < 71.3%
                                                            mode = -0.291
75.2% < 0 < 24.8%
                     95% HDI
                                                                  95% HDI
                                                                             0.479
                        0
                                       2
                                                        -1.5
                                                                   -0.5
                                                                         0.0
                                                                              0.5
                                                                                    1.0
                  Param. Val.
                                                                Param. Val.
                        \beta_1
                                                             |beta[2]| - |beta[1]|

mode = -0.474

98.3\% < 0 < 1.7\%
                                                           mode = -0.189 67.6% < 0 < 32.4%
                   95% HDI
                                                                95% HDI
           -0.934
                             -0:0288
                                                                           0.547
                      -0.5
              -1.0
                               0.0
                                       0.5
                                                          -1.0 -0.5 0.0
                                                                           0.5
                                                                                 1.0
                  Param. Val.
                                                                Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
      Allocating nodes
##
```

Graph information:

Observed stochastic nodes: 89

```
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1406
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                     betaGFI
                                                                               betaGPS
   8442.963 7946.481 8519.786 8031.234 8442.963
                                                         7946.481 7002.595
    betaSIZE
##
   7675.904
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in ET3 has a\n probability
## [1] " Analysis of Y= ET3 explained by x= EPI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
tween EPSIBASELdich cut samples in ET3 has a
                                                                        \beta_2
             probability of 82.68 %
                   mode = 9.51
17.3% < 0 < 82.7%

    \text{mode} = -6.53

    77.6\% < 0 < 22.4\%

                                                                      95% HDI
                      95% HDI
                                                                                9.47
             -20
                      0
                              20
                                                                   -20
                                     40
                                                          -40
                                                                             0
                                                                                 10 20
                  Param. Val.
                                                                  Param. Val.
                         \beta_1
                                                               |beta[2]| - |beta[1]|

    \text{mode} = -15.9 \\
    98.7\% < 0 < 1.3\%

                                                            mode = -8.1
81.4% < 0 < 18.6%
                                                                  95% HDI
                    95% HDI
                            -10
          -40
                -30
                      -20
                                         10
                                                         -40
                                                                               10
                                                                                   20
                                                                                       30
                                                                  Param. Val.
                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
   Graph information:
##
```

##

Observed stochastic nodes: 89

Unobserved stochastic nodes: 7

```
##
      Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   6058.806 5558.043 5629.924 4714.753 6058.806 5558.043 7014.088 6772.666
   betaSIZE
## 6963.919
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in ET3 has a\n probability
## [1] " Analysis of Y= ET3 explained by x= STEW cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                      \beta_2
tween EPSIBASELdich cut samples in ET3 has a
             probability of 76.58 %
                  mode = 0.465
23.4% < 0 < 76.6%
                                                              mode = 0.055
49.9% < 0 < 50.1%
                    95% HDI
                                                                  95%:HDI
                      0
                                     2
                                                       -1.5
                                                                 -0.5
                                                                           0.5
                                                                               1.0 1.5
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
               mode = -0.369
91.9% < 0 < 8.1%
                                                            mode = -0.0292
58.7% < 0 < 41.3%
                    95% HDI
                                                                95%:HDI
            -0.865
                               0.139
                                                         -0.704
                                                                          0.585
                      -0.5
              -1.0
                              0.0
                                     0.5
                                                          -1.0
                                                                     0.0
                                                                          0.5
                                                                               1.0
                                                                                    1.5
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
```

Total graph size: 1399

```
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                betaGFI
                                                                          betaGPS
  6146.115 8330.302 7221.719 6665.174 6146.115 8330.302
                                                               6433.961
                                                                         7109.463
   betaSIZE
##
  7626.572
## [1] "The difference of STEW impact \n between EPSIBASELdich cut samples in ET3 has a\n probability
## [1] " Analysis of Y= ET3 explained by x= II_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
tween EPSIBASELdich cut samples in ET3 has a
                                                                    \beta_2
            probability of 99.19 %
                                                            mode = 0.365
32.9% < 0 < 67.1%
                mode = 4.57
0.8% < 0 < 99.2%
                   95% HDI
                                                              95% HDI
             0.827
                0
                         5
                                  10
                                                       -2
                                                            -1
                                                                  0
                                                                           2
                                                                                3
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
              mode = -4.46
                                                              mode = -3.5
               99.3% < 0 < 0.7%
                                                              98.1% < 0 < 1.9%
                 95% HDI
                                                                 95% HDI
                  -6 -4
                                                                                   2
         -10
                                                    -10
                                                         -8
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 89
```

##

##

Unobserved stochastic nodes: 7

Total graph size: 1336

```
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   8840.689 7674.967
                       8329.093 9000.000 8840.689
                                                    7674.967
                                                             7425.221
                                                                        6819.680
##
   betaSIZE
  7605.327
##
## [1] "The difference of II 10 impact \n between EPSIBASELdich cut samples in ET3 has a\n probabilit
## [1] " Analysis of Y= ET3 explained by x= FOR_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                   \beta_2
tween EPSIBASELdich cut samples in ET3 has a
            probability of 76.84 %
                                                           mode = 33.5
23.2% < 0 < 76.8%
                   95% HDI
                                                              95% HDI
                     0
                           100
             -100
                                 200
                                                   -100 -50
                                                                     50
                                                                          100
                                                                               150
                 Param. Val.
                                                            Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                             mode = 1.33
              mode = -14.7
             59.4% < 0 < 40.6%
                                                            49.3% < 0 < 50.7%
                  95%:HDI
                                                               95%:HDI
       -150
                 -50
                           50
                               100
                                                       -100 -50
                                                                         50
                                                                              100
                 Param, Val.
                                                            Param, Val.
## Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1396
##
```

Initializing model

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
   7332.388 7925.721 8805.694 8416.121 7332.388 7925.721
                                                                        6404.106
                                                              6958.141
  betaSIZE
##
   7507.740
## [1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in ET3 has a\n probabili
## [1] " Analysis of Y= ER3 explained by x= PRI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
tween EPSIBASELdich cut samples in ET3 has a
                                                                  \beta_2
            probability of -88.41 %
             mode = -20.9
88.4% < 0 < 11.6%
                                                           mode = -8.6
                                                        75.3\% < 0 < 24.7\%
                  95% HD1
                                                             95% HDI
```

-40

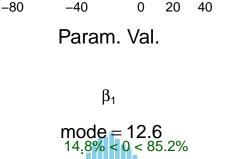
-20

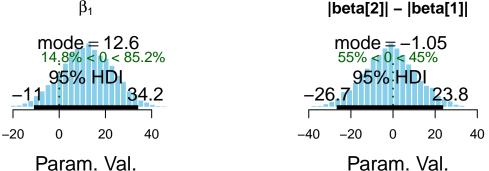
0

Param. Val.

20

40





```
Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1406
## Initializing model
##
```

```
## alpha1[1] alpha1[2] beta0[1] beta1[2] beta1[2]
                                                              betaGFI
  8407.207 7375.723 9564.825 9469.190 8407.207 7375.723 6855.561 6580.978
  betaSIZE
## 7054.870
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in ER3 has a\n probability
## [1] " Analysis of Y= ER3 explained by x= INIT cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                   \beta_2
ween EPSIBASELdich cut samples in ER3 has a
            probability of 81.77 %
               mode = 0.322
18.2% < 0 < 81.8%
                                                            mode = -0.123
                                                          65.7% < 0 < 34.3%
                                                               95% HDI
                   95% HDI
            -0.409
       -1.5
               -0.5
                       0.5
                               1.5
                                                   -1.5 -1.0 -0.5 0.0
                                                                          0.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                        mode = -0.264
77.3% < 0 < 22.7%
                mode_{=} -0.49
               99.2% < 0 < 0.8%
                  95% HDI
                                                              95% HDI
                           -0.0882
                                                       -0.805
              -1.0
                      -0.5
                                                        -1.0 -0.5
                                                                           0.5
                              0.0
                                                                     0.0
                                                                                 1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1406
##
## Initializing model
##
```

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] beta0FI

```
## 8280.125 7075.584 8826.281 8434.953 8280.125 7075.584 6610.297 6539.487
##
  betaSTZE
  7451.621
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in ER3 has a\n probability
## [1] "
## [1] " Analysis of Y= ER3 explained by x= EPI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
ween EPSIBASELdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 92.8 %
                  mode = 17.9
7.2% < 0 < 92.8%
                                                               mode = -4.03
                                                            71.9% < 0 < 28.1%
                   95% HDI
                                                                 95% HDI
               4.91
                                                             .19
            -20
                   0
                         20
                                                                        0
                                                                             10
                                40
                                      60
                                                       -30
                                                           -20
                                                                  -10
                                                                                   20
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

    \text{mode} = -20.4
    99.7\% < 0 < 0.3\%

                                                            mode = -12.1
                                                             92% < 0 < 8%
                   95% HDI
                                                               95% HD1
                                                                         5.47
            -40 -30 -20 -10
                                  0
                                       10
                                                      -40
                                                               -20
                                                                         0
                                                                             10
                                                                                 20
                 Param. Val.
                                                              Param, Val.
## Compiling data graph
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 89
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1399
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
```

6025.799 5353.467 5687.523 4518.245 6025.799 5353.467 7321.129 6794.481

```
## betaSIZE
## 8078.565
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in ER3 has a\n probability
## [1] " Analysis of Y= ER3 explained by x= STEW cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of EPI impact
                                                                   \beta_2
ween EPSIBASELdich cut samples in ER3 has a
            probability of 86.88 %
                  mode = 0.589
                                                            mode = 0.142
                    13.1% < 0 < 86.9%
                                                             34.8% < 0 < 65.2%
                     95% HDI
                                                               95% HDI
                                                       -0.611
                                                                         0.888
              -1
                     0
                                    2
                                                       -1.0
                                                                 0.0
                                                                      0.5
                                                                          1.0
                                                                               1.5
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                         mode = -0.0805
59.6% < 0 < 40.4%
              mode = -0.378
             93.8% < 0 < 6.2%
                  95% HDI:
                                                              95%:HDI
           -0.855
                           0.0954
                                                       -0.672
                                                                        0.589
                                                                  0.0
            -1.0
                   -0.5
                           0.0
                                                       -1.0 -0.5
                                  0.5
                                                                        0.5
                                                                              1.0
                 Param. Val.
                                                             Param. Val.
## Compiling data graph
     Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
     Reading data back into data table
##
  Compiling model graph
##
##
     Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
     Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  6338.281 8771.779 7736.414 7106.786 6338.281 8771.779
                                                              6577.149
                                                                        6676.430
```

betaSIZE

```
## 7478.484
## [1] "The difference of STEW impact \n between EPSIBASELdich cut samples in ER3 has a\n probability
## [1] " Analysis of Y= ER3 explained by x= II_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of STEW impact
ween EPSIBASELdich cut samples in ER3 has a
                                                                     \beta_2
             probability of 97.77 %
                  mode = 3.69
2.2% < 0 < 97.8%
                                                              mode = 0.249
                                                              40.7% < 0 < 59.3%
                  :95% HDI
                                                                 95% HDI
                          6.74
                           5
         -5
                                                                    0
                                                                               2
                                    10
                                                         -2
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|

    \text{mode} = -3.11 \\
    96.2\% < 0 < 3.8\%

                mode = -3.73
                98.4% < 0 < 1.6%
                   95% HDI
                                                                  95% HDI
        -10 -8 -6 -4 -2
                                    2
                                                                        -2
                                                                              0
                                                                                   2
                                                         -8
                 Param. Val.
                                                              Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
      Initializing
##
##
      Reading data back into data table
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
## Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1336
##
## Initializing model
                                                                 betaGFI
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                           betaGPS
  8560.294 9475.801 8514.243 9208.835 8560.294 9475.801 7387.159 6896.332
  betaSIZE
##
```

7930.812

```
## [1] "The difference of II_10 impact \n between EPSIBASELdich cut samples in ER3 has a\n probabilit
## [1] "
## [1] " Analysis of Y= ER3 explained by x= FOR_10 cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
       The difference of II_10 impact
                                                                    \beta_2
ween EPSIBASELdich cut samples in ER3 has a
            probability of 67.79 %
                  mode = 20.9
32.2% < 0 < 67.8%
                                                             mode = 24.7
20.2% < 0 < 79.8%
                     95% HDI
                                                              95% HDI
                               113
                                                         -33.6
       -200
              -100
                              100
                                                          -50
                                                                 0
                                                                      50
                                                                           100
                                      200
                                                                                 150
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = 1.75
                                                           mode = -0.653
               46.7% < 0 < 53.3%
                                                           47.6% < 0 < 52.4%
                                                               95% HDI
                  95% HDI
           -100
                       0
                           50
                                100
                                     150
                                                        -100
                                                                   0
                                                                             100
                                                                                 150
                 Param. Val.
                                                              Param. Val.
  Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
##
   Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1396
##
##
  Initializing model
##
## alpha1[1] alpha1[2] beta0[1]
                                 beta0[2] beta1[1]
                                                     beta1[2]
                                                                 betaGFI
  7688.499 7136.479 8800.966 8577.108 7688.499
                                                     7136.479
                                                               6646.530
                                                                         6461.334
   betaSIZE
##
##
  7987.781
## [1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in ER3 has a\n probabili
```

```
## [1] " Analysis of Y= ER1 explained by x= PRI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
      The difference of FOR_10 impact
ween EPSIBASELdich cut samples in ER3 has a
                                                                     \beta_2
            probability of -94.33 %
                                                           \begin{array}{c} mode = -6.58 \\ 67.6\% < 0 < 32.4\% \end{array}
             mode = -26.2
94.3% < 0 < 5.7%
                   95% HDI
                                                                 95% HDI
          -80
                   -40
                                20
                                                      -60
                                                          -40
                                                                -20
                                                                            20
                                                               Param. Val.
                  Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|
                 mode = 19.9
                                                             mode = -14.5
                                                            78.8% < 0 < 21.2%
                  2.9% < 0 < 97.1%
                   95% HDI
                                                                  95% HDI
                              40.4
          -20
                 0
                        20
                              40
                                     60
                                                       -60
                                                            -40
                                                                  -20
                                                                         0
                                                                               20
                                                                                     40
                                                               Param. Val.
                  Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
##
      Reading data back into data table
   Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
##
      Observed stochastic nodes: 89
      Unobserved stochastic nodes: 7
##
##
      Total graph size: 1406
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                  betaGFI
                                                                            betaGPS
   9000.000 7549.849 9000.000 9000.000 7549.849 7809.104 6037.830
## betaSIZE
    7531.113
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in ER1 has a\n probability
## [1] "
```

```
## [1] " Analysis of Y= ER1 explained by x= INIT cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of PRI impact
                                                                     \beta_2
:ween EPSIBASELdich cut samples in ER1 has a
            probability of -89.31 %
              mode = -0.765
89.3% < 0 < 10.7%
                                                               mode = -1.06
                                                             95.6% < 0 < 4.4%
                    95% HDI
                                                                  95% HDI:
            -3
                  -2
                       _1
                              0
                                   1
                                                         -3
                                                                -2
                                                                      _1
                                                                             0
                                                                                    1
                 Param. Val.
                                                               Param. Val.
                        \beta_1
                                                            |beta[2]| - |beta[1]|

mode = -0.123

64.5\% < 0 < .35.5\%

                                                            mode = 0.691
12.2% < 0 < 87.8%
                   95% HDI
                                                               95% HDI
             -0.86
                                                       -0.452
                                                                           1.85
                              0.603
                                                                             2
        -1.5
                   -0.5 0.0
                             0.5
                                                        -1
                                                               0
                                                                                    3
                 Param. Val.
                                                               Param. Val.
## Compiling data graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
  Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
      Total graph size: 1406
##
##
## Initializing model
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                                  betaGFI
                                                                            betaGPS
                                                       beta1[2]
   8517.342 6983.397 8232.255 7975.436 8517.342
                                                      6983.397 7009.870
##
                                                                           6714.758
##
   betaSIZE
   7059.085
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in ER1 has a\n probability
## [1] "
## [1] " Analysis of Y= ER1 explained by x= EPI cutted by EPSIBASELdich"
```

```
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
        The difference of INIT impact
                                                                    \beta_2
ween EPSIBASELdich cut samples in ER1 has a
            probability of -65.21 %
              mode = -6.48
65.2% < 0 < 34.8%
                                                             mode_{-} - 16.5
                                                         89.6% < 0 < 10.4%
                  95% HDI
                                                               95% HDI
                             26.2
        -80
                -40
                         0
                            20
                                40
                                    60
                                                       -60
                                                            -40
                                                                  -20
                                                                         0
                                                                             20
                                                                                   40
                 Param. Val.
                                                              Param. Val.
                       \beta_1
                                                           |beta[2]| - |beta[1]|
                mode = -9.76
                                                            mode = 2.93
                                                            36.2% < 0 < 63.8%
             78.5\% < 0 < 21.5\%
                                                               95% HDI
                   95% HDI
                                                                         33.5
             -40
                   -20
                          0
                                20
                                     40
                                                       -40
                                                           -20
                                                                  0
                                                                       20
                                                                            40
                                                                                 60
                 Param. Val.
                                                              Param. Val.
  Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
      Resolving undeclared variables
##
##
      Allocating nodes
  Graph information:
##
      Observed stochastic nodes: 89
      Unobserved stochastic nodes: 7
##
      Total graph size: 1399
##
##
## Initializing model
##
## alpha1[1] alpha1[2]
                       beta0[1]
                                 beta0[2]
                                           beta1[1]
                                                     beta1[2]
                                                                 betaGFI
                                                                          betaGPS
  6496.027 5257.778 5413.535 5373.709 6496.027 5257.778
                                                               7586.399
                                                                         7278.677
   betaSIZE
   6505.244
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in ER1 has a\n probability
```

[1] " Analysis of Y= ER1 explained by x= STEW cutted by EPSIBASELdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

betaSIZE ## 7811.936

The difference of EPI impact ween EPSIBASELdich cut samples in ER1 has a

probability of 92.77 % $\begin{array}{c} mode = 0.786 \\ 8.4\% < 0 < 91.6\% \end{array}$ mode = 1.11 7.2% < 0 < 92.8% 95% HDI 95% HDI -0.384-0.3992.17 2 -2 -1 0 -1 3 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.22mode = 0.33919.5% < 0 < 80.5% 75.2% < **0** < **2**4.8% 95% HDI 95% HDI -1.060.522-0.5471.83 _1 -1.5-0.50.5 1.0 0 1 2 3 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 89 ## Unobserved stochastic nodes: 7 ## Total graph size: 1399 ## ## ## Initializing model

 β_2

betaGFI

6385.651

betaGPS

6543.220

[1] " Analysis of Y= ER1 explained by x= II_10 cutted by EPSIBASELdich"

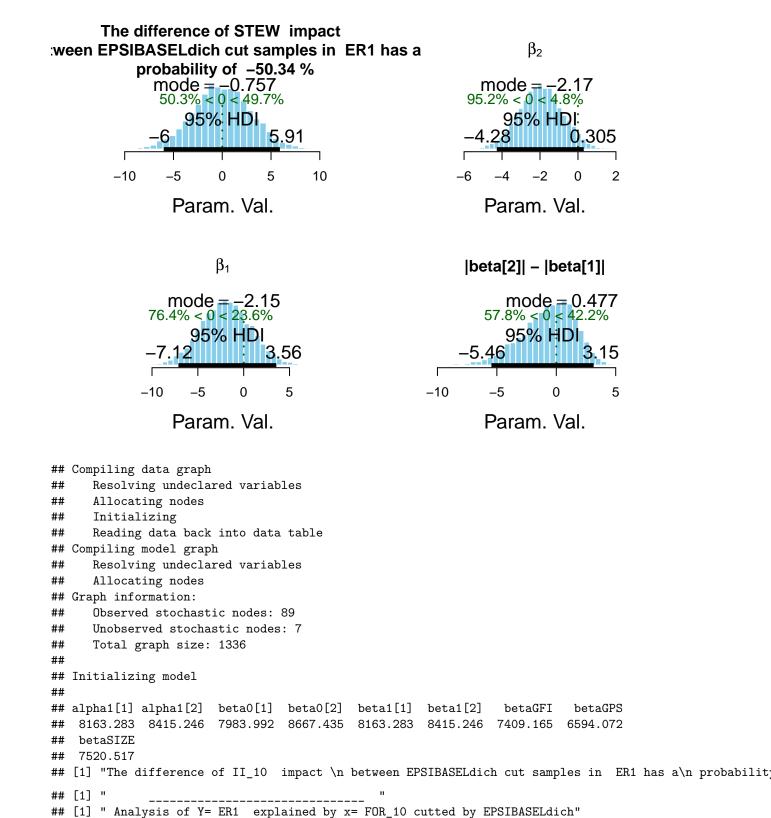
Warning in larg model(file = model data = data list in chains = 3 in ada

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

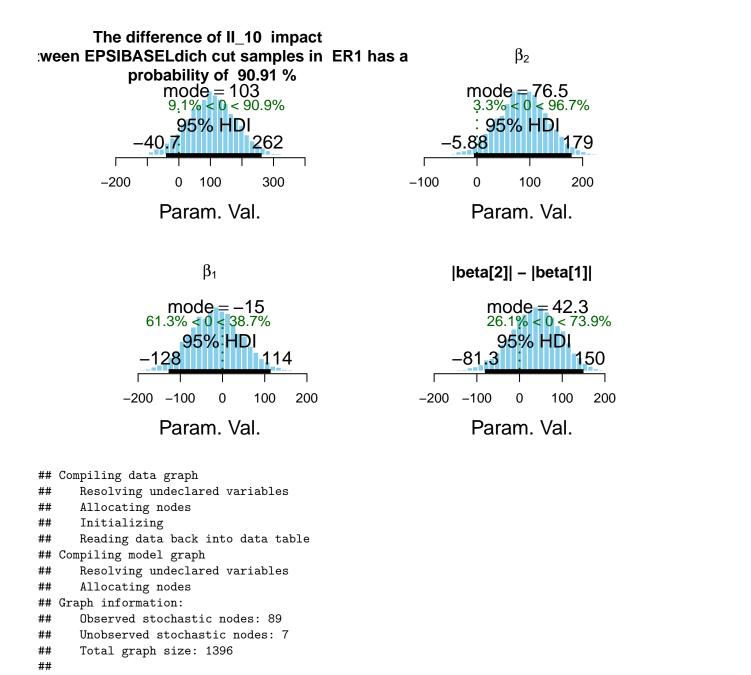
7375.871 7994.688 7385.888 6994.820 7375.871 7994.688

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
500): Unused variable "n" in data

[1] "The difference of STEW impact \n between EPSIBASELdich cut samples in ER1 has a\n probability

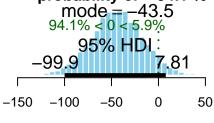


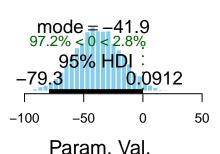
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =



Initializing model
##
alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS
7446.993 7087.697 8582.385 8258.182 7446.993 7087.697 6484.312 6292.062
betaSIZE
8383.755
[1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in ER1 has a\n probabili
[1] " ______ "
[1] " Analysis of Y= ER explained by x= PRI cutted by EPSIBASELdich"
Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

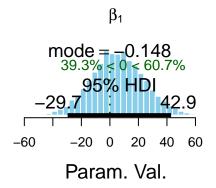
The difference of FOR_10 impact ween EPSIBASELdich cut samples in ER1 has a probability of _94.1 %

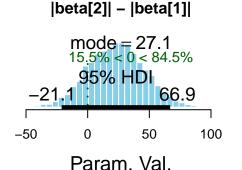




 β_2







```
## Compiling data graph
      Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 89
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1406
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
  8585.069 7788.414 8432.564 8053.113 8585.069 7788.414 7302.378
                                                                          6384.505
## betaSIZE
## 7241.950
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in ER has a\n probability o
## [1] "
## [1] " Analysis of Y= ER explained by x= INIT cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of PRI impact β_2 tween EPSIBASELdich cut samples in ER has a probability of 78.89 % mode = 0.118 21.1% < 0 < 78.9% mode = 0.085424.6% < 0 < 75.4% 95% HDI 95% HDI 0.362 -0.1620.294-0.40.0 0.2 0.4 0.6 -0.20.0 0.2 0.4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.0246 66.9% < 0 < 33.1% mode = 0.013932.4% < 0 < 67.6% 95% HDI 95% HDI -0.115 0.249 -0.166 0.109 -0.20.2 -0.3-0.10.1 0.2 0.0 0.3 0.4 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information:

```
Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 7
##
     Total graph size: 1406
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  8077.887 8067.987 8303.201 7480.891 8077.887 8067.987 7062.363 6517.717
## betaSIZE
## 7554.861
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in ER has a\n probability
## [1] "
## [1] " Analysis of Y= ER explained by x= EPI cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
```

The difference of INIT impact β_2 tween EPSIBASELdich cut samples in ER has a probability of 73.44 % mode = 2.55 26.6% < 0 < 73.4% $\text{mode} = -0.953 \\ 65.7\% < 0 < 34.3\%$ 95% HDI 95% HDI 8.77 -10 -5 0 5 10 15 -10-5 0 5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{l} mode = -0.779 \\ 67.6\% < 0 < 32.4\% \end{array}$ $mode_{=} -3.07$ 90.9% < 0 < 9.1% 95% HDI 95% HDI 6.19 -5 0 5 -5 0 5 -10-10 10 Param. Val. Param. Val. ## Compiling data graph

```
Resolving undeclared variables
##
      Allocating nodes
##
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
      Observed stochastic nodes: 89
##
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1399
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                                 betaGFI
                                                                           betaGPS
   5888.193 5778.390 7056.647 5091.760 5888.193 5778.390 7867.561 7001.190
##
  betaSIZE
  6971.807
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in ER has a\n probability o
## [1] "
## [1] " Analysis of Y= ER explained by x= STEW cutted by EPSIBASELdich"
## Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =
## 500): Unused variable "n" in data
```

The difference of EPI impact β_2 tween EPSIBASELdich cut samples in ER has a probability of -52.44 % mode = -0.0095352.4% < 0 < 47.6% mode = -0.12588.8% < 0 < 11.2% 95%:HDI 95% HDI **0.**0977 -0.6-0.2 0.0 0.2 0.4 0.6 -0.6 -0.4 -0.20.0 0.2 0.4 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = -0.12996.2% < 0 < 3.8% 95% HDI 95% HDI: -0.286-0.2130:0112 -0.20.0 0.2 -0.4-0.20.0 0.1 0.4 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 89 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1399 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 6264.530 8671.803 7938.157 6846.990 6264.530 8671.803 6551.111 6670.644 ## betaSIZE ## 7603.644 ## [1] "The difference of STEW impact \n between EPSIBASELdich cut samples in ER has a\n probability ## [1] "

[1] " Analysis of Y= ER explained by x= II_10 cutted by EPSIBASELdich"

500): Unused variable "n" in data

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

The difference of STEW impact β_2 tween EPSIBASELdich cut samples in ER has a probability of -74.66 % mode = -0.298 74.7% < 0 < 25.3% mode = -0.077168.4% < 0 < 31.6% 95% HDI 95% HDI 0.342 0.724 -3-2 -1 0 1 2 -1.0-0.50.0 0.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.252 29.8% < 0 < 70.2% mode = -0.062674.5% < 0 **< 25**.5% 95% HDI 95% HDI 0.408 -1.08-2 2 -2.0-1 0 -1.00.0 0.5 Param. Val. Param. Val. ## Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables ## Allocating nodes ## Graph information: Observed stochastic nodes: 89 ## ## Unobserved stochastic nodes: 7 ## Total graph size: 1336 ## ## Initializing model ## ## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2] betaGFI betaGPS 8408.267 8055.607 8202.182 8869.965 8408.267 8055.607 6832.798 6487.348 ## betaSIZE 7737.447 ## [1] "The difference of II_10 impact \n between EPSIBASELdich cut samples in ER has a\n probability

[1] " Analysis of Y= ER explained by x= FOR_10 cutted by EPSIBASELdich"

Warning in jags.model(file = model, data = dataList, n.chains = 3, n.adapt =

[1] "

The difference of II_10 impact β_2 tween EPSIBASELdich cut samples in ER has a probability of -76.14 % mode = -11.6 76.1% < 0 < 23.9% mode = 2.62 35.9% < 0 < 64.1% 95% HDI 95% HDI 18.9 21.4 -60-200 20 40 60 -200 20 40 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 13.7 12.6% < 0 < 87.4% mode = -5.96 73% < 0 < 27%95% HDI 95% HDI -30.813.7 -20 0 20 40 -40 -20 0 20 60

Param. Val.

```
## Compiling data graph
      Resolving undeclared variables
##
##
      Allocating nodes
##
      Initializing
      Reading data back into data table
##
##
  Compiling model graph
##
      Resolving undeclared variables
##
      Allocating nodes
##
   Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 7
##
      Total graph size: 1396
##
## Initializing model
##
                        beta0[1] beta0[2]
                                           beta1[1] beta1[2]
                                                                            betaGPS
## alpha1[1] alpha1[2]
                                                                 betaGFI
   7209.408 6641.665
                        8468.474 8386.389
                                            7209.408
                                                      6641.665
                                                                7096.529
                                                                           6617.382
##
  betaSIZE
  7492.569
## [1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in ER has a\n probabilit
```

Param. Val.

The difference of FOR_10 impact tween EPSIBASELdich cut samples in ER has a β_2 probability of 74.32 % mode = 2.43 25.7% < 0 < 74.3% mode = 3.1524.1% < 0 < 75.9% 95% HDI 95% HDI 10.4 -100 10 20 -10 -50 5 10 15 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.506 40.7% < 0 < 59.3% $mode_{=}-0.409$ 57.8% < 0 < 42.2% 95%:HDI 95% HDI 6.14 -5.698.39 5 5 -15-5 0 10 15 -15 -5 10 15

Param. Val.

Param. Val.

Binomial Y

```
x.names <- c('PRI', 'INIT', 'EPI', 'STEW', 'II_10', 'FOR_10')
y.names <- c('CP' , 'DISCL')</pre>
BLbinomCut <- bayesList(X[!is.na(X$EPSIBASELdich ), ], x.names, y.names, cut.name, 'model2-cut.R')
## [1] "
## [1] " Analysis of Y= CP explained by x= PRI cutted by EPSIBASELdich"
## Compiling data graph
##
      Resolving undeclared variables
      Allocating nodes
##
##
      Initializing
##
      Reading data back into data table
##
  Compiling model graph
##
      Resolving undeclared variables
      Allocating nodes
##
## Graph information:
##
      Observed stochastic nodes: 89
##
      Unobserved stochastic nodes: 6
```

```
##
     Total graph size: 1392
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  5038.805 4851.274 5142.775 4743.051 5038.805 4851.274 4669.457 3950.096
  betaSIZE
## 4284.235
## [1] "The difference of PRI impact \n between EPSIBASELdich cut samples in CP has a\n probability o
        The difference of PRI impact
                                                                   \beta_2
tween EPSIBASELdich cut samples in CP has a
            probability of -94.49 %
               mode = -0.0344
94.5% < 0 < 5.5%
                                                          mode = -0.0106
73.7\% < 0 < 26.3\%
                    95% HDI:
                                                                95% HDI
            -0.0763
                             0.0075
                                                       -0.0449
                                                                      0.0241
                                                             -0.04
            -0.10
                    -0.05
                             0.00
                                    0.05
                                                     -0.08
                                                                     0.00
                                                                             0.04
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
             mode = 0.0218
                                                       mode = -0.0117
               1.9% < 0 < 98.1%
                                                       66.9% < 0 < 33.1%
                 95% HDI
                                                             95% HDI
                                                    -0.0369 0.0265
         0.00138
                          0.046
                   0.02
                          0.04
                                                   -0.06
                                                            -0.02
                                                                      0.02
                                                                              0.06
             0.00
                                0.06
                 Param. Val.
                                                             Param, Val.
## [1] " Analysis of Y= CP explained by x= INIT cutted by EPSIBASELdich"
  Compiling data graph
##
     Resolving undeclared variables
##
      Allocating nodes
      Initializing
##
##
     Reading data back into data table
##
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 6
##
     Total graph size: 1392
##
## Initializing model
```

```
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
  5338.973 5208.821 6043.344 5709.561 5338.973 5208.821 4807.890 4300.468
## betaSIZE
## 5142.833
## [1] "The difference of INIT impact \n between EPSIBASELdich cut samples in CP has a\n probability
        The difference of INIT impact
tween EPSIBASELdich cut samples in CP has a
                                                                   \beta_2
            probability of -89.24 %
             mode = -0.739
89.2% < 0 < 10.8%
                                                           mode = -0.334
                                                         81.2% < 0 < 18.8%
                   95% HDI
                                                               95% HDI
                                                                0.409
              -2
                     -1
                                    1
                                                       -1.5
                                                                -0.5 0.0 0.5 1.0
                 Param. Val.
                                                             Param. Val.
                       \beta_1
                                                          |beta[2]| - |beta[1]|
                                                        mode = -0.00791
47.6\% < 0 < 52.4\%
              mode = 0.276
                18.7% < 0 < 81.3%
                 95% HDI
                                                              95%: HDI
                                                      -0.807
                                                                        0.795
                            1.01
        -1.0
                  0.0 0.5
                                     2.0
                                                    -1.5
                                                             -0.5
                                                                      0.5 1.0 1.5
                           1.0
                                1.5
                 Param. Val.
                                                             Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= EPI cutted by EPSIBASELdich"
  Compiling data graph
     Resolving undeclared variables
##
     Allocating nodes
##
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
      Allocating nodes
##
  Graph information:
##
     Observed stochastic nodes: 89
##
     Unobserved stochastic nodes: 6
     Total graph size: 1385
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]
                                                               betaGFI
                                                                         betaGPS
## 4169.024 3677.995 5899.443 4106.439 4169.024 3677.995 4968.803 4451.867
```

```
## [1] "The difference of EPI impact \n between EPSIBASELdich cut samples in CP has a\n probability o
        The difference of EPI impact
                                                                  \beta_2
tween EPSIBASELdich cut samples in CP has a
            probability of -76.38 %
            mode = -0.0142
76.4\% < 0 < 23.6\%
                                                          mode = -0.0082
                                                         69.9% < 0 < 30.1%
                  95% HDI
                                                              95% HDI
         -0.0631
                            0.0286
                                                      -0.0478
                                                                        0.0275
                        0.00
                                                           -0.04
                                                                   0.00
       -0.10
               -0.05
                                0.05
                                                   -0.08
                                                                           0.04
                Param. Val.
                                                            Param, Val.
                       \beta_1
                                                         |beta[2]| - |beta[1]|
              mode = 0.00711
                                                       mode = 0.00167
                27.3% < 0 < 72.7%
                                                          35.9% < 0 < 64.1%
                                                            95% HDI
                  95% HDI
         -0.0165
                                                    -0.0224
                            0.0305
                                                                     0.0381
       -0.04
                   0.00 0.02
                               0.04
                                                     -0.04
                                                              0.00
                                                                      0.04
                                                                               0.08
                 Param. Val.
                                                            Param. Val.
## [1] "
## [1] " Analysis of Y= CP explained by x= STEW cutted by EPSIBASELdich"
  Compiling data graph
     Resolving undeclared variables
##
##
     Allocating nodes
     Initializing
##
     Reading data back into data table
  Compiling model graph
##
     Resolving undeclared variables
##
##
      Allocating nodes
##
  Graph information:
     Observed stochastic nodes: 89
##
##
     Unobserved stochastic nodes: 6
     Total graph size: 1385
##
##
## Initializing model
##
## alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]
                                                    beta1[2]
                                                               betaGFI
                                                                         betaGPS
  4639.974 5091.224 5245.930 5238.514 4639.974 5091.224 4808.734 4232.096
##
## betaSIZE
## 4449.127
## [1] "The difference of STEW impact \n between EPSIBASELdich cut samples in CP has a\n probability
```

betaSIZE ## 4371.055

β_2 tween EPSIBASELdich cut samples in CP has a probability of -89.6 % $\begin{array}{c} mode = -0.107 \\ 89.6\% < 0 < 10.4\% \end{array}$ mode = -0.0048251.1% < 0 < 48.9% 95% HDI 95% HDI 0.0553 -0.06670.0677 -0.4-0.20.0 0.2 -0.100.00 0.10 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| $\begin{array}{c} mode = 0.106 \\ 8.5\% < 0 < 91.5\% \end{array}$ mode = -0.0911 89.8% < 0 < 10.2% :95% HDI 95% HDI: -0.0480.1 0.2 0.3 0.4 -0.4 -0.3 -0.2 -0.1-0.10.0 0.1 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= II_10 cutted by EPSIBASELdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing Reading data back into data table ## ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information:

The difference of STEW impact

##

##

##

##

##

Observed stochastic nodes: 89

Total graph size: 1322

Initializing model

betaSIZE

5055.920

Unobserved stochastic nodes: 6

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

[1] "The difference of II_10 impact \n between EPSIBASELdich cut samples in CP has a\n probability

betaGFI

betaGPS

4666.390 5150.037 5297.568 6215.901 4666.390 5150.037 4895.541 4550.679

β_2 tween EPSIBASELdich cut samples in CP has a probability of -85.36 % mode = -2.18 85.4% < 0 < 14.6% mode = 0.20946% < 0 < 54% 95% HDI 95% HDI -7.84 2.81 -15 -10 -5 0 5 -4 -2 0 2 4 6 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 2.51 9.1% < 0 < 90.9% $\begin{array}{c} mode = -0.876 \\ 79.2\% < 0 < 20.8\% \end{array}$ 95% HDI 95% HDI **-1.17 7.**03 -6.052.05 0 5 -5 5 -5 10 -15-100 15 Param. Val. Param. Val. ## [1] " ## [1] " Analysis of Y= CP explained by x= FOR_10 cutted by EPSIBASELdich" Compiling data graph Resolving undeclared variables ## ## Allocating nodes ## Initializing ## Reading data back into data table ## Compiling model graph ## Resolving undeclared variables Allocating nodes ## Graph information: ## Observed stochastic nodes: 89 ## Unobserved stochastic nodes: 6 ## Total graph size: 1382

The difference of II_10 impact

Initializing model

betaSIZE 4591.355

##

##

[1] "The difference of FOR_10 impact \n between EPSIBASELdich cut samples in CP has a\n probabilit

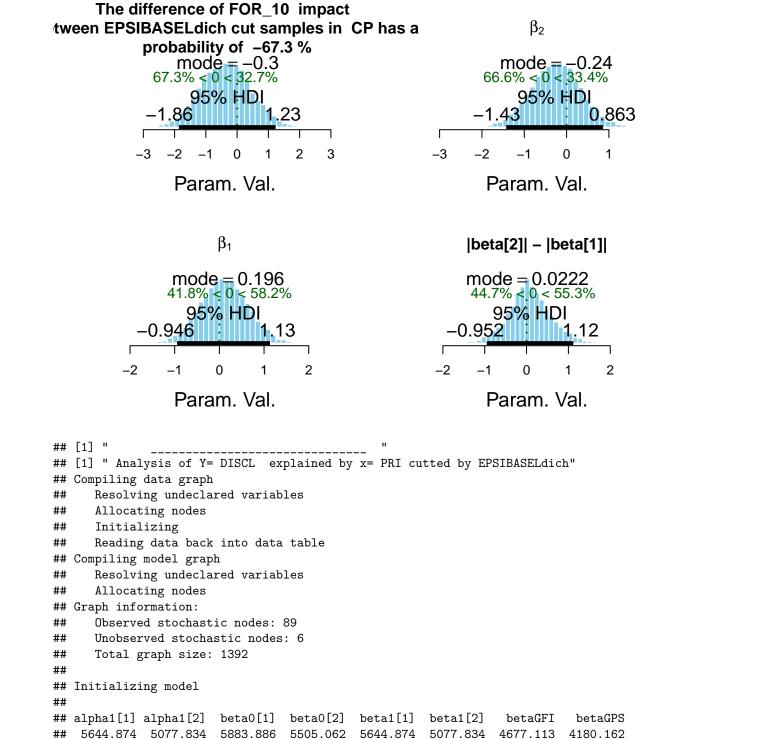
betaGFI

betaGPS

4636.475

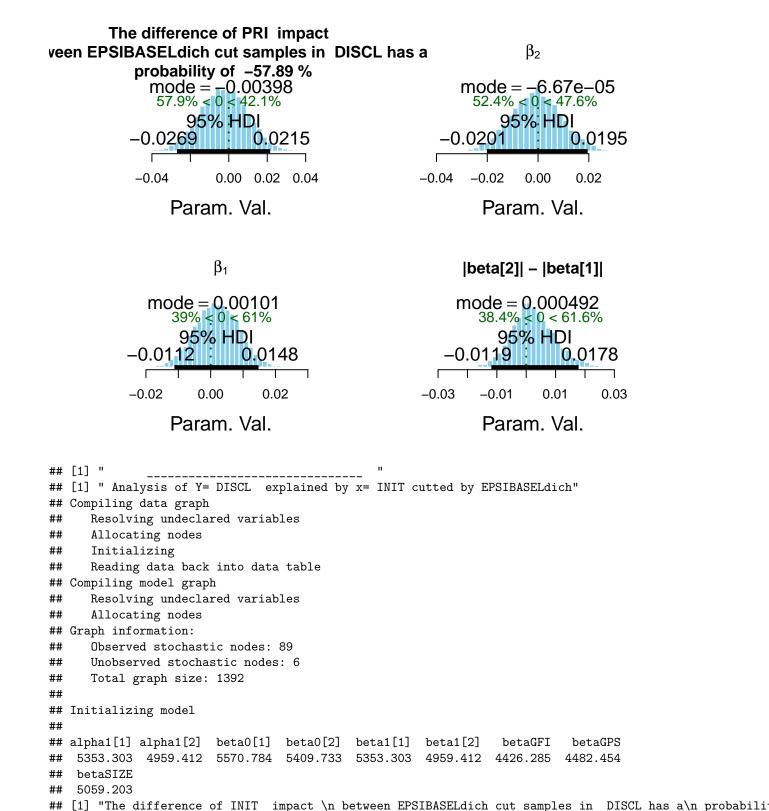
alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

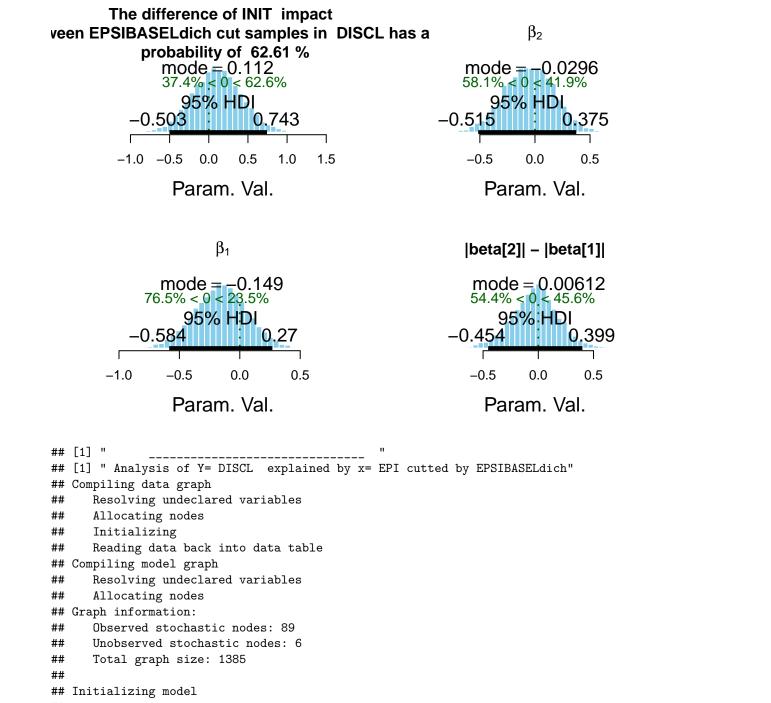
4791.272 4193.240 4930.084 5142.906 4791.272 4193.240 4780.090



[1] "The difference of PRI impact \n between EPSIBASELdich cut samples in DISCL has a\n probabilit

betaSIZE ## 4871.825





3931.308 3394.691 5781.979 3521.838 3931.308 3394.691 5127.729

beta1[2]

[1] "The difference of EPI impact \n between EPSIBASELdich cut samples in DISCL has a\n probabilit

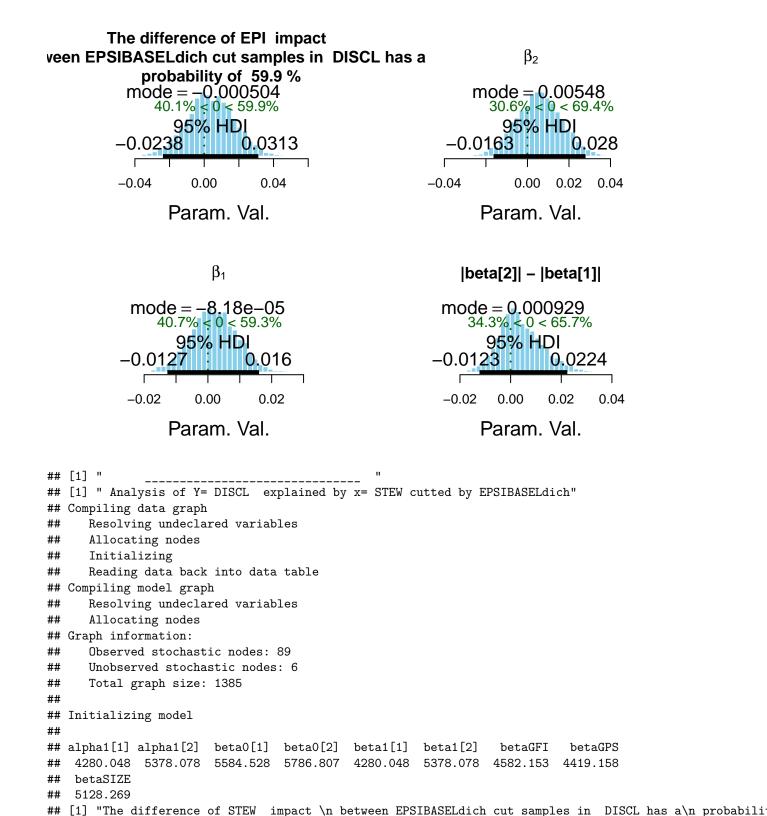
betaGFI

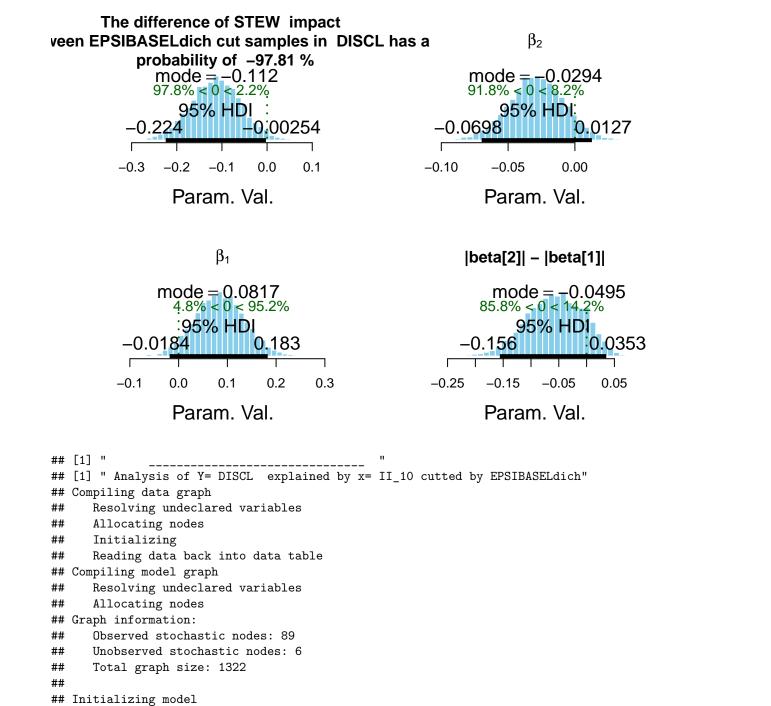
betaGPS

4819.043

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1]

betaSIZE ## 4311.338





[1] "The difference of II_10 impact \n between EPSIBASELdich cut samples in DISCL has a\n probabil

betaGFI

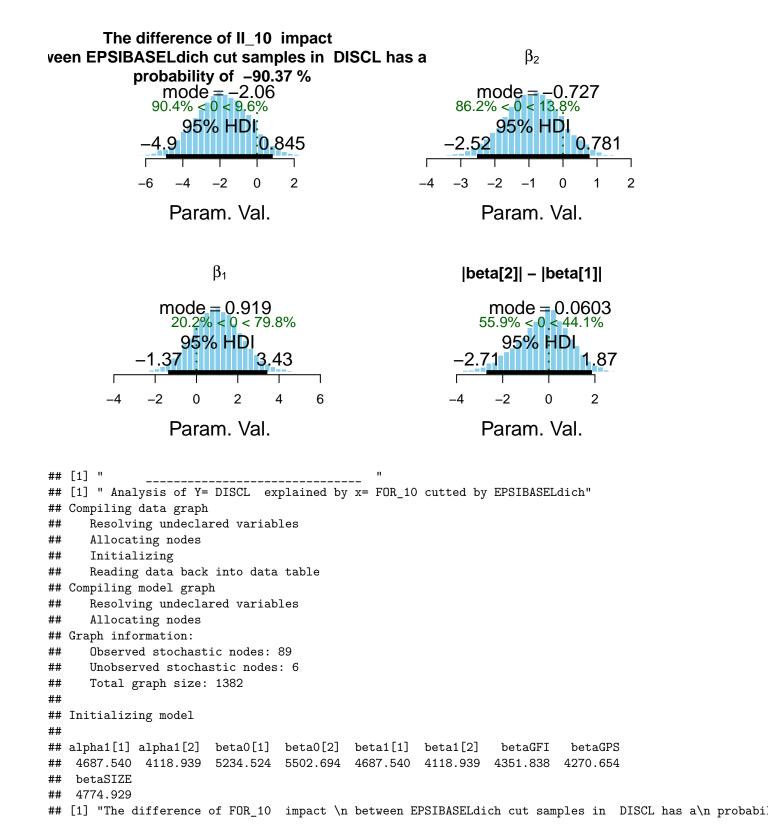
betaGPS

4666.951

alpha1[1] alpha1[2] beta0[1] beta0[2] beta1[1] beta1[2]

betaSIZE ## 4825.805

4534.962 5092.483 5200.001 6121.355 4534.962 5092.483 4832.283



The difference of FOR_10 impact β_2 veen EPSIBASELdich cut samples in DISCL has a probability of -74.81 % mode = -0.262 74.8% < 0 < 25.2%95% HDI 95% HDI 0.601 -0.5790.819 -2 -1 0 1 -1.00.0 0.5 1.0 1.5 Param. Val. Param. Val. β_1 |beta[2]| - |beta[1]| mode = 0.4548% < 0 < 92% $\begin{array}{l} mode = -0.194 \\ 68\% < 0 < 32\% \end{array}$ 95% HDI 95% HDI -0.8**73 0.**571 -0.166 1.11 -0.5 0.0 0.5 1.0 1.5 2.0 -1.5 -0.50.5 1.0 1.5 Param. Val. Param. Val.