Autism_PGS_vulnerability

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R Markdown

Read the file and the required packages # Note to self, please run this on Head1 as mediate is not avaialable on Head2.

```
library(data.table)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:data.table':
##
##     between, first, last
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(plyr)
```

```
## ------------------------------------------------------------------------------
```

```
## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)
```

```
## ------------------------------------------------------------------------------
```

```
##
## Attaching package: 'plyr'
```

```
## The following objects are masked from 'package:dplyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize
```

```
library(ggplot2)
library(BaylorEdPsych)
library(grid)
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
```

```
## The following object is masked from 'package:dplyr':
##
##     combine
```

```
library(mediation)
```

```
## Loading required package: MASS
```

```
##
## Attaching package: 'MASS'
```

```
## The following object is masked from 'package:dplyr':
##
##     select
```

```
## Loading required package: Matrix
```

```
## Loading required package: mvtnorm
```

```
## Loading required package: sandwich
```

```
## mediation: Causal Mediation Analysis
## Version: 4.4.6
```

```
load("~/UKB_v2/Autism_SSBI/autismpgsanxietydataset.RData")

merged = merged3
rm(merged3)

merged = merged[,-c("1.000000", "0.750000", "0.500000", "0.250000", "0.100000", "0.010000", "0.001000" )]

autism_pgs = fread("~/ALSPAC/PRSice2results/UKB2_autosomes_0.2_autismdanerforprsice.all.score", header = T)


merged = merge(merged, autism_pgs, by = "IID")
```

Generate the variables

```
merged$f.20487.0.0[merged$f.20487.0.0<0]<- NA #Felt hated by family member as a child
merged$f.20488.0.0[merged$f.20488.0.0<0]<- NA #Physically abused by family as a child
merged$f.20491.0.0[merged$f.20491.0.0<0]<- NA #Someone to take to doctor when needed as a child
merged$f.20490.0.0[merged$f.20490.0.0<0]<- NA #Sexually molested as a child
merged$f.20489.0.0[merged$f.20489.0.0<0]<- NA # Felt loved as a child

merged$f.20485.0.0[merged$f.20485.0.0<0]<- NA #ever contemplated self-harm
merged$f.20479.0.0[merged$f.20479.0.0<0]<- NA #life not worth living
merged$f.20480.0.0[merged$f.20480.0.0<0]<- NA #attempted self-harm
merged$f.20513.0.0[merged$f.20513.0.0<0]<- NA #Recent thoughts of suicide or self-harm
merged$f.2090.0.0[merged$f.2090.0.0<0]<- NA #Seen a gp for nerves etc

#Mediators - protective factors

#Create variables
merged$family = merged$f.4559.0.0
merged$family[is.na(merged$family)] <- merged$f.4559.1.0
```

```
## Warning in merged$family[is.na(merged$family)] <- merged$f.4559.1.0: number
## of items to replace is not a multiple of replacement length
```

```
merged$family[is.na(merged$family)] <- merged$f.4559.2.0
```

```
## Warning in merged$family[is.na(merged$family)] <- merged$f.4559.2.0: number
## of items to replace is not a multiple of replacement length
```

```
merged$friendship = merged$f.4570.0.0
merged$friendship[is.na(merged$friendship)] <- merged$f.4570.1.0
```

```
## Warning in merged$friendship[is.na(merged$friendship)] <- merged$f.
## 4570.1.0: number of items to replace is not a multiple of replacement
## length
```

```
merged$friendship[is.na(merged$friendship)] <- merged$f.4570.2.0
```

```
## Warning in merged$friendship[is.na(merged$friendship)] <- merged$f.
## 4570.2.0: number of items to replace is not a multiple of replacement
## length
```

```
merged$friendship[merged$friendship<0]<- NA #Friendship satisfaction
merged$family[merged$family<0]<- NA #family satisfaction

merged$cognition = merged$f.20016.0.0
merged$cognition[is.na(merged$cognition)] <- merged$f.20016.1.0
```

```
## Warning in merged$cognition[is.na(merged$cognition)] <- merged$f.20016.1.0:
## number of items to replace is not a multiple of replacement length
```

```
merged$cognition[is.na(merged$cognition)] <- merged$f.20016.2.0 # cognitive aptitude based on fluid intellig
ence score
```

```
## Warning in merged$cognition[is.na(merged$cognition)] <- merged$f.20016.2.0:
## number of items to replace is not a multiple of replacement length
```

```
merged$edu = merged$f.6138.0.0
merged$edu[merged$edu<0]<- NA #Educational attainment

merged$f.20522.0.0[merged$f.20522.0.0<0]<- NA #Been in a confiding relationship as an adult
merged$f.4537.0.0[merged$f.4537.0.0<0]<- NA #Job satisfaction
merged$f.4537.0.0[merged$f.4537.0.0>6]<- NA #Job satisfaction, not currently employed

merged$socfreq = merged$f.1031.0.0
merged$socfreq[is.na(merged$socfreq)] <- merged$f.1031.1.0
```

```
## Warning in merged$socfreq[is.na(merged$socfreq)] <- merged$f.1031.1.0:
## number of items to replace is not a multiple of replacement length
```

```
merged$socfreq[is.na(merged$socfreq)] <- merged$f.1031.2.0
```

```
## Warning in merged$socfreq[is.na(merged$socfreq)] <- merged$f.1031.2.0:
## number of items to replace is not a multiple of replacement length
```

```
merged$socfreq[merged$socfreq<0]<- NA #freqnegcoded

# Mediators - risk factors
#Anxiety
merged$f.20540.0.0[merged$f.20540.0.0<0]<- NA # multiple worries
merged$f.20541.0.0[merged$f.20541.0.0<0]<- NA # difficulty stopping worrying
merged$f.20429.0.0[merged$f.20429.0.0<0]<- NA # easily tired
merged$f.20427.0.0[merged$f.20427.0.0<0]<- NA # difficulty falling asleep
merged$f.20423.0.0[merged$f.20423.0.0<0]<- NA # edginess
merged$f.20422.0.0[merged$f.20422.0.0<0]<- NA # irritability
merged$f.20419.0.0[merged$f.20419.0.0<0]<- NA # trouble concentrating

merged$anxietyscore = merged$f.20540.0.0 + merged$f.20541.0.0 + merged$f.20429.0.0 + merged$f.20427.0.0 + me
rged$f.20423.0.0 + merged$f.20422.0.0 + merged$f.20419.0.0


#Depression
merged$f.20446.0.0[merged$f.20446.0.0<0]<- NA # Prolonged feelings of sadness
merged$f.20441.0.0[merged$f.20441.0.0<0]<- NA # loss of interest
merged$f.20449.0.0[merged$f.20449.0.0<0]<- NA # Fatigue or tiredness
merged$f.20450.0.0[merged$f.20450.0.0<0]<- NA # worthlessness
merged$f.20435.0.0[merged$f.20435.0.0<0]<- NA # Difficulty concentrating
merged$f.20532.0.0[merged$f.20532.0.0<0]<- NA # Sleep change
merged$f.20437.0.0[merged$f.20437.0.0<0]<- NA # thoughts of death
merged$f.20536.0.0[merged$f.20536.0.0<0]<- NA # weight change
merged$f.20536.0.0 = ifelse(merged$f.20536.0.0>0, 1, merged$f.20536.0.0) # weight change, recode it to binar
y

merged$depressionscore = merged$f.20446.0.0 + merged$f.20441.0.0 + merged$f.20449.0.0 + merged$f.20450.0.0 +
merged$f.20435.0.0 + merged$f.20532.0.0 + merged$f.20437.0.0 + merged$f.20536.0.0

## Childhood traumasum:
#Negative coding:
merged$f.20489.0.0 <- 4 - merged$f.20489.0.0   # Felt loved as a child
merged$f.20491.0.0 <- 4 - merged$f.20491.0.0  # Someone to take me to the doctor as a child

merged$childtraumasum = merged$f.20489.0.0 + merged$f.20490.0.0 + merged$f.20488.0.0 + merged$f.20487.0.0 +
merged$f.20491.0.0


##Adult self-harm behaviour

#Rescale recent thoughts of suicide or self-harm:

merged$recentsuicideselfharm = ifelse(merged$f.20513.0.0 == 1, 0, merged$f.20513.0.0)
merged$recentsuicideselfharm = ifelse(merged$f.20513.0.0 == 2, 1, merged$recentsuicideselfharm)
merged$recentsuicideselfharm = ifelse(merged$f.20513.0.0 == 3, 2, merged$recentsuicideselfharm)
merged$recentsuicideselfharm = ifelse(merged$f.20513.0.0 == 4, 3, merged$recentsuicideselfharm)

#Create ideation scale
merged$selfharmideation = merged$recentsuicideselfharm + merged$f.20479.0.0 + merged$f.20485.0.0

#Binarize variables

merged$lifenotworthliving = ifelse(merged$f.20479.0.0 ==2, 1 ,merged$f.20479.0.0 )
merged$contemplateselfharm = ifelse(merged$f.20485.0.0 ==2, 1 ,merged$f.20485.0.0 )
merged$recentsuicideselfharm2 = ifelse(merged$recentsuicideselfharm > 1, 1, merged$recentsuicideselfharm)

merged$selfharmscore = merged$lifenotworthliving + merged$contemplateselfharm + merged$f.20480.0.0 + merged$
recentsuicideselfharm2
```

Scale all variables and change some of them to characters

```
merged$`1.000000` = scale(merged$`1.000000`)
merged$`0.750000` = scale(merged$`0.750000`)
merged$`0.500000` = scale(merged$`0.500000`)
merged$`0.250000` = scale(merged$`0.250000`)
merged$`0.100000` = scale(merged$`0.100000`)
merged$`0.010000` = scale(merged$`0.010000`)
merged$`0.001000` = scale(merged$`0.001000`)

merged$f.22009.0.1 = scale(merged$f.22009.0.1)
merged$f.22009.0.2 = scale(merged$f.22009.0.2)
merged$f.22009.0.3 = scale(merged$f.22009.0.3)
merged$f.22009.0.4 = scale(merged$f.22009.0.4)
merged$f.22009.0.5 = scale(merged$f.22009.0.5)
merged$f.22009.0.6 = scale(merged$f.22009.0.6)
merged$f.22009.0.7 = scale(merged$f.22009.0.7)
merged$f.22009.0.8 = scale(merged$f.22009.0.8)
merged$f.22009.0.9 = scale(merged$f.22009.0.9)
merged$f.22009.0.10 = scale(merged$f.22009.0.10)
merged$f.22009.0.11 = scale(merged$f.22009.0.11)
merged$f.22009.0.12 = scale(merged$f.22009.0.12)
merged$f.22009.0.13 = scale(merged$f.22009.0.13)
merged$f.22009.0.14 = scale(merged$f.22009.0.14)
merged$f.22009.0.15 = scale(merged$f.22009.0.15)
merged$f.22009.0.16 = scale(merged$f.22009.0.16)
merged$f.22009.0.17 = scale(merged$f.22009.0.17)
merged$f.22009.0.18 = scale(merged$f.22009.0.18)
merged$f.22009.0.19 = scale(merged$f.22009.0.19)
merged$f.22009.0.20 = scale(merged$f.22009.0.20)


merged$f.22001.0.0 = as.character(merged$f.22001.0.0)
merged$f.22000.0.0 = as.character(merged$f.22000.0.0)


#Scaling phenotypes and mediators
## child truama and items
merged$childtraumasum = scale(merged$childtraumasum)
merged$f.20489.0.0 = scale(merged$f.20489.0.0)
merged$f.20490.0.0 = scale(merged$f.20490.0.0)
merged$f.20488.0.0 = scale(merged$f.20488.0.0)
merged$f.20487.0.0 = scale(merged$f.20487.0.0)
merged$f.20491.0.0 = scale(merged$f.20491.0.0)

## Adult SSBI and items
merged$f.20479.0.0 = scale(merged$f.20479.0.0)
merged$lifenotworthliving = scale(merged$lifenotworthliving)
merged$f.20485.0.0 = scale(merged$f.20485.0.0)
merged$contemplateselfharm = scale(merged$contemplateselfharm)
merged$recentsuicideselfharm = scale(merged$recentsuicideselfharm)
merged$recentsuicideselfharm2 = scale(merged$recentsuicideselfharm2)
merged$f.20480.0.0 = scale(merged$f.20480.0.0)
merged$selfharmscore = scale(merged$selfharmscore)
merged$selfharmideation = scale(merged$selfharmideation)

##scale mediating variables
merged$friendship = scale(merged$friendship)
merged$family = scale(merged$family)
merged$socfreq = scale(merged$socfreq)
merged$f.4537.0.0 = scale(merged$f.4537.0.0) #job satisfaction
merged$f.20522.0.0 = scale(merged$f.20522.0.0) #confiding relationship

merged$anxietyscore = scale(merged$anxietyscore)
merged$depressionscore = scale(merged$depressionscore)
merged$edu = scale(merged$edu)
merged$cognition = scale(merged$cognition)
```

First, let's run the regression models for the child trauma

```
## Childhood trauma scores


#model with only covariates
summary(lm(childtraumasum ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0
.6 +
             f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0+ f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1647 -0.6967 -0.2959  0.2400  7.9871
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.0587343  0.7460779 -12.142  < 2e-16 ***
## f.22009.0.1     0.0030519  0.0030512   1.000 0.317202
## f.22009.0.2    -0.0058394  0.0029371  -1.988 0.046799 *
## f.22009.0.3     0.0035142  0.0030127   1.166 0.243425
## f.22009.0.4     0.0020254  0.0042155   0.480 0.630906
## f.22009.0.5     0.0357504  0.0040913   8.738  < 2e-16 ***
## f.22009.0.6     0.0001882  0.0029824   0.063 0.949690
## f.22009.0.7    -0.0094479  0.0030536  -3.094 0.001975 **
## f.22009.0.8     0.0084799  0.0032208   2.633 0.008468 **
## f.22009.0.9     0.0074393  0.0030746   2.420 0.015540 *
## f.22009.0.10   -0.0048437  0.0035672  -1.358 0.174508
## f.22009.0.11    0.0154923  0.0041478   3.735 0.000188 ***
## f.22009.0.12   -0.0054312  0.0036442  -1.490 0.136128
## f.22009.0.13   -0.0038125  0.0029326  -1.300 0.193591
## f.22009.0.14   -0.0406118  0.0030991 -13.104  < 2e-16 ***
## f.22009.0.15    0.0016008  0.0031768   0.504 0.614344
## f.22009.0.16   -0.0172800  0.0031114  -5.554  2.8e-08 ***
## f.22009.0.17   -0.0050621  0.0028893  -1.752 0.079773 .
## f.22009.0.18    0.0086711  0.0028967   2.993 0.002759 **
## f.22009.0.19   -0.0008307  0.0028845  -0.288 0.773362
## f.22009.0.20    0.0045769  0.0028898   1.584 0.113232
## f.22001.0.01   -0.0719256  0.0058261 -12.345  < 2e-16 ***
## f.34.0.0        0.0046580  0.0003818  12.200  < 2e-16 ***
## f.22000.0.0-1   0.1105072  0.0407571   2.711 0.006702 **
## f.22000.0.010  -0.0763042  0.0411949  -1.852 0.063989 .
## f.22000.0.0-10  0.0304672  0.0414243   0.735 0.462042
## f.22000.0.011  -0.0279870  0.0405144  -0.691 0.489698
## f.22000.0.0-11  0.1003285  0.0410616   2.443 0.014552 *
## f.22000.0.012  -0.0460050  0.0408002  -1.128 0.259504
## f.22000.0.013  -0.0214258  0.0406644  -0.527 0.598269
## f.22000.0.014  -0.0236745  0.0403974  -0.586 0.557849
## f.22000.0.015   0.0185461  0.0406568   0.456 0.648274
## f.22000.0.016   0.0155133  0.0408821   0.379 0.704343
## f.22000.0.017   0.0088750  0.0404723   0.219 0.826428
## f.22000.0.018   0.0156265  0.0409146   0.382 0.702514
## f.22000.0.019  -0.0032777  0.0401406  -0.082 0.934920
## f.22000.0.02   -0.0043132  0.0402781  -0.107 0.914721
## f.22000.0.0-2   0.0563606  0.0409934   1.375 0.169175
## f.22000.0.020  -0.0118840  0.0407813  -0.291 0.770739
## f.22000.0.021  -0.0127488  0.0407090  -0.313 0.754152
## f.22000.0.022   0.0335511  0.0406583   0.825 0.409261
## f.22000.0.023   0.0252039  0.0406465   0.620 0.535210
## f.22000.0.024  -0.0271131  0.0401083  -0.676 0.499043
## f.22000.0.025  -0.0425391  0.0411558  -1.034 0.301321
## f.22000.0.026  -0.0278952  0.0409014  -0.682 0.495233
## f.22000.0.027  -0.0495495  0.0402298  -1.232 0.218078
## f.22000.0.028   0.0213994  0.0406304   0.527 0.598413
```

```
## f.22000.0.028   0.0215994  0.0406304   0.527 0.598413
## f.22000.0.029   0.0196905  0.0403802   0.488 0.625814
## f.22000.0.03    0.0047500  0.0402865   0.118 0.906143
## f.22000.0.0-3   0.0445111  0.0405946   1.096 0.272871
## f.22000.0.030  -0.0389078  0.0403802  -0.964 0.335280
## f.22000.0.031   0.0302166  0.0405092   0.746 0.455717
## f.22000.0.032   0.0151450  0.0407013   0.372 0.709817
## f.22000.0.033   0.0168475  0.0414229   0.407 0.684215
## f.22000.0.034   0.0617011  0.0404618   1.525 0.127281
## f.22000.0.035  -0.0027765  0.0405500  -0.068 0.945411
## f.22000.0.036   0.0132614  0.0402530   0.329 0.741815
## f.22000.0.037  -0.0264519  0.0408560  -0.647 0.517347
## f.22000.0.038   0.0264533  0.0407277   0.650 0.516007
## f.22000.0.039  -0.0134352  0.0411738  -0.326 0.744195
## f.22000.0.04   -0.0182444  0.0410331  -0.445 0.656590
## f.22000.0.0-4   0.1064150  0.0412350   2.581 0.009861 **
## f.22000.0.040   0.0215645  0.0406575   0.530 0.595840
## f.22000.0.041  -0.0349560  0.0412624  -0.847 0.396906
## f.22000.0.042  -0.0297355  0.0405859  -0.733 0.463770
## f.22000.0.043  -0.0136075  0.0413132  -0.329 0.741873
## f.22000.0.044  -0.0483535  0.0408548  -1.184 0.236596
## f.22000.0.045  -0.0054406  0.0408832  -0.133 0.894133
## f.22000.0.046  -0.0245994  0.0411077  -0.598 0.549566
## f.22000.0.047  -0.0429725  0.0411362  -1.045 0.296192
## f.22000.0.048   0.0187954  0.0410531   0.458 0.647074
## f.22000.0.049  -0.0244879  0.0410709  -0.596 0.551020
## f.22000.0.05   -0.0693049  0.0403692  -1.717 0.086022 .
## f.22000.0.0-5   0.0849422  0.0407910   2.082 0.037310 *
## f.22000.0.050   0.0408022  0.0411550   0.991 0.321480
## f.22000.0.051   0.0239498  0.0405174   0.591 0.554455
## f.22000.0.052  -0.0328167  0.0412440  -0.796 0.426224
## f.22000.0.053  -0.0448620  0.0409558  -1.095 0.273354
## f.22000.0.054  -0.0120924  0.0410607  -0.294 0.768377
## f.22000.0.055   0.0045746  0.0414021   0.110 0.912020
## f.22000.0.056  -0.0476193  0.0410416  -1.160 0.245942
## f.22000.0.057  -0.0078117  0.0412550  -0.189 0.849817
## f.22000.0.058  -0.0470364  0.0410506  -1.146 0.251874
## f.22000.0.059   0.0076032  0.0408903   0.186 0.852491
## f.22000.0.06   -0.0135486  0.0402197  -0.337 0.736219
## f.22000.0.0-6   0.0548401  0.0411179   1.334 0.182296
## f.22000.0.060  -0.0449246  0.0413021  -1.088 0.276727
## f.22000.0.061   0.0448096  0.0415319   1.079 0.280626
## f.22000.0.062  -0.0086642  0.0414020  -0.209 0.834238
## f.22000.0.063   0.0046800  0.0414003   0.113 0.909998
## f.22000.0.064  -0.0033262  0.0410400  -0.081 0.935404
## f.22000.0.065   0.0015642  0.0412836   0.038 0.969777
## f.22000.0.066  -0.0022221  0.0416992  -0.053 0.957502
## f.22000.0.067  -0.0157619  0.0412613  -0.382 0.702461
## f.22000.0.068   0.0207532  0.0412418   0.503 0.614819
## f.22000.0.069  -0.0051898  0.0413010  -0.126 0.900002
## f.22000.0.07    0.0100518  0.0405363   0.248 0.804158
## f.22000.0.0-7   0.0097293  0.0409020   0.238 0.811983
## f.22000.0.070   0.0299365  0.0412933   0.725 0.468470
## f.22000.0.071  -0.0238864  0.0410896  -0.581 0.561022
## f.22000.0.072  -0.0013888  0.0413423  -0.034 0.973201
## f.22000.0.073   0.0076339  0.0413734   0.185 0.853612
## f.22000.0.074  -0.0301373  0.0415120  -0.726 0.467846
## f.22000.0.075   0.0137296  0.0411365   0.334 0.738564
## f.22000.0.076  -0.0419037  0.0415539  -1.008 0.313255
## f.22000.0.077  -0.0594085  0.0413210  -1.438 0.150512
## f.22000.0.078  -0.0326190  0.0410804  -0.794 0.427180
## f.22000.0.079  -0.0345679  0.0409939  -0.843 0.399092
## f.22000.0.08    0.0022896  0.0404979   0.057 0.954915
## f.22000.0.0-8   0.0518238  0.0410513   1.262 0.206802
## f.22000.0.080  -0.0086006  0.0414632  -0.207 0.835676
## f.22000.0.081  -0.0065412  0.0419124  -0.156 0.875980
## f.22000.0.082  -0.0404729  0.0414205  -0.977 0.328510
## f.22000.0.083  -0.0316020  0.0415254  -0.761 0.446642
## f.22000.0.084   0.0106929  0.0415344   0.257 0.796834
## f.22000.0.085   0.0508244  0.0413699   1.229 0.219248
## f.22000.0.086   0.0057012  0.0414921   0.137 0.890712
## f.22000.0.087  -0.0910545  0.0414820  -2.195 0.028163 *
## f.22000.0.088  -0.0221641  0.0421909  -0.525 0.599355
```

```
## f.22000.0.089   0.0006891  0.0419150   0.016 0.986883
## f.22000.0.09   -0.0260046  0.0402789  -0.646 0.518531
## f.22000.0.0-9   0.0612740  0.0410694   1.492 0.135712
## f.22000.0.090   0.0162683  0.0414536   0.392 0.694730
## f.22000.0.091   0.0083655  0.0428557   0.195 0.845235
## f.22000.0.092  -0.0049321  0.0416064  -0.119 0.905639
## f.22000.0.093   0.0074187  0.0415464   0.179 0.858280
## f.22000.0.094   0.0241630  0.0531170   0.455 0.649181
## f.22000.0.095  -0.0207315  0.0442851  -0.468 0.639687
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9967 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.007653,   Adjusted R-squared:  0.006597
## F-statistic: 7.251 on 127 and 119407 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +f.22009.0.5
+ f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1601 -0.6948 -0.2972  0.2454  7.9665
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.047e+00  7.457e-01 -12.131  < 2e-16 ***
## `1.000000`      3.110e-02  2.884e-03  10.784  < 2e-16 ***
## f.22009.0.1     2.787e-03  3.050e-03   0.914 0.360771
## f.22009.0.2    -5.761e-03  2.936e-03  -1.963 0.049705 *
## f.22009.0.3     3.618e-03  3.011e-03   1.201 0.229569
## f.22009.0.4     1.965e-03  4.214e-03   0.466 0.640992
## f.22009.0.5     3.493e-02  4.090e-03   8.540  < 2e-16 ***
## f.22009.0.6     5.309e-05  2.981e-03   0.018 0.985790
## f.22009.0.7    -9.129e-03  3.052e-03  -2.991 0.002783 **
## f.22009.0.8     8.536e-03  3.219e-03   2.652 0.008014 **
## f.22009.0.9     7.415e-03  3.073e-03   2.413 0.015825 *
## f.22009.0.10   -4.726e-03  3.565e-03  -1.326 0.185006
## f.22009.0.11    1.502e-02  4.146e-03   3.623 0.000291 ***
## f.22009.0.12   -5.516e-03  3.642e-03  -1.514 0.129920
## f.22009.0.13   -3.861e-03  2.931e-03  -1.317 0.187749
## f.22009.0.14   -4.017e-02  3.098e-03 -12.967  < 2e-16 ***
## f.22009.0.15    1.598e-03  3.175e-03   0.503 0.614675
## f.22009.0.16   -1.730e-02  3.110e-03  -5.562 2.67e-08 ***
## f.22009.0.17   -4.968e-03  2.888e-03  -1.720 0.085406 .
## f.22009.0.18    8.730e-03  2.895e-03   3.015 0.002568 **
## f.22009.0.19   -1.000e-03  2.883e-03  -0.347 0.728678
## f.22009.0.20    4.303e-03  2.888e-03   1.490 0.136306
## f.22001.0.01   -7.127e-02  5.824e-03 -12.239  < 2e-16 ***
## f.34.0.0        4.652e-03  3.816e-04  12.189  < 2e-16 ***
## f.22000.0.0-1   1.106e-01  4.074e-02   2.714 0.006646 **
## f.22000.0.010  -7.641e-02  4.118e-02  -1.856 0.063477 .
## f.22000.0.0-10  3.163e-02  4.140e-02   0.764 0.444890
## f.22000.0.011  -2.822e-02  4.049e-02  -0.697 0.485824
## f.22000.0.0-11  1.000e-01  4.104e-02   2.437 0.014813 *
## f.22000.0.012  -4.576e-02  4.078e-02  -1.122 0.261815
## f.22000.0.013  -2.013e-02  4.064e-02  -0.495 0.620359
## f.22000.0.014  -2.287e-02  4.038e-02  -0.566 0.571186
## f.22000.0.015   1.855e-02  4.064e-02   0.457 0.647975
## f.22000.0.016   1.608e-02  4.086e-02   0.393 0.693978
```

```
## f.22000.0.016   1.608e-02  4.080e-02   0.395 0.693978
## f.22000.0.017   8.253e-03  4.045e-02   0.204 0.838340
## f.22000.0.018   1.540e-02  4.089e-02   0.377 0.706501
## f.22000.0.019  -1.821e-03  4.012e-02  -0.045 0.963796
## f.22000.0.02   -5.092e-03  4.026e-02  -0.126 0.899355
## f.22000.0.0-2   5.616e-02  4.097e-02   1.371 0.170485
## f.22000.0.020  -1.120e-02  4.076e-02  -0.275 0.783423
## f.22000.0.021  -1.287e-02  4.069e-02  -0.316 0.751702
## f.22000.0.022   3.358e-02  4.064e-02   0.826 0.408595
## f.22000.0.023   2.558e-02  4.063e-02   0.630 0.528877
## f.22000.0.024  -2.658e-02  4.009e-02  -0.663 0.507375
## f.22000.0.025  -4.270e-02  4.114e-02  -1.038 0.299268
## f.22000.0.026  -2.621e-02  4.088e-02  -0.641 0.521437
## f.22000.0.027  -4.947e-02  4.021e-02  -1.230 0.218640
## f.22000.0.028   2.213e-02  4.061e-02   0.545 0.585876
## f.22000.0.029   1.922e-02  4.036e-02   0.476 0.633842
## f.22000.0.03    5.404e-03  4.027e-02   0.134 0.893247
## f.22000.0.0-3   4.393e-02  4.058e-02   1.083 0.278936
## f.22000.0.030  -3.955e-02  4.036e-02  -0.980 0.327079
## f.22000.0.031   2.914e-02  4.049e-02   0.720 0.471784
## f.22000.0.032   1.494e-02  4.068e-02   0.367 0.713440
## f.22000.0.033   1.634e-02  4.140e-02   0.395 0.693175
## f.22000.0.034   6.174e-02  4.044e-02   1.527 0.126832
## f.22000.0.035  -2.237e-03  4.053e-02  -0.055 0.955986
## f.22000.0.036   1.301e-02  4.023e-02   0.323 0.746361
## f.22000.0.037  -2.566e-02  4.084e-02  -0.628 0.529763
## f.22000.0.038   2.722e-02  4.071e-02   0.669 0.503750
## f.22000.0.039  -1.450e-02  4.115e-02  -0.352 0.724572
## f.22000.0.04   -1.819e-02  4.101e-02  -0.443 0.657439
## f.22000.0.0-4   1.061e-01  4.122e-02   2.574 0.010052 *
## f.22000.0.040   2.233e-02  4.064e-02   0.550 0.582591
## f.22000.0.041  -3.389e-02  4.124e-02  -0.822 0.411231
## f.22000.0.042  -3.029e-02  4.057e-02  -0.747 0.455274
## f.22000.0.043  -1.353e-02  4.129e-02  -0.328 0.743097
## f.22000.0.044  -4.742e-02  4.084e-02  -1.161 0.245564
## f.22000.0.045  -6.899e-03  4.086e-02  -0.169 0.865922
## f.22000.0.046  -2.678e-02  4.109e-02  -0.652 0.514516
## f.22000.0.047  -4.153e-02  4.112e-02  -1.010 0.312496
## f.22000.0.048   2.049e-02  4.103e-02   0.499 0.617471
## f.22000.0.049  -2.334e-02  4.105e-02  -0.568 0.569710
## f.22000.0.05   -6.820e-02  4.035e-02  -1.690 0.090989 .
## f.22000.0.0-5   8.690e-02  4.077e-02   2.131 0.033066 *
## f.22000.0.050   4.192e-02  4.114e-02   1.019 0.308190
## f.22000.0.051   2.484e-02  4.050e-02   0.613 0.539643
## f.22000.0.052  -3.161e-02  4.122e-02  -0.767 0.443159
## f.22000.0.053  -4.473e-02  4.094e-02  -1.093 0.274497
## f.22000.0.054  -1.247e-02  4.104e-02  -0.304 0.761280
## f.22000.0.055   3.478e-03  4.138e-02   0.084 0.933028
## f.22000.0.056  -4.619e-02  4.102e-02  -1.126 0.260168
## f.22000.0.057  -8.079e-03  4.124e-02  -0.196 0.844660
## f.22000.0.058  -4.657e-02  4.103e-02  -1.135 0.256332
## f.22000.0.059   7.434e-03  4.087e-02   0.182 0.855675
## f.22000.0.06   -1.394e-02  4.020e-02  -0.347 0.728694
## f.22000.0.0-6   5.405e-02  4.110e-02   1.315 0.188491
## f.22000.0.060  -4.402e-02  4.128e-02  -1.066 0.286270
## f.22000.0.061   4.464e-02  4.151e-02   1.075 0.282243
## f.22000.0.062  -9.804e-03  4.138e-02  -0.237 0.812720
## f.22000.0.063   4.993e-03  4.138e-02   0.121 0.903967
## f.22000.0.064  -2.914e-03  4.102e-02  -0.071 0.943370
## f.22000.0.065   2.303e-03  4.126e-02   0.056 0.955488
## f.22000.0.066  -9.556e-04  4.168e-02  -0.023 0.981708
## f.22000.0.067  -1.520e-02  4.124e-02  -0.368 0.712536
## f.22000.0.068   2.100e-02  4.122e-02   0.509 0.610490
## f.22000.0.069  -4.173e-03  4.128e-02  -0.101 0.919480
## f.22000.0.07    1.060e-02  4.052e-02   0.262 0.793666
## f.22000.0.0-7   1.124e-02  4.088e-02   0.275 0.783287
## f.22000.0.070   2.915e-02  4.127e-02   0.706 0.479978
## f.22000.0.071  -2.514e-02  4.107e-02  -0.612 0.540416
## f.22000.0.072  -2.891e-03  4.132e-02  -0.070 0.944226
## f.22000.0.073   8.834e-03  4.135e-02   0.214 0.830852
## f.22000.0.074  -3.000e-02  4.149e-02  -0.723 0.469730
## f.22000.0.075   1.271e-02  4.112e-02   0.309 0.757193
## f.22000.0.076  -4.330e-02  4.153e-02  -1.043 0.297178
```

```
## f.22000.0.077  -5.832e-02  4.130e-02  -1.412 0.157966
## f.22000.0.078  -3.075e-02  4.106e-02  -0.749 0.453983
## f.22000.0.079  -3.620e-02  4.097e-02  -0.883 0.376982
## f.22000.0.08    7.139e-04  4.048e-02   0.018 0.985929
## f.22000.0.0-8   5.266e-02  4.103e-02   1.283 0.199358
## f.22000.0.080  -8.266e-03  4.144e-02  -0.199 0.841915
## f.22000.0.081  -6.506e-03  4.189e-02  -0.155 0.876591
## f.22000.0.082  -4.183e-02  4.140e-02  -1.010 0.312290
## f.22000.0.083  -3.112e-02  4.151e-02  -0.750 0.453437
## f.22000.0.084   9.126e-03  4.151e-02   0.220 0.826013
## f.22000.0.085   4.901e-02  4.135e-02   1.185 0.235883
## f.22000.0.086   5.784e-03  4.147e-02   0.139 0.889076
## f.22000.0.087  -9.160e-02  4.146e-02  -2.209 0.027158 *
## f.22000.0.088  -2.229e-02  4.217e-02  -0.528 0.597164
## f.22000.0.089  -5.740e-04  4.189e-02  -0.014 0.989068
## f.22000.0.09   -2.530e-02  4.026e-02  -0.629 0.529654
## f.22000.0.0-9   6.221e-02  4.105e-02   1.515 0.129651
## f.22000.0.090   1.657e-02  4.143e-02   0.400 0.689174
## f.22000.0.091   9.418e-03  4.284e-02   0.220 0.825976
## f.22000.0.092  -6.102e-03  4.159e-02  -0.147 0.883339
## f.22000.0.093   7.006e-03  4.153e-02   0.169 0.866016
## f.22000.0.094   2.574e-02  5.309e-02   0.485 0.627860
## f.22000.0.095  -2.104e-02  4.426e-02  -0.475 0.634526
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9962 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008618,   Adjusted R-squared:  0.007556
## F-statistic:  8.11 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.750000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1591 -0.6948 -0.2972  0.2453  7.9650
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.047e+00  7.457e-01 -12.131  < 2e-16 ***
## `0.750000`      3.106e-02  2.884e-03  10.769  < 2e-16 ***
## f.22009.0.1     2.786e-03  3.050e-03   0.913  0.36100
## f.22009.0.2    -5.752e-03  2.936e-03  -1.959  0.05006 .
## f.22009.0.3     3.627e-03  3.011e-03   1.204  0.22842
## f.22009.0.4     1.966e-03  4.214e-03   0.467  0.64078
## f.22009.0.5     3.493e-02  4.090e-03   8.539  < 2e-16 ***
## f.22009.0.6     5.505e-05  2.981e-03   0.018  0.98527
## f.22009.0.7    -9.130e-03  3.052e-03  -2.991  0.00278 **
## f.22009.0.8     8.541e-03  3.219e-03   2.653  0.00798 **
## f.22009.0.9     7.413e-03  3.073e-03   2.412  0.01586 *
## f.22009.0.10   -4.718e-03  3.565e-03  -1.323  0.18571
## f.22009.0.11    1.503e-02  4.146e-03   3.624  0.00029 ***
## f.22009.0.12   -5.520e-03  3.642e-03  -1.516  0.12965
## f.22009.0.13   -3.862e-03  2.931e-03  -1.318  0.18766
## f.22009.0.14   -4.019e-02  3.098e-03 -12.972  < 2e-16 ***
## f.22009.0.15    1.597e-03  3.175e-03   0.503  0.61498
## f.22009.0.16   -1.730e-02  3.110e-03  -5.562 2.67e-08 ***
## f.22009.0.17   -4.957e-03  2.888e-03  -1.716  0.08607 .
## f.22009.0.18    8.730e-03  2.895e-03   3.015  0.00257 **
```

```
## f.22009.0.18    8.750e-03  2.895e-03   3.013  0.00257 **
## f.22009.0.19   -9.926e-04  2.883e-03  -0.344  0.73063
## f.22009.0.20    4.294e-03  2.889e-03   1.487  0.13708
## f.22001.0.01   -7.128e-02  5.824e-03 -12.239  < 2e-16 ***
## f.34.0.0        4.652e-03  3.816e-04  12.189  < 2e-16 ***
## f.22000.0.0-1   1.106e-01  4.074e-02   2.715  0.00664 **
## f.22000.0.010  -7.640e-02  4.118e-02  -1.855  0.06354 .
## f.22000.0.0-10  3.162e-02  4.140e-02   0.764  0.44501
## f.22000.0.011  -2.819e-02  4.049e-02  -0.696  0.48641
## f.22000.0.0-11  1.000e-01  4.104e-02   2.437  0.01480 *
## f.22000.0.012  -4.579e-02  4.078e-02  -1.123  0.26155
## f.22000.0.013  -2.018e-02  4.065e-02  -0.496  0.61958
## f.22000.0.014  -2.286e-02  4.038e-02  -0.566  0.57124
## f.22000.0.015   1.854e-02  4.064e-02   0.456  0.64822
## f.22000.0.016   1.606e-02  4.086e-02   0.393  0.69424
## f.22000.0.017   8.242e-03  4.045e-02   0.204  0.83855
## f.22000.0.018   1.544e-02  4.089e-02   0.378  0.70572
## f.22000.0.019  -1.826e-03  4.012e-02  -0.046  0.96371
## f.22000.0.02   -5.078e-03  4.026e-02  -0.126  0.89963
## f.22000.0.0-2   5.612e-02  4.097e-02   1.370  0.17082
## f.22000.0.020  -1.128e-02  4.076e-02  -0.277  0.78203
## f.22000.0.021  -1.289e-02  4.069e-02  -0.317  0.75133
## f.22000.0.022   3.355e-02  4.064e-02   0.826  0.40902
## f.22000.0.023   2.557e-02  4.063e-02   0.629  0.52907
## f.22000.0.024  -2.660e-02  4.009e-02  -0.663  0.50702
## f.22000.0.025  -4.271e-02  4.114e-02  -1.038  0.29910
## f.22000.0.026  -2.622e-02  4.088e-02  -0.641  0.52134
## f.22000.0.027  -4.951e-02  4.021e-02  -1.231  0.21822
## f.22000.0.028   2.212e-02  4.061e-02   0.545  0.58597
## f.22000.0.029   1.923e-02  4.036e-02   0.476  0.63375
## f.22000.0.03    5.386e-03  4.027e-02   0.134  0.89359
## f.22000.0.0-3   4.388e-02  4.058e-02   1.081  0.27950
## f.22000.0.030  -3.952e-02  4.036e-02  -0.979  0.32752
## f.22000.0.031   2.920e-02  4.049e-02   0.721  0.47075
## f.22000.0.032   1.492e-02  4.068e-02   0.367  0.71384
## f.22000.0.033   1.639e-02  4.140e-02   0.396  0.69222
## f.22000.0.034   6.173e-02  4.044e-02   1.526  0.12694
## f.22000.0.035  -2.176e-03  4.053e-02  -0.054  0.95719
## f.22000.0.036   1.295e-02  4.023e-02   0.322  0.74764
## f.22000.0.037  -2.565e-02  4.084e-02  -0.628  0.52994
## f.22000.0.038   2.728e-02  4.071e-02   0.670  0.50280
## f.22000.0.039  -1.446e-02  4.115e-02  -0.351  0.72526
## f.22000.0.04   -1.817e-02  4.101e-02  -0.443  0.65778
## f.22000.0.0-4   1.061e-01  4.122e-02   2.574  0.01005 *
## f.22000.0.040   2.227e-02  4.064e-02   0.548  0.58368
## f.22000.0.041  -3.392e-02  4.124e-02  -0.822  0.41088
## f.22000.0.042  -3.026e-02  4.057e-02  -0.746  0.45567
## f.22000.0.043  -1.352e-02  4.129e-02  -0.327  0.74343
## f.22000.0.044  -4.741e-02  4.084e-02  -1.161  0.24561
## f.22000.0.045  -6.920e-03  4.086e-02  -0.169  0.86552
## f.22000.0.046  -2.679e-02  4.109e-02  -0.652  0.51443
## f.22000.0.047  -4.158e-02  4.112e-02  -1.011  0.31188
## f.22000.0.048   2.050e-02  4.103e-02   0.500  0.61741
## f.22000.0.049  -2.338e-02  4.105e-02  -0.570  0.56899
## f.22000.0.05   -6.817e-02  4.035e-02  -1.690  0.09112 .
## f.22000.0.0-5   8.691e-02  4.077e-02   2.132  0.03304 *
## f.22000.0.050   4.190e-02  4.114e-02   1.019  0.30844
## f.22000.0.051   2.479e-02  4.050e-02   0.612  0.54038
## f.22000.0.052  -3.158e-02  4.122e-02  -0.766  0.44361
## f.22000.0.053  -4.474e-02  4.094e-02  -1.093  0.27445
## f.22000.0.054  -1.248e-02  4.104e-02  -0.304  0.76099
## f.22000.0.055   3.451e-03  4.138e-02   0.083  0.93355
## f.22000.0.056  -4.623e-02  4.102e-02  -1.127  0.25975
## f.22000.0.057  -8.131e-03  4.124e-02  -0.197  0.84369
## f.22000.0.058  -4.664e-02  4.103e-02  -1.137  0.25571
## f.22000.0.059   7.456e-03  4.087e-02   0.182  0.85525
## f.22000.0.06   -1.392e-02  4.020e-02  -0.346  0.72918
## f.22000.0.0-6   5.407e-02  4.110e-02   1.316  0.18832
## f.22000.0.060  -4.401e-02  4.128e-02  -1.066  0.28638
## f.22000.0.061   4.458e-02  4.151e-02   1.074  0.28284
## f.22000.0.062  -9.877e-03  4.138e-02  -0.239  0.81136
## f.22000.0.063   4.999e-03  4.138e-02   0.121  0.90384
## f.22000.0.064  -2.879e-03  4.102e-02  -0.070  0.94404
```

```
## f.22000.0.065   2.250e-03  4.126e-02   0.055  0.95651
## f.22000.0.066  -9.101e-04  4.168e-02  -0.022  0.98258
## f.22000.0.067  -1.519e-02  4.124e-02  -0.368  0.71266
## f.22000.0.068   2.101e-02  4.122e-02   0.510  0.61031
## f.22000.0.069  -4.175e-03  4.128e-02  -0.101  0.91943
## f.22000.0.07    1.062e-02  4.052e-02   0.262  0.79329
## f.22000.0.0-7   1.125e-02  4.088e-02   0.275  0.78325
## f.22000.0.070   2.915e-02  4.127e-02   0.706  0.48002
## f.22000.0.071  -2.512e-02  4.107e-02  -0.612  0.54086
## f.22000.0.072  -2.882e-03  4.132e-02  -0.070  0.94440
## f.22000.0.073   8.875e-03  4.135e-02   0.215  0.83007
## f.22000.0.074  -2.996e-02  4.149e-02  -0.722  0.47032
## f.22000.0.075   1.273e-02  4.112e-02   0.310  0.75680
## f.22000.0.076  -4.329e-02  4.153e-02  -1.042  0.29731
## f.22000.0.077  -5.834e-02  4.130e-02  -1.413  0.15778
## f.22000.0.078  -3.076e-02  4.106e-02  -0.749  0.45384
## f.22000.0.079  -3.618e-02  4.097e-02  -0.883  0.37729
## f.22000.0.08    6.844e-04  4.048e-02   0.017  0.98651
## f.22000.0.0-8   5.267e-02  4.103e-02   1.284  0.19926
## f.22000.0.080  -8.304e-03  4.144e-02  -0.200  0.84119
## f.22000.0.081  -6.450e-03  4.189e-02  -0.154  0.87763
## f.22000.0.082  -4.181e-02  4.140e-02  -1.010  0.31251
## f.22000.0.083  -3.112e-02  4.151e-02  -0.750  0.45336
## f.22000.0.084   9.198e-03  4.151e-02   0.222  0.82466
## f.22000.0.085   4.902e-02  4.135e-02   1.186  0.23581
## f.22000.0.086   5.816e-03  4.147e-02   0.140  0.88846
## f.22000.0.087  -9.159e-02  4.146e-02  -2.209  0.02718 *
## f.22000.0.088  -2.227e-02  4.217e-02  -0.528  0.59737
## f.22000.0.089  -5.884e-04  4.189e-02  -0.014  0.98879
## f.22000.0.09   -2.537e-02  4.026e-02  -0.630  0.52854
## f.22000.0.0-9   6.222e-02  4.105e-02   1.516  0.12957
## f.22000.0.090   1.661e-02  4.143e-02   0.401  0.68850
## f.22000.0.091   9.463e-03  4.284e-02   0.221  0.82516
## f.22000.0.092  -6.111e-03  4.159e-02  -0.147  0.88318
## f.22000.0.093   7.014e-03  4.153e-02   0.169  0.86588
## f.22000.0.094   2.573e-02  5.309e-02   0.485  0.62787
## f.22000.0.095  -2.104e-02  4.426e-02  -0.475  0.63452
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9962 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008615,   Adjusted R-squared:  0.007553
## F-statistic: 8.107 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.500000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.500000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1622 -0.6947 -0.2973  0.2451  7.9662
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.050e+00  7.457e-01 -12.136  < 2e-16 ***
## `0.500000`      3.069e-02  2.884e-03  10.641  < 2e-16 ***
## f.22009.0.1     2.783e-03  3.050e-03   0.913  0.36142
## f.22009.0.2    -5.749e-03  2.936e-03  -1.958  0.05022 .
## f.22009.0.3     3.617e-03  3.011e-03   1.201  0.22964
## f.22009.0.4     1.357e-03  4.214e-03   0.465  0.64228
```

```
## f.22009.0.4     1.957e-03  4.214e-03   0.465  0.64228
## f.22009.0.5     3.499e-02  4.090e-03   8.554  < 2e-16 ***
## f.22009.0.6     5.125e-05  2.981e-03   0.017  0.98628
## f.22009.0.7    -9.146e-03  3.052e-03  -2.996  0.00273 **
## f.22009.0.8     8.535e-03  3.219e-03   2.651  0.00802 **
## f.22009.0.9     7.435e-03  3.073e-03   2.419  0.01556 *
## f.22009.0.10   -4.734e-03  3.565e-03  -1.328  0.18423
## f.22009.0.11    1.507e-02  4.146e-03   3.634  0.00028 ***
## f.22009.0.12   -5.534e-03  3.642e-03  -1.519  0.12870
## f.22009.0.13   -3.861e-03  2.931e-03  -1.317  0.18778
## f.22009.0.14   -4.023e-02  3.098e-03 -12.985  < 2e-16 ***
## f.22009.0.15    1.591e-03  3.175e-03   0.501  0.61637
## f.22009.0.16   -1.730e-02  3.110e-03  -5.562 2.67e-08 ***
## f.22009.0.17   -4.963e-03  2.888e-03  -1.719  0.08570 .
## f.22009.0.18    8.726e-03  2.895e-03   3.014  0.00258 **
## f.22009.0.19   -9.778e-04  2.883e-03  -0.339  0.73450
## f.22009.0.20    4.293e-03  2.889e-03   1.486  0.13725
## f.22001.0.01   -7.127e-02  5.824e-03 -12.238  < 2e-16 ***
## f.34.0.0        4.653e-03  3.816e-04  12.194  < 2e-16 ***
## f.22000.0.0-1   1.107e-01  4.074e-02   2.718  0.00657 **
## f.22000.0.010  -7.634e-02  4.118e-02  -1.854  0.06373 .
## f.22000.0.0-10  3.164e-02  4.141e-02   0.764  0.44484
## f.22000.0.011  -2.793e-02  4.050e-02  -0.690  0.49037
## f.22000.0.0-11  1.001e-01  4.104e-02   2.439  0.01473 *
## f.22000.0.012  -4.566e-02  4.078e-02  -1.120  0.26288
## f.22000.0.013  -2.000e-02  4.065e-02  -0.492  0.62259
## f.22000.0.014  -2.270e-02  4.038e-02  -0.562  0.57407
## f.22000.0.015   1.874e-02  4.064e-02   0.461  0.64472
## f.22000.0.016   1.617e-02  4.086e-02   0.396  0.69231
## f.22000.0.017   8.290e-03  4.045e-02   0.205  0.83764
## f.22000.0.018   1.548e-02  4.090e-02   0.378  0.70512
## f.22000.0.019  -1.576e-03  4.012e-02  -0.039  0.96866
## f.22000.0.02   -4.914e-03  4.026e-02  -0.122  0.90285
## f.22000.0.0-2   5.605e-02  4.097e-02   1.368  0.17135
## f.22000.0.020  -1.127e-02  4.076e-02  -0.277  0.78210
## f.22000.0.021  -1.269e-02  4.069e-02  -0.312  0.75508
## f.22000.0.022   3.366e-02  4.064e-02   0.828  0.40759
## f.22000.0.023   2.569e-02  4.063e-02   0.632  0.52724
## f.22000.0.024  -2.647e-02  4.009e-02  -0.660  0.50905
## f.22000.0.025  -4.270e-02  4.114e-02  -1.038  0.29930
## f.22000.0.026  -2.603e-02  4.088e-02  -0.637  0.52439
## f.22000.0.027  -4.935e-02  4.021e-02  -1.227  0.21975
## f.22000.0.028   2.205e-02  4.061e-02   0.543  0.58723
## f.22000.0.029   1.942e-02  4.036e-02   0.481  0.63048
## f.22000.0.03    5.380e-03  4.027e-02   0.134  0.89371
## f.22000.0.0-3   4.397e-02  4.058e-02   1.084  0.27848
## f.22000.0.030  -3.957e-02  4.036e-02  -0.980  0.32685
## f.22000.0.031   2.933e-02  4.049e-02   0.724  0.46889
## f.22000.0.032   1.508e-02  4.068e-02   0.371  0.71092
## f.22000.0.033   1.660e-02  4.140e-02   0.401  0.68845
## f.22000.0.034   6.188e-02  4.044e-02   1.530  0.12600
## f.22000.0.035  -2.150e-03  4.053e-02  -0.053  0.95770
## f.22000.0.036   1.319e-02  4.023e-02   0.328  0.74307
## f.22000.0.037  -2.548e-02  4.084e-02  -0.624  0.53259
## f.22000.0.038   2.736e-02  4.071e-02   0.672  0.50149
## f.22000.0.039  -1.429e-02  4.115e-02  -0.347  0.72844
## f.22000.0.04   -1.824e-02  4.101e-02  -0.445  0.65658
## f.22000.0.0-4   1.062e-01  4.122e-02   2.577  0.00997 **
## f.22000.0.040   2.225e-02  4.064e-02   0.548  0.58401
## f.22000.0.041  -3.377e-02  4.124e-02  -0.819  0.41288
## f.22000.0.042  -3.006e-02  4.057e-02  -0.741  0.45875
## f.22000.0.043  -1.323e-02  4.129e-02  -0.320  0.74877
## f.22000.0.044  -4.736e-02  4.084e-02  -1.160  0.24610
## f.22000.0.045  -6.641e-03  4.086e-02  -0.163  0.87090
## f.22000.0.046  -2.664e-02  4.109e-02  -0.648  0.51674
## f.22000.0.047  -4.159e-02  4.112e-02  -1.011  0.31183
## f.22000.0.048   2.029e-02  4.103e-02   0.494  0.62096
## f.22000.0.049  -2.338e-02  4.105e-02  -0.569  0.56903
## f.22000.0.05   -6.804e-02  4.035e-02  -1.686  0.09177 .
## f.22000.0.0-5   8.709e-02  4.077e-02   2.136  0.03268 *
## f.22000.0.050   4.206e-02  4.114e-02   1.023  0.30651
## f.22000.0.051   2.493e-02  4.050e-02   0.615  0.53823
## f.22000.0.052  -3.132e-02  4.122e-02  -0.760  0.44741
```

```
## f.22000.0.053  -4.457e-02  4.094e-02  -1.089  0.27629
## f.22000.0.054  -1.229e-02  4.104e-02  -0.300  0.76453
## f.22000.0.055   3.547e-03  4.138e-02   0.086  0.93169
## f.22000.0.056  -4.603e-02  4.102e-02  -1.122  0.26179
## f.22000.0.057  -8.139e-03  4.124e-02  -0.197  0.84354
## f.22000.0.058  -4.655e-02  4.103e-02  -1.134  0.25662
## f.22000.0.059   7.528e-03  4.087e-02   0.184  0.85386
## f.22000.0.06   -1.385e-02  4.020e-02  -0.345  0.73044
## f.22000.0.0-6   5.432e-02  4.110e-02   1.322  0.18631
## f.22000.0.060  -4.386e-02  4.128e-02  -1.062  0.28804
## f.22000.0.061   4.476e-02  4.151e-02   1.078  0.28097
## f.22000.0.062  -9.708e-03  4.138e-02  -0.235  0.81452
## f.22000.0.063   5.183e-03  4.138e-02   0.125  0.90033
## f.22000.0.064  -2.655e-03  4.102e-02  -0.065  0.94840
## f.22000.0.065   2.264e-03  4.126e-02   0.055  0.95624
## f.22000.0.066  -8.365e-04  4.168e-02  -0.020  0.98399
## f.22000.0.067  -1.497e-02  4.124e-02  -0.363  0.71658
## f.22000.0.068   2.120e-02  4.122e-02   0.514  0.60703
## f.22000.0.069  -4.124e-03  4.128e-02  -0.100  0.92042
## f.22000.0.07    1.080e-02  4.052e-02   0.267  0.78979
## f.22000.0.0-7   1.148e-02  4.088e-02   0.281  0.77884
## f.22000.0.070   2.942e-02  4.127e-02   0.713  0.47597
## f.22000.0.071  -2.506e-02  4.107e-02  -0.610  0.54180
## f.22000.0.072  -2.640e-03  4.132e-02  -0.064  0.94907
## f.22000.0.073   8.954e-03  4.135e-02   0.217  0.82858
## f.22000.0.074  -2.976e-02  4.149e-02  -0.717  0.47316
## f.22000.0.075   1.281e-02  4.112e-02   0.312  0.75534
## f.22000.0.076  -4.330e-02  4.153e-02  -1.043  0.29716
## f.22000.0.077  -5.831e-02  4.130e-02  -1.412  0.15803
## f.22000.0.078  -3.066e-02  4.106e-02  -0.747  0.45522
## f.22000.0.079  -3.603e-02  4.097e-02  -0.879  0.37916
## f.22000.0.08    6.867e-04  4.048e-02   0.017  0.98646
## f.22000.0.0-8   5.285e-02  4.103e-02   1.288  0.19778
## f.22000.0.080  -8.232e-03  4.144e-02  -0.199  0.84255
## f.22000.0.081  -6.097e-03  4.189e-02  -0.146  0.88428
## f.22000.0.082  -4.165e-02  4.140e-02  -1.006  0.31436
## f.22000.0.083  -3.108e-02  4.151e-02  -0.749  0.45393
## f.22000.0.084   9.310e-03  4.152e-02   0.224  0.82257
## f.22000.0.085   4.912e-02  4.135e-02   1.188  0.23492
## f.22000.0.086   6.012e-03  4.147e-02   0.145  0.88475
## f.22000.0.087  -9.141e-02  4.146e-02  -2.205  0.02749 *
## f.22000.0.088  -2.232e-02  4.217e-02  -0.529  0.59658
## f.22000.0.089  -6.207e-04  4.190e-02  -0.015  0.98818
## f.22000.0.09   -2.525e-02  4.026e-02  -0.627  0.53054
## f.22000.0.0-9   6.238e-02  4.105e-02   1.520  0.12861
## f.22000.0.090   1.660e-02  4.143e-02   0.401  0.68862
## f.22000.0.091   9.658e-03  4.284e-02   0.225  0.82161
## f.22000.0.092  -5.999e-03  4.159e-02  -0.144  0.88530
## f.22000.0.093   7.306e-03  4.153e-02   0.176  0.86035
## f.22000.0.094   2.576e-02  5.309e-02   0.485  0.62758
## f.22000.0.095  -2.081e-02  4.426e-02  -0.470  0.63829
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9962 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008593,   Adjusted R-squared:  0.00753
## F-statistic: 8.085 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.250000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.250000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
```

```
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1731 -0.6946 -0.2971  0.2455  7.9783
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.058e+00  7.457e-01 -12.146  < 2e-16 ***
## `0.250000`      3.059e-02  2.884e-03  10.606  < 2e-16 ***
## f.22009.0.1     2.812e-03  3.050e-03   0.922 0.356438
## f.22009.0.2    -5.726e-03  2.936e-03  -1.950 0.051131 .
## f.22009.0.3     3.627e-03  3.011e-03   1.205 0.228379
## f.22009.0.4     1.990e-03  4.214e-03   0.472 0.636775
## f.22009.0.5     3.497e-02  4.090e-03   8.549  < 2e-16 ***
## f.22009.0.6     7.011e-05  2.981e-03   0.024 0.981237
## f.22009.0.7    -9.149e-03  3.052e-03  -2.997 0.002724 **
## f.22009.0.8     8.491e-03  3.219e-03   2.638 0.008350 **
## f.22009.0.9     7.523e-03  3.073e-03   2.448 0.014363 *
## f.22009.0.10   -4.722e-03  3.566e-03  -1.324 0.185365
## f.22009.0.11    1.501e-02  4.146e-03   3.621 0.000294 ***
## f.22009.0.12   -5.514e-03  3.642e-03  -1.514 0.130072
## f.22009.0.13   -3.845e-03  2.931e-03  -1.312 0.189641
## f.22009.0.14   -4.030e-02  3.098e-03 -13.009  < 2e-16 ***
## f.22009.0.15    1.540e-03  3.175e-03   0.485 0.627611
## f.22009.0.16   -1.728e-02  3.110e-03  -5.557 2.74e-08 ***
## f.22009.0.17   -4.896e-03  2.888e-03  -1.695 0.090009 .
## f.22009.0.18    8.733e-03  2.895e-03   3.016 0.002561 **
## f.22009.0.19   -8.993e-04  2.883e-03  -0.312 0.755119
## f.22009.0.20    4.295e-03  2.889e-03   1.487 0.137083
## f.22001.0.01   -7.125e-02  5.824e-03 -12.234  < 2e-16 ***
## f.34.0.0        4.657e-03  3.816e-04  12.204  < 2e-16 ***
## f.22000.0.0-1   1.105e-01  4.074e-02   2.711 0.006701 **
## f.22000.0.010  -7.622e-02  4.118e-02  -1.851 0.064172 .
## f.22000.0.0-10  3.169e-02  4.141e-02   0.765 0.444051
## f.22000.0.011  -2.822e-02  4.050e-02  -0.697 0.485821
## f.22000.0.0-11  1.003e-01  4.104e-02   2.444 0.014520 *
## f.22000.0.012  -4.553e-02  4.078e-02  -1.117 0.264183
## f.22000.0.013  -2.045e-02  4.065e-02  -0.503 0.614883
## f.22000.0.014  -2.337e-02  4.038e-02  -0.579 0.562720
## f.22000.0.015   1.878e-02  4.064e-02   0.462 0.644068
## f.22000.0.016   1.579e-02  4.086e-02   0.386 0.699187
## f.22000.0.017   8.099e-03  4.045e-02   0.200 0.841327
## f.22000.0.018   1.550e-02  4.090e-02   0.379 0.704676
## f.22000.0.019  -2.191e-03  4.012e-02  -0.055 0.956458
## f.22000.0.02   -4.605e-03  4.026e-02  -0.114 0.908933
## f.22000.0.0-2   5.590e-02  4.097e-02   1.364 0.172482
## f.22000.0.020  -1.160e-02  4.076e-02  -0.284 0.776049
## f.22000.0.021  -1.266e-02  4.069e-02  -0.311 0.755627
## f.22000.0.022   3.376e-02  4.064e-02   0.831 0.406071
## f.22000.0.023   2.602e-02  4.063e-02   0.640 0.521867
## f.22000.0.024  -2.622e-02  4.009e-02  -0.654 0.513149
## f.22000.0.025  -4.321e-02  4.114e-02  -1.050 0.293505
## f.22000.0.026  -2.587e-02  4.088e-02  -0.633 0.526925
## f.22000.0.027  -4.952e-02  4.021e-02  -1.232 0.218136
## f.22000.0.028   2.200e-02  4.061e-02   0.542 0.588025
## f.22000.0.029   1.950e-02  4.036e-02   0.483 0.628960
## f.22000.0.03    5.045e-03  4.027e-02   0.125 0.900304
## f.22000.0.0-3   4.378e-02  4.058e-02   1.079 0.280559
## f.22000.0.030  -3.977e-02  4.036e-02  -0.985 0.324468
## f.22000.0.031   2.907e-02  4.049e-02   0.718 0.472785
## f.22000.0.032   1.529e-02  4.068e-02   0.376 0.707023
## f.22000.0.033   1.678e-02  4.140e-02   0.405 0.685251
## f.22000.0.034   6.132e-02  4.044e-02   1.516 0.129459
## f.22000.0.035  -2.255e-03  4.053e-02  -0.056 0.955630
## f.22000.0.036   1.302e-02  4.023e-02   0.324 0.746222
## f.22000.0.037  -2.559e-02  4.084e-02  -0.627 0.530938
## f.22000.0.038   2.750e-02  4.071e-02   0.676 0.499272
## f.22000.0.039  -1.444e-02  4.115e-02  -0.351 0.725731
## f.22000.0.04   -1.810e-02  4.101e-02  -0.441 0.659040
## f.22000.0.0-4   1.061e-01  4.122e-02   2.574 0.010057 *
## f.22000.0.040   2.238e-02  4.064e-02   0.551 0.581858
```

```
## f.22000.0.041  -3.379e-02  4.124e-02  -0.819 0.412636
## f.22000.0.042  -3.019e-02  4.057e-02  -0.744 0.456789
## f.22000.0.043  -1.316e-02  4.129e-02  -0.319 0.749893
## f.22000.0.044  -4.785e-02  4.084e-02  -1.172 0.241329
## f.22000.0.045  -7.053e-03  4.086e-02  -0.173 0.862969
## f.22000.0.046  -2.661e-02  4.109e-02  -0.648 0.517291
## f.22000.0.047  -4.151e-02  4.112e-02  -1.010 0.312665
## f.22000.0.048   2.035e-02  4.103e-02   0.496 0.619874
## f.22000.0.049  -2.368e-02  4.105e-02  -0.577 0.564019
## f.22000.0.05   -6.835e-02  4.035e-02  -1.694 0.090281 .
## f.22000.0.0-5   8.720e-02  4.077e-02   2.139 0.032463 *
## f.22000.0.050   4.210e-02  4.114e-02   1.023 0.306085
## f.22000.0.051   2.469e-02  4.050e-02   0.610 0.542042
## f.22000.0.052  -3.166e-02  4.122e-02  -0.768 0.442473
## f.22000.0.053  -4.444e-02  4.094e-02  -1.086 0.277614
## f.22000.0.054  -1.274e-02  4.104e-02  -0.310 0.756282
## f.22000.0.055   3.181e-03  4.138e-02   0.077 0.938733
## f.22000.0.056  -4.633e-02  4.102e-02  -1.129 0.258776
## f.22000.0.057  -8.148e-03  4.124e-02  -0.198 0.843359
## f.22000.0.058  -4.664e-02  4.103e-02  -1.137 0.255717
## f.22000.0.059   7.391e-03  4.087e-02   0.181 0.856493
## f.22000.0.06   -1.393e-02  4.020e-02  -0.347 0.728954
## f.22000.0.0-6   5.439e-02  4.110e-02   1.323 0.185682
## f.22000.0.060  -4.379e-02  4.128e-02  -1.061 0.288852
## f.22000.0.061   4.479e-02  4.151e-02   1.079 0.280627
## f.22000.0.062  -9.917e-03  4.138e-02  -0.240 0.810613
## f.22000.0.063   5.402e-03  4.138e-02   0.131 0.896135
## f.22000.0.064  -3.001e-03  4.102e-02  -0.073 0.941678
## f.22000.0.065   1.838e-03  4.126e-02   0.045 0.964480
## f.22000.0.066  -7.614e-04  4.168e-02  -0.018 0.985426
## f.22000.0.067  -1.518e-02  4.124e-02  -0.368 0.712868
## f.22000.0.068   2.133e-02  4.122e-02   0.517 0.604906
## f.22000.0.069  -3.930e-03  4.128e-02  -0.095 0.924150
## f.22000.0.07    1.080e-02  4.052e-02   0.266 0.789906
## f.22000.0.0-7   1.128e-02  4.088e-02   0.276 0.782701
## f.22000.0.070   2.896e-02  4.127e-02   0.702 0.482945
## f.22000.0.071  -2.537e-02  4.107e-02  -0.618 0.536684
## f.22000.0.072  -2.177e-03  4.132e-02  -0.053 0.957982
## f.22000.0.073   8.734e-03  4.135e-02   0.211 0.832738
## f.22000.0.074  -2.987e-02  4.149e-02  -0.720 0.471569
## f.22000.0.075   1.307e-02  4.112e-02   0.318 0.750591
## f.22000.0.076  -4.321e-02  4.153e-02  -1.040 0.298138
## f.22000.0.077  -5.827e-02  4.130e-02  -1.411 0.158299
## f.22000.0.078  -3.136e-02  4.106e-02  -0.764 0.445059
## f.22000.0.079  -3.624e-02  4.098e-02  -0.884 0.376449
## f.22000.0.08    7.294e-04  4.048e-02   0.018 0.985624
## f.22000.0.0-8   5.271e-02  4.103e-02   1.284 0.198973
## f.22000.0.080  -8.475e-03  4.144e-02  -0.204 0.837972
## f.22000.0.081  -6.417e-03  4.189e-02  -0.153 0.878257
## f.22000.0.082  -4.138e-02  4.140e-02  -0.999 0.317586
## f.22000.0.083  -3.134e-02  4.151e-02  -0.755 0.450236
## f.22000.0.084   9.271e-03  4.152e-02   0.223 0.823286
## f.22000.0.085   4.904e-02  4.135e-02   1.186 0.235620
## f.22000.0.086   6.195e-03  4.147e-02   0.149 0.881257
## f.22000.0.087  -9.143e-02  4.146e-02  -2.205 0.027454 *
## f.22000.0.088  -2.219e-02  4.217e-02  -0.526 0.598823
## f.22000.0.089  -9.181e-04  4.190e-02  -0.022 0.982516
## f.22000.0.09   -2.518e-02  4.026e-02  -0.625 0.531699
## f.22000.0.0-9   6.219e-02  4.105e-02   1.515 0.129808
## f.22000.0.090   1.645e-02  4.143e-02   0.397 0.691417
## f.22000.0.091   9.594e-03  4.284e-02   0.224 0.822777
## f.22000.0.092  -5.851e-03  4.159e-02  -0.141 0.888117
## f.22000.0.093   6.948e-03  4.153e-02   0.167 0.867122
## f.22000.0.094   2.556e-02  5.309e-02   0.482 0.630159
## f.22000.0.095  -2.078e-02  4.426e-02  -0.469 0.638746
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9962 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008587,   Adjusted R-squared:  0.007524
## F-statistic: 8.079 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.100000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.100000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1557 -0.6951 -0.2971  0.2444  7.9791
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.065e+00  7.458e-01 -12.154  < 2e-16 ***
## `0.100000`      2.823e-02  2.885e-03   9.785  < 2e-16 ***
## f.22009.0.1     2.833e-03  3.050e-03   0.929  0.35297
## f.22009.0.2    -5.762e-03  2.936e-03  -1.963  0.04969 *
## f.22009.0.3     3.567e-03  3.011e-03   1.184  0.23622
## f.22009.0.4     1.927e-03  4.214e-03   0.457  0.64747
## f.22009.0.5     3.501e-02  4.090e-03   8.558  < 2e-16 ***
## f.22009.0.6    -1.743e-05  2.981e-03  -0.006  0.99533
## f.22009.0.7    -9.249e-03  3.053e-03  -3.030  0.00245 **
## f.22009.0.8     8.506e-03  3.220e-03   2.642  0.00824 **
## f.22009.0.9     7.602e-03  3.073e-03   2.473  0.01339 *
## f.22009.0.10   -4.711e-03  3.566e-03  -1.321  0.18648
## f.22009.0.11    1.507e-02  4.146e-03   3.634  0.00028 ***
## f.22009.0.12   -5.444e-03  3.643e-03  -1.495  0.13504
## f.22009.0.13   -3.921e-03  2.931e-03  -1.338  0.18100
## f.22009.0.14   -4.023e-02  3.098e-03 -12.985  < 2e-16 ***
## f.22009.0.15    1.523e-03  3.176e-03   0.480  0.63152
## f.22009.0.16   -1.727e-02  3.110e-03  -5.552 2.83e-08 ***
## f.22009.0.17   -4.897e-03  2.888e-03  -1.696  0.08997 .
## f.22009.0.18    8.698e-03  2.896e-03   3.004  0.00267 **
## f.22009.0.19   -8.707e-04  2.883e-03  -0.302  0.76268
## f.22009.0.20    4.314e-03  2.889e-03   1.493  0.13536
## f.22001.0.01   -7.139e-02  5.824e-03 -12.257  < 2e-16 ***
## f.34.0.0        4.661e-03  3.816e-04  12.212  < 2e-16 ***
## f.22000.0.0-1   1.108e-01  4.074e-02   2.719  0.00655 **
## f.22000.0.010  -7.625e-02  4.118e-02  -1.852  0.06407 .
## f.22000.0.0-10  3.156e-02  4.141e-02   0.762  0.44589
## f.22000.0.011  -2.804e-02  4.050e-02  -0.692  0.48869
## f.22000.0.0-11  1.007e-01  4.105e-02   2.452  0.01419 *
## f.22000.0.012  -4.512e-02  4.078e-02  -1.106  0.26862
## f.22000.0.013  -2.016e-02  4.065e-02  -0.496  0.61993
## f.22000.0.014  -2.312e-02  4.038e-02  -0.572  0.56700
## f.22000.0.015   1.894e-02  4.064e-02   0.466  0.64122
## f.22000.0.016   1.579e-02  4.087e-02   0.386  0.69920
## f.22000.0.017   8.370e-03  4.046e-02   0.207  0.83610
## f.22000.0.018   1.566e-02  4.090e-02   0.383  0.70184
## f.22000.0.019  -2.281e-03  4.012e-02  -0.057  0.95466
## f.22000.0.02   -4.710e-03  4.026e-02  -0.117  0.90686
## f.22000.0.0-2   5.664e-02  4.098e-02   1.382  0.16694
## f.22000.0.020  -1.177e-02  4.077e-02  -0.289  0.77281
## f.22000.0.021  -1.259e-02  4.069e-02  -0.309  0.75711
## f.22000.0.022   3.400e-02  4.064e-02   0.836  0.40288
## f.22000.0.023   2.563e-02  4.063e-02   0.631  0.52818
## f.22000.0.024  -2.625e-02  4.009e-02  -0.655  0.51260
## f.22000.0.025  -4.338e-02  4.114e-02  -1.054  0.29171
## f.22000.0.026  -2.596e-02  4.089e-02  -0.635  0.52539
## f.22000.0.027  -4.876e-02  4.021e-02  -1.212  0.22535
## f.22000.0.028   2.266e-02  4.061e-02   0.558  0.57683
## f.22000.0.029   1.976e-02  4.036e-02   0.489  0.62452
## f.22000.0.03    4.766e-03  4.027e-02   0.118  0.90579
## f.22000.0.0-3   4.419e-02  4.058e-02   1.089  0.27616
```

```
## f.22000.0.0-3   4.419e-02  4.038e-02   1.089  0.27616
## f.22000.0.030  -3.960e-02  4.036e-02  -0.981  0.32651
## f.22000.0.031   2.949e-02  4.049e-02   0.728  0.46647
## f.22000.0.032   1.556e-02  4.069e-02   0.383  0.70205
## f.22000.0.033   1.717e-02  4.141e-02   0.415  0.67838
## f.22000.0.034   6.168e-02  4.045e-02   1.525  0.12728
## f.22000.0.035  -2.386e-03  4.053e-02  -0.059  0.95306
## f.22000.0.036   1.319e-02  4.024e-02   0.328  0.74314
## f.22000.0.037  -2.506e-02  4.084e-02  -0.614  0.53952
## f.22000.0.038   2.734e-02  4.071e-02   0.671  0.50193
## f.22000.0.039  -1.433e-02  4.116e-02  -0.348  0.72777
## f.22000.0.04   -1.813e-02  4.102e-02  -0.442  0.65849
## f.22000.0.0-4   1.060e-01  4.122e-02   2.570  0.01016 *
## f.22000.0.040   2.214e-02  4.064e-02   0.545  0.58594
## f.22000.0.041  -3.395e-02  4.125e-02  -0.823  0.41051
## f.22000.0.042  -2.976e-02  4.057e-02  -0.733  0.46327
## f.22000.0.043  -1.342e-02  4.130e-02  -0.325  0.74529
## f.22000.0.044  -4.808e-02  4.084e-02  -1.177  0.23911
## f.22000.0.045  -6.296e-03  4.087e-02  -0.154  0.87757
## f.22000.0.046  -2.626e-02  4.109e-02  -0.639  0.52282
## f.22000.0.047  -4.130e-02  4.112e-02  -1.004  0.31515
## f.22000.0.048   2.059e-02  4.104e-02   0.502  0.61589
## f.22000.0.049  -2.355e-02  4.105e-02  -0.574  0.56616
## f.22000.0.05   -6.854e-02  4.035e-02  -1.698  0.08942 .
## f.22000.0.0-5   8.703e-02  4.078e-02   2.134  0.03281 *
## f.22000.0.050   4.279e-02  4.114e-02   1.040  0.29827
## f.22000.0.051   2.489e-02  4.050e-02   0.614  0.53893
## f.22000.0.052  -3.132e-02  4.123e-02  -0.760  0.44751
## f.22000.0.053  -4.460e-02  4.094e-02  -1.089  0.27601
## f.22000.0.054  -1.224e-02  4.104e-02  -0.298  0.76548
## f.22000.0.055   3.798e-03  4.139e-02   0.092  0.92688
## f.22000.0.056  -4.657e-02  4.103e-02  -1.135  0.25630
## f.22000.0.057  -7.842e-03  4.124e-02  -0.190  0.84918
## f.22000.0.058  -4.664e-02  4.103e-02  -1.137  0.25568
## f.22000.0.059   7.898e-03  4.087e-02   0.193  0.84678
## f.22000.0.06   -1.312e-02  4.020e-02  -0.326  0.74421
## f.22000.0.0-6   5.448e-02  4.110e-02   1.325  0.18504
## f.22000.0.060  -4.407e-02  4.129e-02  -1.067  0.28575
## f.22000.0.061   4.552e-02  4.152e-02   1.097  0.27284
## f.22000.0.062  -9.511e-03  4.139e-02  -0.230  0.81823
## f.22000.0.063   5.918e-03  4.138e-02   0.143  0.88628
## f.22000.0.064  -2.502e-03  4.102e-02  -0.061  0.95136
## f.22000.0.065   2.423e-03  4.127e-02   0.059  0.95318
## f.22000.0.066  -1.879e-03  4.168e-02  -0.045  0.96405
## f.22000.0.067  -1.546e-02  4.124e-02  -0.375  0.70778
## f.22000.0.068   2.099e-02  4.123e-02   0.509  0.61066
## f.22000.0.069  -4.308e-03  4.128e-02  -0.104  0.91690
## f.22000.0.07    1.105e-02  4.052e-02   0.273  0.78514
## f.22000.0.0-7   1.140e-02  4.089e-02   0.279  0.78030
## f.22000.0.070   2.899e-02  4.128e-02   0.702  0.48253
## f.22000.0.071  -2.460e-02  4.107e-02  -0.599  0.54919
## f.22000.0.072  -1.902e-03  4.133e-02  -0.046  0.96329
## f.22000.0.073   9.151e-03  4.136e-02   0.221  0.82488
## f.22000.0.074  -2.968e-02  4.150e-02  -0.715  0.47451
## f.22000.0.075   1.361e-02  4.112e-02   0.331  0.74071
## f.22000.0.076  -4.213e-02  4.154e-02  -1.014  0.31051
## f.22000.0.077  -5.785e-02  4.130e-02  -1.401  0.16135
## f.22000.0.078  -3.107e-02  4.106e-02  -0.757  0.44927
## f.22000.0.079  -3.593e-02  4.098e-02  -0.877  0.38056
## f.22000.0.08    5.964e-04  4.048e-02   0.015  0.98825
## f.22000.0.0-8   5.307e-02  4.104e-02   1.293  0.19592
## f.22000.0.080  -7.973e-03  4.145e-02  -0.192  0.84745
## f.22000.0.081  -6.867e-03  4.190e-02  -0.164  0.86981
## f.22000.0.082  -4.110e-02  4.140e-02  -0.993  0.32088
## f.22000.0.083  -3.123e-02  4.151e-02  -0.752  0.45179
## f.22000.0.084   9.672e-03  4.152e-02   0.233  0.81579
## f.22000.0.085   4.970e-02  4.135e-02   1.202  0.22941
## f.22000.0.086   6.236e-03  4.148e-02   0.150  0.88049
## f.22000.0.087  -9.135e-02  4.147e-02  -2.203  0.02759 *
## f.22000.0.088  -2.203e-02  4.217e-02  -0.522  0.60148
## f.22000.0.089  -2.091e-05  4.190e-02   0.000  0.99960
## f.22000.0.09   -2.458e-02  4.026e-02  -0.611  0.54149
## f.22000.0.0-9   6.261e-02  4.105e-02   1.525  0.12727
```

```
## f.22000.0.090   1.673e-02  4.144e-02   0.404  0.68646
## f.22000.0.091   1.006e-02  4.284e-02   0.235  0.81442
## f.22000.0.092  -5.454e-03  4.159e-02  -0.131  0.89567
## f.22000.0.093   7.125e-03  4.153e-02   0.172  0.86379
## f.22000.0.094   2.547e-02  5.310e-02   0.480  0.63146
## f.22000.0.095  -2.041e-02  4.427e-02  -0.461  0.64482
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008448,   Adjusted R-squared:  0.007385
## F-statistic: 7.948 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.010000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.010000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1619 -0.6956 -0.2972  0.2431  7.9851
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.0586955  0.7458951 -12.145  < 2e-16 ***
## `0.010000`      0.0222623  0.0028854   7.715 1.22e-14 ***
## f.22009.0.1     0.0029712  0.0030505   0.974 0.330044
## f.22009.0.2    -0.0057361  0.0029364  -1.953 0.050774 .
## f.22009.0.3     0.0034613  0.0030120   1.149 0.250480
## f.22009.0.4     0.0019059  0.0042145   0.452 0.651118
## f.22009.0.5     0.0352779  0.0040908   8.624  < 2e-16 ***
## f.22009.0.6    -0.0001138  0.0029819  -0.038 0.969550
## f.22009.0.7    -0.0093384  0.0030529  -3.059 0.002223 **
## f.22009.0.8     0.0084933  0.0032200   2.638 0.008349 **
## f.22009.0.9     0.0076141  0.0030740   2.477 0.013251 *
## f.22009.0.10   -0.0046720  0.0035663  -1.310 0.190193
## f.22009.0.11    0.0153263  0.0041468   3.696 0.000219 ***
## f.22009.0.12   -0.0054450  0.0036433  -1.495 0.135040
## f.22009.0.13   -0.0038751  0.0029319  -1.322 0.186275
## f.22009.0.14   -0.0403084  0.0030986 -13.009  < 2e-16 ***
## f.22009.0.15    0.0015901  0.0031761   0.501 0.616613
## f.22009.0.16   -0.0172820  0.0031106  -5.556 2.77e-08 ***
## f.22009.0.17   -0.0049127  0.0028887  -1.701 0.089000 .
## f.22009.0.18    0.0087473  0.0028960   3.020 0.002524 **
## f.22009.0.19   -0.0006473  0.0028839  -0.224 0.822403
## f.22009.0.20    0.0041466  0.0028896   1.435 0.151286
## f.22001.0.01   -0.0715227  0.0058249 -12.279  < 2e-16 ***
## f.34.0.0        0.0046574  0.0003817  12.202  < 2e-16 ***
## f.22000.0.0-1   0.1111896  0.0407472   2.729 0.006358 **
## f.22000.0.010  -0.0765041  0.0411848  -1.858 0.063231 .
## f.22000.0.0-10  0.0319704  0.0414146   0.772 0.440141
## f.22000.0.011  -0.0277104  0.0405045  -0.684 0.493894
## f.22000.0.0-11  0.1009308  0.0410516   2.459 0.013948 *
## f.22000.0.012  -0.0450088  0.0407904  -1.103 0.269849
## f.22000.0.013  -0.0205438  0.0406546  -0.505 0.613331
## f.22000.0.014  -0.0226534  0.0403877  -0.561 0.574867
## f.22000.0.015   0.0196673  0.0406471   0.484 0.628489
## f.22000.0.016   0.0163436  0.0408722   0.400 0.689253
## f.22000.0.017   0.0089315  0.0404624   0.221 0.825298
## f.22000.0.018   0.0161982  0.0409047   0.396 0.692107
## f.22000.0.019  -0.0021819  0.0401310  -0.054 0.956642
```

```
## f.22000.0.019  -0.0021819  0.0401310  -0.054 0.956842
## f.22000.0.02   -0.0039291  0.0402682  -0.098 0.922272
## f.22000.0.0-2   0.0574028  0.0409836   1.401 0.161328
## f.22000.0.020  -0.0102577  0.0407718  -0.252 0.801359
## f.22000.0.021  -0.0116008  0.0406993  -0.285 0.775616
## f.22000.0.022   0.0348845  0.0406487   0.858 0.390787
## f.22000.0.023   0.0258627  0.0406367   0.636 0.524493
## f.22000.0.024  -0.0253618  0.0400991  -0.632 0.527076
## f.22000.0.025  -0.0431875  0.0411458  -1.050 0.293894
## f.22000.0.026  -0.0255097  0.0408925  -0.624 0.532746
## f.22000.0.027  -0.0495223  0.0402199  -1.231 0.218218
## f.22000.0.028   0.0232499  0.0406211   0.572 0.567080
## f.22000.0.029   0.0205834  0.0403705   0.510 0.610148
## f.22000.0.03    0.0054669  0.0402767   0.136 0.892032
## f.22000.0.0-3   0.0458578  0.0405850   1.130 0.258513
## f.22000.0.030  -0.0381897  0.0403704  -0.946 0.344159
## f.22000.0.031   0.0308866  0.0404994   0.763 0.445677
## f.22000.0.032   0.0154985  0.0406913   0.381 0.703294
## f.22000.0.033   0.0181357  0.0414131   0.438 0.661444
## f.22000.0.034   0.0618376  0.0404519   1.529 0.126349
## f.22000.0.035  -0.0017008  0.0405404  -0.042 0.966536
## f.22000.0.036   0.0136985  0.0402432   0.340 0.733561
## f.22000.0.037  -0.0253536  0.0408463  -0.621 0.534793
## f.22000.0.038   0.0280870  0.0407183   0.690 0.490329
## f.22000.0.039  -0.0128980  0.0411638  -0.313 0.754027
## f.22000.0.04   -0.0177545  0.0410231  -0.433 0.665166
## f.22000.0.0-4   0.1065161  0.0412249   2.584 0.009774 **
## f.22000.0.040   0.0221419  0.0406476   0.545 0.585941
## f.22000.0.041  -0.0344754  0.0412523  -0.836 0.403314
## f.22000.0.042  -0.0300044  0.0405760  -0.739 0.459628
## f.22000.0.043  -0.0136169  0.0413031  -0.330 0.741641
## f.22000.0.044  -0.0475130  0.0408450  -1.163 0.244730
## f.22000.0.045  -0.0052386  0.0408732  -0.128 0.898018
## f.22000.0.046  -0.0248675  0.0410977  -0.605 0.545126
## f.22000.0.047  -0.0406465  0.0411272  -0.988 0.323002
## f.22000.0.048   0.0196875  0.0410432   0.480 0.631457
## f.22000.0.049  -0.0231767  0.0410612  -0.564 0.572453
## f.22000.0.05   -0.0686750  0.0403594  -1.702 0.088835 .
## f.22000.0.0-5   0.0868612  0.0407818   2.130 0.033182 *
## f.22000.0.050   0.0430935  0.0411460   1.047 0.294949
## f.22000.0.051   0.0249681  0.0405077   0.616 0.537646
## f.22000.0.052  -0.0312121  0.0412344  -0.757 0.449085
## f.22000.0.053  -0.0442287  0.0409458  -1.080 0.280066
## f.22000.0.054  -0.0113286  0.0410508  -0.276 0.782575
## f.22000.0.055   0.0048835  0.0413920   0.118 0.906082
## f.22000.0.056  -0.0458141  0.0410323  -1.117 0.264194
## f.22000.0.057  -0.0068927  0.0412451  -0.167 0.867278
## f.22000.0.058  -0.0465594  0.0410406  -1.134 0.256599
## f.22000.0.059   0.0081754  0.0408804   0.200 0.841494
## f.22000.0.06   -0.0129346  0.0402099  -0.322 0.747699
## f.22000.0.0-6   0.0559280  0.0411081   1.361 0.173671
## f.22000.0.060  -0.0432759  0.0412926  -1.048 0.294626
## f.22000.0.061   0.0454443  0.0415218   1.094 0.273752
## f.22000.0.062  -0.0084806  0.0413919  -0.205 0.837662
## f.22000.0.063   0.0065484  0.0413909   0.158 0.874294
## f.22000.0.064  -0.0017288  0.0410304  -0.042 0.966392
## f.22000.0.065   0.0037982  0.0412745   0.092 0.926680
## f.22000.0.066  -0.0024773  0.0416890  -0.059 0.952616
## f.22000.0.067  -0.0151121  0.0412513  -0.366 0.714110
## f.22000.0.068   0.0216636  0.0412319   0.525 0.599301
## f.22000.0.069  -0.0040904  0.0412911  -0.099 0.921089
## f.22000.0.07    0.0118462  0.0405270   0.292 0.770054
## f.22000.0.0-7   0.0112354  0.0408924   0.275 0.783506
## f.22000.0.070   0.0304661  0.0412832   0.738 0.460530
## f.22000.0.071  -0.0243209  0.0410796  -0.592 0.553823
## f.22000.0.072  -0.0011950  0.0413322  -0.029 0.976935
## f.22000.0.073   0.0091205  0.0413638   0.220 0.825486
## f.22000.0.074  -0.0293448  0.0415019  -0.707 0.479525
## f.22000.0.075   0.0144476  0.0411265   0.351 0.725367
## f.22000.0.076  -0.0411005  0.0415438  -0.989 0.322504
## f.22000.0.077  -0.0577748  0.0413114  -1.399 0.161960
## f.22000.0.078  -0.0310905  0.0410708  -0.757 0.449053
## f.22000.0.079  -0.0346545  0.0409838  -0.846 0.397796
```

```
## f.22000.0.08    0.0023685  0.0404880   0.058 0.953352
## f.22000.0.0-8   0.0529373  0.0410415   1.290 0.197106
## f.22000.0.080  -0.0071573  0.0414535  -0.173 0.862920
## f.22000.0.081  -0.0063357  0.0419022  -0.151 0.879816
## f.22000.0.082  -0.0395307  0.0414105  -0.955 0.339780
## f.22000.0.083  -0.0305918  0.0415154  -0.737 0.461198
## f.22000.0.084   0.0107692  0.0415242   0.259 0.795367
## f.22000.0.085   0.0500991  0.0413598   1.211 0.225784
## f.22000.0.086   0.0070263  0.0414823   0.169 0.865498
## f.22000.0.087  -0.0911655  0.0414718  -2.198 0.027933 *
## f.22000.0.088  -0.0210111  0.0421808  -0.498 0.618400
## f.22000.0.089   0.0007043  0.0419047   0.017 0.986590
## f.22000.0.09   -0.0250710  0.0402692  -0.623 0.533558
## f.22000.0.0-9   0.0639327  0.0410608   1.557 0.119467
## f.22000.0.090   0.0177259  0.0414438   0.428 0.668864
## f.22000.0.091   0.0095483  0.0428455   0.223 0.823649
## f.22000.0.092  -0.0049444  0.0415962  -0.119 0.905381
## f.22000.0.093   0.0075324  0.0415362   0.181 0.856096
## f.22000.0.094   0.0255551  0.0531043   0.481 0.630358
## f.22000.0.095  -0.0194806  0.0442746  -0.440 0.659942
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9965 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008147,   Adjusted R-squared:  0.007084
## F-statistic: 7.663 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(childtraumasum ~  `0.001000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.001000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1650 -0.6963 -0.2965  0.2405  7.9833
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.067e+00  7.460e-01 -12.154  < 2e-16 ***
## `0.001000`      1.236e-02  2.885e-03   4.287 1.82e-05 ***
## f.22009.0.1     3.010e-03  3.051e-03   0.986 0.323891
## f.22009.0.2    -5.770e-03  2.937e-03  -1.964 0.049475 *
## f.22009.0.3     3.469e-03  3.012e-03   1.152 0.249527
## f.22009.0.4     2.098e-03  4.215e-03   0.498 0.618701
## f.22009.0.5     3.567e-02  4.091e-03   8.718  < 2e-16 ***
## f.22009.0.6     8.355e-05  2.982e-03   0.028 0.977650
## f.22009.0.7    -9.446e-03  3.053e-03  -3.093 0.001979 **
## f.22009.0.8     8.555e-03  3.221e-03   2.656 0.007899 **
## f.22009.0.9     7.446e-03  3.074e-03   2.422 0.015440 *
## f.22009.0.10   -4.771e-03  3.567e-03  -1.338 0.181001
## f.22009.0.11    1.550e-02  4.148e-03   3.736 0.000187 ***
## f.22009.0.12   -5.416e-03  3.644e-03  -1.486 0.137224
## f.22009.0.13   -3.850e-03  2.932e-03  -1.313 0.189212
## f.22009.0.14   -4.048e-02  3.099e-03 -13.061  < 2e-16 ***
## f.22009.0.15    1.626e-03  3.177e-03   0.512 0.608636
## f.22009.0.16   -1.720e-02  3.111e-03  -5.529 3.22e-08 ***
## f.22009.0.17   -5.005e-03  2.889e-03  -1.732 0.083216 .
## f.22009.0.18    8.597e-03  2.897e-03   2.968 0.002999 **
## f.22009.0.19   -8.497e-04  2.884e-03  -0.295 0.768302
## f.22009.0.20    4.384e-03  2.890e-03   1.517 0.129311
## f.22001.0.0    -7.184e-02  5.826e-03 -12.332  < 2e-16 ***
```

```
## f.22001.0.01   -7.184e-02  5.820e-03 -12.342  < 2e-16 ***
## f.34.0.0        4.662e-03  3.818e-04  12.212  < 2e-16 ***
## f.22000.0.0-1   1.111e-01  4.075e-02   2.727 0.006400 **
## f.22000.0.010  -7.677e-02  4.119e-02  -1.864 0.062349 .
## f.22000.0.0-10  3.079e-02  4.142e-02   0.743 0.457260
## f.22000.0.011  -2.800e-02  4.051e-02  -0.691 0.489434
## f.22000.0.0-11  1.004e-01  4.106e-02   2.445 0.014479 *
## f.22000.0.012  -4.587e-02  4.080e-02  -1.124 0.260826
## f.22000.0.013  -2.179e-02  4.066e-02  -0.536 0.592113
## f.22000.0.014  -2.375e-02  4.039e-02  -0.588 0.556499
## f.22000.0.015   1.894e-02  4.065e-02   0.466 0.641251
## f.22000.0.016   1.529e-02  4.088e-02   0.374 0.708457
## f.22000.0.017   8.993e-03  4.047e-02   0.222 0.824145
## f.22000.0.018   1.569e-02  4.091e-02   0.384 0.701346
## f.22000.0.019  -3.212e-03  4.014e-02  -0.080 0.936219
## f.22000.0.02   -4.480e-03  4.028e-02  -0.111 0.911436
## f.22000.0.0-2   5.645e-02  4.099e-02   1.377 0.168447
## f.22000.0.020  -1.167e-02  4.078e-02  -0.286 0.774755
## f.22000.0.021  -1.234e-02  4.071e-02  -0.303 0.761778
## f.22000.0.022   3.405e-02  4.066e-02   0.837 0.402314
## f.22000.0.023   2.522e-02  4.064e-02   0.621 0.534856
## f.22000.0.024  -2.663e-02  4.011e-02  -0.664 0.506624
## f.22000.0.025  -4.318e-02  4.115e-02  -1.049 0.294080
## f.22000.0.026  -2.727e-02  4.090e-02  -0.667 0.504896
## f.22000.0.027  -4.961e-02  4.023e-02  -1.233 0.217475
## f.22000.0.028   2.197e-02  4.063e-02   0.541 0.588680
## f.22000.0.029   1.952e-02  4.038e-02   0.483 0.628863
## f.22000.0.03    4.945e-03  4.028e-02   0.123 0.902311
## f.22000.0.0-3   4.504e-02  4.059e-02   1.110 0.267139
## f.22000.0.030  -3.870e-02  4.038e-02  -0.958 0.337857
## f.22000.0.031   3.030e-02  4.051e-02   0.748 0.454478
## f.22000.0.032   1.516e-02  4.070e-02   0.372 0.709575
## f.22000.0.033   1.696e-02  4.142e-02   0.410 0.682122
## f.22000.0.034   6.162e-02  4.046e-02   1.523 0.127783
## f.22000.0.035  -2.545e-03  4.055e-02  -0.063 0.949952
## f.22000.0.036   1.261e-02  4.025e-02   0.313 0.754020
## f.22000.0.037  -2.577e-02  4.085e-02  -0.631 0.528203
## f.22000.0.038   2.698e-02  4.072e-02   0.663 0.507593
## f.22000.0.039  -1.278e-02  4.117e-02  -0.310 0.756205
## f.22000.0.04   -1.816e-02  4.103e-02  -0.443 0.657971
## f.22000.0.0-4   1.063e-01  4.123e-02   2.579 0.009909 **
## f.22000.0.040   2.168e-02  4.065e-02   0.533 0.593808
## f.22000.0.041  -3.465e-02  4.126e-02  -0.840 0.400990
## f.22000.0.042  -2.997e-02  4.058e-02  -0.738 0.460244
## f.22000.0.043  -1.421e-02  4.131e-02  -0.344 0.730949
## f.22000.0.044  -4.817e-02  4.085e-02  -1.179 0.238312
## f.22000.0.045  -5.524e-03  4.088e-02  -0.135 0.892519
## f.22000.0.046  -2.499e-02  4.110e-02  -0.608 0.543148
## f.22000.0.047  -4.225e-02  4.113e-02  -1.027 0.304360
## f.22000.0.048   1.877e-02  4.105e-02   0.457 0.647549
## f.22000.0.049  -2.405e-02  4.107e-02  -0.586 0.558159
## f.22000.0.05   -6.924e-02  4.037e-02  -1.715 0.086287 .
## f.22000.0.0-5   8.527e-02  4.079e-02   2.091 0.036568 *
## f.22000.0.050   4.135e-02  4.115e-02   1.005 0.315021
## f.22000.0.051   2.453e-02  4.051e-02   0.605 0.544942
## f.22000.0.052  -3.226e-02  4.124e-02  -0.782 0.434034
## f.22000.0.053  -4.491e-02  4.095e-02  -1.097 0.272769
## f.22000.0.054  -1.200e-02  4.106e-02  -0.292 0.770113
## f.22000.0.055   4.267e-03  4.140e-02   0.103 0.917914
## f.22000.0.056  -4.725e-02  4.104e-02  -1.151 0.249559
## f.22000.0.057  -7.768e-03  4.125e-02  -0.188 0.850634
## f.22000.0.058  -4.694e-02  4.105e-02  -1.144 0.252797
## f.22000.0.059   7.835e-03  4.089e-02   0.192 0.848041
## f.22000.0.06   -1.398e-02  4.022e-02  -0.348 0.728211
## f.22000.0.0-6   5.490e-02  4.111e-02   1.335 0.181766
## f.22000.0.060  -4.422e-02  4.130e-02  -1.071 0.284260
## f.22000.0.061   4.487e-02  4.153e-02   1.080 0.279984
## f.22000.0.062  -8.678e-03  4.140e-02  -0.210 0.833963
## f.22000.0.063   5.229e-03  4.140e-02   0.126 0.899489
## f.22000.0.064  -2.500e-03  4.104e-02  -0.061 0.951415
## f.22000.0.065   1.807e-03  4.128e-02   0.044 0.965087
## f.22000.0.066  -1.758e-03  4.170e-02  -0.042 0.966371
## f.22000.0.067  -1.520e-02  4.126e-02  -0.368 0.712641
```

```
## f.22000.0.068   2.113e-02  4.124e-02   0.512 0.608446
## f.22000.0.069  -5.096e-03  4.130e-02  -0.123 0.901787
## f.22000.0.07    1.065e-02  4.053e-02   0.263 0.792655
## f.22000.0.0-7   1.066e-02  4.090e-02   0.261 0.794447
## f.22000.0.070   3.001e-02  4.129e-02   0.727 0.467394
## f.22000.0.071  -2.394e-02  4.109e-02  -0.583 0.560081
## f.22000.0.072  -1.478e-03  4.134e-02  -0.036 0.971484
## f.22000.0.073   7.800e-03  4.137e-02   0.189 0.850450
## f.22000.0.074  -2.978e-02  4.151e-02  -0.717 0.473143
## f.22000.0.075   1.353e-02  4.113e-02   0.329 0.742276
## f.22000.0.076  -4.144e-02  4.155e-02  -0.997 0.318550
## f.22000.0.077  -5.898e-02  4.132e-02  -1.427 0.153471
## f.22000.0.078  -3.206e-02  4.108e-02  -0.781 0.435051
## f.22000.0.079  -3.465e-02  4.099e-02  -0.845 0.397881
## f.22000.0.08    2.169e-03  4.049e-02   0.054 0.957291
## f.22000.0.0-8   5.194e-02  4.105e-02   1.265 0.205769
## f.22000.0.080  -8.268e-03  4.146e-02  -0.199 0.841935
## f.22000.0.081  -6.940e-03  4.191e-02  -0.166 0.868475
## f.22000.0.082  -4.038e-02  4.142e-02  -0.975 0.329568
## f.22000.0.083  -3.130e-02  4.152e-02  -0.754 0.451000
## f.22000.0.084   1.096e-02  4.153e-02   0.264 0.791934
## f.22000.0.085   5.038e-02  4.137e-02   1.218 0.223284
## f.22000.0.086   5.829e-03  4.149e-02   0.140 0.888276
## f.22000.0.087  -9.162e-02  4.148e-02  -2.209 0.027186 *
## f.22000.0.088  -2.208e-02  4.219e-02  -0.523 0.600692
## f.22000.0.089   3.337e-04  4.191e-02   0.008 0.993648
## f.22000.0.09   -2.551e-02  4.028e-02  -0.633 0.526478
## f.22000.0.0-9   6.203e-02  4.107e-02   1.510 0.130919
## f.22000.0.090   1.650e-02  4.145e-02   0.398 0.690503
## f.22000.0.091   8.908e-03  4.285e-02   0.208 0.835320
## f.22000.0.092  -5.156e-03  4.160e-02  -0.124 0.901370
## f.22000.0.093   7.481e-03  4.154e-02   0.180 0.857100
## f.22000.0.094   2.472e-02  5.311e-02   0.465 0.641695
## f.22000.0.095  -2.083e-02  4.428e-02  -0.470 0.638004
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9966 on 119406 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.007805,   Adjusted R-squared:  0.006742
## F-statistic: 7.339 on 128 and 119406 DF,  p-value: < 2.2e-16
```

Next, let's run the regression models for the selfharmideation

```
## Selfharmideation

#model with only covariates
summary(lm(selfharmideation ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009
.0.6 +
             f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0+ f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.0865 -0.5913 -0.4131  0.2717  5.1257
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.409e-01 -55.102  < 2e-16 ***
## f.22009.0.1     8.501e-03  3.030e-03   2.806  0.00502 **
## f.22009.0.2    -1.215e-03  2.916e-03  -0.416  0.67706
## f.22009.0.3    -1.576e-03  2.991e-03  -0.527  0.59831
```

```
## f.22009.0.4    -8.706e-03  4.185e-03  -2.080  0.03752 *
## f.22009.0.5     3.890e-03  4.063e-03   0.957  0.33832
## f.22009.0.6     4.468e-04  2.960e-03   0.151  0.88000
## f.22009.0.7    -9.258e-03  3.032e-03  -3.053  0.00227 **
## f.22009.0.8     7.740e-03  3.198e-03   2.420  0.01551 *
## f.22009.0.9    -7.761e-03  3.052e-03  -2.543  0.01099 *
## f.22009.0.10    1.288e-03  3.542e-03   0.364  0.71600
## f.22009.0.11    1.577e-03  4.120e-03   0.383  0.70194
## f.22009.0.12    5.014e-03  3.619e-03   1.386  0.16588
## f.22009.0.13   -4.447e-03  2.912e-03  -1.527  0.12668
## f.22009.0.14   -1.653e-02  3.077e-03  -5.374 7.73e-08 ***
## f.22009.0.15   -1.557e-03  3.154e-03  -0.494  0.62157
## f.22009.0.16   -7.582e-03  3.089e-03  -2.454  0.01411 *
## f.22009.0.17   -1.979e-03  2.869e-03  -0.690  0.49034
## f.22009.0.18    5.612e-04  2.877e-03   0.195  0.84531
## f.22009.0.19    2.369e-03  2.864e-03   0.827  0.40822
## f.22009.0.20    8.941e-04  2.870e-03   0.312  0.75537
## f.22001.0.01   -1.226e-01  5.784e-03 -21.198  < 2e-16 ***
## f.34.0.0        2.093e-02  3.791e-04  55.216  < 2e-16 ***
## f.22000.0.0-1   2.868e-02  4.046e-02   0.709  0.47840
## f.22000.0.010  -3.056e-02  4.088e-02  -0.748  0.45472
## f.22000.0.0-10  8.304e-02  4.111e-02   2.020  0.04341 *
## f.22000.0.011   5.280e-02  4.021e-02   1.313  0.18916
## f.22000.0.0-11  4.811e-02  4.075e-02   1.181  0.23778
## f.22000.0.012   2.267e-02  4.048e-02   0.560  0.57541
## f.22000.0.013  -5.155e-03  4.032e-02  -0.128  0.89827
## f.22000.0.014   4.147e-02  4.006e-02   1.035  0.30060
## f.22000.0.015   4.064e-02  4.042e-02   1.005  0.31467
## f.22000.0.016   5.655e-02  4.057e-02   1.394  0.16335
## f.22000.0.017   4.420e-02  4.019e-02   1.100  0.27144
## f.22000.0.018  -2.414e-02  4.056e-02  -0.595  0.55174
## f.22000.0.019   8.341e-03  3.982e-02   0.209  0.83408
## f.22000.0.02    2.313e-03  3.996e-02   0.058  0.95385
## f.22000.0.0-2   7.910e-02  4.069e-02   1.944  0.05190 .
## f.22000.0.020   2.359e-03  4.049e-02   0.058  0.95355
## f.22000.0.021   2.515e-02  4.035e-02   0.623  0.53315
## f.22000.0.022   2.338e-02  4.036e-02   0.579  0.56234
## f.22000.0.023   1.763e-02  4.036e-02   0.437  0.66221
## f.22000.0.024   1.020e-02  3.983e-02   0.256  0.79794
## f.22000.0.025   5.204e-02  4.085e-02   1.274  0.20273
## f.22000.0.026  -4.006e-02  4.063e-02  -0.986  0.32422
## f.22000.0.027  -1.059e-03  4.000e-02  -0.026  0.97887
## f.22000.0.028   4.610e-03  4.041e-02   0.114  0.90917
## f.22000.0.029   2.121e-02  4.008e-02   0.529  0.59667
## f.22000.0.03    1.187e-02  4.003e-02   0.296  0.76687
## f.22000.0.0-3  -6.379e-03  4.024e-02  -0.159  0.87404
## f.22000.0.030  -3.083e-02  4.007e-02  -0.769  0.44163
## f.22000.0.031  -4.767e-03  4.026e-02  -0.118  0.90576
## f.22000.0.032  -1.877e-02  4.037e-02  -0.465  0.64194
## f.22000.0.033   1.994e-02  4.111e-02   0.485  0.62770
## f.22000.0.034   2.601e-02  4.016e-02   0.648  0.51722
## f.22000.0.035   6.644e-02  4.027e-02   1.650  0.09896 .
## f.22000.0.036   1.401e-02  4.000e-02   0.350  0.72624
## f.22000.0.037  -5.538e-03  4.060e-02  -0.136  0.89149
## f.22000.0.038   5.858e-02  4.040e-02   1.450  0.14711
## f.22000.0.039   2.686e-02  4.088e-02   0.657  0.51107
## f.22000.0.04   -3.504e-03  4.073e-02  -0.086  0.93145
## f.22000.0.0-4   7.628e-02  4.098e-02   1.861  0.06270 .
## f.22000.0.040   4.176e-02  4.041e-02   1.033  0.30152
## f.22000.0.041   1.065e-02  4.095e-02   0.260  0.79473
## f.22000.0.042  -1.331e-02  4.020e-02  -0.331  0.74058
## f.22000.0.043  -3.464e-02  4.101e-02  -0.845  0.39828
## f.22000.0.044   6.617e-02  4.064e-02   1.628  0.10352
## f.22000.0.045   9.053e-03  4.056e-02   0.223  0.82338
## f.22000.0.046  -2.077e-02  4.076e-02  -0.510  0.61032
## f.22000.0.047  -1.008e-02  4.080e-02  -0.247  0.80485
## f.22000.0.048   6.830e-03  4.080e-02   0.167  0.86703
## f.22000.0.049   6.015e-02  4.075e-02   1.476  0.13992
## f.22000.0.05    8.026e-03  4.008e-02   0.200  0.84129
## f.22000.0.0-5   6.378e-02  4.049e-02   1.575  0.11527
## f.22000.0.050  -2.400e-04  4.075e-02  -0.006  0.99530
## f.22000.0.051   7.250e-02  4.023e-02   1.802  0.07152 .
## f.22000.0.052   2.472e-02  4.102e-02   0.603  0.54672
```

```
## f.22000.0.052   2.472e-02  4.102e-02   0.603  0.54672
## f.22000.0.053  -1.229e-02  4.061e-02  -0.303  0.76220
## f.22000.0.054   7.015e-02  4.073e-02   1.722  0.08501 .
## f.22000.0.055   6.017e-02  4.115e-02   1.462  0.14371
## f.22000.0.056   4.029e-02  4.078e-02   0.988  0.32320
## f.22000.0.057   5.162e-02  4.090e-02   1.262  0.20694
## f.22000.0.058   2.747e-02  4.077e-02   0.674  0.50051
## f.22000.0.059   2.803e-02  4.059e-02   0.690  0.48991
## f.22000.0.06    7.804e-03  3.993e-02   0.195  0.84505
## f.22000.0.0-6   4.078e-02  4.087e-02   0.998  0.31835
## f.22000.0.060   5.946e-03  4.099e-02   0.145  0.88466
## f.22000.0.061   3.293e-02  4.119e-02   0.799  0.42406
## f.22000.0.062   4.004e-02  4.108e-02   0.975  0.32965
## f.22000.0.063   1.382e-02  4.106e-02   0.337  0.73641
## f.22000.0.064  -5.610e-03  4.076e-02  -0.138  0.89054
## f.22000.0.065  -1.752e-03  4.098e-02  -0.043  0.96589
## f.22000.0.066  -2.421e-04  4.135e-02  -0.006  0.99533
## f.22000.0.067  -1.780e-02  4.096e-02  -0.435  0.66383
## f.22000.0.068   1.214e-02  4.084e-02   0.297  0.76628
## f.22000.0.069   2.148e-02  4.101e-02   0.524  0.60042
## f.22000.0.07   -2.772e-02  4.024e-02  -0.689  0.49087
## f.22000.0.0-7   5.369e-02  4.056e-02   1.324  0.18557
## f.22000.0.070  -1.573e-02  4.109e-02  -0.383  0.70178
## f.22000.0.071  -1.966e-02  4.083e-02  -0.481  0.63020
## f.22000.0.072   2.239e-03  4.110e-02   0.054  0.95655
## f.22000.0.073   7.349e-03  4.115e-02   0.179  0.85827
## f.22000.0.074   3.996e-02  4.122e-02   0.969  0.33231
## f.22000.0.075   7.283e-02  4.079e-02   1.785  0.07420 .
## f.22000.0.076   5.264e-02  4.123e-02   1.277  0.20167
## f.22000.0.077   2.074e-02  4.103e-02   0.506  0.61312
## f.22000.0.078  -3.881e-02  4.086e-02  -0.950  0.34226
## f.22000.0.079  -8.269e-03  4.068e-02  -0.203  0.83893
## f.22000.0.08    1.094e-03  4.016e-02   0.027  0.97826
## f.22000.0.0-8   2.455e-02  4.084e-02   0.601  0.54782
## f.22000.0.080   6.608e-02  4.116e-02   1.605  0.10842
## f.22000.0.081   1.847e-03  4.169e-02   0.044  0.96467
## f.22000.0.082  -2.064e-02  4.116e-02  -0.502  0.61596
## f.22000.0.083   1.664e-02  4.119e-02   0.404  0.68618
## f.22000.0.084   2.717e-02  4.120e-02   0.659  0.50959
## f.22000.0.085   3.327e-02  4.107e-02   0.810  0.41789
## f.22000.0.086  -1.263e-02  4.115e-02  -0.307  0.75887
## f.22000.0.087   3.247e-02  4.110e-02   0.790  0.42952
## f.22000.0.088   1.078e-02  4.194e-02   0.257  0.79707
## f.22000.0.089   1.076e-02  4.157e-02   0.259  0.79581
## f.22000.0.09   -2.264e-02  3.991e-02  -0.567  0.57050
## f.22000.0.0-9   5.576e-02  4.087e-02   1.364  0.17248
## f.22000.0.090   9.364e-03  4.122e-02   0.227  0.82031
## f.22000.0.091  -4.557e-02  4.251e-02  -1.072  0.28373
## f.22000.0.092   3.828e-02  4.122e-02   0.929  0.35302
## f.22000.0.093   3.446e-02  4.117e-02   0.837  0.40265
## f.22000.0.094  -7.971e-04  5.264e-02  -0.015  0.98792
## f.22000.0.095  -8.406e-03  4.394e-02  -0.191  0.84829
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9842 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.0323, Adjusted R-squared:  0.03126
## F-statistic: 31.04 on 127 and 118099 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
```

```
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1042 -0.5917 -0.4115  0.2717  5.1716
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.111  < 2e-16 ***
## `1.000000`      3.279e-02  2.865e-03  11.444  < 2e-16 ***
## f.22009.0.1     8.229e-03  3.028e-03   2.717  0.00658 **
## f.22009.0.2    -1.153e-03  2.914e-03  -0.395  0.69250
## f.22009.0.3    -1.473e-03  2.990e-03  -0.493  0.62216
## f.22009.0.4    -8.763e-03  4.183e-03  -2.095  0.03618 *
## f.22009.0.5     3.022e-03  4.061e-03   0.744  0.45677
## f.22009.0.6     3.200e-04  2.958e-03   0.108  0.91386
## f.22009.0.7    -8.909e-03  3.031e-03  -2.940  0.00329 **
## f.22009.0.8     7.781e-03  3.197e-03   2.434  0.01492 *
## f.22009.0.9    -7.762e-03  3.050e-03  -2.545  0.01094 *
## f.22009.0.10    1.423e-03  3.540e-03   0.402  0.68774
## f.22009.0.11    1.058e-03  4.118e-03   0.257  0.79731
## f.22009.0.12    4.921e-03  3.617e-03   1.361  0.17364
## f.22009.0.13   -4.484e-03  2.910e-03  -1.541  0.12339
## f.22009.0.14   -1.607e-02  3.075e-03  -5.225 1.74e-07 ***
## f.22009.0.15   -1.554e-03  3.152e-03  -0.493  0.62207
## f.22009.0.16   -7.585e-03  3.088e-03  -2.456  0.01403 *
## f.22009.0.17   -1.889e-03  2.868e-03  -0.659  0.51012
## f.22009.0.18    6.299e-04  2.875e-03   0.219  0.82659
## f.22009.0.19    2.188e-03  2.863e-03   0.765  0.44454
## f.22009.0.20    5.891e-04  2.868e-03   0.205  0.83728
## f.22001.0.01   -1.219e-01  5.781e-03 -21.094  < 2e-16 ***
## f.34.0.0        2.093e-02  3.789e-04  55.224  < 2e-16 ***
## f.22000.0.0-1   2.883e-02  4.044e-02   0.713  0.47584
## f.22000.0.010  -3.051e-02  4.086e-02  -0.747  0.45527
## f.22000.0.0-10  8.453e-02  4.109e-02   2.057  0.03967 *
## f.22000.0.011   5.260e-02  4.019e-02   1.309  0.19060
## f.22000.0.0-11  4.795e-02  4.073e-02   1.177  0.23900
## f.22000.0.012   2.305e-02  4.045e-02   0.570  0.56880
## f.22000.0.013  -3.686e-03  4.030e-02  -0.091  0.92713
## f.22000.0.014   4.230e-02  4.003e-02   1.057  0.29072
## f.22000.0.015   4.056e-02  4.040e-02   1.004  0.31542
## f.22000.0.016   5.721e-02  4.055e-02   1.411  0.15822
## f.22000.0.017   4.334e-02  4.017e-02   1.079  0.28062
## f.22000.0.018  -2.444e-02  4.054e-02  -0.603  0.54658
## f.22000.0.019   1.009e-02  3.980e-02   0.254  0.79986
## f.22000.0.02    1.612e-03  3.994e-02   0.040  0.96780
## f.22000.0.0-2   7.892e-02  4.067e-02   1.941  0.05231 .
## f.22000.0.020   3.149e-03  4.047e-02   0.078  0.93798
## f.22000.0.021   2.515e-02  4.033e-02   0.624  0.53280
## f.22000.0.022   2.354e-02  4.034e-02   0.584  0.55948
## f.22000.0.023   1.797e-02  4.034e-02   0.446  0.65589
## f.22000.0.024   1.105e-02  3.980e-02   0.278  0.78125
## f.22000.0.025   5.206e-02  4.083e-02   1.275  0.20229
## f.22000.0.026  -3.821e-02  4.061e-02  -0.941  0.34683
## f.22000.0.027  -7.553e-04  3.998e-02  -0.019  0.98493
## f.22000.0.028   5.533e-03  4.038e-02   0.137  0.89102
## f.22000.0.029   2.097e-02  4.006e-02   0.523  0.60064
## f.22000.0.03    1.263e-02  4.001e-02   0.316  0.75219
## f.22000.0.0-3  -6.795e-03  4.021e-02  -0.169  0.86582
## f.22000.0.030  -3.138e-02  4.005e-02  -0.784  0.43332
## f.22000.0.031  -5.879e-03  4.024e-02  -0.146  0.88385
## f.22000.0.032  -1.898e-02  4.035e-02  -0.470  0.63807
## f.22000.0.033   1.938e-02  4.109e-02   0.472  0.63709
## f.22000.0.034   2.619e-02  4.014e-02   0.652  0.51409
## f.22000.0.035   6.715e-02  4.025e-02   1.668  0.09526 .
## f.22000.0.036   1.397e-02  3.998e-02   0.349  0.72681
## f.22000.0.037  -4.534e-03  4.057e-02  -0.112  0.91102
## f.22000.0.038   5.941e-02  4.038e-02   1.471  0.14123
## f.22000.0.039   2.585e-02  4.086e-02   0.633  0.52697
## f.22000.0.04   -3.555e-03  4.071e-02  -0.087  0.93042
## f.22000.0.0-4   7.590e-02  4.096e-02   1.853  0.06387 .
## f.22000.0.040   4.272e-02  4.039e-02   1.058  0.29018
```

```
## f.22000.0.040   4.272e-02  4.039e-02   1.058  0.29018
## f.22000.0.041   1.176e-02  4.093e-02   0.287  0.77392
## f.22000.0.042  -1.363e-02  4.018e-02  -0.339  0.73436
## f.22000.0.043  -3.443e-02  4.099e-02  -0.840  0.40095
## f.22000.0.044   6.731e-02  4.062e-02   1.657  0.09750 .
## f.22000.0.045   7.548e-03  4.054e-02   0.186  0.85230
## f.22000.0.046  -2.301e-02  4.074e-02  -0.565  0.57221
## f.22000.0.047  -8.221e-03  4.078e-02  -0.202  0.84024
## f.22000.0.048   8.659e-03  4.077e-02   0.212  0.83182
## f.22000.0.049   6.156e-02  4.073e-02   1.511  0.13067
## f.22000.0.05    9.319e-03  4.006e-02   0.233  0.81604
## f.22000.0.0-5   6.600e-02  4.047e-02   1.631  0.10296
## f.22000.0.050   1.273e-03  4.072e-02   0.031  0.97506
## f.22000.0.051   7.356e-02  4.021e-02   1.830  0.06733 .
## f.22000.0.052   2.622e-02  4.100e-02   0.640  0.52241
## f.22000.0.053  -1.213e-02  4.059e-02  -0.299  0.76513
## f.22000.0.054   6.997e-02  4.071e-02   1.719  0.08561 .
## f.22000.0.055   5.941e-02  4.113e-02   1.445  0.14859
## f.22000.0.056   4.179e-02  4.076e-02   1.025  0.30530
## f.22000.0.057   5.167e-02  4.088e-02   1.264  0.20629
## f.22000.0.058   2.812e-02  4.075e-02   0.690  0.49025
## f.22000.0.059   2.791e-02  4.057e-02   0.688  0.49147
## f.22000.0.06    7.668e-03  3.991e-02   0.192  0.84764
## f.22000.0.0-6   3.986e-02  4.085e-02   0.976  0.32914
## f.22000.0.060   7.063e-03  4.097e-02   0.172  0.86311
## f.22000.0.061   3.291e-02  4.117e-02   0.800  0.42400
## f.22000.0.062   3.890e-02  4.106e-02   0.947  0.34339
## f.22000.0.063   1.415e-02  4.103e-02   0.345  0.73020
## f.22000.0.064  -4.934e-03  4.074e-02  -0.121  0.90361
## f.22000.0.065  -1.098e-03  4.096e-02  -0.027  0.97862
## f.22000.0.066   1.139e-03  4.132e-02   0.028  0.97802
## f.22000.0.067  -1.702e-02  4.094e-02  -0.416  0.67765
## f.22000.0.068   1.243e-02  4.082e-02   0.304  0.76077
## f.22000.0.069   2.249e-02  4.099e-02   0.549  0.58325
## f.22000.0.07   -2.710e-02  4.022e-02  -0.674  0.50040
## f.22000.0.0-7   5.536e-02  4.054e-02   1.366  0.17208
## f.22000.0.070  -1.630e-02  4.107e-02  -0.397  0.69143
## f.22000.0.071  -2.099e-02  4.081e-02  -0.514  0.60698
## f.22000.0.072   6.698e-04  4.108e-02   0.016  0.98699
## f.22000.0.073   8.663e-03  4.113e-02   0.211  0.83317
## f.22000.0.074   4.015e-02  4.120e-02   0.975  0.32972
## f.22000.0.075   7.208e-02  4.077e-02   1.768  0.07706 .
## f.22000.0.076   5.142e-02  4.121e-02   1.248  0.21206
## f.22000.0.077   2.218e-02  4.101e-02   0.541  0.58864
## f.22000.0.078  -3.689e-02  4.084e-02  -0.903  0.36642
## f.22000.0.079  -9.938e-03  4.066e-02  -0.244  0.80691
## f.22000.0.08   -4.791e-04  4.014e-02  -0.012  0.99048
## f.22000.0.0-8   2.539e-02  4.082e-02   0.622  0.53388
## f.22000.0.080   6.672e-02  4.114e-02   1.622  0.10485
## f.22000.0.081   2.067e-03  4.167e-02   0.050  0.96044
## f.22000.0.082  -2.195e-02  4.114e-02  -0.534  0.59365
## f.22000.0.083   1.740e-02  4.117e-02   0.423  0.67254
## f.22000.0.084   2.569e-02  4.118e-02   0.624  0.53271
## f.22000.0.085   3.148e-02  4.104e-02   0.767  0.44314
## f.22000.0.086  -1.224e-02  4.113e-02  -0.298  0.76597
## f.22000.0.087   3.204e-02  4.108e-02   0.780  0.43539
## f.22000.0.088   1.095e-02  4.191e-02   0.261  0.79388
## f.22000.0.089   9.573e-03  4.155e-02   0.230  0.81777
## f.22000.0.09   -2.187e-02  3.988e-02  -0.548  0.58340
## f.22000.0.0-9   5.679e-02  4.085e-02   1.390  0.16448
## f.22000.0.090   9.794e-03  4.120e-02   0.238  0.81210
## f.22000.0.091  -4.436e-02  4.249e-02  -1.044  0.29646
## f.22000.0.092   3.691e-02  4.120e-02   0.896  0.37025
## f.22000.0.093   3.393e-02  4.115e-02   0.824  0.40967
## f.22000.0.094   1.435e-03  5.261e-02   0.027  0.97824
## f.22000.0.095  -8.446e-03  4.392e-02  -0.192  0.84750
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9837 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03337,    Adjusted R-squared:  0.03232
## F-statistic: 31.85 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.750000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1043 -0.5918 -0.4113  0.2714  5.1719
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.112  < 2e-16 ***
## `0.750000`      3.308e-02  2.865e-03  11.547  < 2e-16 ***
## f.22009.0.1     8.225e-03  3.028e-03   2.716  0.00661 **
## f.22009.0.2    -1.143e-03  2.914e-03  -0.392  0.69504
## f.22009.0.3    -1.464e-03  2.990e-03  -0.490  0.62443
## f.22009.0.4    -8.763e-03  4.183e-03  -2.095  0.03618 *
## f.22009.0.5     3.008e-03  4.061e-03   0.741  0.45893
## f.22009.0.6     3.205e-04  2.958e-03   0.108  0.91373
## f.22009.0.7    -8.908e-03  3.031e-03  -2.939  0.00329 **
## f.22009.0.8     7.787e-03  3.196e-03   2.436  0.01484 *
## f.22009.0.9    -7.764e-03  3.050e-03  -2.545  0.01092 *
## f.22009.0.10    1.432e-03  3.540e-03   0.405  0.68578
## f.22009.0.11    1.057e-03  4.118e-03   0.257  0.79747
## f.22009.0.12    4.916e-03  3.617e-03   1.359  0.17413
## f.22009.0.13   -4.485e-03  2.910e-03  -1.541  0.12330
## f.22009.0.14   -1.608e-02  3.075e-03  -5.228 1.71e-07 ***
## f.22009.0.15   -1.555e-03  3.152e-03  -0.493  0.62177
## f.22009.0.16   -7.587e-03  3.088e-03  -2.457  0.01400 *
## f.22009.0.17   -1.877e-03  2.868e-03  -0.654  0.51286
## f.22009.0.18    6.297e-04  2.875e-03   0.219  0.82662
## f.22009.0.19    2.194e-03  2.863e-03   0.767  0.44337
## f.22009.0.20    5.771e-04  2.868e-03   0.201  0.84053
## f.22001.0.01   -1.219e-01  5.781e-03 -21.093  < 2e-16 ***
## f.34.0.0        2.093e-02  3.789e-04  55.225  < 2e-16 ***
## f.22000.0.0-1   2.885e-02  4.044e-02   0.713  0.47555
## f.22000.0.010  -3.049e-02  4.086e-02  -0.746  0.45552
## f.22000.0.0-10  8.454e-02  4.109e-02   2.057  0.03965 *
## f.22000.0.011   5.263e-02  4.019e-02   1.310  0.19033
## f.22000.0.0-11  4.796e-02  4.072e-02   1.178  0.23891
## f.22000.0.012   2.302e-02  4.045e-02   0.569  0.56929
## f.22000.0.013  -3.721e-03  4.030e-02  -0.092  0.92644
## f.22000.0.014   4.231e-02  4.003e-02   1.057  0.29063
## f.22000.0.015   4.054e-02  4.040e-02   1.004  0.31561
## f.22000.0.016   5.720e-02  4.054e-02   1.411  0.15833
## f.22000.0.017   4.332e-02  4.017e-02   1.078  0.28085
## f.22000.0.018  -2.440e-02  4.054e-02  -0.602  0.54720
## f.22000.0.019   1.010e-02  3.980e-02   0.254  0.79962
## f.22000.0.02    1.624e-03  3.994e-02   0.041  0.96757
## f.22000.0.0-2   7.887e-02  4.067e-02   1.939  0.05246 .
## f.22000.0.020   3.077e-03  4.047e-02   0.076  0.93939
## f.22000.0.021   2.513e-02  4.033e-02   0.623  0.53313
## f.22000.0.022   2.351e-02  4.034e-02   0.583  0.55998
## f.22000.0.023   1.796e-02  4.034e-02   0.445  0.65616
## f.22000.0.024   1.104e-02  3.980e-02   0.277  0.78158
## f.22000.0.025   5.205e-02  4.083e-02   1.275  0.20239
## f.22000.0.026  -3.819e-02  4.061e-02  -0.940  0.34701
## f.22000.0.027  -7.981e-04  3.998e-02  -0.020  0.98407
## f.22000.0.028   5.535e-03  4.038e-02   0.137  0.89099
## f.22000.0.029   2.096e-02  4.006e-02   0.523  0.60078
## f.22000.0.03    1.262e-02  4.001e-02   0.315  0.75241
```

```
## f.22000.0.05    1.262e-02  4.001e-02   0.315  0.75241
## f.22000.0.0-3  -6.852e-03  4.021e-02  -0.170  0.86470
## f.22000.0.030  -3.136e-02  4.005e-02  -0.783  0.43369
## f.22000.0.031  -5.814e-03  4.024e-02  -0.144  0.88513
## f.22000.0.032  -1.900e-02  4.035e-02  -0.471  0.63763
## f.22000.0.033   1.943e-02  4.109e-02   0.473  0.63630
## f.22000.0.034   2.617e-02  4.014e-02   0.652  0.51440
## f.22000.0.035   6.721e-02  4.025e-02   1.670  0.09493 .
## f.22000.0.036   1.389e-02  3.998e-02   0.347  0.72834
## f.22000.0.037  -4.512e-03  4.057e-02  -0.111  0.91145
## f.22000.0.038   5.948e-02  4.038e-02   1.473  0.14075
## f.22000.0.039   2.587e-02  4.086e-02   0.633  0.52659
## f.22000.0.04   -3.531e-03  4.071e-02  -0.087  0.93088
## f.22000.0.0-4   7.590e-02  4.096e-02   1.853  0.06387 .
## f.22000.0.040   4.267e-02  4.039e-02   1.056  0.29077
## f.22000.0.041   1.174e-02  4.093e-02   0.287  0.77428
## f.22000.0.042  -1.361e-02  4.018e-02  -0.339  0.73478
## f.22000.0.043  -3.440e-02  4.099e-02  -0.839  0.40125
## f.22000.0.044   6.731e-02  4.062e-02   1.657  0.09751 .
## f.22000.0.045   7.506e-03  4.054e-02   0.185  0.85310
## f.22000.0.046  -2.305e-02  4.074e-02  -0.566  0.57164
## f.22000.0.047  -8.261e-03  4.078e-02  -0.203  0.83947
## f.22000.0.048   8.681e-03  4.077e-02   0.213  0.83139
## f.22000.0.049   6.152e-02  4.072e-02   1.511  0.13088
## f.22000.0.05    9.362e-03  4.006e-02   0.234  0.81520
## f.22000.0.0-5   6.603e-02  4.047e-02   1.632  0.10278
## f.22000.0.050   1.265e-03  4.072e-02   0.031  0.97522
## f.22000.0.051   7.351e-02  4.021e-02   1.828  0.06749 .
## f.22000.0.052   2.628e-02  4.100e-02   0.641  0.52157
## f.22000.0.053  -1.213e-02  4.059e-02  -0.299  0.76500
## f.22000.0.054   6.995e-02  4.070e-02   1.718  0.08571 .
## f.22000.0.055   5.937e-02  4.113e-02   1.444  0.14886
## f.22000.0.056   4.177e-02  4.076e-02   1.025  0.30555
## f.22000.0.057   5.161e-02  4.088e-02   1.262  0.20678
## f.22000.0.058   2.806e-02  4.075e-02   0.689  0.49111
## f.22000.0.059   2.793e-02  4.057e-02   0.688  0.49114
## f.22000.0.06    7.693e-03  3.991e-02   0.193  0.84714
## f.22000.0.0-6   3.988e-02  4.085e-02   0.976  0.32895
## f.22000.0.060   7.076e-03  4.097e-02   0.173  0.86287
## f.22000.0.061   3.286e-02  4.117e-02   0.798  0.42478
## f.22000.0.062   3.882e-02  4.106e-02   0.945  0.34443
## f.22000.0.063   1.416e-02  4.103e-02   0.345  0.73007
## f.22000.0.064  -4.890e-03  4.074e-02  -0.120  0.90447
## f.22000.0.065  -1.140e-03  4.096e-02  -0.028  0.97780
## f.22000.0.066   1.195e-03  4.132e-02   0.029  0.97693
## f.22000.0.067  -1.700e-02  4.093e-02  -0.415  0.67791
## f.22000.0.068   1.244e-02  4.082e-02   0.305  0.76050
## f.22000.0.069   2.250e-02  4.098e-02   0.549  0.58304
## f.22000.0.07   -2.707e-02  4.022e-02  -0.673  0.50086
## f.22000.0.0-7   5.537e-02  4.054e-02   1.366  0.17196
## f.22000.0.070  -1.631e-02  4.107e-02  -0.397  0.69120
## f.22000.0.071  -2.098e-02  4.081e-02  -0.514  0.60711
## f.22000.0.072   6.702e-04  4.108e-02   0.016  0.98698
## f.22000.0.073   8.721e-03  4.113e-02   0.212  0.83208
## f.22000.0.074   4.019e-02  4.120e-02   0.976  0.32928
## f.22000.0.075   7.210e-02  4.077e-02   1.768  0.07699 .
## f.22000.0.076   5.142e-02  4.121e-02   1.248  0.21210
## f.22000.0.077   2.216e-02  4.100e-02   0.540  0.58897
## f.22000.0.078  -3.688e-02  4.084e-02  -0.903  0.36646
## f.22000.0.079  -9.933e-03  4.066e-02  -0.244  0.80699
## f.22000.0.08   -5.371e-04  4.014e-02  -0.013  0.98932
## f.22000.0.0-8   2.541e-02  4.082e-02   0.623  0.53359
## f.22000.0.080   6.668e-02  4.114e-02   1.621  0.10504
## f.22000.0.081   2.131e-03  4.167e-02   0.051  0.95921
## f.22000.0.082  -2.195e-02  4.113e-02  -0.534  0.59368
## f.22000.0.083   1.740e-02  4.117e-02   0.423  0.67250
## f.22000.0.084   2.575e-02  4.118e-02   0.625  0.53183
## f.22000.0.085   3.147e-02  4.104e-02   0.767  0.44328
## f.22000.0.086  -1.221e-02  4.113e-02  -0.297  0.76651
## f.22000.0.087   3.204e-02  4.108e-02   0.780  0.43533
## f.22000.0.088   1.096e-02  4.191e-02   0.262  0.79366
## f.22000.0.089   9.539e-03  4.155e-02   0.230  0.81841
## f.22000.0.09   -2.194e-02  3.988e-02  -0.550  0.58221
```

```
## f.22000.0.0-9   5.680e-02  4.085e-02   1.391  0.16434
## f.22000.0.090   9.840e-03  4.120e-02   0.239  0.81123
## f.22000.0.091  -4.430e-02  4.249e-02  -1.043  0.29709
## f.22000.0.092   3.689e-02  4.120e-02   0.895  0.37054
## f.22000.0.093   3.392e-02  4.115e-02   0.824  0.40971
## f.22000.0.094   1.446e-03  5.261e-02   0.027  0.97807
## f.22000.0.095  -8.448e-03  4.392e-02  -0.192  0.84746
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9837 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03339,    Adjusted R-squared:  0.03234
## F-statistic: 31.87 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.500000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.500000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1071 -0.5919 -0.4113  0.2723  5.1733
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.116  < 2e-16 ***
## `0.500000`      3.283e-02  2.865e-03  11.457  < 2e-16 ***
## f.22009.0.1     8.221e-03  3.028e-03   2.715  0.00664 **
## f.22009.0.2    -1.138e-03  2.914e-03  -0.391  0.69610
## f.22009.0.3    -1.474e-03  2.990e-03  -0.493  0.62203
## f.22009.0.4    -8.774e-03  4.183e-03  -2.097  0.03596 *
## f.22009.0.5     3.070e-03  4.061e-03   0.756  0.44974
## f.22009.0.6     3.161e-04  2.958e-03   0.107  0.91491
## f.22009.0.7    -8.923e-03  3.031e-03  -2.944  0.00324 **
## f.22009.0.8     7.781e-03  3.197e-03   2.434  0.01493 *
## f.22009.0.9    -7.741e-03  3.050e-03  -2.538  0.01115 *
## f.22009.0.10    1.415e-03  3.540e-03   0.400  0.68942
## f.22009.0.11    1.099e-03  4.118e-03   0.267  0.78961
## f.22009.0.12    4.900e-03  3.617e-03   1.355  0.17554
## f.22009.0.13   -4.482e-03  2.910e-03  -1.540  0.12359
## f.22009.0.14   -1.612e-02  3.075e-03  -5.241  1.6e-07 ***
## f.22009.0.15   -1.559e-03  3.152e-03  -0.495  0.62084
## f.22009.0.16   -7.587e-03  3.088e-03  -2.457  0.01400 *
## f.22009.0.17   -1.884e-03  2.868e-03  -0.657  0.51113
## f.22009.0.18    6.254e-04  2.875e-03   0.218  0.82779
## f.22009.0.19    2.210e-03  2.863e-03   0.772  0.44018
## f.22009.0.20    5.746e-04  2.868e-03   0.200  0.84121
## f.22001.0.01   -1.219e-01  5.781e-03 -21.092  < 2e-16 ***
## f.34.0.0        2.093e-02  3.789e-04  55.229  < 2e-16 ***
## f.22000.0.0-1   2.900e-02  4.044e-02   0.717  0.47331
## f.22000.0.010  -3.044e-02  4.086e-02  -0.745  0.45622
## f.22000.0.0-10  8.456e-02  4.109e-02   2.058  0.03961 *
## f.22000.0.011   5.291e-02  4.019e-02   1.317  0.18796
## f.22000.0.0-11  4.804e-02  4.073e-02   1.180  0.23819
## f.22000.0.012   2.316e-02  4.045e-02   0.572  0.56702
## f.22000.0.013  -3.542e-03  4.030e-02  -0.088  0.92997
## f.22000.0.014   4.249e-02  4.003e-02   1.061  0.28857
## f.22000.0.015   4.075e-02  4.040e-02   1.009  0.31318
## f.22000.0.016   5.732e-02  4.055e-02   1.414  0.15747
## f.22000.0.017   4.338e-02  4.017e-02   1.080  0.28022
## f.22000.0.018  -2.437e-02  4.054e-02  -0.601  0.54768
```

```
## f.22000.0.018  -2.457e-02  4.054e-02  -0.601  0.54768
## f.22000.0.019   1.035e-02  3.980e-02   0.260  0.79474
## f.22000.0.02    1.782e-03  3.994e-02   0.045  0.96441
## f.22000.0.0-2   7.880e-02  4.067e-02   1.938  0.05267 .
## f.22000.0.020   3.082e-03  4.047e-02   0.076  0.93931
## f.22000.0.021   2.535e-02  4.033e-02   0.629  0.52961
## f.22000.0.022   2.362e-02  4.034e-02   0.586  0.55818
## f.22000.0.023   1.808e-02  4.034e-02   0.448  0.65392
## f.22000.0.024   1.117e-02  3.980e-02   0.281  0.77892
## f.22000.0.025   5.208e-02  4.083e-02   1.276  0.20210
## f.22000.0.026  -3.798e-02  4.061e-02  -0.935  0.34969
## f.22000.0.027  -6.341e-04  3.998e-02  -0.016  0.98734
## f.22000.0.028   5.448e-03  4.038e-02   0.135  0.89269
## f.22000.0.029   2.116e-02  4.006e-02   0.528  0.59730
## f.22000.0.03    1.257e-02  4.001e-02   0.314  0.75341
## f.22000.0.0-3  -6.763e-03  4.021e-02  -0.168  0.86644
## f.22000.0.030  -3.142e-02  4.005e-02  -0.785  0.43271
## f.22000.0.031  -5.697e-03  4.024e-02  -0.142  0.88742
## f.22000.0.032  -1.884e-02  4.035e-02  -0.467  0.64053
## f.22000.0.033   1.964e-02  4.109e-02   0.478  0.63273
## f.22000.0.034   2.631e-02  4.014e-02   0.655  0.51216
## f.22000.0.035   6.722e-02  4.025e-02   1.670  0.09491 .
## f.22000.0.036   1.412e-02  3.998e-02   0.353  0.72399
## f.22000.0.037  -4.335e-03  4.057e-02  -0.107  0.91491
## f.22000.0.038   5.955e-02  4.038e-02   1.475  0.14029
## f.22000.0.039   2.606e-02  4.086e-02   0.638  0.52358
## f.22000.0.04   -3.619e-03  4.071e-02  -0.089  0.92917
## f.22000.0.0-4   7.605e-02  4.096e-02   1.857  0.06335 .
## f.22000.0.040   4.266e-02  4.039e-02   1.056  0.29091
## f.22000.0.041   1.189e-02  4.093e-02   0.291  0.77143
## f.22000.0.042  -1.341e-02  4.018e-02  -0.334  0.73861
## f.22000.0.043  -3.409e-02  4.099e-02  -0.832  0.40560
## f.22000.0.044   6.737e-02  4.062e-02   1.658  0.09723 .
## f.22000.0.045   7.797e-03  4.054e-02   0.192  0.84747
## f.22000.0.046  -2.289e-02  4.074e-02  -0.562  0.57424
## f.22000.0.047  -8.256e-03  4.078e-02  -0.202  0.83956
## f.22000.0.048   8.452e-03  4.077e-02   0.207  0.83579
## f.22000.0.049   6.152e-02  4.073e-02   1.511  0.13090
## f.22000.0.05    9.507e-03  4.006e-02   0.237  0.81240
## f.22000.0.0-5   6.624e-02  4.047e-02   1.637  0.10171
## f.22000.0.050   1.439e-03  4.072e-02   0.035  0.97182
## f.22000.0.051   7.365e-02  4.021e-02   1.832  0.06700 .
## f.22000.0.052   2.657e-02  4.100e-02   0.648  0.51686
## f.22000.0.053  -1.195e-02  4.059e-02  -0.294  0.76848
## f.22000.0.054   7.016e-02  4.071e-02   1.724  0.08479 .
## f.22000.0.055   5.943e-02  4.113e-02   1.445  0.14842
## f.22000.0.056   4.198e-02  4.076e-02   1.030  0.30307
## f.22000.0.057   5.161e-02  4.088e-02   1.262  0.20681
## f.22000.0.058   2.814e-02  4.075e-02   0.691  0.48983
## f.22000.0.059   2.803e-02  4.057e-02   0.691  0.48968
## f.22000.0.06    7.784e-03  3.991e-02   0.195  0.84534
## f.22000.0.0-6   4.014e-02  4.085e-02   0.983  0.32581
## f.22000.0.060   7.245e-03  4.097e-02   0.177  0.85962
## f.22000.0.061   3.304e-02  4.117e-02   0.803  0.42226
## f.22000.0.062   3.899e-02  4.106e-02   0.950  0.34222
## f.22000.0.063   1.437e-02  4.103e-02   0.350  0.72614
## f.22000.0.064  -4.674e-03  4.074e-02  -0.115  0.90866
## f.22000.0.065  -1.131e-03  4.096e-02  -0.028  0.97796
## f.22000.0.066   1.283e-03  4.132e-02   0.031  0.97523
## f.22000.0.067  -1.678e-02  4.094e-02  -0.410  0.68194
## f.22000.0.068   1.266e-02  4.082e-02   0.310  0.75650
## f.22000.0.069   2.256e-02  4.099e-02   0.550  0.58204
## f.22000.0.07   -2.687e-02  4.022e-02  -0.668  0.50413
## f.22000.0.0-7   5.561e-02  4.054e-02   1.372  0.17016
## f.22000.0.070  -1.605e-02  4.107e-02  -0.391  0.69596
## f.22000.0.071  -2.091e-02  4.081e-02  -0.512  0.60831
## f.22000.0.072   9.263e-04  4.108e-02   0.023  0.98201
## f.22000.0.073   8.800e-03  4.113e-02   0.214  0.83058
## f.22000.0.074   4.040e-02  4.120e-02   0.981  0.32674
## f.22000.0.075   7.216e-02  4.077e-02   1.770  0.07674 .
## f.22000.0.076   5.141e-02  4.121e-02   1.247  0.21223
## f.22000.0.077   2.220e-02  4.101e-02   0.541  0.58823
## f.22000.0.078  -3.678e-02  4.084e-02  -0.901  0.36785
```

```
## f.22000.0.079  -9.800e-03  4.066e-02  -0.241  0.80952
## f.22000.0.08   -5.314e-04  4.014e-02  -0.013  0.98944
## f.22000.0.0-8   2.560e-02  4.082e-02   0.627  0.53059
## f.22000.0.080   6.673e-02  4.114e-02   1.622  0.10477
## f.22000.0.081   2.517e-03  4.167e-02   0.060  0.95182
## f.22000.0.082  -2.180e-02  4.114e-02  -0.530  0.59611
## f.22000.0.083   1.744e-02  4.117e-02   0.424  0.67185
## f.22000.0.084   2.586e-02  4.118e-02   0.628  0.53008
## f.22000.0.085   3.155e-02  4.104e-02   0.769  0.44208
## f.22000.0.086  -1.200e-02  4.113e-02  -0.292  0.77038
## f.22000.0.087   3.225e-02  4.108e-02   0.785  0.43232
## f.22000.0.088   1.090e-02  4.191e-02   0.260  0.79481
## f.22000.0.089   9.483e-03  4.155e-02   0.228  0.81946
## f.22000.0.09   -2.182e-02  3.988e-02  -0.547  0.58439
## f.22000.0.0-9   5.697e-02  4.085e-02   1.395  0.16313
## f.22000.0.090   9.859e-03  4.120e-02   0.239  0.81088
## f.22000.0.091  -4.409e-02  4.249e-02  -1.038  0.29945
## f.22000.0.092   3.701e-02  4.120e-02   0.898  0.36896
## f.22000.0.093   3.424e-02  4.115e-02   0.832  0.40539
## f.22000.0.094   1.496e-03  5.261e-02   0.028  0.97731
## f.22000.0.095  -8.193e-03  4.392e-02  -0.187  0.85201
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9837 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03337,    Adjusted R-squared:  0.03232
## F-statistic: 31.85 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.250000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.250000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1121 -0.5916 -0.4114  0.2715  5.1639
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.405e-01 -55.125  < 2e-16 ***
## `0.250000`      3.119e-02  2.865e-03  10.883  < 2e-16 ***
## f.22009.0.1     8.265e-03  3.028e-03   2.729  0.00635 **
## f.22009.0.2    -1.119e-03  2.915e-03  -0.384  0.70092
## f.22009.0.3    -1.467e-03  2.990e-03  -0.491  0.62367
## f.22009.0.4    -8.735e-03  4.183e-03  -2.088  0.03679 *
## f.22009.0.5     3.087e-03  4.061e-03   0.760  0.44718
## f.22009.0.6     3.452e-04  2.958e-03   0.117  0.90710
## f.22009.0.7    -8.939e-03  3.031e-03  -2.949  0.00319 **
## f.22009.0.8     7.739e-03  3.197e-03   2.421  0.01548 *
## f.22009.0.9    -7.649e-03  3.050e-03  -2.507  0.01216 *
## f.22009.0.10    1.417e-03  3.540e-03   0.400  0.68900
## f.22009.0.11    1.066e-03  4.118e-03   0.259  0.79573
## f.22009.0.12    4.921e-03  3.617e-03   1.360  0.17368
## f.22009.0.13   -4.465e-03  2.910e-03  -1.534  0.12498
## f.22009.0.14   -1.621e-02  3.075e-03  -5.272 1.35e-07 ***
## f.22009.0.15   -1.612e-03  3.152e-03  -0.511  0.60918
## f.22009.0.16   -7.575e-03  3.088e-03  -2.453  0.01416 *
## f.22009.0.17   -1.814e-03  2.868e-03  -0.633  0.52701
## f.22009.0.18    6.268e-04  2.875e-03   0.218  0.82744
## f.22009.0.19    2.296e-03  2.863e-03   0.802  0.42249
## f.22009.0.20    5.920e-04  2.868e-03   0.206  0.83649
```

```
## f.22009.0.20    5.920e-04  2.866e-03   0.206  0.83649
## f.22001.0.01   -1.219e-01  5.782e-03 -21.091  < 2e-16 ***
## f.34.0.0        2.093e-02  3.789e-04  55.238  < 2e-16 ***
## f.22000.0.0-1   2.872e-02  4.044e-02   0.710  0.47753
## f.22000.0.010  -3.029e-02  4.086e-02  -0.741  0.45846
## f.22000.0.0-10  8.450e-02  4.109e-02   2.056  0.03976 *
## f.22000.0.011   5.260e-02  4.019e-02   1.309  0.19059
## f.22000.0.0-11  4.825e-02  4.073e-02   1.185  0.23610
## f.22000.0.012   2.326e-02  4.046e-02   0.575  0.56535
## f.22000.0.013  -4.026e-03  4.030e-02  -0.100  0.92043
## f.22000.0.014   4.174e-02  4.004e-02   1.043  0.29717
## f.22000.0.015   4.080e-02  4.040e-02   1.010  0.31263
## f.22000.0.016   5.690e-02  4.055e-02   1.403  0.16056
## f.22000.0.017   4.325e-02  4.017e-02   1.076  0.28171
## f.22000.0.018  -2.433e-02  4.054e-02  -0.600  0.54852
## f.22000.0.019   9.638e-03  3.980e-02   0.242  0.80864
## f.22000.0.02    2.114e-03  3.994e-02   0.053  0.95779
## f.22000.0.0-2   7.869e-02  4.067e-02   1.935  0.05300 .
## f.22000.0.020   2.740e-03  4.047e-02   0.068  0.94602
## f.22000.0.021   2.534e-02  4.033e-02   0.628  0.52974
## f.22000.0.022   2.373e-02  4.034e-02   0.588  0.55641
## f.22000.0.023   1.839e-02  4.034e-02   0.456  0.64844
## f.22000.0.024   1.142e-02  3.981e-02   0.287  0.77416
## f.22000.0.025   5.154e-02  4.083e-02   1.262  0.20683
## f.22000.0.026  -3.789e-02  4.061e-02  -0.933  0.35080
## f.22000.0.027  -8.334e-04  3.998e-02  -0.021  0.98337
## f.22000.0.028   5.337e-03  4.039e-02   0.132  0.89486
## f.22000.0.029   2.123e-02  4.006e-02   0.530  0.59621
## f.22000.0.03    1.219e-02  4.001e-02   0.305  0.76056
## f.22000.0.0-3  -6.896e-03  4.022e-02  -0.171  0.86386
## f.22000.0.030  -3.160e-02  4.005e-02  -0.789  0.43021
## f.22000.0.031  -5.865e-03  4.024e-02  -0.146  0.88413
## f.22000.0.032  -1.861e-02  4.035e-02  -0.461  0.64461
## f.22000.0.033   1.981e-02  4.109e-02   0.482  0.62965
## f.22000.0.034   2.577e-02  4.014e-02   0.642  0.52092
## f.22000.0.035   6.706e-02  4.025e-02   1.666  0.09571 .
## f.22000.0.036   1.393e-02  3.998e-02   0.348  0.72763
## f.22000.0.037  -4.529e-03  4.058e-02  -0.112  0.91112
## f.22000.0.038   5.969e-02  4.038e-02   1.478  0.13940
## f.22000.0.039   2.600e-02  4.086e-02   0.636  0.52450
## f.22000.0.04   -3.465e-03  4.071e-02  -0.085  0.93217
## f.22000.0.0-4   7.588e-02  4.096e-02   1.853  0.06395 .
## f.22000.0.040   4.274e-02  4.039e-02   1.058  0.29002
## f.22000.0.041   1.182e-02  4.093e-02   0.289  0.77281
## f.22000.0.042  -1.357e-02  4.018e-02  -0.338  0.73552
## f.22000.0.043  -3.404e-02  4.099e-02  -0.830  0.40633
## f.22000.0.044   6.686e-02  4.062e-02   1.646  0.09979 .
## f.22000.0.045   7.458e-03  4.054e-02   0.184  0.85403
## f.22000.0.046  -2.275e-02  4.075e-02  -0.558  0.57660
## f.22000.0.047  -8.215e-03  4.078e-02  -0.201  0.84036
## f.22000.0.048   8.453e-03  4.078e-02   0.207  0.83576
## f.22000.0.049   6.113e-02  4.073e-02   1.501  0.13334
## f.22000.0.05    9.126e-03  4.006e-02   0.228  0.81978
## f.22000.0.0-5   6.622e-02  4.048e-02   1.636  0.10181
## f.22000.0.050   1.405e-03  4.073e-02   0.035  0.97247
## f.22000.0.051   7.338e-02  4.021e-02   1.825  0.06799 .
## f.22000.0.052   2.609e-02  4.100e-02   0.636  0.52455
## f.22000.0.053  -1.183e-02  4.059e-02  -0.291  0.77067
## f.22000.0.054   6.969e-02  4.071e-02   1.712  0.08689 .
## f.22000.0.055   5.910e-02  4.113e-02   1.437  0.15076
## f.22000.0.056   4.158e-02  4.076e-02   1.020  0.30768
## f.22000.0.057   5.162e-02  4.088e-02   1.263  0.20672
## f.22000.0.058   2.803e-02  4.075e-02   0.688  0.49165
## f.22000.0.059   2.787e-02  4.057e-02   0.687  0.49222
## f.22000.0.06    7.719e-03  3.991e-02   0.193  0.84665
## f.22000.0.0-6   4.025e-02  4.085e-02   0.985  0.32452
## f.22000.0.060   7.275e-03  4.097e-02   0.178  0.85906
## f.22000.0.061   3.309e-02  4.117e-02   0.804  0.42156
## f.22000.0.062   3.883e-02  4.106e-02   0.946  0.34431
## f.22000.0.063   1.457e-02  4.104e-02   0.355  0.72265
## f.22000.0.064  -5.092e-03  4.074e-02  -0.125  0.90054
## f.22000.0.065  -1.556e-03  4.096e-02  -0.038  0.96970
## f.22000.0.066   1.311e-03  4.132e-02   0.032  0.97468
```

```
## f.22000.0.067  -1.702e-02  4.094e-02  -0.416  0.67759
## f.22000.0.068   1.278e-02  4.082e-02   0.313  0.75421
## f.22000.0.069   2.277e-02  4.099e-02   0.556  0.57849
## f.22000.0.07   -2.693e-02  4.022e-02  -0.670  0.50306
## f.22000.0.0-7   5.529e-02  4.054e-02   1.364  0.17266
## f.22000.0.070  -1.653e-02  4.107e-02  -0.402  0.68740
## f.22000.0.071  -2.119e-02  4.081e-02  -0.519  0.60356
## f.22000.0.072   1.456e-03  4.108e-02   0.035  0.97173
## f.22000.0.073   8.507e-03  4.113e-02   0.207  0.83614
## f.22000.0.074   4.023e-02  4.120e-02   0.976  0.32885
## f.22000.0.075   7.245e-02  4.077e-02   1.777  0.07559 .
## f.22000.0.076   5.155e-02  4.121e-02   1.251  0.21097
## f.22000.0.077   2.212e-02  4.101e-02   0.539  0.58957
## f.22000.0.078  -3.759e-02  4.084e-02  -0.920  0.35735
## f.22000.0.079  -9.899e-03  4.066e-02  -0.243  0.80765
## f.22000.0.08   -3.805e-04  4.014e-02  -0.009  0.99244
## f.22000.0.0-8   2.542e-02  4.082e-02   0.623  0.53350
## f.22000.0.080   6.651e-02  4.114e-02   1.617  0.10597
## f.22000.0.081   2.203e-03  4.167e-02   0.053  0.95783
## f.22000.0.082  -2.147e-02  4.114e-02  -0.522  0.60169
## f.22000.0.083   1.717e-02  4.117e-02   0.417  0.67669
## f.22000.0.084   2.593e-02  4.118e-02   0.630  0.52893
## f.22000.0.085   3.152e-02  4.105e-02   0.768  0.44260
## f.22000.0.086  -1.182e-02  4.113e-02  -0.287  0.77384
## f.22000.0.087   3.220e-02  4.108e-02   0.784  0.43311
## f.22000.0.088   1.108e-02  4.192e-02   0.264  0.79155
## f.22000.0.089   9.226e-03  4.155e-02   0.222  0.82429
## f.22000.0.09   -2.181e-02  3.989e-02  -0.547  0.58448
## f.22000.0.0-9   5.672e-02  4.085e-02   1.389  0.16497
## f.22000.0.090   9.662e-03  4.120e-02   0.235  0.81459
## f.22000.0.091  -4.420e-02  4.249e-02  -1.040  0.29824
## f.22000.0.092   3.724e-02  4.120e-02   0.904  0.36605
## f.22000.0.093   3.390e-02  4.115e-02   0.824  0.41007
## f.22000.0.094   1.164e-03  5.262e-02   0.022  0.98236
## f.22000.0.095  -8.245e-03  4.392e-02  -0.188  0.85108
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03327,    Adjusted R-squared:  0.03222
## F-statistic: 31.75 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.100000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.100000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1117 -0.5916 -0.4115  0.2723  5.1638
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.083e+01  7.405e-01 -55.131  < 2e-16 ***
## `0.100000`      2.978e-02  2.866e-03  10.392  < 2e-16 ***
## f.22009.0.1     8.278e-03  3.029e-03   2.733  0.00627 **
## f.22009.0.2    -1.148e-03  2.915e-03  -0.394  0.69365
## f.22009.0.3    -1.523e-03  2.990e-03  -0.509  0.61062
## f.22009.0.4    -8.795e-03  4.183e-03  -2.102  0.03552 *
## f.22009.0.5     3.083e-03  4.062e-03   0.759  0.44779
## f.22009.0.6     2.529e-04  2.958e-03   0.085  0.93188
```

```
## f.22009.0.6     2.529e-04  2.956e-03   0.085  0.93188
## f.22009.0.7    -9.038e-03  3.031e-03  -2.982  0.00286 **
## f.22009.0.8     7.761e-03  3.197e-03   2.428  0.01520 *
## f.22009.0.9    -7.568e-03  3.051e-03  -2.481  0.01311 *
## f.22009.0.10    1.430e-03  3.540e-03   0.404  0.68623
## f.22009.0.11    1.099e-03  4.118e-03   0.267  0.78954
## f.22009.0.12    4.989e-03  3.617e-03   1.379  0.16781
## f.22009.0.13   -4.548e-03  2.911e-03  -1.563  0.11814
## f.22009.0.14   -1.612e-02  3.075e-03  -5.241  1.6e-07 ***
## f.22009.0.15   -1.638e-03  3.153e-03  -0.520  0.60339
## f.22009.0.16   -7.561e-03  3.088e-03  -2.449  0.01434 *
## f.22009.0.17   -1.806e-03  2.868e-03  -0.630  0.52892
## f.22009.0.18    5.924e-04  2.875e-03   0.206  0.83676
## f.22009.0.19    2.324e-03  2.863e-03   0.812  0.41696
## f.22009.0.20    6.072e-04  2.868e-03   0.212  0.83237
## f.22001.0.01   -1.221e-01  5.782e-03 -21.111  < 2e-16 ***
## f.34.0.0        2.093e-02  3.790e-04  55.244  < 2e-16 ***
## f.22000.0.0-1   2.907e-02  4.044e-02   0.719  0.47229
## f.22000.0.010  -3.041e-02  4.086e-02  -0.744  0.45678
## f.22000.0.0-10  8.435e-02  4.109e-02   2.053  0.04012 *
## f.22000.0.011   5.277e-02  4.019e-02   1.313  0.18918
## f.22000.0.0-11  4.859e-02  4.073e-02   1.193  0.23287
## f.22000.0.012   2.379e-02  4.046e-02   0.588  0.55660
## f.22000.0.013  -3.708e-03  4.031e-02  -0.092  0.92670
## f.22000.0.014   4.197e-02  4.004e-02   1.048  0.29452
## f.22000.0.015   4.088e-02  4.040e-02   1.012  0.31163
## f.22000.0.016   5.693e-02  4.055e-02   1.404  0.16035
## f.22000.0.017   4.361e-02  4.017e-02   1.085  0.27773
## f.22000.0.018  -2.421e-02  4.055e-02  -0.597  0.55040
## f.22000.0.019   9.521e-03  3.980e-02   0.239  0.81093
## f.22000.0.02    2.044e-03  3.994e-02   0.051  0.95918
## f.22000.0.0-2   7.944e-02  4.067e-02   1.953  0.05079 .
## f.22000.0.020   2.624e-03  4.048e-02   0.065  0.94832
## f.22000.0.021   2.547e-02  4.033e-02   0.632  0.52762
## f.22000.0.022   2.391e-02  4.034e-02   0.593  0.55337
## f.22000.0.023   1.805e-02  4.034e-02   0.447  0.65459
## f.22000.0.024   1.134e-02  3.981e-02   0.285  0.77570
## f.22000.0.025   5.135e-02  4.083e-02   1.258  0.20855
## f.22000.0.026  -3.798e-02  4.062e-02  -0.935  0.34978
## f.22000.0.027  -6.044e-05  3.998e-02  -0.002  0.99879
## f.22000.0.028   5.996e-03  4.039e-02   0.148  0.88198
## f.22000.0.029   2.140e-02  4.006e-02   0.534  0.59327
## f.22000.0.03    1.189e-02  4.001e-02   0.297  0.76629
## f.22000.0.0-3  -6.551e-03  4.022e-02  -0.163  0.87061
## f.22000.0.030  -3.152e-02  4.006e-02  -0.787  0.43134
## f.22000.0.031  -5.530e-03  4.025e-02  -0.137  0.89071
## f.22000.0.032  -1.831e-02  4.035e-02  -0.454  0.64992
## f.22000.0.033   2.022e-02  4.109e-02   0.492  0.62267
## f.22000.0.034   2.616e-02  4.015e-02   0.652  0.51457
## f.22000.0.035   6.692e-02  4.025e-02   1.663  0.09639 .
## f.22000.0.036   1.412e-02  3.999e-02   0.353  0.72398
## f.22000.0.037  -3.943e-03  4.058e-02  -0.097  0.92260
## f.22000.0.038   5.968e-02  4.039e-02   1.478  0.13950
## f.22000.0.039   2.605e-02  4.086e-02   0.638  0.52380
## f.22000.0.04   -3.430e-03  4.071e-02  -0.084  0.93285
## f.22000.0.0-4   7.577e-02  4.096e-02   1.850  0.06434 .
## f.22000.0.040   4.250e-02  4.040e-02   1.052  0.29278
## f.22000.0.041   1.167e-02  4.093e-02   0.285  0.77546
## f.22000.0.042  -1.315e-02  4.018e-02  -0.327  0.74348
## f.22000.0.043  -3.428e-02  4.099e-02  -0.836  0.40297
## f.22000.0.044   6.660e-02  4.062e-02   1.639  0.10113
## f.22000.0.045   8.207e-03  4.054e-02   0.202  0.83957
## f.22000.0.046  -2.248e-02  4.075e-02  -0.552  0.58109
## f.22000.0.047  -7.983e-03  4.079e-02  -0.196  0.84482
## f.22000.0.048   8.765e-03  4.078e-02   0.215  0.82981
## f.22000.0.049   6.130e-02  4.073e-02   1.505  0.13230
## f.22000.0.05    8.958e-03  4.006e-02   0.224  0.82306
## f.22000.0.0-5   6.616e-02  4.048e-02   1.634  0.10216
## f.22000.0.050   2.120e-03  4.073e-02   0.052  0.95848
## f.22000.0.051   7.363e-02  4.021e-02   1.831  0.06710 .
## f.22000.0.052   2.647e-02  4.100e-02   0.646  0.51849
## f.22000.0.053  -1.200e-02  4.060e-02  -0.296  0.76746
## f.22000.0.054   7.014e-02  4.071e-02   1.723  0.08491 .
```

```
## f.22000.0.055   5.962e-02  4.113e-02   1.449  0.14723
## f.22000.0.056   4.142e-02  4.077e-02   1.016  0.30960
## f.22000.0.057   5.198e-02  4.088e-02   1.271  0.20358
## f.22000.0.058   2.795e-02  4.076e-02   0.686  0.49285
## f.22000.0.059   2.832e-02  4.058e-02   0.698  0.48522
## f.22000.0.06    8.536e-03  3.991e-02   0.214  0.83064
## f.22000.0.0-6   4.028e-02  4.085e-02   0.986  0.32418
## f.22000.0.060   6.953e-03  4.097e-02   0.170  0.86524
## f.22000.0.061   3.379e-02  4.117e-02   0.821  0.41180
## f.22000.0.062   3.919e-02  4.106e-02   0.954  0.33984
## f.22000.0.063   1.507e-02  4.104e-02   0.367  0.71353
## f.22000.0.064  -4.547e-03  4.075e-02  -0.112  0.91115
## f.22000.0.065  -8.679e-04  4.096e-02  -0.021  0.98310
## f.22000.0.066   1.570e-04  4.133e-02   0.004  0.99697
## f.22000.0.067  -1.733e-02  4.094e-02  -0.423  0.67210
## f.22000.0.068   1.242e-02  4.082e-02   0.304  0.76098
## f.22000.0.069   2.249e-02  4.099e-02   0.549  0.58319
## f.22000.0.07   -2.664e-02  4.022e-02  -0.662  0.50768
## f.22000.0.0-7   5.541e-02  4.054e-02   1.367  0.17174
## f.22000.0.070  -1.652e-02  4.107e-02  -0.402  0.68743
## f.22000.0.071  -2.036e-02  4.081e-02  -0.499  0.61783
## f.22000.0.072   1.672e-03  4.108e-02   0.041  0.96753
## f.22000.0.073   8.946e-03  4.113e-02   0.217  0.82782
## f.22000.0.074   4.046e-02  4.120e-02   0.982  0.32611
## f.22000.0.075   7.289e-02  4.078e-02   1.788  0.07385 .
## f.22000.0.076   5.269e-02  4.121e-02   1.279  0.20106
## f.22000.0.077   2.257e-02  4.101e-02   0.550  0.58205
## f.22000.0.078  -3.715e-02  4.084e-02  -0.910  0.36303
## f.22000.0.079  -9.569e-03  4.066e-02  -0.235  0.81395
## f.22000.0.08   -6.373e-04  4.014e-02  -0.016  0.98733
## f.22000.0.0-8   2.583e-02  4.082e-02   0.633  0.52697
## f.22000.0.080   6.698e-02  4.114e-02   1.628  0.10350
## f.22000.0.081   1.672e-03  4.167e-02   0.040  0.96799
## f.22000.0.082  -2.121e-02  4.114e-02  -0.515  0.60624
## f.22000.0.083   1.723e-02  4.117e-02   0.418  0.67558
## f.22000.0.084   2.628e-02  4.118e-02   0.638  0.52339
## f.22000.0.085   3.211e-02  4.105e-02   0.782  0.43405
## f.22000.0.086  -1.185e-02  4.113e-02  -0.288  0.77323
## f.22000.0.087   3.223e-02  4.108e-02   0.785  0.43269
## f.22000.0.088   1.123e-02  4.192e-02   0.268  0.78873
## f.22000.0.089   1.011e-02  4.155e-02   0.243  0.80780
## f.22000.0.09   -2.113e-02  3.989e-02  -0.530  0.59637
## f.22000.0.0-9   5.713e-02  4.085e-02   1.399  0.16195
## f.22000.0.090   9.901e-03  4.120e-02   0.240  0.81011
## f.22000.0.091  -4.368e-02  4.249e-02  -1.028  0.30398
## f.22000.0.092   3.758e-02  4.120e-02   0.912  0.36174
## f.22000.0.093   3.408e-02  4.115e-02   0.828  0.40766
## f.22000.0.094   1.087e-03  5.262e-02   0.021  0.98352
## f.22000.0.095  -7.866e-03  4.392e-02  -0.179  0.85786
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03318,    Adjusted R-squared:  0.03213
## F-statistic: 31.67 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.010000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.2200
9.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.010000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
```

```
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1006 -0.5917 -0.4122  0.2730  5.1307
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.406e-01 -55.116  < 2e-16 ***
## `0.010000`      2.580e-02  2.865e-03   9.005  < 2e-16 ***
## f.22009.0.1     8.420e-03  3.029e-03   2.780  0.00544 **
## f.22009.0.2    -1.099e-03  2.915e-03  -0.377  0.70615
## f.22009.0.3    -1.641e-03  2.991e-03  -0.549  0.58327
## f.22009.0.4    -8.834e-03  4.184e-03  -2.111  0.03474 *
## f.22009.0.5     3.341e-03  4.062e-03   0.823  0.41069
## f.22009.0.6     1.166e-04  2.959e-03   0.039  0.96857
## f.22009.0.7    -9.123e-03  3.031e-03  -3.010  0.00262 **
## f.22009.0.8     7.738e-03  3.197e-03   2.420  0.01550 *
## f.22009.0.9    -7.547e-03  3.051e-03  -2.474  0.01338 *
## f.22009.0.10    1.497e-03  3.541e-03   0.423  0.67245
## f.22009.0.11    1.362e-03  4.119e-03   0.331  0.74079
## f.22009.0.12    4.984e-03  3.618e-03   1.378  0.16834
## f.22009.0.13   -4.501e-03  2.911e-03  -1.546  0.12208
## f.22009.0.14   -1.618e-02  3.076e-03  -5.262 1.43e-07 ***
## f.22009.0.15   -1.574e-03  3.153e-03  -0.499  0.61774
## f.22009.0.16   -7.580e-03  3.088e-03  -2.454  0.01411 *
## f.22009.0.17   -1.815e-03  2.868e-03  -0.633  0.52701
## f.22009.0.18    6.464e-04  2.876e-03   0.225  0.82215
## f.22009.0.19    2.572e-03  2.863e-03   0.898  0.36901
## f.22009.0.20    3.926e-04  2.869e-03   0.137  0.89115
## f.22001.0.01   -1.221e-01  5.782e-03 -21.125  < 2e-16 ***
## f.34.0.0        2.093e-02  3.790e-04  55.228  < 2e-16 ***
## f.22000.0.0-1   2.941e-02  4.045e-02   0.727  0.46710
## f.22000.0.010  -3.076e-02  4.087e-02  -0.753  0.45159
## f.22000.0.0-10  8.492e-02  4.110e-02   2.066  0.03881 *
## f.22000.0.011   5.316e-02  4.019e-02   1.323  0.18600
## f.22000.0.0-11  4.884e-02  4.073e-02   1.199  0.23057
## f.22000.0.012   2.398e-02  4.046e-02   0.593  0.55344
## f.22000.0.013  -4.037e-03  4.031e-02  -0.100  0.92022
## f.22000.0.014   4.267e-02  4.004e-02   1.066  0.28662
## f.22000.0.015   4.171e-02  4.041e-02   1.032  0.30199
## f.22000.0.016   5.748e-02  4.055e-02   1.417  0.15638
## f.22000.0.017   4.423e-02  4.018e-02   1.101  0.27100
## f.22000.0.018  -2.354e-02  4.055e-02  -0.581  0.56155
## f.22000.0.019   9.790e-03  3.980e-02   0.246  0.80572
## f.22000.0.02    2.932e-03  3.995e-02   0.073  0.94149
## f.22000.0.0-2   8.037e-02  4.068e-02   1.976  0.04818 *
## f.22000.0.020   4.360e-03  4.048e-02   0.108  0.91424
## f.22000.0.021   2.651e-02  4.034e-02   0.657  0.51101
## f.22000.0.022   2.497e-02  4.035e-02   0.619  0.53596
## f.22000.0.023   1.830e-02  4.034e-02   0.454  0.65014
## f.22000.0.024   1.245e-02  3.981e-02   0.313  0.75453
## f.22000.0.025   5.146e-02  4.084e-02   1.260  0.20761
## f.22000.0.026  -3.726e-02  4.062e-02  -0.917  0.35898
## f.22000.0.027  -9.599e-04  3.998e-02  -0.024  0.98085
## f.22000.0.028   6.794e-03  4.039e-02   0.168  0.86642
## f.22000.0.029   2.236e-02  4.007e-02   0.558  0.57686
## f.22000.0.03    1.262e-02  4.002e-02   0.315  0.75240
## f.22000.0.0-3  -4.689e-03  4.022e-02  -0.117  0.90719
## f.22000.0.030  -2.997e-02  4.006e-02  -0.748  0.45444
## f.22000.0.031  -3.959e-03  4.025e-02  -0.098  0.92165
## f.22000.0.032  -1.832e-02  4.036e-02  -0.454  0.64983
## f.22000.0.033   2.142e-02  4.110e-02   0.521  0.60225
## f.22000.0.034   2.621e-02  4.015e-02   0.653  0.51390
## f.22000.0.035   6.779e-02  4.026e-02   1.684  0.09218 .
## f.22000.0.036   1.466e-02  3.999e-02   0.367  0.71395
## f.22000.0.037  -4.227e-03  4.058e-02  -0.104  0.91704
## f.22000.0.038   6.061e-02  4.039e-02   1.501  0.13348
## f.22000.0.039   2.759e-02  4.087e-02   0.675  0.49961
## f.22000.0.04   -3.020e-03  4.072e-02  -0.074  0.94087
## f.22000.0.0-4   7.645e-02  4.097e-02   1.866  0.06203 .
## f.22000.0.040   4.252e-02  4.040e-02   1.053  0.29257
## f.22000.0.041   1.113e-02  4.093e-02   0.272  0.78565
## f.22000.0.042  -1.352e-02  4.019e-02  -0.336  0.73662
```

```
## f.22000.0.043  -3.462e-02  4.100e-02  -0.844  0.39843
## f.22000.0.044   6.712e-02  4.063e-02   1.652  0.09855 .
## f.22000.0.045   9.364e-03  4.055e-02   0.231  0.81735
## f.22000.0.046  -2.098e-02  4.075e-02  -0.515  0.60671
## f.22000.0.047  -7.146e-03  4.079e-02  -0.175  0.86094
## f.22000.0.048   7.919e-03  4.078e-02   0.194  0.84603
## f.22000.0.049   6.185e-02  4.073e-02   1.518  0.12893
## f.22000.0.05    8.882e-03  4.007e-02   0.222  0.82457
## f.22000.0.0-5   6.609e-02  4.048e-02   1.633  0.10256
## f.22000.0.050   2.530e-03  4.073e-02   0.062  0.95048
## f.22000.0.051   7.375e-02  4.021e-02   1.834  0.06667 .
## f.22000.0.052   2.664e-02  4.101e-02   0.650  0.51590
## f.22000.0.053  -1.150e-02  4.060e-02  -0.283  0.77699
## f.22000.0.054   7.105e-02  4.071e-02   1.745  0.08098 .
## f.22000.0.055   6.063e-02  4.114e-02   1.474  0.14051
## f.22000.0.056   4.237e-02  4.077e-02   1.039  0.29869
## f.22000.0.057   5.295e-02  4.089e-02   1.295  0.19535
## f.22000.0.058   2.809e-02  4.076e-02   0.689  0.49077
## f.22000.0.059   2.876e-02  4.058e-02   0.709  0.47846
## f.22000.0.06    8.762e-03  3.992e-02   0.220  0.82625
## f.22000.0.0-6   4.201e-02  4.086e-02   1.028  0.30382
## f.22000.0.060   8.009e-03  4.098e-02   0.195  0.84503
## f.22000.0.061   3.374e-02  4.117e-02   0.819  0.41254
## f.22000.0.062   4.017e-02  4.106e-02   0.978  0.32793
## f.22000.0.063   1.598e-02  4.104e-02   0.389  0.69706
## f.22000.0.064  -3.619e-03  4.075e-02  -0.089  0.92923
## f.22000.0.065   8.461e-04  4.097e-02   0.021  0.98352
## f.22000.0.066  -4.939e-04  4.133e-02  -0.012  0.99047
## f.22000.0.067  -1.694e-02  4.094e-02  -0.414  0.67911
## f.22000.0.068   1.319e-02  4.083e-02   0.323  0.74668
## f.22000.0.069   2.284e-02  4.099e-02   0.557  0.57747
## f.22000.0.07   -2.556e-02  4.023e-02  -0.635  0.52522
## f.22000.0.0-7   5.550e-02  4.055e-02   1.369  0.17104
## f.22000.0.070  -1.486e-02  4.108e-02  -0.362  0.71744
## f.22000.0.071  -2.013e-02  4.082e-02  -0.493  0.62186
## f.22000.0.072   2.441e-03  4.109e-02   0.059  0.95263
## f.22000.0.073   8.946e-03  4.114e-02   0.217  0.82785
## f.22000.0.074   4.095e-02  4.121e-02   0.994  0.32032
## f.22000.0.075   7.371e-02  4.078e-02   1.808  0.07068 .
## f.22000.0.076   5.376e-02  4.122e-02   1.304  0.19212
## f.22000.0.077   2.285e-02  4.101e-02   0.557  0.57738
## f.22000.0.078  -3.707e-02  4.085e-02  -0.907  0.36417
## f.22000.0.079  -8.324e-03  4.067e-02  -0.205  0.83781
## f.22000.0.08    1.322e-03  4.014e-02   0.033  0.97373
## f.22000.0.0-8   2.574e-02  4.083e-02   0.630  0.52847
## f.22000.0.080   6.781e-02  4.115e-02   1.648  0.09935 .
## f.22000.0.081   2.095e-03  4.167e-02   0.050  0.95991
## f.22000.0.082  -1.959e-02  4.114e-02  -0.476  0.63406
## f.22000.0.083   1.797e-02  4.118e-02   0.436  0.66251
## f.22000.0.084   2.731e-02  4.119e-02   0.663  0.50724
## f.22000.0.085   3.246e-02  4.105e-02   0.791  0.42909
## f.22000.0.086  -1.107e-02  4.114e-02  -0.269  0.78783
## f.22000.0.087   3.237e-02  4.108e-02   0.788  0.43072
## f.22000.0.088   1.227e-02  4.192e-02   0.293  0.76974
## f.22000.0.089   1.085e-02  4.156e-02   0.261  0.79396
## f.22000.0.09   -2.152e-02  3.989e-02  -0.539  0.58956
## f.22000.0.0-9   5.891e-02  4.086e-02   1.442  0.14936
## f.22000.0.090   1.113e-02  4.121e-02   0.270  0.78714
## f.22000.0.091  -4.416e-02  4.250e-02  -1.039  0.29870
## f.22000.0.092   3.823e-02  4.121e-02   0.928  0.35351
## f.22000.0.093   3.453e-02  4.116e-02   0.839  0.40147
## f.22000.0.094   1.144e-03  5.262e-02   0.022  0.98266
## f.22000.0.095  -6.866e-03  4.393e-02  -0.156  0.87578
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9839 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03296,    Adjusted R-squared:  0.03191
## F-statistic: 31.45 on 128 and 118098 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmideation ~  `0.001000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.2200
9.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.001000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.0944 -0.5917 -0.4130  0.2718  5.1312
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.083e+01  7.408e-01 -55.121  < 2e-16 ***
## `0.001000`      1.525e-02  2.864e-03   5.326 1.00e-07 ***
## f.22009.0.1     8.457e-03  3.030e-03   2.792  0.00525 **
## f.22009.0.2    -1.125e-03  2.916e-03  -0.386  0.69967
## f.22009.0.3    -1.624e-03  2.991e-03  -0.543  0.58718
## f.22009.0.4    -8.605e-03  4.185e-03  -2.056  0.03978 *
## f.22009.0.5     3.778e-03  4.062e-03   0.930  0.35241
## f.22009.0.6     3.292e-04  2.959e-03   0.111  0.91143
## f.22009.0.7    -9.253e-03  3.032e-03  -3.052  0.00228 **
## f.22009.0.8     7.838e-03  3.198e-03   2.451  0.01425 *
## f.22009.0.9    -7.754e-03  3.052e-03  -2.541  0.01106 *
## f.22009.0.10    1.382e-03  3.541e-03   0.390  0.69641
## f.22009.0.11    1.564e-03  4.119e-03   0.380  0.70423
## f.22009.0.12    5.011e-03  3.619e-03   1.385  0.16612
## f.22009.0.13   -4.483e-03  2.912e-03  -1.540  0.12364
## f.22009.0.14   -1.637e-02  3.076e-03  -5.321 1.03e-07 ***
## f.22009.0.15   -1.529e-03  3.154e-03  -0.485  0.62776
## f.22009.0.16   -7.475e-03  3.089e-03  -2.420  0.01552 *
## f.22009.0.17   -1.918e-03  2.869e-03  -0.668  0.50384
## f.22009.0.18    4.655e-04  2.876e-03   0.162  0.87144
## f.22009.0.19    2.340e-03  2.864e-03   0.817  0.41388
## f.22009.0.20    6.586e-04  2.870e-03   0.229  0.81849
## f.22001.0.01   -1.225e-01  5.783e-03 -21.181  < 2e-16 ***
## f.34.0.0        2.094e-02  3.791e-04  55.235  < 2e-16 ***
## f.22000.0.0-1   2.940e-02  4.046e-02   0.727  0.46742
## f.22000.0.010  -3.118e-02  4.088e-02  -0.763  0.44561
## f.22000.0.0-10  8.344e-02  4.111e-02   2.030  0.04238 *
## f.22000.0.011   5.282e-02  4.020e-02   1.314  0.18891
## f.22000.0.0-11  4.814e-02  4.074e-02   1.181  0.23743
## f.22000.0.012   2.290e-02  4.047e-02   0.566  0.57157
## f.22000.0.013  -5.607e-03  4.032e-02  -0.139  0.88940
## f.22000.0.014   4.132e-02  4.005e-02   1.032  0.30227
## f.22000.0.015   4.102e-02  4.042e-02   1.015  0.31020
## f.22000.0.016   5.627e-02  4.056e-02   1.387  0.16536
## f.22000.0.017   4.437e-02  4.019e-02   1.104  0.26953
## f.22000.0.018  -2.410e-02  4.056e-02  -0.594  0.55242
## f.22000.0.019   8.496e-03  3.981e-02   0.213  0.83102
## f.22000.0.02    2.206e-03  3.996e-02   0.055  0.95597
## f.22000.0.0-2   7.914e-02  4.068e-02   1.945  0.05174 .
## f.22000.0.020   2.601e-03  4.049e-02   0.064  0.94878
## f.22000.0.021   2.561e-02  4.035e-02   0.635  0.52561
## f.22000.0.022   2.397e-02  4.036e-02   0.594  0.55249
## f.22000.0.023   1.761e-02  4.035e-02   0.436  0.66258
## f.22000.0.024   1.078e-02  3.982e-02   0.271  0.78664
## f.22000.0.025   5.130e-02  4.085e-02   1.256  0.20915
## f.22000.0.026  -3.925e-02  4.063e-02  -0.966  0.33405
## f.22000.0.027  -1.133e-03  3.999e-02  -0.028  0.97740
## f.22000.0.028   5.374e-03  4.040e-02   0.133  0.89418
## f.22000.0.029   2.101e-02  4.008e-02   0.524  0.60012
## f.22000.0.03    1.211e-02  4.003e-02   0.303  0.76225
## f.22000.0.0-3  -5.678e-03  4.023e-02  -0.141  0.88776
```

```
## f.22000.0.0-3  -5.678e-03  4.025e-02  -0.141  0.88770
## f.22000.0.030  -3.051e-02  4.007e-02  -0.761  0.44643
## f.22000.0.031  -4.624e-03  4.026e-02  -0.115  0.90856
## f.22000.0.032  -1.875e-02  4.036e-02  -0.465  0.64229
## f.22000.0.033   2.008e-02  4.111e-02   0.489  0.62511
## f.22000.0.034   2.591e-02  4.016e-02   0.645  0.51876
## f.22000.0.035   6.678e-02  4.027e-02   1.658  0.09723 .
## f.22000.0.036   1.327e-02  4.000e-02   0.332  0.74011
## f.22000.0.037  -4.670e-03  4.059e-02  -0.115  0.90841
## f.22000.0.038   5.925e-02  4.040e-02   1.466  0.14252
## f.22000.0.039   2.778e-02  4.088e-02   0.680  0.49677
## f.22000.0.04   -3.427e-03  4.072e-02  -0.084  0.93294
## f.22000.0.0-4   7.616e-02  4.098e-02   1.859  0.06308 .
## f.22000.0.040   4.193e-02  4.041e-02   1.038  0.29949
## f.22000.0.041   1.099e-02  4.094e-02   0.268  0.78845
## f.22000.0.042  -1.355e-02  4.020e-02  -0.337  0.73602
## f.22000.0.043  -3.539e-02  4.101e-02  -0.863  0.38817
## f.22000.0.044   6.647e-02  4.064e-02   1.636  0.10192
## f.22000.0.045   8.947e-03  4.055e-02   0.221  0.82539
## f.22000.0.046  -2.125e-02  4.076e-02  -0.521  0.60213
## f.22000.0.047  -9.157e-03  4.080e-02  -0.224  0.82242
## f.22000.0.048   6.723e-03  4.079e-02   0.165  0.86910
## f.22000.0.049   6.082e-02  4.074e-02   1.493  0.13551
## f.22000.0.05    8.102e-03  4.007e-02   0.202  0.83978
## f.22000.0.0-5   6.416e-02  4.049e-02   1.585  0.11304
## f.22000.0.050   4.648e-04  4.074e-02   0.011  0.99090
## f.22000.0.051   7.315e-02  4.022e-02   1.819  0.06898 .
## f.22000.0.052   2.536e-02  4.101e-02   0.618  0.53638
## f.22000.0.053  -1.243e-02  4.061e-02  -0.306  0.75956
## f.22000.0.054   7.024e-02  4.072e-02   1.725  0.08457 .
## f.22000.0.055   5.987e-02  4.114e-02   1.455  0.14561
## f.22000.0.056   4.070e-02  4.078e-02   0.998  0.31826
## f.22000.0.057   5.176e-02  4.090e-02   1.266  0.20568
## f.22000.0.058   2.771e-02  4.077e-02   0.680  0.49677
## f.22000.0.059   2.836e-02  4.059e-02   0.699  0.48472
## f.22000.0.06    7.391e-03  3.992e-02   0.185  0.85314
## f.22000.0.0-6   4.085e-02  4.087e-02   1.000  0.31747
## f.22000.0.060   6.829e-03  4.098e-02   0.167  0.86767
## f.22000.0.061   3.304e-02  4.118e-02   0.802  0.42237
## f.22000.0.062   3.998e-02  4.107e-02   0.973  0.33041
## f.22000.0.063   1.446e-02  4.105e-02   0.352  0.72465
## f.22000.0.064  -4.643e-03  4.076e-02  -0.114  0.90931
## f.22000.0.065  -1.447e-03  4.098e-02  -0.035  0.97184
## f.22000.0.066   3.523e-04  4.134e-02   0.009  0.99320
## f.22000.0.067  -1.710e-02  4.095e-02  -0.418  0.67622
## f.22000.0.068   1.258e-02  4.084e-02   0.308  0.75808
## f.22000.0.069   2.167e-02  4.100e-02   0.529  0.59712
## f.22000.0.07   -2.692e-02  4.023e-02  -0.669  0.50344
## f.22000.0.0-7   5.483e-02  4.056e-02   1.352  0.17637
## f.22000.0.070  -1.562e-02  4.108e-02  -0.380  0.70387
## f.22000.0.071  -1.973e-02  4.083e-02  -0.483  0.62901
## f.22000.0.072   2.028e-03  4.109e-02   0.049  0.96063
## f.22000.0.073   7.353e-03  4.115e-02   0.179  0.85818
## f.22000.0.074   4.044e-02  4.121e-02   0.981  0.32646
## f.22000.0.075   7.257e-02  4.079e-02   1.779  0.07520 .
## f.22000.0.076   5.327e-02  4.123e-02   1.292  0.19634
## f.22000.0.077   2.137e-02  4.102e-02   0.521  0.60240
## f.22000.0.078  -3.824e-02  4.086e-02  -0.936  0.34932
## f.22000.0.079  -8.383e-03  4.068e-02  -0.206  0.83671
## f.22000.0.08    9.350e-04  4.015e-02   0.023  0.98142
## f.22000.0.0-8   2.460e-02  4.084e-02   0.602  0.54689
## f.22000.0.080   6.650e-02  4.116e-02   1.616  0.10616
## f.22000.0.081   1.321e-03  4.168e-02   0.032  0.97472
## f.22000.0.082  -2.072e-02  4.115e-02  -0.503  0.61467
## f.22000.0.083   1.708e-02  4.119e-02   0.415  0.67845
## f.22000.0.084   2.738e-02  4.120e-02   0.665  0.50625
## f.22000.0.085   3.272e-02  4.106e-02   0.797  0.42559
## f.22000.0.086  -1.242e-02  4.114e-02  -0.302  0.76271
## f.22000.0.087   3.175e-02  4.109e-02   0.773  0.43976
## f.22000.0.088   1.097e-02  4.193e-02   0.262  0.79363
## f.22000.0.089   1.038e-02  4.157e-02   0.250  0.80285
## f.22000.0.09   -2.199e-02  3.990e-02  -0.551  0.58160
## f.22000.0.0-9   5.678e-02  4.087e-02   1.390  0.16468
```

```
## f.22000.0.090   9.665e-03  4.122e-02   0.234  0.81461
## f.22000.0.091  -4.497e-02  4.251e-02  -1.058  0.29002
## f.22000.0.092   3.792e-02  4.122e-02   0.920  0.35757
## f.22000.0.093   3.447e-02  4.117e-02   0.837  0.40245
## f.22000.0.094   7.604e-05  5.264e-02   0.001  0.99885
## f.22000.0.095  -8.595e-03  4.394e-02  -0.196  0.84490
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9841 on 118098 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03253,    Adjusted R-squared:  0.03148
## F-statistic: 31.02 on 128 and 118098 DF,  p-value: < 2.2e-16
```

Next, let's run the regression models for the selfharmscores

```
# Self harm score

#model with only covariates
summary(lm(selfharmscore ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0.5 + f.22009.0
.6 +
             f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0+ f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1254 -0.6190 -0.4348  0.4553  4.2056
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.408e-01 -54.339  < 2e-16 ***
## f.22009.0.1     9.940e-03  3.029e-03   3.281  0.00103 **
## f.22009.0.2    -3.375e-03  2.915e-03  -1.158  0.24702
## f.22009.0.3    -1.797e-03  2.991e-03  -0.601  0.54799
## f.22009.0.4    -7.563e-03  4.185e-03  -1.807  0.07075 .
## f.22009.0.5     3.459e-03  4.062e-03   0.851  0.39453
## f.22009.0.6     3.473e-04  2.959e-03   0.117  0.90656
## f.22009.0.7    -9.027e-03  3.032e-03  -2.977  0.00291 **
## f.22009.0.8     7.027e-03  3.198e-03   2.198  0.02797 *
## f.22009.0.9    -9.092e-03  3.051e-03  -2.980  0.00289 **
## f.22009.0.10    2.606e-03  3.541e-03   0.736  0.46178
## f.22009.0.11    4.000e-04  4.119e-03   0.097  0.92264
## f.22009.0.12    2.804e-03  3.618e-03   0.775  0.43840
## f.22009.0.13   -3.138e-03  2.911e-03  -1.078  0.28101
## f.22009.0.14   -1.700e-02  3.076e-03  -5.526 3.29e-08 ***
## f.22009.0.15   -1.371e-03  3.153e-03  -0.435  0.66378
## f.22009.0.16   -9.931e-03  3.089e-03  -3.215  0.00130 **
## f.22009.0.17   -8.809e-05  2.869e-03  -0.031  0.97551
## f.22009.0.18   -2.160e-04  2.876e-03  -0.075  0.94014
## f.22009.0.19    2.542e-03  2.864e-03   0.888  0.37473
## f.22009.0.20    3.136e-03  2.869e-03   1.093  0.27438
## f.22001.0.01   -1.498e-01  5.783e-03 -25.908  < 2e-16 ***
## f.34.0.0        2.065e-02  3.791e-04  54.482  < 2e-16 ***
## f.22000.0.0-1   3.600e-02  4.044e-02   0.890  0.37331
## f.22000.0.010  -3.732e-02  4.085e-02  -0.914  0.36094
## f.22000.0.0-10  7.892e-02  4.108e-02   1.921  0.05469 .
## f.22000.0.011   5.803e-02  4.018e-02   1.444  0.14872
## f.22000.0.0-11  2.783e-02  4.074e-02   0.683  0.49454
## f.22000.0.012  -8.058e-03  4.049e-02  -0.199  0.84225
## f.22000.0.013  -1.872e-02  4.029e-02  -0.465  0.64227
## f.22000.0.014   1.003e-02  4.005e-02   0.250  0.80228
## f.22000.0.015   3.353e-02  4.039e-02   0.830  0.40648
```

```
## f.22000.0.016   4.611e-02  4.053e-02   1.138  0.25531
## f.22000.0.017   2.208e-02  4.017e-02   0.550  0.58245
## f.22000.0.018  -3.072e-02  4.053e-02  -0.758  0.44845
## f.22000.0.019  -4.010e-03  3.979e-02  -0.101  0.91973
## f.22000.0.02   -1.773e-02  3.995e-02  -0.444  0.65714
## f.22000.0.0-2   7.889e-02  4.067e-02   1.940  0.05242 .
## f.22000.0.020  -1.234e-02  4.048e-02  -0.305  0.76052
## f.22000.0.021   3.448e-02  4.033e-02   0.855  0.39264
## f.22000.0.022   5.414e-03  4.034e-02   0.134  0.89322
## f.22000.0.023  -3.756e-03  4.036e-02  -0.093  0.92585
## f.22000.0.024   6.657e-03  3.980e-02   0.167  0.86717
## f.22000.0.025   2.653e-02  4.085e-02   0.649  0.51605
## f.22000.0.026  -5.317e-02  4.062e-02  -1.309  0.19052
## f.22000.0.027  -2.012e-02  3.997e-02  -0.503  0.61479
## f.22000.0.028   2.922e-03  4.040e-02   0.072  0.94234
## f.22000.0.029  -1.419e-03  4.007e-02  -0.035  0.97175
## f.22000.0.03    4.683e-03  4.002e-02   0.117  0.90685
## f.22000.0.0-3   9.608e-04  4.022e-02   0.024  0.98094
## f.22000.0.030  -3.743e-02  4.006e-02  -0.935  0.35003
## f.22000.0.031  -2.323e-02  4.025e-02  -0.577  0.56379
## f.22000.0.032  -1.987e-02  4.034e-02  -0.493  0.62230
## f.22000.0.033   1.015e-03  4.109e-02   0.025  0.98029
## f.22000.0.034   3.237e-02  4.013e-02   0.807  0.41994
## f.22000.0.035   5.078e-02  4.028e-02   1.261  0.20741
## f.22000.0.036   6.573e-03  3.998e-02   0.164  0.86940
## f.22000.0.037  -2.072e-02  4.057e-02  -0.511  0.60961
## f.22000.0.038   4.118e-02  4.038e-02   1.020  0.30785
## f.22000.0.039   1.274e-02  4.085e-02   0.312  0.75502
## f.22000.0.04   -7.238e-03  4.069e-02  -0.178  0.85883
## f.22000.0.0-4   5.668e-02  4.095e-02   1.384  0.16632
## f.22000.0.040   5.808e-03  4.041e-02   0.144  0.88570
## f.22000.0.041   8.271e-04  4.092e-02   0.020  0.98388
## f.22000.0.042  -3.506e-02  4.019e-02  -0.872  0.38307
## f.22000.0.043  -3.328e-02  4.098e-02  -0.812  0.41664
## f.22000.0.044   5.655e-02  4.062e-02   1.392  0.16383
## f.22000.0.045  -1.145e-03  4.053e-02  -0.028  0.97746
## f.22000.0.046  -3.715e-02  4.073e-02  -0.912  0.36179
## f.22000.0.047  -2.068e-02  4.079e-02  -0.507  0.61214
## f.22000.0.048  -1.616e-02  4.077e-02  -0.396  0.69178
## f.22000.0.049   4.799e-02  4.071e-02   1.179  0.23854
## f.22000.0.05   -9.926e-03  4.006e-02  -0.248  0.80432
## f.22000.0.0-5   7.353e-02  4.049e-02   1.816  0.06936 .
## f.22000.0.050   6.532e-04  4.071e-02   0.016  0.98720
## f.22000.0.051   7.041e-02  4.021e-02   1.751  0.07996 .
## f.22000.0.052   1.109e-03  4.100e-02   0.027  0.97842
## f.22000.0.053  -1.654e-02  4.063e-02  -0.407  0.68387
## f.22000.0.054   6.036e-02  4.069e-02   1.483  0.13801
## f.22000.0.055   5.770e-02  4.114e-02   1.403  0.16075
## f.22000.0.056   3.596e-02  4.076e-02   0.882  0.37763
## f.22000.0.057   4.647e-02  4.088e-02   1.137  0.25567
## f.22000.0.058   1.318e-02  4.076e-02   0.323  0.74648
## f.22000.0.059   1.190e-02  4.059e-02   0.293  0.76941
## f.22000.0.06    8.346e-03  3.990e-02   0.209  0.83433
## f.22000.0.0-6   4.236e-02  4.084e-02   1.037  0.29964
## f.22000.0.060  -2.752e-02  4.097e-02  -0.672  0.50181
## f.22000.0.061   1.510e-02  4.115e-02   0.367  0.71365
## f.22000.0.062   2.917e-02  4.105e-02   0.711  0.47732
## f.22000.0.063  -1.057e-04  4.103e-02  -0.003  0.99795
## f.22000.0.064  -1.692e-02  4.074e-02  -0.415  0.67788
## f.22000.0.065  -1.762e-02  4.096e-02  -0.430  0.66699
## f.22000.0.066  -1.155e-02  4.132e-02  -0.279  0.77992
## f.22000.0.067  -2.321e-02  4.093e-02  -0.567  0.57074
## f.22000.0.068   7.430e-03  4.083e-02   0.182  0.85560
## f.22000.0.069   1.713e-03  4.098e-02   0.042  0.96666
## f.22000.0.07   -3.639e-02  4.021e-02  -0.905  0.36551
## f.22000.0.0-7   4.650e-02  4.054e-02   1.147  0.25145
## f.22000.0.070  -1.872e-02  4.107e-02  -0.456  0.64854
## f.22000.0.071  -9.877e-03  4.080e-02  -0.242  0.80872
## f.22000.0.072  -6.156e-03  4.107e-02  -0.150  0.88086
## f.22000.0.073  -5.685e-03  4.114e-02  -0.138  0.89009
## f.22000.0.074   3.498e-02  4.121e-02   0.849  0.39588
## f.22000.0.075   6.266e-02  4.078e-02   1.537  0.12440
## f.22000.0.076   3.648e-02  4.121e-02   0.885  0.37605
```

```
## f.22000.0.076   5.648e-02  4.121e-02   0.885  0.37605
## f.22000.0.077   5.686e-03  4.102e-02   0.139  0.88976
## f.22000.0.078  -5.202e-02  4.085e-02  -1.274  0.20281
## f.22000.0.079  -1.660e-02  4.069e-02  -0.408  0.68331
## f.22000.0.08   -9.828e-03  4.013e-02  -0.245  0.80655
## f.22000.0.0-8   2.140e-02  4.086e-02   0.524  0.60046
## f.22000.0.080   3.614e-02  4.117e-02   0.878  0.38005
## f.22000.0.081   1.838e-03  4.167e-02   0.044  0.96481
## f.22000.0.082  -4.167e-02  4.112e-02  -1.013  0.31089
## f.22000.0.083  -1.904e-03  4.118e-02  -0.046  0.96313
## f.22000.0.084   2.274e-02  4.118e-02   0.552  0.58072
## f.22000.0.085   3.874e-02  4.105e-02   0.944  0.34530
## f.22000.0.086  -2.274e-02  4.113e-02  -0.553  0.58040
## f.22000.0.087   4.044e-02  4.108e-02   0.984  0.32501
## f.22000.0.088   4.534e-03  4.191e-02   0.108  0.91386
## f.22000.0.089   2.728e-03  4.154e-02   0.066  0.94763
## f.22000.0.09   -1.050e-02  3.988e-02  -0.263  0.79227
## f.22000.0.0-9   6.573e-02  4.087e-02   1.608  0.10777
## f.22000.0.090  -4.394e-03  4.119e-02  -0.107  0.91504
## f.22000.0.091  -4.115e-02  4.251e-02  -0.968  0.33304
## f.22000.0.092   2.313e-02  4.120e-02   0.561  0.57455
## f.22000.0.093   1.172e-02  4.116e-02   0.285  0.77591
## f.22000.0.094   1.594e-03  5.260e-02   0.030  0.97583
## f.22000.0.095  -1.780e-02  4.390e-02  -0.405  0.68523
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9834 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03391,    Adjusted R-squared:  0.03286
## F-statistic: 32.59 on 127 and 117941 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1593 -0.6199 -0.4331  0.4518  4.2281
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.023e+01  7.403e-01 -54.352  < 2e-16 ***
## `1.000000`      3.608e-02  2.864e-03  12.597  < 2e-16 ***
## f.22009.0.1     9.645e-03  3.027e-03   3.186  0.00144 **
## f.22009.0.2    -3.307e-03  2.913e-03  -1.135  0.25635
## f.22009.0.3    -1.681e-03  2.989e-03  -0.562  0.57392
## f.22009.0.4    -7.624e-03  4.182e-03  -1.823  0.06832 .
## f.22009.0.5     2.501e-03  4.060e-03   0.616  0.53788
## f.22009.0.6     2.068e-04  2.957e-03   0.070  0.94424
## f.22009.0.7    -8.640e-03  3.030e-03  -2.851  0.00436 **
## f.22009.0.8     7.080e-03  3.195e-03   2.216  0.02671 *
## f.22009.0.9    -9.085e-03  3.049e-03  -2.979  0.00289 **
## f.22009.0.10    2.756e-03  3.539e-03   0.779  0.43615
## f.22009.0.11   -1.655e-04  4.117e-03  -0.040  0.96794
## f.22009.0.12    2.707e-03  3.616e-03   0.749  0.45415
## f.22009.0.13   -3.175e-03  2.909e-03  -1.091  0.27508
## f.22009.0.14   -1.649e-02  3.074e-03  -5.363 8.19e-08 ***
## f.22009.0.15   -1.365e-03  3.151e-03  -0.433  0.66483
## f.22009.0.16   -9.936e-03  3.087e-03  -3.219  0.00129 **
## f.22009.0.17    1.301e-05  2.867e-03   0.005  0.99638
```

```
## f.22009.0.18   -1.366e-04  2.874e-03  -0.048  0.96209
## f.22009.0.19    2.342e-03  2.862e-03   0.818  0.41317
## f.22009.0.20    2.796e-03  2.867e-03   0.975  0.32949
## f.22001.0.01   -1.491e-01  5.779e-03 -25.800  < 2e-16 ***
## f.34.0.0        2.064e-02  3.788e-04  54.494  < 2e-16 ***
## f.22000.0.0-1   3.615e-02  4.041e-02   0.894  0.37106
## f.22000.0.010  -3.726e-02  4.082e-02  -0.913  0.36139
## f.22000.0.0-10  8.056e-02  4.105e-02   1.963  0.04970 *
## f.22000.0.011   5.785e-02  4.016e-02   1.441  0.14971
## f.22000.0.0-11  2.765e-02  4.072e-02   0.679  0.49701
## f.22000.0.012  -7.531e-03  4.046e-02  -0.186  0.85234
## f.22000.0.013  -1.710e-02  4.026e-02  -0.425  0.67108
## f.22000.0.014   1.107e-02  4.002e-02   0.277  0.78200
## f.22000.0.015   3.343e-02  4.036e-02   0.828  0.40749
## f.22000.0.016   4.684e-02  4.051e-02   1.156  0.24750
## f.22000.0.017   2.115e-02  4.014e-02   0.527  0.59821
## f.22000.0.018  -3.105e-02  4.050e-02  -0.767  0.44328
## f.22000.0.019  -2.134e-03  3.977e-02  -0.054  0.95720
## f.22000.0.02   -1.854e-02  3.992e-02  -0.464  0.64242
## f.22000.0.0-2   7.867e-02  4.065e-02   1.935  0.05294 .
## f.22000.0.020  -1.146e-02  4.045e-02  -0.283  0.77703
## f.22000.0.021   3.453e-02  4.031e-02   0.857  0.39160
## f.22000.0.022   5.658e-03  4.031e-02   0.140  0.88837
## f.22000.0.023  -3.406e-03  4.033e-02  -0.084  0.93270
## f.22000.0.024   7.592e-03  3.977e-02   0.191  0.84862
## f.22000.0.025   2.659e-02  4.082e-02   0.651  0.51481
## f.22000.0.026  -5.113e-02  4.059e-02  -1.260  0.20777
## f.22000.0.027  -1.977e-02  3.995e-02  -0.495  0.62073
## f.22000.0.028   4.011e-03  4.037e-02   0.099  0.92087
## f.22000.0.029  -1.638e-03  4.004e-02  -0.041  0.96736
## f.22000.0.03    5.553e-03  4.000e-02   0.139  0.88957
## f.22000.0.0-3   5.259e-04  4.019e-02   0.013  0.98956
## f.22000.0.030  -3.810e-02  4.003e-02  -0.952  0.34116
## f.22000.0.031  -2.450e-02  4.022e-02  -0.609  0.54242
## f.22000.0.032  -2.013e-02  4.032e-02  -0.499  0.61750
## f.22000.0.033   4.099e-04  4.106e-02   0.010  0.99203
## f.22000.0.034   3.257e-02  4.010e-02   0.812  0.41678
## f.22000.0.035   5.147e-02  4.025e-02   1.279  0.20105
## f.22000.0.036   6.537e-03  3.995e-02   0.164  0.87003
## f.22000.0.037  -1.962e-02  4.055e-02  -0.484  0.62852
## f.22000.0.038   4.210e-02  4.035e-02   1.043  0.29684
## f.22000.0.039   1.163e-02  4.082e-02   0.285  0.77579
## f.22000.0.04   -7.293e-03  4.067e-02  -0.179  0.85767
## f.22000.0.0-4   5.626e-02  4.092e-02   1.375  0.16916
## f.22000.0.040   6.887e-03  4.038e-02   0.171  0.86457
## f.22000.0.041   2.030e-03  4.090e-02   0.050  0.96041
## f.22000.0.042  -3.543e-02  4.017e-02  -0.882  0.37770
## f.22000.0.043  -3.305e-02  4.095e-02  -0.807  0.41965
## f.22000.0.044   5.791e-02  4.059e-02   1.427  0.15371
## f.22000.0.045  -2.802e-03  4.050e-02  -0.069  0.94484
## f.22000.0.046  -3.961e-02  4.070e-02  -0.973  0.33053
## f.22000.0.047  -1.859e-02  4.076e-02  -0.456  0.64840
## f.22000.0.048  -1.415e-02  4.074e-02  -0.347  0.72843
## f.22000.0.049   4.954e-02  4.069e-02   1.218  0.22340
## f.22000.0.05   -8.526e-03  4.004e-02  -0.213  0.83137
## f.22000.0.0-5   7.599e-02  4.046e-02   1.878  0.06039 .
## f.22000.0.050   2.319e-03  4.068e-02   0.057  0.95455
## f.22000.0.051   7.161e-02  4.019e-02   1.782  0.07476 .
## f.22000.0.052   2.766e-03  4.098e-02   0.068  0.94618
## f.22000.0.053  -1.630e-02  4.060e-02  -0.401  0.68805
## f.22000.0.054   6.017e-02  4.067e-02   1.480  0.13900
## f.22000.0.055   5.685e-02  4.111e-02   1.383  0.16667
## f.22000.0.056   3.767e-02  4.073e-02   0.925  0.35509
## f.22000.0.057   4.652e-02  4.085e-02   1.139  0.25481
## f.22000.0.058   1.388e-02  4.073e-02   0.341  0.73324
## f.22000.0.059   1.179e-02  4.056e-02   0.291  0.77138
## f.22000.0.06    8.191e-03  3.988e-02   0.205  0.83727
## f.22000.0.0-6   4.134e-02  4.081e-02   1.013  0.31102
## f.22000.0.060  -2.628e-02  4.095e-02  -0.642  0.52101
## f.22000.0.061   1.509e-02  4.113e-02   0.367  0.71373
## f.22000.0.062   2.792e-02  4.103e-02   0.680  0.49621
## f.22000.0.063   2.795e-04  4.101e-02   0.007  0.99456
## f.22000.0.064  -1.616e-02  4.071e-02  -0.397  0.69142
```

```
## f.22000.0.064  -1.618e-02  4.071e-02  -0.397  0.69142
## f.22000.0.065  -1.690e-02  4.093e-02  -0.413  0.67970
## f.22000.0.066  -1.004e-02  4.129e-02  -0.243  0.80798
## f.22000.0.067  -2.236e-02  4.091e-02  -0.547  0.58471
## f.22000.0.068   7.792e-03  4.080e-02   0.191  0.84853
## f.22000.0.069   2.786e-03  4.096e-02   0.068  0.94576
## f.22000.0.07   -3.568e-02  4.019e-02  -0.888  0.37466
## f.22000.0.0-7   4.838e-02  4.052e-02   1.194  0.23251
## f.22000.0.070  -1.931e-02  4.104e-02  -0.470  0.63804
## f.22000.0.071  -1.134e-02  4.077e-02  -0.278  0.78084
## f.22000.0.072  -7.885e-03  4.105e-02  -0.192  0.84767
## f.22000.0.073  -4.240e-03  4.111e-02  -0.103  0.91786
## f.22000.0.074   3.521e-02  4.118e-02   0.855  0.39256
## f.22000.0.075   6.187e-02  4.075e-02   1.518  0.12894
## f.22000.0.076   3.509e-02  4.118e-02   0.852  0.39410
## f.22000.0.077   7.270e-03  4.100e-02   0.177  0.85925
## f.22000.0.078  -4.990e-02  4.082e-02  -1.222  0.22157
## f.22000.0.079  -1.845e-02  4.067e-02  -0.454  0.65000
## f.22000.0.08   -1.157e-02  4.011e-02  -0.288  0.77306
## f.22000.0.0-8   2.231e-02  4.083e-02   0.547  0.58472
## f.22000.0.080   3.681e-02  4.114e-02   0.895  0.37092
## f.22000.0.081   2.046e-03  4.164e-02   0.049  0.96081
## f.22000.0.082  -4.311e-02  4.110e-02  -1.049  0.29420
## f.22000.0.083  -1.012e-03  4.115e-02  -0.025  0.98038
## f.22000.0.084   2.114e-02  4.115e-02   0.514  0.60751
## f.22000.0.085   3.674e-02  4.103e-02   0.895  0.37054
## f.22000.0.086  -2.232e-02  4.111e-02  -0.543  0.58720
## f.22000.0.087   4.000e-02  4.106e-02   0.974  0.32989
## f.22000.0.088   4.736e-03  4.189e-02   0.113  0.90997
## f.22000.0.089   1.424e-03  4.151e-02   0.034  0.97263
## f.22000.0.09   -9.670e-03  3.985e-02  -0.243  0.80828
## f.22000.0.0-9   6.688e-02  4.084e-02   1.638  0.10150
## f.22000.0.090  -3.920e-03  4.116e-02  -0.095  0.92413
## f.22000.0.091  -3.979e-02  4.248e-02  -0.937  0.34898
## f.22000.0.092   2.157e-02  4.117e-02   0.524  0.60025
## f.22000.0.093   1.113e-02  4.113e-02   0.271  0.78674
## f.22000.0.094   4.049e-03  5.256e-02   0.077  0.93860
## f.22000.0.095  -1.784e-02  4.388e-02  -0.407  0.68432
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.0352, Adjusted R-squared:  0.03416
## F-statistic: 33.62 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.750000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1606 -0.6198 -0.4331  0.4518  4.2273
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.023e+01  7.403e-01 -54.352  < 2e-16 ***
## `0.750000`      3.631e-02  2.864e-03  12.676  < 2e-16 ***
## f.22009.0.1     9.642e-03  3.027e-03   3.185  0.00145 **
## f.22009.0.2    -3.296e-03  2.913e-03  -1.131  0.25793
## f.22009.0.3    -1.670e-03  2.989e-03  -0.559  0.57623
```

```
## f.22009.0.4    -7.623e-03  4.182e-03  -1.823  0.06834 .
## f.22009.0.5     2.488e-03  4.060e-03   0.613  0.54009
## f.22009.0.6     2.077e-04  2.957e-03   0.070  0.94401
## f.22009.0.7    -8.639e-03  3.030e-03  -2.851  0.00436 **
## f.22009.0.8     7.087e-03  3.195e-03   2.218  0.02657 *
## f.22009.0.9    -9.088e-03  3.049e-03  -2.980  0.00288 **
## f.22009.0.10    2.766e-03  3.539e-03   0.782  0.43449
## f.22009.0.11   -1.650e-04  4.117e-03  -0.040  0.96803
## f.22009.0.12    2.701e-03  3.616e-03   0.747  0.45512
## f.22009.0.13   -3.176e-03  2.909e-03  -1.092  0.27492
## f.22009.0.14   -1.650e-02  3.074e-03  -5.367 8.01e-08 ***
## f.22009.0.15   -1.367e-03  3.151e-03  -0.434  0.66447
## f.22009.0.16   -9.939e-03  3.087e-03  -3.220  0.00128 **
## f.22009.0.17    2.633e-05  2.867e-03   0.009  0.99267
## f.22009.0.18   -1.369e-04  2.874e-03  -0.048  0.96201
## f.22009.0.19    2.349e-03  2.862e-03   0.821  0.41181
## f.22009.0.20    2.783e-03  2.867e-03   0.971  0.33162
## f.22001.0.01   -1.491e-01  5.779e-03 -25.800  < 2e-16 ***
## f.34.0.0        2.064e-02  3.788e-04  54.494  < 2e-16 ***
## f.22000.0.0-1   3.617e-02  4.041e-02   0.895  0.37079
## f.22000.0.010  -3.724e-02  4.082e-02  -0.912  0.36162
## f.22000.0.0-10  8.057e-02  4.105e-02   1.963  0.04968 *
## f.22000.0.011   5.788e-02  4.016e-02   1.441  0.14945
## f.22000.0.0-11  2.766e-02  4.071e-02   0.679  0.49693
## f.22000.0.012  -7.563e-03  4.046e-02  -0.187  0.85171
## f.22000.0.013  -1.714e-02  4.026e-02  -0.426  0.67031
## f.22000.0.014   1.108e-02  4.002e-02   0.277  0.78190
## f.22000.0.015   3.342e-02  4.036e-02   0.828  0.40774
## f.22000.0.016   4.682e-02  4.051e-02   1.156  0.24770
## f.22000.0.017   2.113e-02  4.014e-02   0.526  0.59857
## f.22000.0.018  -3.101e-02  4.050e-02  -0.766  0.44390
## f.22000.0.019  -2.126e-03  3.977e-02  -0.053  0.95736
## f.22000.0.02   -1.852e-02  3.992e-02  -0.464  0.64270
## f.22000.0.0-2   7.861e-02  4.065e-02   1.934  0.05310 .
## f.22000.0.020  -1.154e-02  4.045e-02  -0.285  0.77546
## f.22000.0.021   3.451e-02  4.031e-02   0.856  0.39189
## f.22000.0.022   5.624e-03  4.031e-02   0.140  0.88903
## f.22000.0.023  -3.426e-03  4.033e-02  -0.085  0.93231
## f.22000.0.024   7.570e-03  3.977e-02   0.190  0.84906
## f.22000.0.025   2.658e-02  4.082e-02   0.651  0.51502
## f.22000.0.026  -5.113e-02  4.059e-02  -1.260  0.20785
## f.22000.0.027  -1.981e-02  3.995e-02  -0.496  0.61991
## f.22000.0.028   4.012e-03  4.037e-02   0.099  0.92084
## f.22000.0.029  -1.646e-03  4.004e-02  -0.041  0.96721
## f.22000.0.03    5.539e-03  4.000e-02   0.138  0.88985
## f.22000.0.0-3   4.657e-04  4.019e-02   0.012  0.99076
## f.22000.0.030  -3.807e-02  4.003e-02  -0.951  0.34155
## f.22000.0.031  -2.443e-02  4.022e-02  -0.607  0.54363
## f.22000.0.032  -2.016e-02  4.032e-02  -0.500  0.61703
## f.22000.0.033   4.626e-04  4.106e-02   0.011  0.99101
## f.22000.0.034   3.254e-02  4.010e-02   0.812  0.41708
## f.22000.0.035   5.154e-02  4.025e-02   1.280  0.20042
## f.22000.0.036   6.447e-03  3.995e-02   0.161  0.87180
## f.22000.0.037  -1.960e-02  4.055e-02  -0.483  0.62888
## f.22000.0.038   4.217e-02  4.035e-02   1.045  0.29597
## f.22000.0.039   1.165e-02  4.082e-02   0.286  0.77525
## f.22000.0.04   -7.267e-03  4.067e-02  -0.179  0.85817
## f.22000.0.0-4   5.626e-02  4.092e-02   1.375  0.16915
## f.22000.0.040   6.825e-03  4.038e-02   0.169  0.86578
## f.22000.0.041   2.006e-03  4.090e-02   0.049  0.96088
## f.22000.0.042  -3.541e-02  4.017e-02  -0.882  0.37803
## f.22000.0.043  -3.302e-02  4.095e-02  -0.806  0.41998
## f.22000.0.044   5.790e-02  4.059e-02   1.426  0.15373
## f.22000.0.045  -2.843e-03  4.050e-02  -0.070  0.94404
## f.22000.0.046  -3.964e-02  4.070e-02  -0.974  0.33016
## f.22000.0.047  -1.863e-02  4.076e-02  -0.457  0.64757
## f.22000.0.048  -1.413e-02  4.074e-02  -0.347  0.72880
## f.22000.0.049   4.950e-02  4.069e-02   1.217  0.22379
## f.22000.0.05   -8.482e-03  4.004e-02  -0.212  0.83221
## f.22000.0.0-5   7.602e-02  4.046e-02   1.879  0.06027 .
## f.22000.0.050   2.305e-03  4.068e-02   0.057  0.95482
## f.22000.0.051   7.156e-02  4.019e-02   1.781  0.07496 .
## f.22000.0.052   2.819e-03  4.098e-02   0.069  0.94516
```

```
## f.22000.0.052   2.819e-03  4.098e-02   0.069  0.94516
## f.22000.0.053  -1.631e-02  4.060e-02  -0.402  0.68792
## f.22000.0.054   6.014e-02  4.067e-02   1.479  0.13917
## f.22000.0.055   5.681e-02  4.111e-02   1.382  0.16697
## f.22000.0.056   3.764e-02  4.073e-02   0.924  0.35545
## f.22000.0.057   4.646e-02  4.085e-02   1.137  0.25543
## f.22000.0.058   1.382e-02  4.073e-02   0.339  0.73441
## f.22000.0.059   1.181e-02  4.056e-02   0.291  0.77093
## f.22000.0.06    8.221e-03  3.988e-02   0.206  0.83667
## f.22000.0.0-6   4.136e-02  4.081e-02   1.014  0.31079
## f.22000.0.060  -2.627e-02  4.095e-02  -0.642  0.52115
## f.22000.0.061   1.503e-02  4.113e-02   0.365  0.71484
## f.22000.0.062   2.783e-02  4.103e-02   0.678  0.49756
## f.22000.0.063   2.868e-04  4.101e-02   0.007  0.99442
## f.22000.0.064  -1.611e-02  4.071e-02  -0.396  0.69226
## f.22000.0.065  -1.694e-02  4.093e-02  -0.414  0.67887
## f.22000.0.066  -9.979e-03  4.129e-02  -0.242  0.80904
## f.22000.0.067  -2.234e-02  4.091e-02  -0.546  0.58494
## f.22000.0.068   7.807e-03  4.080e-02   0.191  0.84825
## f.22000.0.069   2.797e-03  4.096e-02   0.068  0.94555
## f.22000.0.07   -3.565e-02  4.019e-02  -0.887  0.37509
## f.22000.0.0-7   4.839e-02  4.052e-02   1.194  0.23237
## f.22000.0.070  -1.932e-02  4.104e-02  -0.471  0.63783
## f.22000.0.071  -1.133e-02  4.077e-02  -0.278  0.78107
## f.22000.0.072  -7.880e-03  4.105e-02  -0.192  0.84776
## f.22000.0.073  -4.176e-03  4.111e-02  -0.102  0.91908
## f.22000.0.074   3.525e-02  4.118e-02   0.856  0.39204
## f.22000.0.075   6.190e-02  4.075e-02   1.519  0.12878
## f.22000.0.076   3.509e-02  4.118e-02   0.852  0.39411
## f.22000.0.077   7.248e-03  4.100e-02   0.177  0.85967
## f.22000.0.078  -4.990e-02  4.082e-02  -1.222  0.22154
## f.22000.0.079  -1.844e-02  4.067e-02  -0.453  0.65023
## f.22000.0.08   -1.163e-02  4.011e-02  -0.290  0.77192
## f.22000.0.0-8   2.233e-02  4.083e-02   0.547  0.58449
## f.22000.0.080   3.677e-02  4.114e-02   0.894  0.37149
## f.22000.0.081   2.116e-03  4.164e-02   0.051  0.95948
## f.22000.0.082  -4.310e-02  4.110e-02  -1.049  0.29426
## f.22000.0.083  -1.008e-03  4.115e-02  -0.025  0.98045
## f.22000.0.084   2.120e-02  4.115e-02   0.515  0.60642
## f.22000.0.085   3.673e-02  4.103e-02   0.895  0.37062
## f.22000.0.086  -2.229e-02  4.111e-02  -0.542  0.58768
## f.22000.0.087   4.001e-02  4.106e-02   0.975  0.32981
## f.22000.0.088   4.749e-03  4.189e-02   0.113  0.90974
## f.22000.0.089   1.390e-03  4.151e-02   0.033  0.97329
## f.22000.0.09   -9.749e-03  3.985e-02  -0.245  0.80675
## f.22000.0.0-9   6.690e-02  4.084e-02   1.638  0.10141
## f.22000.0.090  -3.871e-03  4.116e-02  -0.094  0.92508
## f.22000.0.091  -3.973e-02  4.248e-02  -0.935  0.34972
## f.22000.0.092   2.155e-02  4.117e-02   0.524  0.60061
## f.22000.0.093   1.113e-02  4.113e-02   0.271  0.78676
## f.22000.0.094   4.055e-03  5.256e-02   0.077  0.93851
## f.22000.0.095  -1.784e-02  4.387e-02  -0.407  0.68428
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03522,    Adjusted R-squared:  0.03417
## F-statistic: 33.64 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.500000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.500000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
```

```
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1613 -0.6198 -0.4332  0.4516  4.2284
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.024e+01  7.403e-01 -54.357  < 2e-16 ***
## `0.500000`      3.613e-02  2.864e-03  12.612  < 2e-16 ***
## f.22009.0.1     9.636e-03  3.027e-03   3.183  0.00146 **
## f.22009.0.2    -3.291e-03  2.913e-03  -1.130  0.25867
## f.22009.0.3    -1.681e-03  2.989e-03  -0.563  0.57373
## f.22009.0.4    -7.636e-03  4.182e-03  -1.826  0.06790 .
## f.22009.0.5     2.553e-03  4.060e-03   0.629  0.52947
## f.22009.0.6     2.025e-04  2.957e-03   0.068  0.94540
## f.22009.0.7    -8.656e-03  3.030e-03  -2.856  0.00429 **
## f.22009.0.8     7.080e-03  3.195e-03   2.216  0.02671 *
## f.22009.0.9    -9.063e-03  3.049e-03  -2.972  0.00296 **
## f.22009.0.10    2.747e-03  3.539e-03   0.776  0.43764
## f.22009.0.11   -1.194e-04  4.117e-03  -0.029  0.97685
## f.22009.0.12    2.683e-03  3.616e-03   0.742  0.45811
## f.22009.0.13   -3.173e-03  2.909e-03  -1.091  0.27546
## f.22009.0.14   -1.654e-02  3.074e-03  -5.381 7.42e-08 ***
## f.22009.0.15   -1.372e-03  3.151e-03  -0.435  0.66332
## f.22009.0.16   -9.938e-03  3.087e-03  -3.220  0.00128 **
## f.22009.0.17    1.808e-05  2.867e-03   0.006  0.99497
## f.22009.0.18   -1.423e-04  2.874e-03  -0.050  0.96051
## f.22009.0.19    2.365e-03  2.862e-03   0.826  0.40853
## f.22009.0.20    2.780e-03  2.867e-03   0.970  0.33216
## f.22001.0.01   -1.491e-01  5.779e-03 -25.798  < 2e-16 ***
## f.34.0.0        2.064e-02  3.788e-04  54.499  < 2e-16 ***
## f.22000.0.0-1   3.633e-02  4.041e-02   0.899  0.36864
## f.22000.0.010  -3.719e-02  4.082e-02  -0.911  0.36230
## f.22000.0.0-10  8.059e-02  4.105e-02   1.963  0.04961 *
## f.22000.0.011   5.820e-02  4.016e-02   1.449  0.14726
## f.22000.0.0-11  2.775e-02  4.072e-02   0.681  0.49556
## f.22000.0.012  -7.415e-03  4.046e-02  -0.183  0.85459
## f.22000.0.013  -1.694e-02  4.026e-02  -0.421  0.67395
## f.22000.0.014   1.128e-02  4.002e-02   0.282  0.77801
## f.22000.0.015   3.364e-02  4.036e-02   0.833  0.40459
## f.22000.0.016   4.696e-02  4.051e-02   1.159  0.24635
## f.22000.0.017   2.119e-02  4.014e-02   0.528  0.59756
## f.22000.0.018  -3.098e-02  4.050e-02  -0.765  0.44436
## f.22000.0.019  -1.839e-03  3.977e-02  -0.046  0.96312
## f.22000.0.02   -1.835e-02  3.992e-02  -0.460  0.64570
## f.22000.0.0-2   7.853e-02  4.065e-02   1.932  0.05336 .
## f.22000.0.020  -1.153e-02  4.045e-02  -0.285  0.77554
## f.22000.0.021   3.476e-02  4.031e-02   0.862  0.38854
## f.22000.0.022   5.745e-03  4.031e-02   0.143  0.88667
## f.22000.0.023  -3.290e-03  4.033e-02  -0.082  0.93499
## f.22000.0.024   7.727e-03  3.977e-02   0.194  0.84596
## f.22000.0.025   2.662e-02  4.082e-02   0.652  0.51428
## f.22000.0.026  -5.089e-02  4.059e-02  -1.254  0.20993
## f.22000.0.027  -1.964e-02  3.995e-02  -0.492  0.62304
## f.22000.0.028   3.911e-03  4.037e-02   0.097  0.92283
## f.22000.0.029  -1.429e-03  4.004e-02  -0.036  0.97154
## f.22000.0.03    5.486e-03  4.000e-02   0.137  0.89090
## f.22000.0.0-3   5.696e-04  4.019e-02   0.014  0.98869
## f.22000.0.030  -3.815e-02  4.003e-02  -0.953  0.34053
## f.22000.0.031  -2.430e-02  4.022e-02  -0.604  0.54569
## f.22000.0.032  -1.999e-02  4.032e-02  -0.496  0.62008
## f.22000.0.033   6.841e-04  4.106e-02   0.017  0.98671
## f.22000.0.034   3.270e-02  4.010e-02   0.815  0.41488
## f.22000.0.035   5.155e-02  4.025e-02   1.281  0.20034
## f.22000.0.036   6.708e-03  3.995e-02   0.168  0.86666
## f.22000.0.037  -1.940e-02  4.055e-02  -0.479  0.63227
## f.22000.0.038   4.226e-02  4.035e-02   1.047  0.29503
## f.22000.0.039   1.186e-02  4.082e-02   0.291  0.77141
## f.22000.0.04   -7.364e-03  4.067e-02  -0.181  0.85631
## f.22000.0.0-4   5.642e-02  4.092e-02   1.379  0.16794
## f.22000.0.040   6.814e-03  4.038e-02   0.169  0.86601
```

```
## f.22000.0.040   6.814e-03  4.038e-02   0.169  0.86601
## f.22000.0.041   2.175e-03  4.090e-02   0.053  0.95759
## f.22000.0.042  -3.519e-02  4.017e-02  -0.876  0.38093
## f.22000.0.043  -3.267e-02  4.095e-02  -0.798  0.42492
## f.22000.0.044   5.796e-02  4.059e-02   1.428  0.15332
## f.22000.0.045  -2.527e-03  4.050e-02  -0.062  0.95024
## f.22000.0.046  -3.947e-02  4.070e-02  -0.970  0.33216
## f.22000.0.047  -1.862e-02  4.076e-02  -0.457  0.64789
## f.22000.0.048  -1.439e-02  4.074e-02  -0.353  0.72405
## f.22000.0.049   4.950e-02  4.069e-02   1.217  0.22379
## f.22000.0.05   -8.312e-03  4.004e-02  -0.208  0.83554
## f.22000.0.0-5   7.625e-02  4.046e-02   1.885  0.05949 .
## f.22000.0.050   2.501e-03  4.068e-02   0.061  0.95099
## f.22000.0.051   7.170e-02  4.019e-02   1.784  0.07438 .
## f.22000.0.052   3.155e-03  4.098e-02   0.077  0.93864
## f.22000.0.053  -1.610e-02  4.060e-02  -0.397  0.69170
## f.22000.0.054   6.037e-02  4.067e-02   1.485  0.13768
## f.22000.0.055   5.688e-02  4.111e-02   1.384  0.16648
## f.22000.0.056   3.788e-02  4.073e-02   0.930  0.35245
## f.22000.0.057   4.645e-02  4.085e-02   1.137  0.25550
## f.22000.0.058   1.391e-02  4.073e-02   0.342  0.73268
## f.22000.0.059   1.192e-02  4.056e-02   0.294  0.76889
## f.22000.0.06    8.325e-03  3.988e-02   0.209  0.83464
## f.22000.0.0-6   4.165e-02  4.081e-02   1.021  0.30749
## f.22000.0.060  -2.608e-02  4.095e-02  -0.637  0.52422
## f.22000.0.061   1.522e-02  4.113e-02   0.370  0.71126
## f.22000.0.062   2.802e-02  4.103e-02   0.683  0.49467
## f.22000.0.063   5.287e-04  4.101e-02   0.013  0.98971
## f.22000.0.064  -1.588e-02  4.071e-02  -0.390  0.69653
## f.22000.0.065  -1.694e-02  4.093e-02  -0.414  0.67893
## f.22000.0.066  -9.878e-03  4.129e-02  -0.239  0.81094
## f.22000.0.067  -2.210e-02  4.091e-02  -0.540  0.58903
## f.22000.0.068   8.046e-03  4.080e-02   0.197  0.84365
## f.22000.0.069   2.872e-03  4.096e-02   0.070  0.94410
## f.22000.0.07   -3.542e-02  4.019e-02  -0.881  0.37816
## f.22000.0.0-7   4.865e-02  4.052e-02   1.201  0.22990
## f.22000.0.070  -1.903e-02  4.104e-02  -0.464  0.64289
## f.22000.0.071  -1.126e-02  4.077e-02  -0.276  0.78245
## f.22000.0.072  -7.594e-03  4.105e-02  -0.185  0.85323
## f.22000.0.073  -4.096e-03  4.111e-02  -0.100  0.92063
## f.22000.0.074   3.549e-02  4.118e-02   0.862  0.38872
## f.22000.0.075   6.196e-02  4.075e-02   1.520  0.12840
## f.22000.0.076   3.508e-02  4.118e-02   0.852  0.39434
## f.22000.0.077   7.295e-03  4.100e-02   0.178  0.85878
## f.22000.0.078  -4.978e-02  4.082e-02  -1.219  0.22267
## f.22000.0.079  -1.830e-02  4.067e-02  -0.450  0.65271
## f.22000.0.08   -1.163e-02  4.011e-02  -0.290  0.77186
## f.22000.0.0-8   2.254e-02  4.083e-02   0.552  0.58092
## f.22000.0.080   3.683e-02  4.114e-02   0.895  0.37072
## f.22000.0.081   2.544e-03  4.164e-02   0.061  0.95128
## f.22000.0.082  -4.295e-02  4.110e-02  -1.045  0.29600
## f.22000.0.083  -9.611e-04  4.115e-02  -0.023  0.98137
## f.22000.0.084   2.132e-02  4.115e-02   0.518  0.60441
## f.22000.0.085   3.681e-02  4.103e-02   0.897  0.36956
## f.22000.0.086  -2.206e-02  4.111e-02  -0.537  0.59153
## f.22000.0.087   4.023e-02  4.106e-02   0.980  0.32712
## f.22000.0.088   4.688e-03  4.189e-02   0.112  0.91089
## f.22000.0.089   1.324e-03  4.151e-02   0.032  0.97455
## f.22000.0.09   -9.605e-03  3.985e-02  -0.241  0.80954
## f.22000.0.0-9   6.709e-02  4.084e-02   1.643  0.10044
## f.22000.0.090  -3.849e-03  4.116e-02  -0.094  0.92550
## f.22000.0.091  -3.949e-02  4.248e-02  -0.929  0.35263
## f.22000.0.092   2.168e-02  4.117e-02   0.527  0.59847
## f.22000.0.093   1.148e-02  4.113e-02   0.279  0.78023
## f.22000.0.094   4.117e-03  5.256e-02   0.078  0.93757
## f.22000.0.095  -1.756e-02  4.387e-02  -0.400  0.68898
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03521,    Adjusted R-squared:  0.03416
## F-statistic: 33.62 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.250000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.250000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1570 -0.6195 -0.4331  0.4530  4.2221
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.403e-01 -54.368  < 2e-16 ***
## `0.250000`      3.479e-02  2.864e-03  12.145  < 2e-16 ***
## f.22009.0.1     9.679e-03  3.027e-03   3.197  0.00139 **
## f.22009.0.2    -3.267e-03  2.914e-03  -1.121  0.26213
## f.22009.0.3    -1.671e-03  2.989e-03  -0.559  0.57616
## f.22009.0.4    -7.595e-03  4.182e-03  -1.816  0.06937 .
## f.22009.0.5     2.563e-03  4.060e-03   0.631  0.52794
## f.22009.0.6     2.348e-04  2.957e-03   0.079  0.93671
## f.22009.0.7    -8.670e-03  3.031e-03  -2.861  0.00423 **
## f.22009.0.8     7.033e-03  3.196e-03   2.201  0.02776 *
## f.22009.0.9    -8.961e-03  3.050e-03  -2.938  0.00330 **
## f.22009.0.10    2.751e-03  3.539e-03   0.777  0.43690
## f.22009.0.11   -1.652e-04  4.117e-03  -0.040  0.96800
## f.22009.0.12    2.704e-03  3.616e-03   0.748  0.45455
## f.22009.0.13   -3.156e-03  2.909e-03  -1.085  0.27805
## f.22009.0.14   -1.664e-02  3.074e-03  -5.413 6.21e-08 ***
## f.22009.0.15   -1.430e-03  3.151e-03  -0.454  0.64998
## f.22009.0.16   -9.924e-03  3.087e-03  -3.215  0.00131 **
## f.22009.0.17    9.880e-05  2.867e-03   0.034  0.97251
## f.22009.0.18   -1.401e-04  2.874e-03  -0.049  0.96113
## f.22009.0.19    2.461e-03  2.862e-03   0.860  0.38993
## f.22009.0.20    2.795e-03  2.867e-03   0.975  0.32969
## f.22001.0.01   -1.491e-01  5.780e-03 -25.795  < 2e-16 ***
## f.34.0.0        2.065e-02  3.788e-04  54.510  < 2e-16 ***
## f.22000.0.0-1   3.604e-02  4.041e-02   0.892  0.37247
## f.22000.0.010  -3.702e-02  4.082e-02  -0.907  0.36449
## f.22000.0.0-10  8.055e-02  4.105e-02   1.962  0.04975 *
## f.22000.0.011   5.785e-02  4.016e-02   1.440  0.14974
## f.22000.0.0-11  2.800e-02  4.072e-02   0.688  0.49160
## f.22000.0.012  -7.304e-03  4.046e-02  -0.181  0.85675
## f.22000.0.013  -1.746e-02  4.026e-02  -0.434  0.66463
## f.22000.0.014   1.044e-02  4.002e-02   0.261  0.79424
## f.22000.0.015   3.370e-02  4.036e-02   0.835  0.40384
## f.22000.0.016   4.650e-02  4.051e-02   1.148  0.25102
## f.22000.0.017   2.103e-02  4.014e-02   0.524  0.60031
## f.22000.0.018  -3.093e-02  4.050e-02  -0.764  0.44514
## f.22000.0.019  -2.597e-03  3.977e-02  -0.065  0.94793
## f.22000.0.02   -1.800e-02  3.992e-02  -0.451  0.65200
## f.22000.0.0-2   7.842e-02  4.065e-02   1.929  0.05372 .
## f.22000.0.020  -1.190e-02  4.045e-02  -0.294  0.76859
## f.22000.0.021   3.475e-02  4.031e-02   0.862  0.38864
## f.22000.0.022   5.860e-03  4.031e-02   0.145  0.88442
## f.22000.0.023  -2.918e-03  4.034e-02  -0.072  0.94233
## f.22000.0.024   8.034e-03  3.978e-02   0.202  0.83994
## f.22000.0.025   2.601e-02  4.082e-02   0.637  0.52409
## f.22000.0.026  -5.078e-02  4.059e-02  -1.251  0.21100
## f.22000.0.027  -1.986e-02  3.995e-02  -0.497  0.61912
## f.22000.0.028   3.783e-03  4.037e-02   0.094  0.92534
## f.22000.0.029  -1.362e-03  4.004e-02  -0.034  0.97287
## f.22000.0.03    5.084e-03  4.000e-02   0.127  0.89885
```

```
## f.22000.0.05    5.084e-03  4.000e-02   0.127  0.89885
## f.22000.0.0-3   4.048e-04  4.019e-02   0.010  0.99196
## f.22000.0.030  -3.836e-02  4.003e-02  -0.958  0.33790
## f.22000.0.031  -2.450e-02  4.022e-02  -0.609  0.54238
## f.22000.0.032  -1.973e-02  4.032e-02  -0.489  0.62460
## f.22000.0.033   8.763e-04  4.106e-02   0.021  0.98297
## f.22000.0.034   3.210e-02  4.011e-02   0.800  0.42354
## f.22000.0.035   5.140e-02  4.026e-02   1.277  0.20170
## f.22000.0.036   6.493e-03  3.995e-02   0.163  0.87091
## f.22000.0.037  -1.959e-02  4.055e-02  -0.483  0.62901
## f.22000.0.038   4.242e-02  4.035e-02   1.051  0.29315
## f.22000.0.039   1.178e-02  4.082e-02   0.289  0.77283
## f.22000.0.04   -7.195e-03  4.067e-02  -0.177  0.85959
## f.22000.0.0-4   5.623e-02  4.092e-02   1.374  0.16938
## f.22000.0.040   6.910e-03  4.038e-02   0.171  0.86414
## f.22000.0.041   2.114e-03  4.090e-02   0.052  0.95878
## f.22000.0.042  -3.539e-02  4.017e-02  -0.881  0.37833
## f.22000.0.043  -3.261e-02  4.095e-02  -0.796  0.42586
## f.22000.0.044   5.741e-02  4.059e-02   1.414  0.15725
## f.22000.0.045  -2.924e-03  4.050e-02  -0.072  0.94244
## f.22000.0.046  -3.935e-02  4.071e-02  -0.967  0.33370
## f.22000.0.047  -1.856e-02  4.076e-02  -0.455  0.64896
## f.22000.0.048  -1.435e-02  4.075e-02  -0.352  0.72469
## f.22000.0.049   4.909e-02  4.069e-02   1.206  0.22765
## f.22000.0.05   -8.703e-03  4.004e-02  -0.217  0.82793
## f.22000.0.0-5   7.624e-02  4.046e-02   1.884  0.05954 .
## f.22000.0.050   2.489e-03  4.069e-02   0.061  0.95122
## f.22000.0.051   7.142e-02  4.019e-02   1.777  0.07556 .
## f.22000.0.052   2.634e-03  4.098e-02   0.064  0.94875
## f.22000.0.053  -1.599e-02  4.060e-02  -0.394  0.69378
## f.22000.0.054   5.985e-02  4.067e-02   1.472  0.14110
## f.22000.0.055   5.650e-02  4.111e-02   1.374  0.16936
## f.22000.0.056   3.745e-02  4.074e-02   0.919  0.35789
## f.22000.0.057   4.647e-02  4.085e-02   1.138  0.25533
## f.22000.0.058   1.379e-02  4.073e-02   0.339  0.73494
## f.22000.0.059   1.176e-02  4.056e-02   0.290  0.77189
## f.22000.0.06    8.257e-03  3.988e-02   0.207  0.83597
## f.22000.0.0-6   4.176e-02  4.081e-02   1.023  0.30622
## f.22000.0.060  -2.603e-02  4.095e-02  -0.636  0.52502
## f.22000.0.061   1.528e-02  4.113e-02   0.372  0.71021
## f.22000.0.062   2.783e-02  4.103e-02   0.678  0.49761
## f.22000.0.063   7.407e-04  4.101e-02   0.018  0.98559
## f.22000.0.064  -1.633e-02  4.071e-02  -0.401  0.68834
## f.22000.0.065  -1.741e-02  4.093e-02  -0.425  0.67049
## f.22000.0.066  -9.823e-03  4.130e-02  -0.238  0.81199
## f.22000.0.067  -2.235e-02  4.091e-02  -0.546  0.58484
## f.22000.0.068   8.172e-03  4.080e-02   0.200  0.84125
## f.22000.0.069   3.111e-03  4.096e-02   0.076  0.93945
## f.22000.0.07   -3.549e-02  4.019e-02  -0.883  0.37726
## f.22000.0.0-7   4.829e-02  4.052e-02   1.192  0.23333
## f.22000.0.070  -1.958e-02  4.104e-02  -0.477  0.63327
## f.22000.0.071  -1.159e-02  4.077e-02  -0.284  0.77624
## f.22000.0.072  -7.030e-03  4.105e-02  -0.171  0.86402
## f.22000.0.073  -4.427e-03  4.111e-02  -0.108  0.91425
## f.22000.0.074   3.529e-02  4.118e-02   0.857  0.39153
## f.22000.0.075   6.228e-02  4.075e-02   1.528  0.12649
## f.22000.0.076   3.524e-02  4.118e-02   0.856  0.39217
## f.22000.0.077   7.237e-03  4.100e-02   0.177  0.85989
## f.22000.0.078  -5.068e-02  4.082e-02  -1.241  0.21445
## f.22000.0.079  -1.843e-02  4.067e-02  -0.453  0.65043
## f.22000.0.08   -1.150e-02  4.011e-02  -0.287  0.77440
## f.22000.0.0-8   2.234e-02  4.083e-02   0.547  0.58434
## f.22000.0.080   3.658e-02  4.114e-02   0.889  0.37389
## f.22000.0.081   2.217e-03  4.164e-02   0.053  0.95753
## f.22000.0.082  -4.260e-02  4.110e-02  -1.036  0.29998
## f.22000.0.083  -1.268e-03  4.115e-02  -0.031  0.97543
## f.22000.0.084   2.137e-02  4.115e-02   0.519  0.60361
## f.22000.0.085   3.674e-02  4.103e-02   0.896  0.37046
## f.22000.0.086  -2.182e-02  4.111e-02  -0.531  0.59562
## f.22000.0.087   4.015e-02  4.106e-02   0.978  0.32809
## f.22000.0.088   4.892e-03  4.189e-02   0.117  0.90702
## f.22000.0.089   1.018e-03  4.151e-02   0.025  0.98043
## f.22000.0.09   -9.591e-03  3.986e-02  -0.241  0.80983
```

```
## f.22000.0.0-9   6.683e-02  4.084e-02   1.636  0.10177
## f.22000.0.090  -4.061e-03  4.116e-02  -0.099  0.92141
## f.22000.0.091  -3.962e-02  4.249e-02  -0.932  0.35111
## f.22000.0.092   2.193e-02  4.117e-02   0.533  0.59425
## f.22000.0.093   1.109e-02  4.113e-02   0.270  0.78748
## f.22000.0.094   3.780e-03  5.257e-02   0.072  0.94268
## f.22000.0.095  -1.762e-02  4.388e-02  -0.401  0.68806
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03511,    Adjusted R-squared:  0.03406
## F-statistic: 33.53 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.100000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.100000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1610 -0.6195 -0.4333  0.4534  4.2449
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.403e-01 -54.373  < 2e-16 ***
## `0.100000`      3.308e-02  2.865e-03  11.548  < 2e-16 ***
## f.22009.0.1     9.694e-03  3.028e-03   3.202  0.00137 **
## f.22009.0.2    -3.299e-03  2.914e-03  -1.132  0.25757
## f.22009.0.3    -1.731e-03  2.989e-03  -0.579  0.56253
## f.22009.0.4    -7.657e-03  4.183e-03  -1.831  0.06716 .
## f.22009.0.5     2.559e-03  4.061e-03   0.630  0.52858
## f.22009.0.6     1.298e-04  2.958e-03   0.044  0.96500
## f.22009.0.7    -8.783e-03  3.031e-03  -2.898  0.00376 **
## f.22009.0.8     7.057e-03  3.196e-03   2.208  0.02723 *
## f.22009.0.9    -8.874e-03  3.050e-03  -2.910  0.00362 **
## f.22009.0.10    2.763e-03  3.539e-03   0.781  0.43492
## f.22009.0.11   -1.278e-04  4.117e-03  -0.031  0.97524
## f.22009.0.12    2.780e-03  3.616e-03   0.769  0.44206
## f.22009.0.13   -3.248e-03  2.910e-03  -1.116  0.26422
## f.22009.0.14   -1.654e-02  3.074e-03  -5.379  7.5e-08 ***
## f.22009.0.15   -1.460e-03  3.152e-03  -0.463  0.64317
## f.22009.0.16   -9.908e-03  3.087e-03  -3.210  0.00133 **
## f.22009.0.17    1.048e-04  2.867e-03   0.037  0.97084
## f.22009.0.18   -1.790e-04  2.874e-03  -0.062  0.95034
## f.22009.0.19    2.492e-03  2.862e-03   0.871  0.38389
## f.22009.0.20    2.813e-03  2.867e-03   0.981  0.32661
## f.22001.0.01   -1.492e-01  5.780e-03 -25.818  < 2e-16 ***
## f.34.0.0        2.065e-02  3.789e-04  54.515  < 2e-16 ***
## f.22000.0.0-1   3.642e-02  4.041e-02   0.901  0.36752
## f.22000.0.010  -3.715e-02  4.082e-02  -0.910  0.36286
## f.22000.0.0-10  8.038e-02  4.105e-02   1.958  0.05026 .
## f.22000.0.011   5.802e-02  4.016e-02   1.445  0.14855
## f.22000.0.0-11  2.838e-02  4.072e-02   0.697  0.48589
## f.22000.0.012  -6.702e-03  4.047e-02  -0.166  0.86845
## f.22000.0.013  -1.711e-02  4.027e-02  -0.425  0.67093
## f.22000.0.014   1.068e-02  4.003e-02   0.267  0.78965
## f.22000.0.015   3.379e-02  4.037e-02   0.837  0.40255
## f.22000.0.016   4.653e-02  4.051e-02   1.149  0.25071
## f.22000.0.017   2.145e-02  4.014e-02   0.534  0.59316
## f.22000.0.018  -3.080e-02  4.051e-02  -0.760  0.44703
```

```
## f.22000.0.018  -3.080e-02  4.051e-02  -0.760  0.44705
## f.22000.0.019  -2.709e-03  3.977e-02  -0.068  0.94568
## f.22000.0.02   -1.809e-02  3.992e-02  -0.453  0.65041
## f.22000.0.0-2   7.925e-02  4.065e-02   1.949  0.05124 .
## f.22000.0.020  -1.203e-02  4.046e-02  -0.297  0.76628
## f.22000.0.021   3.488e-02  4.031e-02   0.865  0.38691
## f.22000.0.022   6.057e-03  4.031e-02   0.150  0.88058
## f.22000.0.023  -3.291e-03  4.034e-02  -0.082  0.93498
## f.22000.0.024   7.928e-03  3.978e-02   0.199  0.84203
## f.22000.0.025   2.580e-02  4.082e-02   0.632  0.52738
## f.22000.0.026  -5.089e-02  4.060e-02  -1.253  0.21003
## f.22000.0.027  -1.900e-02  3.995e-02  -0.476  0.63429
## f.22000.0.028   4.518e-03  4.038e-02   0.112  0.91090
## f.22000.0.029  -1.170e-03  4.004e-02  -0.029  0.97668
## f.22000.0.03    4.727e-03  4.000e-02   0.118  0.90593
## f.22000.0.0-3   7.892e-04  4.020e-02   0.020  0.98434
## f.22000.0.030  -3.825e-02  4.003e-02  -0.955  0.33933
## f.22000.0.031  -2.411e-02  4.023e-02  -0.599  0.54891
## f.22000.0.032  -1.939e-02  4.032e-02  -0.481  0.63064
## f.22000.0.033   1.312e-03  4.106e-02   0.032  0.97451
## f.22000.0.034   3.254e-02  4.011e-02   0.811  0.41724
## f.22000.0.035   5.122e-02  4.026e-02   1.272  0.20327
## f.22000.0.036   6.718e-03  3.996e-02   0.168  0.86647
## f.22000.0.037  -1.896e-02  4.055e-02  -0.467  0.64017
## f.22000.0.038   4.241e-02  4.036e-02   1.051  0.29329
## f.22000.0.039   1.184e-02  4.082e-02   0.290  0.77183
## f.22000.0.04   -7.156e-03  4.067e-02  -0.176  0.86033
## f.22000.0.0-4   5.611e-02  4.092e-02   1.371  0.17032
## f.22000.0.040   6.608e-03  4.039e-02   0.164  0.87002
## f.22000.0.041   1.963e-03  4.090e-02   0.048  0.96173
## f.22000.0.042  -3.491e-02  4.017e-02  -0.869  0.38482
## f.22000.0.043  -3.289e-02  4.095e-02  -0.803  0.42198
## f.22000.0.044   5.713e-02  4.060e-02   1.407  0.15934
## f.22000.0.045  -2.085e-03  4.050e-02  -0.051  0.95894
## f.22000.0.046  -3.904e-02  4.071e-02  -0.959  0.33750
## f.22000.0.047  -1.832e-02  4.077e-02  -0.449  0.65319
## f.22000.0.048  -1.398e-02  4.075e-02  -0.343  0.73151
## f.22000.0.049   4.927e-02  4.069e-02   1.211  0.22597
## f.22000.0.05   -8.918e-03  4.004e-02  -0.223  0.82374
## f.22000.0.0-5   7.619e-02  4.047e-02   1.883  0.05974 .
## f.22000.0.050   3.275e-03  4.069e-02   0.080  0.93585
## f.22000.0.051   7.167e-02  4.019e-02   1.783  0.07455 .
## f.22000.0.052   3.066e-03  4.098e-02   0.075  0.94037
## f.22000.0.053  -1.617e-02  4.060e-02  -0.398  0.69041
## f.22000.0.054   6.035e-02  4.067e-02   1.484  0.13787
## f.22000.0.055   5.709e-02  4.111e-02   1.389  0.16498
## f.22000.0.056   3.725e-02  4.074e-02   0.914  0.36051
## f.22000.0.057   4.688e-02  4.086e-02   1.147  0.25124
## f.22000.0.058   1.371e-02  4.074e-02   0.337  0.73645
## f.22000.0.059   1.222e-02  4.057e-02   0.301  0.76332
## f.22000.0.06    9.156e-03  3.988e-02   0.230  0.81843
## f.22000.0.0-6   4.179e-02  4.081e-02   1.024  0.30583
## f.22000.0.060  -2.638e-02  4.095e-02  -0.644  0.51948
## f.22000.0.061   1.606e-02  4.113e-02   0.390  0.69617
## f.22000.0.062   2.825e-02  4.103e-02   0.689  0.49108
## f.22000.0.063   1.306e-03  4.101e-02   0.032  0.97459
## f.22000.0.064  -1.575e-02  4.072e-02  -0.387  0.69896
## f.22000.0.065  -1.666e-02  4.093e-02  -0.407  0.68395
## f.22000.0.066  -1.113e-02  4.130e-02  -0.269  0.78763
## f.22000.0.067  -2.270e-02  4.091e-02  -0.555  0.57896
## f.22000.0.068   7.759e-03  4.080e-02   0.190  0.84919
## f.22000.0.069   2.783e-03  4.096e-02   0.068  0.94583
## f.22000.0.07   -3.518e-02  4.019e-02  -0.875  0.38148
## f.22000.0.0-7   4.842e-02  4.052e-02   1.195  0.23209
## f.22000.0.070  -1.959e-02  4.104e-02  -0.477  0.63310
## f.22000.0.071  -1.066e-02  4.078e-02  -0.261  0.79378
## f.22000.0.072  -6.794e-03  4.105e-02  -0.165  0.86855
## f.22000.0.073  -3.977e-03  4.111e-02  -0.097  0.92293
## f.22000.0.074   3.554e-02  4.118e-02   0.863  0.38811
## f.22000.0.075   6.277e-02  4.076e-02   1.540  0.12352
## f.22000.0.076   3.651e-02  4.118e-02   0.886  0.37539
## f.22000.0.077   7.739e-03  4.100e-02   0.189  0.85029
## f.22000.0.078  -5.020e-02  4.083e-02  -1.230  0.21885
```

```
## f.22000.0.079  -1.805e-02  4.067e-02  -0.444  0.65710
## f.22000.0.08   -1.177e-02  4.011e-02  -0.293  0.76916
## f.22000.0.0-8   2.282e-02  4.083e-02   0.559  0.57635
## f.22000.0.080   3.710e-02  4.114e-02   0.902  0.36717
## f.22000.0.081   1.636e-03  4.164e-02   0.039  0.96866
## f.22000.0.082  -4.230e-02  4.110e-02  -1.029  0.30343
## f.22000.0.083  -1.200e-03  4.116e-02  -0.029  0.97673
## f.22000.0.084   2.176e-02  4.115e-02   0.529  0.59700
## f.22000.0.085   3.743e-02  4.103e-02   0.912  0.36159
## f.22000.0.086  -2.184e-02  4.111e-02  -0.531  0.59518
## f.22000.0.087   4.020e-02  4.106e-02   0.979  0.32752
## f.22000.0.088   5.058e-03  4.189e-02   0.121  0.90389
## f.22000.0.089   2.006e-03  4.151e-02   0.048  0.96147
## f.22000.0.09   -8.837e-03  3.986e-02  -0.222  0.82454
## f.22000.0.0-9   6.729e-02  4.084e-02   1.648  0.09945 .
## f.22000.0.090  -3.798e-03  4.116e-02  -0.092  0.92649
## f.22000.0.091  -3.900e-02  4.249e-02  -0.918  0.35869
## f.22000.0.092   2.234e-02  4.117e-02   0.542  0.58748
## f.22000.0.093   1.127e-02  4.114e-02   0.274  0.78402
## f.22000.0.094   3.685e-03  5.257e-02   0.070  0.94411
## f.22000.0.095  -1.720e-02  4.388e-02  -0.392  0.69513
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9829 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.035,  Adjusted R-squared:  0.03395
## F-statistic: 33.42 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.010000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.010000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1524 -0.6197 -0.4341  0.4543  4.2234
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.405e-01 -54.355  < 2e-16 ***
## `0.010000`      2.768e-02  2.865e-03   9.662  < 2e-16 ***
## f.22009.0.1     9.852e-03  3.028e-03   3.253  0.00114 **
## f.22009.0.2    -3.249e-03  2.914e-03  -1.115  0.26486
## f.22009.0.3    -1.865e-03  2.990e-03  -0.624  0.53272
## f.22009.0.4    -7.697e-03  4.183e-03  -1.840  0.06577 .
## f.22009.0.5     2.866e-03  4.061e-03   0.706  0.48039
## f.22009.0.6    -1.041e-05  2.958e-03  -0.004  0.99719
## f.22009.0.7    -8.885e-03  3.031e-03  -2.931  0.00338 **
## f.22009.0.8     7.031e-03  3.196e-03   2.200  0.02784 *
## f.22009.0.9    -8.857e-03  3.050e-03  -2.904  0.00369 **
## f.22009.0.10    2.833e-03  3.540e-03   0.800  0.42349
## f.22009.0.11    1.693e-04  4.118e-03   0.041  0.96721
## f.22009.0.12    2.776e-03  3.617e-03   0.768  0.44275
## f.22009.0.13   -3.194e-03  2.910e-03  -1.097  0.27245
## f.22009.0.14   -1.662e-02  3.075e-03  -5.406 6.46e-08 ***
## f.22009.0.15   -1.389e-03  3.152e-03  -0.441  0.65944
## f.22009.0.16   -9.932e-03  3.088e-03  -3.217  0.00130 **
## f.22009.0.17    8.852e-05  2.868e-03   0.031  0.97538
## f.22009.0.18   -1.239e-04  2.875e-03  -0.043  0.96561
## f.22009.0.19    2.762e-03  2.863e-03   0.965  0.33468
## f.22009.0.20    2.595e-03  2.868e-03   0.905  0.36568
```

```
## f.22009.0.20    2.595e-03  2.866e-03   0.905  0.36568
## f.22001.0.01   -1.493e-01  5.781e-03 -25.833  < 2e-16 ***
## f.34.0.0        2.065e-02  3.789e-04  54.497  < 2e-16 ***
## f.22000.0.0-1   3.677e-02  4.042e-02   0.910  0.36298
## f.22000.0.010  -3.753e-02  4.083e-02  -0.919  0.35797
## f.22000.0.0-10  8.094e-02  4.106e-02   1.971  0.04870 *
## f.22000.0.011   5.841e-02  4.017e-02   1.454  0.14592
## f.22000.0.0-11  2.862e-02  4.073e-02   0.703  0.48221
## f.22000.0.012  -6.616e-03  4.047e-02  -0.163  0.87015
## f.22000.0.013  -1.752e-02  4.027e-02  -0.435  0.66361
## f.22000.0.014   1.137e-02  4.003e-02   0.284  0.77632
## f.22000.0.015   3.467e-02  4.037e-02   0.859  0.39049
## f.22000.0.016   4.711e-02  4.052e-02   1.163  0.24496
## f.22000.0.017   2.212e-02  4.015e-02   0.551  0.58164
## f.22000.0.018  -3.008e-02  4.051e-02  -0.742  0.45784
## f.22000.0.019  -2.425e-03  3.978e-02  -0.061  0.95139
## f.22000.0.02   -1.712e-02  3.993e-02  -0.429  0.66804
## f.22000.0.0-2   8.022e-02  4.066e-02   1.973  0.04849 *
## f.22000.0.020  -1.012e-02  4.046e-02  -0.250  0.80258
## f.22000.0.021   3.595e-02  4.032e-02   0.892  0.37260
## f.22000.0.022   7.169e-03  4.032e-02   0.178  0.85889
## f.22000.0.023  -3.047e-03  4.035e-02  -0.076  0.93980
## f.22000.0.024   9.085e-03  3.979e-02   0.228  0.81937
## f.22000.0.025   2.592e-02  4.083e-02   0.635  0.52549
## f.22000.0.026  -5.018e-02  4.060e-02  -1.236  0.21653
## f.22000.0.027  -2.002e-02  3.996e-02  -0.501  0.61636
## f.22000.0.028   5.310e-03  4.038e-02   0.131  0.89538
## f.22000.0.029  -2.133e-04  4.005e-02  -0.005  0.99575
## f.22000.0.03    5.517e-03  4.001e-02   0.138  0.89031
## f.22000.0.0-3   2.796e-03  4.020e-02   0.070  0.94456
## f.22000.0.030  -3.653e-02  4.004e-02  -0.912  0.36164
## f.22000.0.031  -2.237e-02  4.023e-02  -0.556  0.57816
## f.22000.0.032  -1.941e-02  4.033e-02  -0.481  0.63028
## f.22000.0.033   2.547e-03  4.107e-02   0.062  0.95054
## f.22000.0.034   3.258e-02  4.012e-02   0.812  0.41671
## f.22000.0.035   5.219e-02  4.027e-02   1.296  0.19495
## f.22000.0.036   7.302e-03  3.996e-02   0.183  0.85503
## f.22000.0.037  -1.934e-02  4.056e-02  -0.477  0.63353
## f.22000.0.038   4.338e-02  4.036e-02   1.075  0.28256
## f.22000.0.039   1.352e-02  4.083e-02   0.331  0.74054
## f.22000.0.04   -6.719e-03  4.068e-02  -0.165  0.86880
## f.22000.0.0-4   5.686e-02  4.093e-02   1.389  0.16480
## f.22000.0.040   6.530e-03  4.039e-02   0.162  0.87158
## f.22000.0.041   1.332e-03  4.091e-02   0.033  0.97403
## f.22000.0.042  -3.535e-02  4.018e-02  -0.880  0.37897
## f.22000.0.043  -3.326e-02  4.096e-02  -0.812  0.41680
## f.22000.0.044   5.764e-02  4.060e-02   1.420  0.15573
## f.22000.0.045  -8.111e-04  4.051e-02  -0.020  0.98403
## f.22000.0.046  -3.736e-02  4.072e-02  -0.918  0.35879
## f.22000.0.047  -1.747e-02  4.077e-02  -0.429  0.66826
## f.22000.0.048  -1.499e-02  4.076e-02  -0.368  0.71299
## f.22000.0.049   4.981e-02  4.070e-02   1.224  0.22098
## f.22000.0.05   -9.026e-03  4.005e-02  -0.225  0.82168
## f.22000.0.0-5   7.602e-02  4.047e-02   1.878  0.06035 .
## f.22000.0.050   3.624e-03  4.070e-02   0.089  0.92904
## f.22000.0.051   7.177e-02  4.020e-02   1.785  0.07420 .
## f.22000.0.052   3.164e-03  4.099e-02   0.077  0.93848
## f.22000.0.053  -1.566e-02  4.061e-02  -0.386  0.69973
## f.22000.0.054   6.133e-02  4.068e-02   1.508  0.13167
## f.22000.0.055   5.814e-02  4.112e-02   1.414  0.15740
## f.22000.0.056   3.821e-02  4.075e-02   0.938  0.34830
## f.22000.0.057   4.790e-02  4.086e-02   1.172  0.24108
## f.22000.0.058   1.382e-02  4.074e-02   0.339  0.73440
## f.22000.0.059   1.270e-02  4.057e-02   0.313  0.75430
## f.22000.0.06    9.374e-03  3.989e-02   0.235  0.81420
## f.22000.0.0-6   4.368e-02  4.082e-02   1.070  0.28465
## f.22000.0.060  -2.531e-02  4.096e-02  -0.618  0.53655
## f.22000.0.061   1.597e-02  4.114e-02   0.388  0.69779
## f.22000.0.062   2.930e-02  4.104e-02   0.714  0.47523
## f.22000.0.063   2.214e-03  4.102e-02   0.054  0.95695
## f.22000.0.064  -1.476e-02  4.072e-02  -0.363  0.71698
## f.22000.0.065  -1.484e-02  4.094e-02  -0.362  0.71704
## f.22000.0.066  -1.181e-02  4.131e-02  -0.286  0.77497
```

```
## f.22000.0.067  -2.233e-02  4.092e-02  -0.546  0.58533
## f.22000.0.068   8.582e-03  4.081e-02   0.210  0.83344
## f.22000.0.069   3.147e-03  4.097e-02   0.077  0.93878
## f.22000.0.07   -3.407e-02  4.020e-02  -0.847  0.39673
## f.22000.0.0-7   4.848e-02  4.053e-02   1.196  0.23162
## f.22000.0.070  -1.777e-02  4.105e-02  -0.433  0.66510
## f.22000.0.071  -1.039e-02  4.078e-02  -0.255  0.79899
## f.22000.0.072  -5.984e-03  4.106e-02  -0.146  0.88412
## f.22000.0.073  -3.988e-03  4.112e-02  -0.097  0.92275
## f.22000.0.074   3.606e-02  4.119e-02   0.876  0.38128
## f.22000.0.075   6.366e-02  4.076e-02   1.562  0.11835
## f.22000.0.076   3.765e-02  4.119e-02   0.914  0.36069
## f.22000.0.077   7.950e-03  4.101e-02   0.194  0.84628
## f.22000.0.078  -5.016e-02  4.083e-02  -1.228  0.21930
## f.22000.0.079  -1.668e-02  4.068e-02  -0.410  0.68183
## f.22000.0.08   -9.599e-03  4.012e-02  -0.239  0.81089
## f.22000.0.0-8   2.266e-02  4.084e-02   0.555  0.57909
## f.22000.0.080   3.797e-02  4.115e-02   0.923  0.35611
## f.22000.0.081   2.105e-03  4.165e-02   0.051  0.95969
## f.22000.0.082  -4.054e-02  4.111e-02  -0.986  0.32407
## f.22000.0.083  -4.878e-04  4.116e-02  -0.012  0.99054
## f.22000.0.084   2.292e-02  4.116e-02   0.557  0.57767
## f.22000.0.085   3.782e-02  4.104e-02   0.922  0.35669
## f.22000.0.086  -2.109e-02  4.112e-02  -0.513  0.60808
## f.22000.0.087   4.033e-02  4.107e-02   0.982  0.32604
## f.22000.0.088   6.116e-03  4.190e-02   0.146  0.88393
## f.22000.0.089   2.830e-03  4.152e-02   0.068  0.94566
## f.22000.0.09   -9.308e-03  3.987e-02  -0.233  0.81538
## f.22000.0.0-9   6.914e-02  4.085e-02   1.692  0.09058 .
## f.22000.0.090  -2.502e-03  4.117e-02  -0.061  0.95153
## f.22000.0.091  -3.961e-02  4.250e-02  -0.932  0.35124
## f.22000.0.092   2.309e-02  4.118e-02   0.561  0.57497
## f.22000.0.093   1.186e-02  4.114e-02   0.288  0.77322
## f.22000.0.094   3.675e-03  5.258e-02   0.070  0.94428
## f.22000.0.095  -1.614e-02  4.389e-02  -0.368  0.71299
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.983 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03467,    Adjusted R-squared:  0.03362
## F-statistic: 33.09 on 128 and 117940 DF,  p-value: < 2.2e-16
```

```
#full model
summary(lm(selfharmscore ~  `0.001000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0
.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.001000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1506 -0.6194 -0.4346  0.4543  4.2045
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.026e+01  7.406e-01 -54.362  < 2e-16 ***
## `0.001000`      1.740e-02  2.863e-03   6.078 1.22e-09 ***
## f.22009.0.1     9.888e-03  3.029e-03   3.265  0.00110 **
## f.22009.0.2    -3.273e-03  2.915e-03  -1.123  0.26147
## f.22009.0.3    -1.851e-03  2.990e-03  -0.619  0.53592
## f.22009.0.4    -7.445e-03  4.184e-03  -1.779  0.07519 .
## f.22009.0.5     3.326e-03  4.062e-03   0.819  0.41280
## f.22009.0.6     2.095e-04  2.959e-03   0.071  0.94354
```

```
## f.22009.0.6     2.095e-04  2.959e-03   0.071  0.94354
## f.22009.0.7    -9.021e-03  3.032e-03  -2.975  0.00293 **
## f.22009.0.8     7.142e-03  3.197e-03   2.234  0.02549 *
## f.22009.0.9    -9.083e-03  3.051e-03  -2.977  0.00291 **
## f.22009.0.10    2.714e-03  3.541e-03   0.766  0.44343
## f.22009.0.11    3.872e-04  4.119e-03   0.094  0.92509
## f.22009.0.12    2.804e-03  3.618e-03   0.775  0.43835
## f.22009.0.13   -3.178e-03  2.911e-03  -1.092  0.27495
## f.22009.0.14   -1.681e-02  3.076e-03  -5.466 4.61e-08 ***
## f.22009.0.15   -1.339e-03  3.153e-03  -0.425  0.67104
## f.22009.0.16   -9.811e-03  3.088e-03  -3.177  0.00149 **
## f.22009.0.17   -1.607e-05  2.869e-03  -0.006  0.99553
## f.22009.0.18   -3.259e-04  2.876e-03  -0.113  0.90976
## f.22009.0.19    2.511e-03  2.863e-03   0.877  0.38048
## f.22009.0.20    2.866e-03  2.869e-03   0.999  0.31778
## f.22001.0.01   -1.497e-01  5.782e-03 -25.890  < 2e-16 ***
## f.34.0.0        2.066e-02  3.790e-04  54.504  < 2e-16 ***
## f.22000.0.0-1   3.682e-02  4.043e-02   0.911  0.36250
## f.22000.0.010  -3.802e-02  4.084e-02  -0.931  0.35189
## f.22000.0.0-10  7.938e-02  4.107e-02   1.933  0.05326 .
## f.22000.0.011   5.804e-02  4.018e-02   1.445  0.14858
## f.22000.0.0-11  2.787e-02  4.074e-02   0.684  0.49381
## f.22000.0.012  -7.804e-03  4.048e-02  -0.193  0.84713
## f.22000.0.013  -1.923e-02  4.028e-02  -0.477  0.63309
## f.22000.0.014   9.887e-03  4.004e-02   0.247  0.80497
## f.22000.0.015   3.395e-02  4.038e-02   0.841  0.40048
## f.22000.0.016   4.580e-02  4.053e-02   1.130  0.25847
## f.22000.0.017   2.227e-02  4.016e-02   0.554  0.57925
## f.22000.0.018  -3.067e-02  4.052e-02  -0.757  0.44913
## f.22000.0.019  -3.810e-03  3.979e-02  -0.096  0.92370
## f.22000.0.02   -1.786e-02  3.994e-02  -0.447  0.65481
## f.22000.0.0-2   7.893e-02  4.067e-02   1.941  0.05226 .
## f.22000.0.020  -1.202e-02  4.047e-02  -0.297  0.76645
## f.22000.0.021   3.501e-02  4.033e-02   0.868  0.38532
## f.22000.0.022   6.087e-03  4.033e-02   0.151  0.88002
## f.22000.0.023  -3.804e-03  4.035e-02  -0.094  0.92490
## f.22000.0.024   7.339e-03  3.979e-02   0.184  0.85368
## f.22000.0.025   2.569e-02  4.084e-02   0.629  0.52937
## f.22000.0.026  -5.225e-02  4.061e-02  -1.286  0.19829
## f.22000.0.027  -2.020e-02  3.997e-02  -0.505  0.61325
## f.22000.0.028   3.837e-03  4.039e-02   0.095  0.92432
## f.22000.0.029  -1.661e-03  4.006e-02  -0.041  0.96694
## f.22000.0.03    4.957e-03  4.002e-02   0.124  0.90141
## f.22000.0.0-3   1.771e-03  4.021e-02   0.044  0.96487
## f.22000.0.030  -3.707e-02  4.005e-02  -0.926  0.35462
## f.22000.0.031  -2.307e-02  4.024e-02  -0.573  0.56643
## f.22000.0.032  -1.985e-02  4.034e-02  -0.492  0.62274
## f.22000.0.033   1.196e-03  4.108e-02   0.029  0.97678
## f.22000.0.034   3.225e-02  4.012e-02   0.804  0.42148
## f.22000.0.035   5.110e-02  4.027e-02   1.269  0.20452
## f.22000.0.036   5.737e-03  3.997e-02   0.144  0.88587
## f.22000.0.037  -1.973e-02  4.057e-02  -0.486  0.62668
## f.22000.0.038   4.194e-02  4.037e-02   1.039  0.29890
## f.22000.0.039   1.379e-02  4.084e-02   0.338  0.73569
## f.22000.0.04   -7.151e-03  4.069e-02  -0.176  0.86050
## f.22000.0.0-4   5.654e-02  4.094e-02   1.381  0.16726
## f.22000.0.040   5.976e-03  4.040e-02   0.148  0.88241
## f.22000.0.041   1.204e-03  4.092e-02   0.029  0.97653
## f.22000.0.042  -3.537e-02  4.019e-02  -0.880  0.37882
## f.22000.0.043  -3.413e-02  4.097e-02  -0.833  0.40478
## f.22000.0.044   5.692e-02  4.061e-02   1.402  0.16106
## f.22000.0.045  -1.266e-03  4.052e-02  -0.031  0.97508
## f.22000.0.046  -3.769e-02  4.072e-02  -0.925  0.35475
## f.22000.0.047  -1.962e-02  4.078e-02  -0.481  0.63047
## f.22000.0.048  -1.629e-02  4.077e-02  -0.400  0.68948
## f.22000.0.049   4.875e-02  4.071e-02   1.198  0.23105
## f.22000.0.05   -9.859e-03  4.006e-02  -0.246  0.80559
## f.22000.0.0-5   7.399e-02  4.048e-02   1.828  0.06759 .
## f.22000.0.050   1.457e-03  4.071e-02   0.036  0.97144
## f.22000.0.051   7.114e-02  4.021e-02   1.769  0.07681 .
## f.22000.0.052   1.840e-03  4.100e-02   0.045  0.96419
## f.22000.0.053  -1.665e-02  4.062e-02  -0.410  0.68188
## f.22000.0.054   6.046e-02  4.069e-02   1.486  0.13727
```

```
## f.22000.0.055   5.732e-02  4.113e-02   1.394  0.16340
## f.22000.0.056   3.643e-02  4.075e-02   0.894  0.37143
## f.22000.0.057   4.663e-02  4.087e-02   1.141  0.25395
## f.22000.0.058   1.341e-02  4.075e-02   0.329  0.74212
## f.22000.0.059   1.225e-02  4.058e-02   0.302  0.76272
## f.22000.0.06    7.871e-03  3.990e-02   0.197  0.84361
## f.22000.0.0-6   4.244e-02  4.083e-02   1.039  0.29866
## f.22000.0.060  -2.654e-02  4.097e-02  -0.648  0.51711
## f.22000.0.061   1.523e-02  4.115e-02   0.370  0.71120
## f.22000.0.062   2.908e-02  4.105e-02   0.709  0.47862
## f.22000.0.063   6.101e-04  4.103e-02   0.015  0.98813
## f.22000.0.064  -1.580e-02  4.073e-02  -0.388  0.69805
## f.22000.0.065  -1.726e-02  4.095e-02  -0.422  0.67333
## f.22000.0.066  -1.087e-02  4.132e-02  -0.263  0.79243
## f.22000.0.067  -2.243e-02  4.093e-02  -0.548  0.58373
## f.22000.0.068   7.935e-03  4.082e-02   0.194  0.84587
## f.22000.0.069   1.944e-03  4.098e-02   0.047  0.96216
## f.22000.0.07   -3.549e-02  4.021e-02  -0.883  0.37747
## f.22000.0.0-7   4.778e-02  4.054e-02   1.179  0.23851
## f.22000.0.070  -1.859e-02  4.106e-02  -0.453  0.65072
## f.22000.0.071  -9.952e-03  4.079e-02  -0.244  0.80726
## f.22000.0.072  -6.415e-03  4.107e-02  -0.156  0.87587
## f.22000.0.073  -5.703e-03  4.113e-02  -0.139  0.88972
## f.22000.0.074   3.556e-02  4.120e-02   0.863  0.38814
## f.22000.0.075   6.241e-02  4.077e-02   1.531  0.12586
## f.22000.0.076   3.716e-02  4.120e-02   0.902  0.36709
## f.22000.0.077   6.391e-03  4.102e-02   0.156  0.87618
## f.22000.0.078  -5.135e-02  4.084e-02  -1.257  0.20867
## f.22000.0.079  -1.678e-02  4.069e-02  -0.413  0.67996
## f.22000.0.08   -1.001e-02  4.013e-02  -0.249  0.80298
## f.22000.0.0-8   2.143e-02  4.085e-02   0.525  0.59986
## f.22000.0.080   3.660e-02  4.116e-02   0.889  0.37387
## f.22000.0.081   1.241e-03  4.166e-02   0.030  0.97623
## f.22000.0.082  -4.176e-02  4.112e-02  -1.016  0.30985
## f.22000.0.083  -1.395e-03  4.117e-02  -0.034  0.97296
## f.22000.0.084   2.300e-02  4.117e-02   0.559  0.57642
## f.22000.0.085   3.811e-02  4.105e-02   0.928  0.35316
## f.22000.0.086  -2.252e-02  4.113e-02  -0.548  0.58402
## f.22000.0.087   3.961e-02  4.108e-02   0.964  0.33488
## f.22000.0.088   4.722e-03  4.191e-02   0.113  0.91028
## f.22000.0.089   2.294e-03  4.153e-02   0.055  0.95594
## f.22000.0.09   -9.769e-03  3.987e-02  -0.245  0.80646
## f.22000.0.0-9   6.692e-02  4.086e-02   1.638  0.10149
## f.22000.0.090  -4.050e-03  4.118e-02  -0.098  0.92166
## f.22000.0.091  -4.046e-02  4.251e-02  -0.952  0.34121
## f.22000.0.092   2.273e-02  4.119e-02   0.552  0.58111
## f.22000.0.093   1.175e-02  4.115e-02   0.286  0.77516
## f.22000.0.094   2.590e-03  5.259e-02   0.049  0.96073
## f.22000.0.095  -1.801e-02  4.390e-02  -0.410  0.68159
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9833 on 117940 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03421,    Adjusted R-squared:  0.03316
## F-statistic: 32.64 on 128 and 117940 DF,  p-value: < 2.2e-16
```

Let's now run regression models for individual items in childhood traumatic events

```
## individual trauma score: f.20489.0.0 <-  # Felt loved as a child

# full model

summary(lm( f.20489.0.0 ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0.
5 + f.22009.0.6 +
             f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20489.0.0 ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
```

```
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.0819 -0.7871 -0.6906  0.3230  3.6141
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.5184947  0.7475547  -2.031  0.04223 *
## `1.000000`      0.0306542  0.0028913  10.602  < 2e-16 ***
## f.22009.0.1     0.0022001  0.0030573   0.720  0.47177
## f.22009.0.2    -0.0053593  0.0029429  -1.821  0.06860 .
## f.22009.0.3     0.0012464  0.0030187   0.413  0.67968
## f.22009.0.4    -0.0021541  0.0042239  -0.510  0.61006
## f.22009.0.5     0.0185080  0.0041001   4.514 6.37e-06 ***
## f.22009.0.6    -0.0002037  0.0029883  -0.068  0.94565
## f.22009.0.7    -0.0043378  0.0030598  -1.418  0.15629
## f.22009.0.8     0.0085317  0.0032272   2.644  0.00820 **
## f.22009.0.9     0.0134116  0.0030807   4.353 1.34e-05 ***
## f.22009.0.10   -0.0033427  0.0035742  -0.935  0.34967
## f.22009.0.11    0.0110961  0.0041562   2.670  0.00759 **
## f.22009.0.12   -0.0031681  0.0036514  -0.868  0.38559
## f.22009.0.13   -0.0022106  0.0029384  -0.752  0.45187
## f.22009.0.14   -0.0301990  0.0031055  -9.724  < 2e-16 ***
## f.22009.0.15   -0.0005856  0.0031831  -0.184  0.85403
## f.22009.0.16   -0.0125925  0.0031176  -4.039 5.37e-05 ***
## f.22009.0.17   -0.0017833  0.0028950  -0.616  0.53791
## f.22009.0.18    0.0042690  0.0029024   1.471  0.14134
## f.22009.0.19    0.0009495  0.0028903   0.329  0.74251
## f.22009.0.20   -0.0013725  0.0028956  -0.474  0.63550
## f.22001.0.01    0.0131330  0.0058379   2.250  0.02448 *
## f.34.0.0        0.0007823  0.0003825   2.045  0.04086 *
## f.22000.0.0-1   0.0374434  0.0408378   0.917  0.35921
## f.22000.0.010  -0.0593736  0.0412764  -1.438  0.15031
## f.22000.0.0-10  0.0041343  0.0415064   0.100  0.92066
## f.22000.0.011  -0.0055983  0.0405945  -0.138  0.89031
## f.22000.0.0-11  0.0306985  0.0411428   0.746  0.45558
## f.22000.0.012  -0.0186203  0.0408809  -0.455  0.64877
## f.22000.0.013  -0.0281950  0.0407450  -0.692  0.48895
## f.22000.0.014  -0.0193372  0.0404773  -0.478  0.63284
## f.22000.0.015   0.0054141  0.0407373   0.133  0.89427
## f.22000.0.016   0.0187792  0.0409630   0.458  0.64664
## f.22000.0.017  -0.0001104  0.0405524  -0.003  0.99783
## f.22000.0.018  -0.0282820  0.0409956  -0.690  0.49027
## f.22000.0.019  -0.0161985  0.0402202  -0.403  0.68714
## f.22000.0.02   -0.0333901  0.0403578  -0.827  0.40804
## f.22000.0.0-2   0.0319889  0.0410746   0.779  0.43610
## f.22000.0.020   0.0167788  0.0408620   0.411  0.68135
## f.22000.0.021  -0.0251303  0.0407895  -0.616  0.53783
## f.22000.0.022   0.0102528  0.0407387   0.252  0.80129
## f.22000.0.023   0.0007827  0.0407270   0.019  0.98467
## f.22000.0.024  -0.0344689  0.0401876  -0.858  0.39106
## f.22000.0.025  -0.0391392  0.0412373  -0.949  0.34256
## f.22000.0.026  -0.0255702  0.0409826  -0.624  0.53268
## f.22000.0.027  -0.0436334  0.0403094  -1.082  0.27905
## f.22000.0.028  -0.0080267  0.0407108  -0.197  0.84370
## f.22000.0.029  -0.0204965  0.0404601  -0.507  0.61245
## f.22000.0.03   -0.0299117  0.0403662  -0.741  0.45869
## f.22000.0.0-3  -0.0074136  0.0406749  -0.182  0.85538
## f.22000.0.030  -0.0207878  0.0404601  -0.514  0.60740
## f.22000.0.031   0.0204216  0.0405895   0.503  0.61488
## f.22000.0.032   0.0202556  0.0407818   0.497  0.61941
## f.22000.0.033   0.0223717  0.0415049   0.539  0.58988
## f.22000.0.034   0.0165312  0.0405418   0.408  0.68345
## f.22000.0.035   0.0037228  0.0406303   0.092  0.92700
## f.22000.0.036   0.0054448  0.0403326   0.135  0.89261
## f.22000.0.037   0.0063135  0.0409369   0.154  0.87743
## f.22000.0.038   0.0274036  0.0408084   0.672  0.50189
## f.22000.0.039  -0.0215460  0.0412554  -0.522  0.60149
```

```
## f.22000.0.059  -0.0215460  0.0412554  -0.522  0.60149
## f.22000.0.04   -0.0252047  0.0411142  -0.613  0.53985
## f.22000.0.0-4   0.1014508  0.0413166   2.455  0.01407 *
## f.22000.0.040  -0.0033834  0.0407379  -0.083  0.93381
## f.22000.0.041  -0.0218674  0.0413441  -0.529  0.59687
## f.22000.0.042  -0.0518777  0.0406662  -1.276  0.20207
## f.22000.0.043  -0.0171534  0.0413949  -0.414  0.67859
## f.22000.0.044  -0.0597113  0.0409358  -1.459  0.14466
## f.22000.0.045   0.0039370  0.0409643   0.096  0.92343
## f.22000.0.046  -0.0674792  0.0411895  -1.638  0.10137
## f.22000.0.047  -0.0248561  0.0412178  -0.603  0.54648
## f.22000.0.048   0.0211367  0.0411346   0.514  0.60736
## f.22000.0.049  -0.0568547  0.0411523  -1.382  0.16711
## f.22000.0.05   -0.0413072  0.0404492  -1.021  0.30716
## f.22000.0.0-5   0.0453867  0.0408721   1.110  0.26680
## f.22000.0.050   0.0103941  0.0412366   0.252  0.80099
## f.22000.0.051   0.0127600  0.0405976   0.314  0.75329
## f.22000.0.052  -0.0551970  0.0413257  -1.336  0.18166
## f.22000.0.053  -0.0593414  0.0410368  -1.446  0.14816
## f.22000.0.054  -0.0152521  0.0411420  -0.371  0.71085
## f.22000.0.055  -0.0146196  0.0414842  -0.352  0.72453
## f.22000.0.056  -0.0612126  0.0411231  -1.489  0.13662
## f.22000.0.057  -0.0831587  0.0413366  -2.012  0.04425 *
## f.22000.0.058  -0.0411686  0.0411318  -1.001  0.31688
## f.22000.0.059  -0.0115460  0.0409712  -0.282  0.77809
## f.22000.0.06   -0.0267652  0.0402993  -0.664  0.50659
## f.22000.0.0-6   0.0311938  0.0411994   0.757  0.44897
## f.22000.0.060  -0.0497707  0.0413839  -1.203  0.22911
## f.22000.0.061   0.0198843  0.0416141   0.478  0.63277
## f.22000.0.062  -0.0075334  0.0414841  -0.182  0.85590
## f.22000.0.063  -0.0287192  0.0414822  -0.692  0.48873
## f.22000.0.064   0.0094274  0.0411212   0.229  0.81867
## f.22000.0.065  -0.0431711  0.0413653  -1.044  0.29665
## f.22000.0.066  -0.0138863  0.0417819  -0.332  0.73962
## f.22000.0.067  -0.0213274  0.0413430  -0.516  0.60595
## f.22000.0.068  -0.0143438  0.0413234  -0.347  0.72851
## f.22000.0.069  -0.0345621  0.0413828  -0.835  0.40362
## f.22000.0.07   -0.0275464  0.0406165  -0.678  0.49764
## f.22000.0.0-7  -0.0269981  0.0409831  -0.659  0.51005
## f.22000.0.070   0.0299322  0.0413750   0.723  0.46941
## f.22000.0.071  -0.0581302  0.0411711  -1.412  0.15798
## f.22000.0.072  -0.0200030  0.0414243  -0.483  0.62918
## f.22000.0.073  -0.0157612  0.0414554  -0.380  0.70380
## f.22000.0.074  -0.0446656  0.0415941  -1.074  0.28289
## f.22000.0.075   0.0427931  0.0412180   1.038  0.29917
## f.22000.0.076  -0.0412018  0.0416363  -0.990  0.32239
## f.22000.0.077  -0.0832692  0.0414028  -2.011  0.04431 *
## f.22000.0.078  -0.0578427  0.0411620  -1.405  0.15995
## f.22000.0.079  -0.0555252  0.0410752  -1.352  0.17644
## f.22000.0.08   -0.0236481  0.0405783  -0.583  0.56004
## f.22000.0.0-8  -0.0073979  0.0411326  -0.180  0.85727
## f.22000.0.080  -0.0345645  0.0415453  -0.832  0.40543
## f.22000.0.081  -0.0141117  0.0419953  -0.336  0.73685
## f.22000.0.082  -0.0454725  0.0415026  -1.096  0.27323
## f.22000.0.083  -0.0380465  0.0416076  -0.914  0.36050
## f.22000.0.084   0.0243523  0.0416168   0.585  0.55844
## f.22000.0.085   0.0237262  0.0414521   0.572  0.56707
## f.22000.0.086  -0.0014186  0.0415742  -0.034  0.97278
## f.22000.0.087  -0.0919351  0.0415641  -2.212  0.02698 *
## f.22000.0.088  -0.0262947  0.0422743  -0.622  0.53394
## f.22000.0.089  -0.0067498  0.0419980  -0.161  0.87232
## f.22000.0.09   -0.0187149  0.0403586  -0.464  0.64285
## f.22000.0.0-9  -0.0065330  0.0411507  -0.159  0.87386
## f.22000.0.090   0.0377130  0.0415356   0.908  0.36390
## f.22000.0.091  -0.0171379  0.0429406  -0.399  0.68981
## f.22000.0.092   0.0101364  0.0416889   0.243  0.80789
## f.22000.0.093  -0.0117620  0.0416286  -0.283  0.77752
## f.22000.0.094   0.0429449  0.0532223   0.807  0.41973
## f.22000.0.095  -0.0246996  0.0443727  -0.557  0.57777
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9987 on 119406 degrees of freedom
```

```
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.003731,   Adjusted R-squared:  0.002663
## F-statistic: 3.493 on 128 and 119406 DF,  p-value: < 2.2e-16
```

```
# covariates only

summary(lm( f.20489.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0.5 + f.22009.
0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20489.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.0627 -0.7866 -0.7055  0.3138  3.5921
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.531e+00  7.479e-01  -2.046  0.04072 *
## f.22009.0.1     2.461e-03  3.059e-03   0.805  0.42107
## f.22009.0.2    -5.436e-03  2.944e-03  -1.846  0.06485 .
## f.22009.0.3     1.144e-03  3.020e-03   0.379  0.70479
## f.22009.0.4    -2.094e-03  4.226e-03  -0.496  0.62016
## f.22009.0.5     1.932e-02  4.101e-03   4.710 2.48e-06 ***
## f.22009.0.6    -7.059e-05  2.990e-03  -0.024  0.98116
## f.22009.0.7    -4.652e-03  3.061e-03  -1.520  0.12857
## f.22009.0.8     8.477e-03  3.229e-03   2.625  0.00866 **
## f.22009.0.9     1.344e-02  3.082e-03   4.359 1.31e-05 ***
## f.22009.0.10   -3.459e-03  3.576e-03  -0.967  0.33342
## f.22009.0.11    1.156e-02  4.158e-03   2.780  0.00543 **
## f.22009.0.12   -3.084e-03  3.653e-03  -0.844  0.39850
## f.22009.0.13   -2.163e-03  2.940e-03  -0.736  0.46195
## f.22009.0.14   -3.063e-02  3.107e-03  -9.860  < 2e-16 ***
## f.22009.0.15   -5.834e-04  3.185e-03  -0.183  0.85465
## f.22009.0.16   -1.258e-02  3.119e-03  -4.032 5.54e-05 ***
## f.22009.0.17   -1.876e-03  2.896e-03  -0.648  0.51710
## f.22009.0.18    4.211e-03  2.904e-03   1.450  0.14702
## f.22009.0.19    1.117e-03  2.892e-03   0.386  0.69940
## f.22009.0.20   -1.103e-03  2.897e-03  -0.381  0.70351
## f.22001.0.01    1.249e-02  5.840e-03   2.138  0.03248 *
## f.34.0.0        7.886e-04  3.827e-04   2.061  0.03934 *
## f.22000.0.0-1   3.738e-02  4.086e-02   0.915  0.36020
## f.22000.0.010  -5.926e-02  4.130e-02  -1.435  0.15125
## f.22000.0.0-10  2.987e-03  4.153e-02   0.072  0.94266
## f.22000.0.011  -5.365e-03  4.061e-02  -0.132  0.89490
## f.22000.0.0-11  3.101e-02  4.116e-02   0.753  0.45130
## f.22000.0.012  -1.886e-02  4.090e-02  -0.461  0.64469
## f.22000.0.013  -2.947e-02  4.076e-02  -0.723  0.46973
## f.22000.0.014  -2.013e-02  4.050e-02  -0.497  0.61907
## f.22000.0.015   5.406e-03  4.076e-02   0.133  0.89447
## f.22000.0.016   1.822e-02  4.098e-02   0.445  0.65657
## f.22000.0.017   5.025e-04  4.057e-02   0.012  0.99012
## f.22000.0.018  -2.806e-02  4.101e-02  -0.684  0.49391
## f.22000.0.019  -1.763e-02  4.024e-02  -0.438  0.66122
## f.22000.0.02   -3.262e-02  4.038e-02  -0.808  0.41911
## f.22000.0.0-2   3.219e-02  4.109e-02   0.783  0.43349
## f.22000.0.020   1.611e-02  4.088e-02   0.394  0.69356
## f.22000.0.021  -2.501e-02  4.081e-02  -0.613  0.54002
## f.22000.0.022   1.022e-02  4.076e-02   0.251  0.80197
## f.22000.0.023   4.083e-04  4.075e-02   0.010  0.99200
## f.22000.0.024  -3.500e-02  4.021e-02  -0.870  0.38405
## f.22000.0.025  -3.898e-02  4.126e-02  -0.945  0.34474
## f.22000.0.026  -2.723e-02  4.100e-02  -0.664  0.50661
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## f.22000.0.026  -2.725e-02  4.100e-02  -0.664  0.50661
## f.22000.0.027  -4.372e-02  4.033e-02  -1.084  0.27836
## f.22000.0.028  -8.742e-03  4.073e-02  -0.215  0.83004
## f.22000.0.029  -2.004e-02  4.048e-02  -0.495  0.62059
## f.22000.0.03   -3.056e-02  4.039e-02  -0.757  0.44928
## f.22000.0.0-3  -6.842e-03  4.069e-02  -0.168  0.86648
## f.22000.0.030  -2.015e-02  4.048e-02  -0.498  0.61862
## f.22000.0.031   2.149e-02  4.061e-02   0.529  0.59672
## f.22000.0.032   2.046e-02  4.080e-02   0.501  0.61609
## f.22000.0.033   2.288e-02  4.152e-02   0.551  0.58169
## f.22000.0.034   1.649e-02  4.056e-02   0.407  0.68436
## f.22000.0.035   3.191e-03  4.065e-02   0.079  0.93743
## f.22000.0.036   5.689e-03  4.035e-02   0.141  0.88787
## f.22000.0.037   5.533e-03  4.096e-02   0.135  0.89253
## f.22000.0.038   2.665e-02  4.083e-02   0.653  0.51391
## f.22000.0.039  -2.050e-02  4.127e-02  -0.497  0.61949
## f.22000.0.04   -2.526e-02  4.113e-02  -0.614  0.53914
## f.22000.0.0-4   1.018e-01  4.134e-02   2.462  0.01382 *
## f.22000.0.040  -4.143e-03  4.076e-02  -0.102  0.91904
## f.22000.0.041  -2.292e-02  4.136e-02  -0.554  0.57954
## f.22000.0.042  -5.133e-02  4.069e-02  -1.262  0.20706
## f.22000.0.043  -1.723e-02  4.141e-02  -0.416  0.67745
## f.22000.0.044  -6.063e-02  4.095e-02  -1.481  0.13874
## f.22000.0.045   5.375e-03  4.098e-02   0.131  0.89566
## f.22000.0.046  -6.533e-02  4.121e-02  -1.585  0.11290
## f.22000.0.047  -2.628e-02  4.124e-02  -0.637  0.52394
## f.22000.0.048   1.946e-02  4.115e-02   0.473  0.63626
## f.22000.0.049  -5.799e-02  4.117e-02  -1.408  0.15899
## f.22000.0.05   -4.240e-02  4.047e-02  -1.048  0.29480
## f.22000.0.0-5   4.346e-02  4.089e-02   1.063  0.28786
## f.22000.0.050   9.294e-03  4.126e-02   0.225  0.82176
## f.22000.0.051   1.188e-02  4.062e-02   0.293  0.76985
## f.22000.0.052  -5.638e-02  4.134e-02  -1.364  0.17266
## f.22000.0.053  -5.947e-02  4.106e-02  -1.448  0.14749
## f.22000.0.054  -1.488e-02  4.116e-02  -0.362  0.71769
## f.22000.0.055  -1.354e-02  4.150e-02  -0.326  0.74427
## f.22000.0.056  -6.262e-02  4.114e-02  -1.522  0.12800
## f.22000.0.057  -8.289e-02  4.136e-02  -2.004  0.04503 *
## f.22000.0.058  -4.162e-02  4.115e-02  -1.011  0.31178
## f.22000.0.059  -1.138e-02  4.099e-02  -0.278  0.78132
## f.22000.0.06   -2.638e-02  4.032e-02  -0.654  0.51299
## f.22000.0.0-6   3.198e-02  4.122e-02   0.776  0.43789
## f.22000.0.060  -5.066e-02  4.140e-02  -1.224  0.22110
## f.22000.0.061   2.005e-02  4.163e-02   0.482  0.63004
## f.22000.0.062  -6.410e-03  4.150e-02  -0.154  0.87726
## f.22000.0.063  -2.903e-02  4.150e-02  -0.699  0.48429
## f.22000.0.064   9.021e-03  4.114e-02   0.219  0.82644
## f.22000.0.065  -4.390e-02  4.138e-02  -1.061  0.28880
## f.22000.0.066  -1.513e-02  4.180e-02  -0.362  0.71731
## f.22000.0.067  -2.189e-02  4.136e-02  -0.529  0.59672
## f.22000.0.068  -1.458e-02  4.134e-02  -0.353  0.72426
## f.22000.0.069  -3.556e-02  4.140e-02  -0.859  0.39034
## f.22000.0.07   -2.808e-02  4.064e-02  -0.691  0.48949
## f.22000.0.0-7  -2.849e-02  4.100e-02  -0.695  0.48714
## f.22000.0.070   3.070e-02  4.139e-02   0.742  0.45824
## f.22000.0.071  -5.689e-02  4.119e-02  -1.381  0.16722
## f.22000.0.072  -1.852e-02  4.144e-02  -0.447  0.65492
## f.22000.0.073  -1.694e-02  4.147e-02  -0.409  0.68289
## f.22000.0.074  -4.481e-02  4.161e-02  -1.077  0.28161
## f.22000.0.075   4.380e-02  4.124e-02   1.062  0.28821
## f.22000.0.076  -3.983e-02  4.166e-02  -0.956  0.33903
## f.22000.0.077  -8.435e-02  4.142e-02  -2.036  0.04172 *
## f.22000.0.078  -5.969e-02  4.118e-02  -1.449  0.14722
## f.22000.0.079  -5.392e-02  4.109e-02  -1.312  0.18951
## f.22000.0.08   -2.210e-02  4.060e-02  -0.544  0.58626
## f.22000.0.0-8  -8.222e-03  4.115e-02  -0.200  0.84165
## f.22000.0.080  -3.489e-02  4.156e-02  -0.840  0.40118
## f.22000.0.081  -1.415e-02  4.201e-02  -0.337  0.73634
## f.22000.0.082  -4.413e-02  4.152e-02  -1.063  0.28784
## f.22000.0.083  -3.852e-02  4.163e-02  -0.925  0.35472
## f.22000.0.084   2.590e-02  4.164e-02   0.622  0.53395
## f.22000.0.085   2.551e-02  4.147e-02   0.615  0.53847
## f.22000.0.086  -1.500e-03  4.159e-02  -0.036  0.97122
```

```
## f.22000.0.087  -9.140e-02  4.158e-02  -2.198  0.02796 *
## f.22000.0.088  -2.617e-02  4.229e-02  -0.619  0.53601
## f.22000.0.089  -5.505e-03  4.202e-02  -0.131  0.89576
## f.22000.0.09   -1.940e-02  4.038e-02  -0.481  0.63081
## f.22000.0.0-9  -7.456e-03  4.117e-02  -0.181  0.85629
## f.22000.0.090   3.741e-02  4.155e-02   0.900  0.36795
## f.22000.0.091  -1.818e-02  4.296e-02  -0.423  0.67225
## f.22000.0.092   1.129e-02  4.171e-02   0.271  0.78664
## f.22000.0.093  -1.136e-02  4.165e-02  -0.273  0.78512
## f.22000.0.094   4.139e-02  5.325e-02   0.777  0.43692
## f.22000.0.095  -2.439e-02  4.439e-02  -0.549  0.58267
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9991 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.002793,   Adjusted R-squared:  0.001732
## F-statistic: 2.633 on 127 and 119407 DF,  p-value: < 2.2e-16
```

```
## individual trauma score: f.20488.0.0 <-#physically abused

# Full model
summary(lm( f.20488.0.0 ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5
+ f.22009.0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20488.0.0 ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.9600 -0.4583 -0.3691 -0.2655  6.0473
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.963e+01  7.434e-01 -26.408  < 2e-16 ***
## `1.000000`      2.530e-02  2.876e-03   8.799  < 2e-16 ***
## f.22009.0.1     2.551e-03  3.040e-03   0.839  0.40138
## f.22009.0.2    -3.691e-03  2.926e-03  -1.261  0.20714
## f.22009.0.3     3.614e-03  3.002e-03   1.204  0.22859
## f.22009.0.4     2.427e-03  4.200e-03   0.578  0.56339
## f.22009.0.5     4.332e-02  4.077e-03  10.625  < 2e-16 ***
## f.22009.0.6    -1.692e-03  2.972e-03  -0.569  0.56922
## f.22009.0.7    -6.953e-03  3.043e-03  -2.285  0.02231 *
## f.22009.0.8     7.284e-03  3.209e-03   2.270  0.02322 *
## f.22009.0.9     9.143e-03  3.064e-03   2.984  0.00285 **
## f.22009.0.10   -4.007e-03  3.554e-03  -1.127  0.25961
## f.22009.0.11    1.990e-02  4.133e-03   4.813 1.49e-06 ***
## f.22009.0.12   -4.250e-03  3.631e-03  -1.170  0.24181
## f.22009.0.13   -2.028e-03  2.922e-03  -0.694  0.48756
## f.22009.0.14   -2.909e-02  3.088e-03  -9.420  < 2e-16 ***
## f.22009.0.15    4.239e-03  3.165e-03   1.339  0.18048
## f.22009.0.16   -1.278e-02  3.100e-03  -4.121 3.77e-05 ***
## f.22009.0.17   -4.214e-03  2.879e-03  -1.464  0.14325
## f.22009.0.18    9.157e-03  2.886e-03   3.173  0.00151 **
## f.22009.0.19   -1.858e-04  2.874e-03  -0.065  0.94847
## f.22009.0.20    4.603e-03  2.879e-03   1.598  0.10993
## f.22001.0.01    7.687e-02  5.805e-03  13.241  < 2e-16 ***
## f.34.0.0        1.004e-02  3.804e-04  26.399  < 2e-16 ***
## f.22000.0.0-1   6.446e-02  4.057e-02   1.589  0.11208
## f.22000.0.010  -5.878e-02  4.105e-02  -1.432  0.15217
## f.22000.0.0-10  4.599e-02  4.127e-02   1.115  0.26505
## f.22000.0.011  -2.276e-02  4.037e-02  -0.564  0.57284
## f.22000.0.0-11  8.383e-02  4.090e-02   2.050  0.04038 *
```

```
## f.22000.0.0-11  8.385e-02  4.090e-02   2.050  0.04038 *
## f.22000.0.012  -5.654e-02  4.065e-02  -1.391  0.16422
## f.22000.0.013  -4.669e-02  4.049e-02  -1.153  0.24893
## f.22000.0.014   1.374e-02  4.022e-02   0.342  0.73268
## f.22000.0.015   1.243e-03  4.052e-02   0.031  0.97554
## f.22000.0.016  -2.253e-02  4.071e-02  -0.553  0.58004
## f.22000.0.017   2.781e-02  4.034e-02   0.689  0.49055
## f.22000.0.018   3.628e-02  4.072e-02   0.891  0.37301
## f.22000.0.019  -1.728e-02  3.997e-02  -0.432  0.66549
## f.22000.0.02    1.842e-02  4.014e-02   0.459  0.64624
## f.22000.0.0-2   2.057e-02  4.085e-02   0.504  0.61447
## f.22000.0.020  -2.885e-02  4.065e-02  -0.710  0.47785
## f.22000.0.021  -2.234e-02  4.056e-02  -0.551  0.58169
## f.22000.0.022   5.399e-02  4.051e-02   1.333  0.18264
## f.22000.0.023   3.295e-02  4.051e-02   0.813  0.41594
## f.22000.0.024  -5.022e-03  3.995e-02  -0.126  0.89997
## f.22000.0.025  -5.227e-02  4.099e-02  -1.275  0.20226
## f.22000.0.026  -2.647e-02  4.074e-02  -0.650  0.51591
## f.22000.0.027  -5.228e-02  4.007e-02  -1.305  0.19201
## f.22000.0.028   4.183e-03  4.048e-02   0.103  0.91769
## f.22000.0.029   2.069e-02  4.024e-02   0.514  0.60706
## f.22000.0.03    3.298e-02  4.016e-02   0.821  0.41150
## f.22000.0.0-3   4.864e-03  4.045e-02   0.120  0.90429
## f.22000.0.030  -6.139e-02  4.022e-02  -1.526  0.12692
## f.22000.0.031   1.209e-02  4.038e-02   0.299  0.76468
## f.22000.0.032  -2.413e-03  4.057e-02  -0.059  0.95256
## f.22000.0.033   1.761e-02  4.128e-02   0.427  0.66973
## f.22000.0.034   5.275e-03  4.032e-02   0.131  0.89591
## f.22000.0.035  -3.286e-02  4.039e-02  -0.814  0.41592
## f.22000.0.036   2.508e-03  4.012e-02   0.063  0.95015
## f.22000.0.037  -2.598e-02  4.072e-02  -0.638  0.52342
## f.22000.0.038  -1.328e-02  4.056e-02  -0.327  0.74333
## f.22000.0.039  -2.481e-02  4.102e-02  -0.605  0.54522
## f.22000.0.04   -2.794e-02  4.088e-02  -0.684  0.49426
## f.22000.0.0-4   2.590e-02  4.111e-02   0.630  0.52860
## f.22000.0.040   3.714e-02  4.051e-02   0.917  0.35923
## f.22000.0.041  -2.687e-02  4.111e-02  -0.654  0.51334
## f.22000.0.042  -1.850e-02  4.042e-02  -0.458  0.64715
## f.22000.0.043  -2.435e-02  4.115e-02  -0.592  0.55402
## f.22000.0.044  -5.684e-02  4.070e-02  -1.397  0.16255
## f.22000.0.045  -1.420e-02  4.074e-02  -0.349  0.72737
## f.22000.0.046  -1.417e-02  4.096e-02  -0.346  0.72947
## f.22000.0.047  -4.787e-02  4.096e-02  -1.169  0.24252
## f.22000.0.048   2.072e-02  4.088e-02   0.507  0.61219
## f.22000.0.049   1.681e-02  4.093e-02   0.411  0.68124
## f.22000.0.05   -5.491e-02  4.022e-02  -1.365  0.17216
## f.22000.0.0-5   8.922e-02  4.066e-02   2.194  0.02820 *
## f.22000.0.050   5.324e-02  4.099e-02   1.299  0.19399
## f.22000.0.051  -1.179e-02  4.036e-02  -0.292  0.77018
## f.22000.0.052  -2.212e-02  4.110e-02  -0.538  0.59043
## f.22000.0.053  -2.259e-02  4.081e-02  -0.553  0.57993
## f.22000.0.054  -6.576e-02  4.090e-02  -1.608  0.10793
## f.22000.0.055   2.187e-02  4.124e-02   0.530  0.59595
## f.22000.0.056  -1.963e-02  4.089e-02  -0.480  0.63114
## f.22000.0.057   3.177e-02  4.108e-02   0.773  0.43926
## f.22000.0.058  -3.367e-02  4.089e-02  -0.823  0.41029
## f.22000.0.059  -1.701e-02  4.075e-02  -0.417  0.67644
## f.22000.0.06    2.366e-02  4.008e-02   0.590  0.55492
## f.22000.0.0-6   4.170e-02  4.098e-02   1.018  0.30884
## f.22000.0.060  -2.704e-02  4.113e-02  -0.657  0.51091
## f.22000.0.061   1.292e-02  4.138e-02   0.312  0.75483
## f.22000.0.062  -4.527e-02  4.124e-02  -1.098  0.27239
## f.22000.0.063  -2.013e-02  4.123e-02  -0.488  0.62540
## f.22000.0.064  -2.983e-02  4.088e-02  -0.730  0.46559
## f.22000.0.065  -5.480e-03  4.114e-02  -0.133  0.89403
## f.22000.0.066  -3.431e-02  4.155e-02  -0.826  0.40894
## f.22000.0.067   1.387e-02  4.111e-02   0.337  0.73587
## f.22000.0.068   4.517e-02  4.104e-02   1.101  0.27104
## f.22000.0.069  -4.013e-02  4.115e-02  -0.975  0.32954
## f.22000.0.07    1.534e-02  4.038e-02   0.380  0.70399
## f.22000.0.0-7   4.075e-02  4.076e-02   1.000  0.31744
## f.22000.0.070  -5.375e-03  4.117e-02  -0.131  0.89611
## f.22000.0.071  -2.489e-02  4.095e-02  -0.608  0.54337
```

```
## f.22000.0.072   2.490e-02  4.121e-02   0.604  0.54567
## f.22000.0.073  -1.790e-02  4.119e-02  -0.435  0.66384
## f.22000.0.074  -1.152e-02  4.137e-02  -0.278  0.78068
## f.22000.0.075   2.364e-03  4.096e-02   0.058  0.95398
## f.22000.0.076  -2.871e-02  4.142e-02  -0.693  0.48814
## f.22000.0.077  -3.569e-02  4.118e-02  -0.866  0.38622
## f.22000.0.078  -4.965e-02  4.091e-02  -1.214  0.22485
## f.22000.0.079  -3.520e-03  4.086e-02  -0.086  0.93134
## f.22000.0.08   -1.113e-02  4.035e-02  -0.276  0.78275
## f.22000.0.0-8   7.982e-02  4.092e-02   1.950  0.05113 .
## f.22000.0.080  -7.817e-03  4.128e-02  -0.189  0.84982
## f.22000.0.081  -2.242e-02  4.177e-02  -0.537  0.59154
## f.22000.0.082  -1.222e-02  4.125e-02  -0.296  0.76699
## f.22000.0.083  -1.522e-02  4.138e-02  -0.368  0.71305
## f.22000.0.084  -2.981e-02  4.137e-02  -0.721  0.47118
## f.22000.0.085   3.290e-02  4.122e-02   0.798  0.42480
## f.22000.0.086   2.824e-02  4.132e-02   0.683  0.49434
## f.22000.0.087  -6.426e-02  4.131e-02  -1.555  0.11985
## f.22000.0.088  -4.734e-02  4.204e-02  -1.126  0.26013
## f.22000.0.089   1.222e-03  4.173e-02   0.029  0.97664
## f.22000.0.09   -2.859e-02  4.011e-02  -0.713  0.47591
## f.22000.0.0-9   6.191e-02  4.093e-02   1.512  0.13044
## f.22000.0.090   1.253e-02  4.132e-02   0.303  0.76171
## f.22000.0.091   9.730e-03  4.268e-02   0.228  0.81965
## f.22000.0.092  -2.880e-02  4.143e-02  -0.695  0.48691
## f.22000.0.093   1.086e-02  4.134e-02   0.263  0.79283
## f.22000.0.094   5.018e-03  5.285e-02   0.095  0.92436
## f.22000.0.095  -2.363e-02  4.408e-02  -0.536  0.59196
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9944 on 119713 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01228,    Adjusted R-squared:  0.01123
## F-statistic: 11.63 on 128 and 119713 DF,  p-value: < 2.2e-16
```

```
# Covariates only

summary(lm( f.20488.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.22009.0.5 + f.22009.
0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20488.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.9088 -0.4571 -0.3696 -0.2695  6.0421
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.964e+01  7.436e-01 -26.414  < 2e-16 ***
## f.22009.0.1     2.769e-03  3.041e-03   0.911   0.3625
## f.22009.0.2    -3.754e-03  2.927e-03  -1.283   0.1996
## f.22009.0.3     3.526e-03  3.003e-03   1.174   0.2402
## f.22009.0.4     2.477e-03  4.202e-03   0.590   0.5555
## f.22009.0.5     4.398e-02  4.078e-03  10.785  < 2e-16 ***
## f.22009.0.6    -1.585e-03  2.973e-03  -0.533   0.5939
## f.22009.0.7    -7.215e-03  3.043e-03  -2.371   0.0177 *
## f.22009.0.8     7.240e-03  3.210e-03   2.255   0.0241 *
## f.22009.0.9     9.160e-03  3.065e-03   2.988   0.0028 **
## f.22009.0.10   -4.104e-03  3.555e-03  -1.154   0.2484
## f.22009.0.11    2.029e-02  4.134e-03   4.907 9.26e-07 ***
## f.22009.0.12   -4.183e-03  3.632e-03  -1.152   0.2495
```

```
## f.22009.0.12   -4.185e-03  3.652e-03  -1.152   0.2493
## f.22009.0.13   -1.991e-03  2.923e-03  -0.681   0.4957
## f.22009.0.14   -2.945e-02  3.089e-03  -9.535  < 2e-16 ***
## f.22009.0.15    4.237e-03  3.166e-03   1.338   0.1808
## f.22009.0.16   -1.276e-02  3.101e-03  -4.115 3.88e-05 ***
## f.22009.0.17   -4.292e-03  2.880e-03  -1.490   0.1361
## f.22009.0.18    9.109e-03  2.887e-03   3.155   0.0016 **
## f.22009.0.19   -4.360e-05  2.875e-03  -0.015   0.9879
## f.22009.0.20    4.827e-03  2.880e-03   1.676   0.0937 .
## f.22001.0.01    7.633e-02  5.807e-03  13.144  < 2e-16 ***
## f.34.0.0        1.005e-02  3.805e-04  26.405  < 2e-16 ***
## f.22000.0.0-1   6.448e-02  4.058e-02   1.589   0.1121
## f.22000.0.010  -5.875e-02  4.106e-02  -1.431   0.1525
## f.22000.0.0-10  4.499e-02  4.128e-02   1.090   0.2757
## f.22000.0.011  -2.260e-02  4.038e-02  -0.560   0.5756
## f.22000.0.0-11  8.407e-02  4.091e-02   2.055   0.0399 *
## f.22000.0.012  -5.676e-02  4.066e-02  -1.396   0.1627
## f.22000.0.013  -4.779e-02  4.051e-02  -1.180   0.2381
## f.22000.0.014   1.308e-02  4.023e-02   0.325   0.7451
## f.22000.0.015   1.236e-03  4.053e-02   0.030   0.9757
## f.22000.0.016  -2.302e-02  4.072e-02  -0.565   0.5719
## f.22000.0.017   2.830e-02  4.035e-02   0.701   0.4831
## f.22000.0.018   3.647e-02  4.074e-02   0.895   0.3706
## f.22000.0.019  -1.855e-02  3.998e-02  -0.464   0.6427
## f.22000.0.02    1.899e-02  4.015e-02   0.473   0.6362
## f.22000.0.0-2   2.070e-02  4.086e-02   0.507   0.6124
## f.22000.0.020  -2.946e-02  4.066e-02  -0.725   0.4687
## f.22000.0.021  -2.235e-02  4.057e-02  -0.551   0.5818
## f.22000.0.022   5.389e-02  4.053e-02   1.330   0.1836
## f.22000.0.023   3.264e-02  4.052e-02   0.805   0.4206
## f.22000.0.024  -5.526e-03  3.996e-02  -0.138   0.8900
## f.22000.0.025  -5.210e-02  4.100e-02  -1.271   0.2038
## f.22000.0.026  -2.780e-02  4.075e-02  -0.682   0.4951
## f.22000.0.027  -5.231e-02  4.008e-02  -1.305   0.1919
## f.22000.0.028   3.558e-03  4.049e-02   0.088   0.9300
## f.22000.0.029   2.107e-02  4.025e-02   0.524   0.6006
## f.22000.0.03    3.242e-02  4.017e-02   0.807   0.4197
## f.22000.0.0-3   5.277e-03  4.046e-02   0.130   0.8962
## f.22000.0.030  -6.085e-02  4.023e-02  -1.513   0.1304
## f.22000.0.031   1.294e-02  4.040e-02   0.320   0.7487
## f.22000.0.032  -2.257e-03  4.058e-02  -0.056   0.9557
## f.22000.0.033   1.800e-02  4.130e-02   0.436   0.6629
## f.22000.0.034   5.222e-03  4.033e-02   0.129   0.8970
## f.22000.0.035  -3.336e-02  4.040e-02  -0.826   0.4090
## f.22000.0.036   2.691e-03  4.013e-02   0.067   0.9465
## f.22000.0.037  -2.666e-02  4.073e-02  -0.655   0.5127
## f.22000.0.038  -1.387e-02  4.057e-02  -0.342   0.7323
## f.22000.0.039  -2.395e-02  4.103e-02  -0.584   0.5594
## f.22000.0.04   -2.795e-02  4.089e-02  -0.684   0.4943
## f.22000.0.0-4   2.614e-02  4.112e-02   0.636   0.5250
## f.22000.0.040   3.651e-02  4.053e-02   0.901   0.3676
## f.22000.0.041  -2.775e-02  4.113e-02  -0.675   0.4999
## f.22000.0.042  -1.813e-02  4.043e-02  -0.448   0.6538
## f.22000.0.043  -2.447e-02  4.116e-02  -0.595   0.5521
## f.22000.0.044  -5.766e-02  4.071e-02  -1.416   0.1567
## f.22000.0.045  -1.299e-02  4.075e-02  -0.319   0.7500
## f.22000.0.046  -1.245e-02  4.097e-02  -0.304   0.7612
## f.22000.0.047  -4.912e-02  4.097e-02  -1.199   0.2306
## f.22000.0.048   1.932e-02  4.089e-02   0.472   0.6366
## f.22000.0.049   1.583e-02  4.095e-02   0.387   0.6991
## f.22000.0.05   -5.588e-02  4.023e-02  -1.389   0.1649
## f.22000.0.0-5   8.761e-02  4.067e-02   2.154   0.0312 *
## f.22000.0.050   5.223e-02  4.100e-02   1.274   0.2027
## f.22000.0.051  -1.254e-02  4.038e-02  -0.311   0.7562
## f.22000.0.052  -2.312e-02  4.111e-02  -0.562   0.5739
## f.22000.0.053  -2.272e-02  4.082e-02  -0.557   0.5779
## f.22000.0.054  -6.551e-02  4.092e-02  -1.601   0.1094
## f.22000.0.055   2.270e-02  4.126e-02   0.550   0.5822
## f.22000.0.056  -2.081e-02  4.090e-02  -0.509   0.6108
## f.22000.0.057   3.191e-02  4.109e-02   0.777   0.4374
## f.22000.0.058  -3.405e-02  4.091e-02  -0.832   0.4052
## f.22000.0.059  -1.687e-02  4.077e-02  -0.414   0.6791
## f.22000.0.06    2.394e-02  4.009e-02   0.597   0.5503
```

```
## f.22000.0.0-6   4.234e-02  4.099e-02   1.033   0.3017
## f.22000.0.060  -2.782e-02  4.115e-02  -0.676   0.4989
## f.22000.0.061   1.305e-02  4.140e-02   0.315   0.7526
## f.22000.0.062  -4.440e-02  4.126e-02  -1.076   0.2818
## f.22000.0.063  -2.035e-02  4.125e-02  -0.493   0.6217
## f.22000.0.064  -3.020e-02  4.090e-02  -0.738   0.4602
## f.22000.0.065  -6.116e-03  4.115e-02  -0.149   0.8818
## f.22000.0.066  -3.534e-02  4.156e-02  -0.850   0.3952
## f.22000.0.067   1.339e-02  4.113e-02   0.326   0.7447
## f.22000.0.068   4.498e-02  4.105e-02   1.096   0.2732
## f.22000.0.069  -4.096e-02  4.117e-02  -0.995   0.3197
## f.22000.0.07    1.484e-02  4.040e-02   0.367   0.7133
## f.22000.0.0-7   3.949e-02  4.077e-02   0.969   0.3328
## f.22000.0.070  -4.766e-03  4.118e-02  -0.116   0.9078
## f.22000.0.071  -2.388e-02  4.097e-02  -0.583   0.5599
## f.22000.0.072   2.610e-02  4.123e-02   0.633   0.5267
## f.22000.0.073  -1.885e-02  4.120e-02  -0.458   0.6472
## f.22000.0.074  -1.165e-02  4.139e-02  -0.282   0.7783
## f.22000.0.075   3.127e-03  4.097e-02   0.076   0.9392
## f.22000.0.076  -2.763e-02  4.143e-02  -0.667   0.5048
## f.22000.0.077  -3.662e-02  4.120e-02  -0.889   0.3741
## f.22000.0.078  -5.120e-02  4.092e-02  -1.251   0.2108
## f.22000.0.079  -2.202e-03  4.087e-02  -0.054   0.9570
## f.22000.0.08   -9.920e-03  4.037e-02  -0.246   0.8059
## f.22000.0.0-8   7.911e-02  4.094e-02   1.932   0.0533 .
## f.22000.0.080  -8.170e-03  4.130e-02  -0.198   0.8432
## f.22000.0.081  -2.247e-02  4.179e-02  -0.538   0.5908
## f.22000.0.082  -1.114e-02  4.127e-02  -0.270   0.7873
## f.22000.0.083  -1.564e-02  4.139e-02  -0.378   0.7056
## f.22000.0.084  -2.860e-02  4.138e-02  -0.691   0.4895
## f.22000.0.085   3.434e-02  4.124e-02   0.833   0.4050
## f.22000.0.086   2.807e-02  4.134e-02   0.679   0.4970
## f.22000.0.087  -6.390e-02  4.133e-02  -1.546   0.1220
## f.22000.0.088  -4.728e-02  4.205e-02  -1.124   0.2609
## f.22000.0.089   2.213e-03  4.175e-02   0.053   0.9577
## f.22000.0.09   -2.912e-02  4.012e-02  -0.726   0.4679
## f.22000.0.0-9   6.113e-02  4.095e-02   1.493   0.1354
## f.22000.0.090   1.227e-02  4.133e-02   0.297   0.7665
## f.22000.0.091   8.895e-03  4.269e-02   0.208   0.8349
## f.22000.0.092  -2.770e-02  4.144e-02  -0.668   0.5039
## f.22000.0.093   1.117e-02  4.135e-02   0.270   0.7871
## f.22000.0.094   3.601e-03  5.287e-02   0.068   0.9457
## f.22000.0.095  -2.346e-02  4.409e-02  -0.532   0.5947
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9947 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01164,    Adjusted R-squared:  0.01059
## F-statistic:  11.1 on 127 and 119714 DF,  p-value: < 2.2e-16
```

```
## individual trauma score: f.20490.0.0 <-# sexually molested

summary(lm( f.20490.0.0 ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5
+ f.22009.0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20490.0.0 ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6621 -0.3453 -0.2551 -0.1446  7.9788
##
```

```
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -7.6733652  0.7434665 -10.321  < 2e-16 ***
## `1.000000`      0.0111998  0.0028759   3.894 9.85e-05 ***
## f.22009.0.1     0.0011030  0.0030407   0.363 0.716796
## f.22009.0.2    -0.0035437  0.0029267  -1.211 0.225964
## f.22009.0.3     0.0035589  0.0030021   1.185 0.235822
## f.22009.0.4     0.0008842  0.0042007   0.210 0.833288
## f.22009.0.5     0.0196066  0.0040776   4.808 1.52e-06 ***
## f.22009.0.6     0.0008165  0.0029720   0.275 0.783529
## f.22009.0.7    -0.0064608  0.0030430  -2.123 0.033741 *
## f.22009.0.8     0.0051961  0.0032095   1.619 0.105454
## f.22009.0.9    -0.0054052  0.0030644  -1.764 0.077758 .
## f.22009.0.10   -0.0050441  0.0035546  -1.419 0.155889
## f.22009.0.11   -0.0021245  0.0041339  -0.514 0.607306
## f.22009.0.12   -0.0128540  0.0036317  -3.539 0.000401 ***
## f.22009.0.13   -0.0012382  0.0029223  -0.424 0.671767
## f.22009.0.14   -0.0219879  0.0030886  -7.119 1.09e-12 ***
## f.22009.0.15    0.0020222  0.0031657   0.639 0.522970
## f.22009.0.16   -0.0104418  0.0031004  -3.368 0.000758 ***
## f.22009.0.17   -0.0016739  0.0028793  -0.581 0.560989
## f.22009.0.18    0.0043847  0.0028864   1.519 0.128742
## f.22009.0.19    0.0020372  0.0028747   0.709 0.478540
## f.22009.0.20   -0.0009042  0.0028797  -0.314 0.753539
## f.22001.0.01   -0.1826749  0.0058060 -31.463  < 2e-16 ***
## f.34.0.0        0.0039589  0.0003805  10.406  < 2e-16 ***
## f.22000.0.0-1   0.0801164  0.0405723   1.975 0.048310 *
## f.22000.0.010   0.0067221  0.0410531   0.164 0.869934
## f.22000.0.0-10  0.0896783  0.0412716   2.173 0.029791 *
## f.22000.0.011  -0.0164413  0.0403756  -0.407 0.683854
## f.22000.0.0-11  0.0665648  0.0409014   1.627 0.103645
## f.22000.0.012  -0.0164523  0.0406510  -0.405 0.685683
## f.22000.0.013   0.0424653  0.0404987   1.049 0.294383
## f.22000.0.014   0.0032120  0.0402252   0.080 0.936356
## f.22000.0.015   0.0622206  0.0405262   1.535 0.124708
## f.22000.0.016   0.0517714  0.0407140   1.272 0.203523
## f.22000.0.017   0.0413600  0.0403423   1.025 0.305258
## f.22000.0.018   0.0507768  0.0407280   1.247 0.212499
## f.22000.0.019   0.0189538  0.0399713   0.474 0.635368
## f.22000.0.02   -0.0053099  0.0401403  -0.132 0.894761
## f.22000.0.0-2   0.0452632  0.0408524   1.108 0.267877
## f.22000.0.020   0.0248770  0.0406503   0.612 0.540555
## f.22000.0.021   0.0356632  0.0405603   0.879 0.379261
## f.22000.0.022  -0.0057328  0.0405187  -0.141 0.887487
## f.22000.0.023   0.0269837  0.0405161   0.666 0.505412
## f.22000.0.024  -0.0083516  0.0399550  -0.209 0.834430
## f.22000.0.025   0.0204358  0.0409950   0.498 0.618136
## f.22000.0.026   0.0290034  0.0407427   0.712 0.476547
## f.22000.0.027  -0.0115416  0.0400757  -0.288 0.773352
## f.22000.0.028   0.0210104  0.0404823   0.519 0.603761
## f.22000.0.029   0.0546514  0.0402420   1.358 0.174444
## f.22000.0.03    0.0268399  0.0401653   0.668 0.503985
## f.22000.0.0-3   0.1064716  0.0404553   2.632 0.008494 **
## f.22000.0.030  -0.0129190  0.0402249  -0.321 0.748083
## f.22000.0.031   0.0067973  0.0403878   0.168 0.866346
## f.22000.0.032   0.0301456  0.0405705   0.743 0.457458
## f.22000.0.033   0.0361721  0.0412900   0.876 0.381005
## f.22000.0.034   0.0643218  0.0403232   1.595 0.110680
## f.22000.0.035   0.0022134  0.0403937   0.055 0.956300
## f.22000.0.036   0.0257526  0.0401235   0.642 0.520983
## f.22000.0.037   0.0066211  0.0407249   0.163 0.870849
## f.22000.0.038   0.0672380  0.0405613   1.658 0.097382 .
## f.22000.0.039   0.0080730  0.0410227   0.197 0.843990
## f.22000.0.04    0.0395954  0.0408826   0.969 0.332789
## f.22000.0.0-4   0.0910212  0.0411124   2.214 0.026833 *
## f.22000.0.040   0.0549334  0.0405180   1.356 0.175172
## f.22000.0.041   0.0188315  0.0411202   0.458 0.646981
## f.22000.0.042   0.0580928  0.0404204   1.437 0.150659
## f.22000.0.043   0.0394414  0.0411510   0.958 0.337835
## f.22000.0.044   0.0145592  0.0407054   0.358 0.720590
## f.22000.0.045  -0.0121764  0.0407429  -0.299 0.765048
## f.22000.0.046   0.0547444  0.0409666   1.336 0.181448
```

```
## f.22000.0.047  -0.0172050  0.0409661  -0.420 0.674500
## f.22000.0.048   0.0423762  0.0408837   1.037 0.299968
## f.22000.0.049   0.0478334  0.0409392   1.168 0.242647
## f.22000.0.05   -0.0273362  0.0402226  -0.680 0.496745
## f.22000.0.0-5   0.1236598  0.0406603   3.041 0.002356 **
## f.22000.0.050   0.0086644  0.0409944   0.211 0.832610
## f.22000.0.051   0.0431747  0.0403699   1.069 0.284857
## f.22000.0.052   0.0363149  0.0411019   0.884 0.376950
## f.22000.0.053   0.0079471  0.0408150   0.195 0.845620
## f.22000.0.054   0.0482554  0.0409100   1.180 0.238181
## f.22000.0.055  -0.0025208  0.0412494  -0.061 0.951270
## f.22000.0.056  -0.0176841  0.0408912  -0.432 0.665402
## f.22000.0.057   0.0734294  0.0410836   1.787 0.073889 .
## f.22000.0.058   0.0113702  0.0409000   0.278 0.781012
## f.22000.0.059   0.0279760  0.0407590   0.686 0.492477
## f.22000.0.06    0.0083230  0.0400821   0.208 0.835503
## f.22000.0.0-6   0.0501056  0.0409858   1.223 0.221516
## f.22000.0.060   0.0399196  0.0411402   0.970 0.331884
## f.22000.0.061   0.0238724  0.0413886   0.577 0.564083
## f.22000.0.062  -0.0246141  0.0412492  -0.597 0.550699
## f.22000.0.063   0.0786132  0.0412377   1.906 0.056608 .
## f.22000.0.064   0.0081804  0.0408893   0.200 0.841432
## f.22000.0.065   0.0830890  0.0411414   2.020 0.043427 *
## f.22000.0.066   0.0386560  0.0415552   0.930 0.352253
## f.22000.0.067   0.0325977  0.0411191   0.793 0.427919
## f.22000.0.068   0.0012924  0.0410418   0.031 0.974879
## f.22000.0.069   0.0087730  0.0411587   0.213 0.831210
## f.22000.0.07    0.0673729  0.0403887   1.668 0.095296 .
## f.22000.0.0-7   0.0666886  0.0407617   1.636 0.101829
## f.22000.0.070   0.0407927  0.0411706   0.991 0.321775
## f.22000.0.071  -0.0173808  0.0409578  -0.424 0.671305
## f.22000.0.072  -0.0291707  0.0412198  -0.708 0.479141
## f.22000.0.073   0.0361970  0.0411912   0.879 0.379536
## f.22000.0.074   0.0443363  0.0413788   1.071 0.283959
## f.22000.0.075   0.0377644  0.0409663   0.922 0.356614
## f.22000.0.076   0.0016081  0.0414208   0.039 0.969030
## f.22000.0.077   0.0236594  0.0411885   0.574 0.565687
## f.22000.0.078  -0.0107949  0.0409110  -0.264 0.791887
## f.22000.0.079   0.0127987  0.0408625   0.313 0.754120
## f.22000.0.08    0.0437231  0.0403595   1.083 0.278660
## f.22000.0.0-8   0.0713292  0.0409290   1.743 0.081379 .
## f.22000.0.080   0.0470983  0.0412899   1.141 0.254007
## f.22000.0.081   0.0247580  0.0417780   0.593 0.553444
## f.22000.0.082   0.0160162  0.0412578   0.388 0.697871
## f.22000.0.083  -0.0015033  0.0413820  -0.036 0.971020
## f.22000.0.084   0.0280756  0.0413709   0.679 0.497373
## f.22000.0.085   0.0127207  0.0412276   0.309 0.757666
## f.22000.0.086   0.0389600  0.0413288   0.943 0.345844
## f.22000.0.087  -0.0095111  0.0413186  -0.230 0.817944
## f.22000.0.088   0.0285823  0.0420442   0.680 0.496623
## f.22000.0.089   0.0214779  0.0417378   0.515 0.606839
## f.22000.0.09   -0.0421822  0.0401163  -1.051 0.293032
## f.22000.0.0-9   0.0929859  0.0409376   2.271 0.023124 *
## f.22000.0.090  -0.0041643  0.0413205  -0.101 0.919724
## f.22000.0.091  -0.0060806  0.0426811  -0.142 0.886713
## f.22000.0.092   0.0001764  0.0414321   0.004 0.996604
## f.22000.0.093   0.0311031  0.0413418   0.752 0.451848
## f.22000.0.094   0.0239886  0.0528607   0.454 0.649967
## f.22000.0.095   0.0299492  0.0440826   0.679 0.496893
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9945 on 119713 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01203,    Adjusted R-squared:  0.01097
## F-statistic: 11.39 on 128 and 119713 DF,  p-value: < 2.2e-16
```

```
summary(lm( f.20490.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0
.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20490.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6396 -0.3455 -0.2557 -0.1448  7.9646
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -7.6778894  0.7435096 -10.327  < 2e-16 ***
## f.22009.0.1     0.0011995  0.0030408   0.394 0.693227
## f.22009.0.2    -0.0035715  0.0029268  -1.220 0.222361
## f.22009.0.3     0.0035201  0.0030022   1.173 0.240996
## f.22009.0.4     0.0009064  0.0042010   0.216 0.829176
## f.22009.0.5     0.0198989  0.0040772   4.881 1.06e-06 ***
## f.22009.0.6     0.0008636  0.0029722   0.291 0.771379
## f.22009.0.7    -0.0065772  0.0030430  -2.161 0.030666 *
## f.22009.0.8     0.0051766  0.0032097   1.613 0.106787
## f.22009.0.9    -0.0053977  0.0030646  -1.761 0.078190 .
## f.22009.0.10   -0.0050871  0.0035547  -1.431 0.152413
## f.22009.0.11   -0.0019508  0.0041339  -0.472 0.637003
## f.22009.0.12   -0.0128243  0.0036319  -3.531 0.000414 ***
## f.22009.0.13   -0.0012217  0.0029225  -0.418 0.675909
## f.22009.0.14   -0.0221475  0.0030885  -7.171 7.49e-13 ***
## f.22009.0.15    0.0020212  0.0031659   0.638 0.523198
## f.22009.0.16   -0.0104346  0.0031006  -3.365 0.000765 ***
## f.22009.0.17   -0.0017086  0.0028794  -0.593 0.552937
## f.22009.0.18    0.0043638  0.0028865   1.512 0.130595
## f.22009.0.19    0.0021001  0.0028748   0.731 0.465078
## f.22009.0.20   -0.0008047  0.0028798  -0.279 0.779922
## f.22001.0.01   -0.1829139  0.0058060 -31.504  < 2e-16 ***
## f.34.0.0        0.0039613  0.0003805  10.411  < 2e-16 ***
## f.22000.0.0-1   0.0801261  0.0405747   1.975 0.048296 *
## f.22000.0.010   0.0067341  0.0410555   0.164 0.869712
## f.22000.0.0-10  0.0892361  0.0412738   2.162 0.030616 *
## f.22000.0.011  -0.0163709  0.0403780  -0.405 0.685153
## f.22000.0.0-11  0.0666681  0.0409038   1.630 0.103131
## f.22000.0.012  -0.0165503  0.0406534  -0.407 0.683930
## f.22000.0.013   0.0419764  0.0405009   1.036 0.300003
## f.22000.0.014   0.0029204  0.0402275   0.073 0.942127
## f.22000.0.015   0.0622176  0.0405286   1.535 0.124748
## f.22000.0.016   0.0515542  0.0407164   1.266 0.205452
## f.22000.0.017   0.0415777  0.0403446   1.031 0.302748
## f.22000.0.018   0.0508620  0.0407304   1.249 0.211760
## f.22000.0.019   0.0183924  0.0399734   0.460 0.645433
## f.22000.0.02   -0.0050577  0.0401426  -0.126 0.899737
## f.22000.0.0-2   0.0453202  0.0408548   1.109 0.267303
## f.22000.0.020   0.0246062  0.0406526   0.605 0.544995
## f.22000.0.021   0.0356619  0.0405627   0.879 0.379305
## f.22000.0.022  -0.0057765  0.0405211  -0.143 0.886642
## f.22000.0.023   0.0268425  0.0405185   0.662 0.507667
## f.22000.0.024  -0.0085747  0.0399573  -0.215 0.830082
## f.22000.0.025   0.0205096  0.0409974   0.500 0.616890
## f.22000.0.026   0.0284127  0.0407448   0.697 0.485595
## f.22000.0.027  -0.0115568  0.0400781  -0.288 0.773075
## f.22000.0.028   0.0207338  0.0404846   0.512 0.608553
## f.22000.0.029   0.0548205  0.0402443   1.362 0.173140
## f.22000.0.03    0.0265914  0.0401676   0.662 0.507966
## f.22000.0.0-3   0.1066548  0.0404577   2.636 0.008385 **
## f.22000.0.030  -0.0126813  0.0402273  -0.315 0.752579
```

```
## f.22000.0.030  -0.0126813  0.0402273  -0.315 0.752579
## f.22000.0.031   0.0071736  0.0403901   0.178 0.859031
## f.22000.0.032   0.0302150  0.0405729   0.745 0.456449
## f.22000.0.033   0.0363452  0.0412924   0.880 0.378757
## f.22000.0.034   0.0642981  0.0403256   1.594 0.110833
## f.22000.0.035   0.0019909  0.0403961   0.049 0.960693
## f.22000.0.036   0.0258336  0.0401259   0.644 0.519697
## f.22000.0.037   0.0063194  0.0407272   0.155 0.876693
## f.22000.0.038   0.0669748  0.0405636   1.651 0.098719 .
## f.22000.0.039   0.0084554  0.0410250   0.206 0.836710
## f.22000.0.04    0.0395920  0.0408850   0.968 0.332859
## f.22000.0.0-4   0.0911251  0.0411148   2.216 0.026669 *
## f.22000.0.040   0.0546541  0.0405203   1.349 0.177402
## f.22000.0.041   0.0184459  0.0411225   0.449 0.653750
## f.22000.0.042   0.0582558  0.0404227   1.441 0.149541
## f.22000.0.043   0.0393861  0.0411534   0.957 0.338541
## f.22000.0.044   0.0141946  0.0407077   0.349 0.727319
## f.22000.0.045  -0.0116379  0.0407451  -0.286 0.775164
## f.22000.0.046   0.0555032  0.0409685   1.355 0.175491
## f.22000.0.047  -0.0177570  0.0409682  -0.433 0.664701
## f.22000.0.048   0.0417539  0.0408858   1.021 0.307147
## f.22000.0.049   0.0473963  0.0409414   1.158 0.247005
## f.22000.0.05   -0.0277638  0.0402249  -0.690 0.490061
## f.22000.0.0-5   0.1229484  0.0406623   3.024 0.002498 **
## f.22000.0.050   0.0082196  0.0409967   0.200 0.841095
## f.22000.0.051   0.0428446  0.0403722   1.061 0.288583
## f.22000.0.052   0.0358722  0.0411042   0.873 0.382821
## f.22000.0.053   0.0078896  0.0408174   0.193 0.846733
## f.22000.0.054   0.0483665  0.0409124   1.182 0.237131
## f.22000.0.055  -0.0021537  0.0412517  -0.052 0.958362
## f.22000.0.056  -0.0182075  0.0408934  -0.445 0.656145
## f.22000.0.057   0.0734907  0.0410860   1.789 0.073665 .
## f.22000.0.058   0.0112022  0.0409024   0.274 0.784180
## f.22000.0.059   0.0280381  0.0407615   0.688 0.491544
## f.22000.0.06    0.0084482  0.0400845   0.211 0.833075
## f.22000.0.0-6   0.0503878  0.0409881   1.229 0.218951
## f.22000.0.060   0.0395736  0.0411425   0.962 0.336119
## f.22000.0.061   0.0239281  0.0413910   0.578 0.563199
## f.22000.0.062  -0.0242316  0.0412516  -0.587 0.556929
## f.22000.0.063   0.0785146  0.0412401   1.904 0.056933 .
## f.22000.0.064   0.0080174  0.0408917   0.196 0.844561
## f.22000.0.065   0.0828074  0.0411437   2.013 0.044155 *
## f.22000.0.066   0.0382009  0.0415575   0.919 0.357977
## f.22000.0.067   0.0323868  0.0411215   0.788 0.430940
## f.22000.0.068   0.0012093  0.0410442   0.029 0.976496
## f.22000.0.069   0.0084028  0.0411610   0.204 0.838242
## f.22000.0.07    0.0671516  0.0403911   1.663 0.096408 .
## f.22000.0.0-7   0.0661319  0.0407638   1.622 0.104738
## f.22000.0.070   0.0410621  0.0411730   0.997 0.318618
## f.22000.0.071  -0.0169364  0.0409600  -0.413 0.679252
## f.22000.0.072  -0.0286431  0.0412220  -0.695 0.487151
## f.22000.0.073   0.0357744  0.0411935   0.868 0.385152
## f.22000.0.074   0.0442772  0.0413813   1.070 0.284629
## f.22000.0.075   0.0381021  0.0409687   0.930 0.352357
## f.22000.0.076   0.0020856  0.0414230   0.050 0.959844
## f.22000.0.077   0.0232465  0.0411908   0.564 0.572509
## f.22000.0.078  -0.0114836  0.0409131  -0.281 0.778955
## f.22000.0.079   0.0133823  0.0408647   0.327 0.743307
## f.22000.0.08    0.0442574  0.0403616   1.097 0.272853
## f.22000.0.0-8   0.0710158  0.0409313   1.735 0.082744 .
## f.22000.0.080   0.0469424  0.0412923   1.137 0.255611
## f.22000.0.081   0.0247338  0.0417805   0.592 0.553855
## f.22000.0.082   0.0164974  0.0412601   0.400 0.689276
## f.22000.0.083  -0.0016892  0.0413844  -0.041 0.967441
## f.22000.0.084   0.0286103  0.0413731   0.692 0.489241
## f.22000.0.085   0.0133581  0.0412297   0.324 0.745944
## f.22000.0.086   0.0388863  0.0413312   0.941 0.346786
## f.22000.0.087  -0.0093535  0.0413210  -0.226 0.820920
## f.22000.0.088   0.0286090  0.0420467   0.680 0.496246
## f.22000.0.089   0.0219166  0.0417401   0.525 0.599532
## f.22000.0.09   -0.0424165  0.0401186  -1.057 0.290387
## f.22000.0.0-9   0.0926447  0.0409399   2.263 0.023641 *
## f.22000.0.090  -0.0042786  0.0413230  -0.104 0.917534
```

```
## f.22000.0.091  -0.0064501  0.0426835  -0.151 0.879885
## f.22000.0.092   0.0006653  0.0414343   0.016 0.987190
## f.22000.0.093   0.0312409  0.0413442   0.756 0.449874
## f.22000.0.094   0.0233616  0.0528635   0.442 0.658546
## f.22000.0.095   0.0300222  0.0440852   0.681 0.495870
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9946 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01191,    Adjusted R-squared:  0.01086
## F-statistic: 11.36 on 127 and 119714 DF,  p-value: < 2.2e-16
```

```
## individual trauma score: f.20487.0.0 <-# felt hated

summary(lm( f.20487.0.0 ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5
+ f.22009.0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20487.0.0 ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.8343 -0.4323 -0.3295 -0.2050  5.3769
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.184e+01  7.418e-01 -29.445  < 2e-16 ***
## `1.000000`      2.678e-02  2.869e-03   9.332  < 2e-16 ***
## f.22009.0.1     3.729e-03  3.034e-03   1.229  0.21903
## f.22009.0.2    -6.543e-03  2.920e-03  -2.241  0.02504 *
## f.22009.0.3     5.114e-03  2.995e-03   1.707  0.08775 .
## f.22009.0.4     1.428e-04  4.191e-03   0.034  0.97282
## f.22009.0.5     2.235e-02  4.068e-03   5.494 3.94e-08 ***
## f.22009.0.6     6.832e-04  2.965e-03   0.230  0.81778
## f.22009.0.7    -6.659e-03  3.036e-03  -2.193  0.02829 *
## f.22009.0.8     4.132e-03  3.202e-03   1.290  0.19693
## f.22009.0.9    -5.152e-03  3.057e-03  -1.685  0.09196 .
## f.22009.0.10   -1.548e-03  3.547e-03  -0.437  0.66241
## f.22009.0.11    1.547e-03  4.125e-03   0.375  0.70763
## f.22009.0.12    3.925e-04  3.623e-03   0.108  0.91373
## f.22009.0.13   -4.683e-03  2.916e-03  -1.606  0.10825
## f.22009.0.14   -2.697e-02  3.082e-03  -8.751  < 2e-16 ***
## f.22009.0.15   -9.097e-05  3.158e-03  -0.029  0.97702
## f.22009.0.16   -8.786e-03  3.093e-03  -2.840  0.00451 **
## f.22009.0.17   -3.283e-03  2.873e-03  -1.143  0.25307
## f.22009.0.18    4.639e-03  2.880e-03   1.611  0.10724
## f.22009.0.19   -3.012e-03  2.868e-03  -1.050  0.29362
## f.22009.0.20    3.713e-03  2.873e-03   1.292  0.19627
## f.22001.0.01   -1.393e-01  5.793e-03 -24.053  < 2e-16 ***
## f.34.0.0        1.123e-02  3.796e-04  29.579  < 2e-16 ***
## f.22000.0.0-1   7.276e-02  4.048e-02   1.798  0.07225 .
## f.22000.0.010  -7.571e-02  4.096e-02  -1.848  0.06456 .
## f.22000.0.0-10  1.225e-02  4.118e-02   0.297  0.76614
## f.22000.0.011  -2.532e-02  4.028e-02  -0.628  0.52973
## f.22000.0.0-11  8.493e-02  4.081e-02   2.081  0.03741 *
## f.22000.0.012  -5.695e-02  4.056e-02  -1.404  0.16025
## f.22000.0.013  -5.507e-02  4.041e-02  -1.363  0.17290
## f.22000.0.014  -5.325e-02  4.013e-02  -1.327  0.18459
## f.22000.0.015  -2.453e-02  4.043e-02  -0.607  0.54412
## f.22000.0.016   7.250e-03  4.062e-02   0.178  0.85835
## f.22000.0.017  -8.347e-03  4.025e-02  -0.207  0.83572
## f.22000.0.018   1.294e-02  4.064e-02   0.318  0.75014
```

```
## f.22000.0.018   1.294e-02  4.064e-02   0.318  0.75014
## f.22000.0.019   1.362e-02  3.988e-02   0.342  0.73264
## f.22000.0.02    2.454e-02  4.005e-02   0.613  0.53998
## f.22000.0.0-2   2.376e-02  4.076e-02   0.583  0.56001
## f.22000.0.020  -1.718e-02  4.056e-02  -0.424  0.67186
## f.22000.0.021  -3.683e-02  4.047e-02  -0.910  0.36276
## f.22000.0.022   4.219e-02  4.043e-02   1.044  0.29668
## f.22000.0.023   1.566e-02  4.042e-02   0.387  0.69839
## f.22000.0.024  -5.247e-02  3.986e-02  -1.316  0.18809
## f.22000.0.025  -2.561e-02  4.090e-02  -0.626  0.53115
## f.22000.0.026  -5.141e-02  4.065e-02  -1.265  0.20602
## f.22000.0.027  -3.520e-02  3.998e-02  -0.880  0.37863
## f.22000.0.028   2.299e-02  4.039e-02   0.569  0.56923
## f.22000.0.029   3.649e-03  4.015e-02   0.091  0.92759
## f.22000.0.03    3.861e-03  4.007e-02   0.096  0.92325
## f.22000.0.0-3   2.545e-02  4.036e-02   0.630  0.52842
## f.22000.0.030  -5.421e-02  4.013e-02  -1.351  0.17679
## f.22000.0.031   1.379e-02  4.030e-02   0.342  0.73225
## f.22000.0.032  -2.128e-02  4.048e-02  -0.526  0.59914
## f.22000.0.033  -5.480e-03  4.120e-02  -0.133  0.89418
## f.22000.0.034   5.752e-02  4.023e-02   1.430  0.15280
## f.22000.0.035   4.173e-03  4.030e-02   0.104  0.91753
## f.22000.0.036  -5.892e-03  4.003e-02  -0.147  0.88298
## f.22000.0.037  -2.152e-02  4.063e-02  -0.530  0.59637
## f.22000.0.038  -9.720e-04  4.047e-02  -0.024  0.98084
## f.22000.0.039  -1.284e-02  4.093e-02  -0.314  0.75366
## f.22000.0.04   -4.510e-02  4.079e-02  -1.106  0.26892
## f.22000.0.0-4   5.287e-02  4.102e-02   1.289  0.19743
## f.22000.0.040  -8.430e-03  4.043e-02  -0.209  0.83482
## f.22000.0.041  -1.154e-02  4.103e-02  -0.281  0.77859
## f.22000.0.042  -2.280e-02  4.033e-02  -0.565  0.57181
## f.22000.0.043  -3.377e-02  4.106e-02  -0.822  0.41081
## f.22000.0.044  -1.667e-02  4.061e-02  -0.410  0.68153
## f.22000.0.045  -1.015e-02  4.065e-02  -0.250  0.80275
## f.22000.0.046  -4.733e-02  4.087e-02  -1.158  0.24684
## f.22000.0.047  -3.403e-02  4.087e-02  -0.833  0.40507
## f.22000.0.048   3.314e-03  4.079e-02   0.081  0.93524
## f.22000.0.049  -2.483e-02  4.085e-02  -0.608  0.54333
## f.22000.0.05   -7.301e-02  4.013e-02  -1.819  0.06886 .
## f.22000.0.0-5   5.873e-02  4.057e-02   1.448  0.14771
## f.22000.0.050   6.930e-03  4.090e-02   0.169  0.86545
## f.22000.0.051   1.819e-02  4.028e-02   0.452  0.65156
## f.22000.0.052  -7.376e-03  4.101e-02  -0.180  0.85727
## f.22000.0.053  -6.545e-02  4.072e-02  -1.607  0.10799
## f.22000.0.054  -1.308e-02  4.082e-02  -0.321  0.74854
## f.22000.0.055  -6.684e-03  4.116e-02  -0.162  0.87098
## f.22000.0.056  -1.224e-02  4.080e-02  -0.300  0.76418
## f.22000.0.057  -7.804e-03  4.099e-02  -0.190  0.84900
## f.22000.0.058  -4.447e-02  4.081e-02  -1.090  0.27580
## f.22000.0.059  -2.147e-02  4.067e-02  -0.528  0.59749
## f.22000.0.06   -2.934e-02  3.999e-02  -0.734  0.46319
## f.22000.0.0-6   2.526e-02  4.089e-02   0.618  0.53675
## f.22000.0.060  -3.428e-02  4.105e-02  -0.835  0.40360
## f.22000.0.061   2.121e-02  4.129e-02   0.514  0.60755
## f.22000.0.062  -8.686e-03  4.116e-02  -0.211  0.83284
## f.22000.0.063   8.820e-03  4.114e-02   0.214  0.83027
## f.22000.0.064  -2.096e-02  4.080e-02  -0.514  0.60737
## f.22000.0.065  -1.784e-02  4.105e-02  -0.435  0.66381
## f.22000.0.066   1.076e-02  4.146e-02   0.260  0.79518
## f.22000.0.067  -7.644e-02  4.103e-02  -1.863  0.06242 .
## f.22000.0.068   7.460e-03  4.095e-02   0.182  0.85544
## f.22000.0.069  -1.975e-03  4.107e-02  -0.048  0.96164
## f.22000.0.07   -9.297e-03  4.030e-02  -0.231  0.81755
## f.22000.0.0-7   3.848e-03  4.067e-02   0.095  0.92462
## f.22000.0.070   2.253e-02  4.108e-02   0.549  0.58329
## f.22000.0.071  -4.146e-02  4.086e-02  -1.015  0.31028
## f.22000.0.072  -1.082e-02  4.113e-02  -0.263  0.79257
## f.22000.0.073  -1.320e-02  4.110e-02  -0.321  0.74804
## f.22000.0.074  -4.186e-02  4.129e-02  -1.014  0.31066
## f.22000.0.075  -3.793e-02  4.087e-02  -0.928  0.35343
## f.22000.0.076  -4.907e-02  4.133e-02  -1.187  0.23506
## f.22000.0.077  -2.727e-02  4.110e-02  -0.664  0.50698
## f.22000.0.078   5.125e-04  4.082e-02   0.013  0.98998
```

```
## f.22000.0.079  -5.434e-02  4.077e-02  -1.333  0.18256
## f.22000.0.08   -5.927e-02  4.027e-02  -1.472  0.14105
## f.22000.0.0-8   1.376e-02  4.084e-02   0.337  0.73613
## f.22000.0.080  -4.044e-02  4.120e-02  -0.982  0.32628
## f.22000.0.081  -4.367e-02  4.168e-02  -1.048  0.29477
## f.22000.0.082  -3.165e-02  4.116e-02  -0.769  0.44201
## f.22000.0.083  -1.790e-02  4.129e-02  -0.434  0.66456
## f.22000.0.084  -1.711e-02  4.128e-02  -0.414  0.67857
## f.22000.0.085   3.197e-02  4.113e-02   0.777  0.43698
## f.22000.0.086  -1.581e-02  4.124e-02  -0.383  0.70145
## f.22000.0.087  -6.626e-02  4.122e-02  -1.607  0.10800
## f.22000.0.088   6.213e-03  4.195e-02   0.148  0.88226
## f.22000.0.089  -2.220e-02  4.164e-02  -0.533  0.59392
## f.22000.0.09   -5.919e-03  4.003e-02  -0.148  0.88243
## f.22000.0.0-9   3.140e-02  4.084e-02   0.769  0.44208
## f.22000.0.090  -3.792e-03  4.123e-02  -0.092  0.92671
## f.22000.0.091  -5.076e-04  4.258e-02  -0.012  0.99049
## f.22000.0.092   1.811e-03  4.134e-02   0.044  0.96506
## f.22000.0.093   7.588e-03  4.125e-02   0.184  0.85404
## f.22000.0.094   2.869e-03  5.274e-02   0.054  0.95662
## f.22000.0.095  -6.694e-02  4.398e-02  -1.522  0.12804
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9922 on 119713 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.0165, Adjusted R-squared:  0.01545
## F-statistic: 15.69 on 128 and 119713 DF,  p-value: < 2.2e-16
```

```
summary(lm( f.20487.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0
.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20487.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.7980 -0.4309 -0.3305 -0.2074  5.3859
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.185e+01  7.420e-01 -29.449  < 2e-16 ***
## f.22009.0.1     3.960e-03  3.035e-03   1.305   0.1920
## f.22009.0.2    -6.610e-03  2.921e-03  -2.263   0.0237 *
## f.22009.0.3     5.021e-03  2.996e-03   1.676   0.0938 .
## f.22009.0.4     1.959e-04  4.193e-03   0.047   0.9627
## f.22009.0.5     2.305e-02  4.069e-03   5.665 1.48e-08 ***
## f.22009.0.6     7.959e-04  2.966e-03   0.268   0.7885
## f.22009.0.7    -6.937e-03  3.037e-03  -2.284   0.0224 *
## f.22009.0.8     4.085e-03  3.203e-03   1.275   0.2022
## f.22009.0.9    -5.134e-03  3.059e-03  -1.679   0.0932 .
## f.22009.0.10   -1.651e-03  3.548e-03  -0.465   0.6416
## f.22009.0.11    1.962e-03  4.126e-03   0.476   0.6343
## f.22009.0.12    4.634e-04  3.625e-03   0.128   0.8983
## f.22009.0.13   -4.643e-03  2.917e-03  -1.592   0.1114
## f.22009.0.14   -2.735e-02  3.082e-03  -8.873  < 2e-16 ***
## f.22009.0.15   -9.334e-05  3.160e-03  -0.030   0.9764
## f.22009.0.16   -8.769e-03  3.095e-03  -2.834   0.0046 **
## f.22009.0.17   -3.366e-03  2.874e-03  -1.171   0.2415
## f.22009.0.18    4.589e-03  2.881e-03   1.593   0.1112
## f.22009.0.19   -2.862e-03  2.869e-03  -0.997   0.3186
## f.22009.0.20    3.951e-03  2.874e-03   1.375   0.1693
## f.22001.0.01   -1.399e-01  5.795e-03 -24.145  < 2e-16 ***
```

```
## f.22001.0.01   -1.399e-01  5.795e-03 -24.145  < 2e-16 ***
## f.34.0.0         1.123e-02  3.797e-04  29.583  < 2e-16 ***
## f.22000.0.0-1    7.279e-02  4.049e-02   1.797   0.0723 .
## f.22000.0.010   -7.568e-02  4.097e-02  -1.847   0.0648 .
## f.22000.0.0-10   1.119e-02  4.119e-02   0.272   0.7859
## f.22000.0.011   -2.515e-02  4.030e-02  -0.624   0.5326
## f.22000.0.0-11   8.518e-02  4.082e-02   2.087   0.0369 *
## f.22000.0.012   -5.719e-02  4.057e-02  -1.409   0.1587
## f.22000.0.013   -5.624e-02  4.042e-02  -1.391   0.1641
## f.22000.0.014   -5.395e-02  4.015e-02  -1.344   0.1791
## f.22000.0.015   -2.453e-02  4.045e-02  -0.607   0.5441
## f.22000.0.016    6.731e-03  4.064e-02   0.166   0.8684
## f.22000.0.017   -7.827e-03  4.027e-02  -0.194   0.8459
## f.22000.0.018    1.314e-02  4.065e-02   0.323   0.7464
## f.22000.0.019    1.228e-02  3.989e-02   0.308   0.7582
## f.22000.0.02     2.515e-02  4.006e-02   0.628   0.5302
## f.22000.0.0-2    2.389e-02  4.077e-02   0.586   0.5579
## f.22000.0.020   -1.783e-02  4.057e-02  -0.439   0.6604
## f.22000.0.021   -3.683e-02  4.048e-02  -0.910   0.3629
## f.22000.0.022    4.208e-02  4.044e-02   1.041   0.2980
## f.22000.0.023    1.533e-02  4.044e-02   0.379   0.7047
## f.22000.0.024   -5.301e-02  3.988e-02  -1.329   0.1838
## f.22000.0.025   -2.544e-02  4.092e-02  -0.622   0.5341
## f.22000.0.026   -5.282e-02  4.066e-02  -1.299   0.1940
## f.22000.0.027   -3.524e-02  4.000e-02  -0.881   0.3783
## f.22000.0.028    2.233e-02  4.041e-02   0.553   0.5805
## f.22000.0.029    4.053e-03  4.017e-02   0.101   0.9196
## f.22000.0.03     3.267e-03  4.009e-02   0.081   0.9351
## f.22000.0.0-3    2.588e-02  4.038e-02   0.641   0.5215
## f.22000.0.030   -5.364e-02  4.015e-02  -1.336   0.1815
## f.22000.0.031    1.469e-02  4.031e-02   0.364   0.7156
## f.22000.0.032   -2.111e-02  4.049e-02  -0.521   0.6021
## f.22000.0.033   -5.066e-03  4.121e-02  -0.123   0.9022
## f.22000.0.034    5.746e-02  4.025e-02   1.428   0.1534
## f.22000.0.035    3.641e-03  4.032e-02   0.090   0.9280
## f.22000.0.036   -5.699e-03  4.005e-02  -0.142   0.8868
## f.22000.0.037   -2.224e-02  4.065e-02  -0.547   0.5843
## f.22000.0.038   -1.601e-03  4.048e-02  -0.040   0.9684
## f.22000.0.039   -1.193e-02  4.094e-02  -0.291   0.7708
## f.22000.0.04    -4.510e-02  4.080e-02  -1.105   0.2690
## f.22000.0.0-4    5.312e-02  4.103e-02   1.294   0.1955
## f.22000.0.040   -9.098e-03  4.044e-02  -0.225   0.8220
## f.22000.0.041   -1.246e-02  4.104e-02  -0.304   0.7615
## f.22000.0.042   -2.241e-02  4.034e-02  -0.556   0.5785
## f.22000.0.043   -3.390e-02  4.107e-02  -0.825   0.4091
## f.22000.0.044   -1.754e-02  4.063e-02  -0.432   0.6660
## f.22000.0.045   -8.867e-03  4.066e-02  -0.218   0.8274
## f.22000.0.046   -4.552e-02  4.089e-02  -1.113   0.2656
## f.22000.0.047   -3.535e-02  4.089e-02  -0.865   0.3873
## f.22000.0.048    1.827e-03  4.081e-02   0.045   0.9643
## f.22000.0.049   -2.587e-02  4.086e-02  -0.633   0.5266
## f.22000.0.05    -7.403e-02  4.015e-02  -1.844   0.0652 .
## f.22000.0.0-5    5.703e-02  4.058e-02   1.405   0.1599
## f.22000.0.050    5.867e-03  4.092e-02   0.143   0.8860
## f.22000.0.051    1.740e-02  4.029e-02   0.432   0.6659
## f.22000.0.052   -8.434e-03  4.102e-02  -0.206   0.8371
## f.22000.0.053   -6.559e-02  4.074e-02  -1.610   0.1074
## f.22000.0.054   -1.282e-02  4.083e-02  -0.314   0.7536
## f.22000.0.055   -5.807e-03  4.117e-02  -0.141   0.8878
## f.22000.0.056   -1.349e-02  4.081e-02  -0.331   0.7410
## f.22000.0.057   -7.658e-03  4.101e-02  -0.187   0.8519
## f.22000.0.058   -4.487e-02  4.082e-02  -1.099   0.2717
## f.22000.0.059   -2.132e-02  4.068e-02  -0.524   0.6001
## f.22000.0.06    -2.904e-02  4.001e-02  -0.726   0.4679
## f.22000.0.0-6    2.594e-02  4.091e-02   0.634   0.5261
## f.22000.0.060   -3.511e-02  4.106e-02  -0.855   0.3925
## f.22000.0.061    2.134e-02  4.131e-02   0.517   0.6054
## f.22000.0.062   -7.772e-03  4.117e-02  -0.189   0.8503
## f.22000.0.063    8.584e-03  4.116e-02   0.209   0.8348
## f.22000.0.064   -2.135e-02  4.081e-02  -0.523   0.6008
## f.22000.0.065   -1.852e-02  4.106e-02  -0.451   0.6521
## f.22000.0.066    9.675e-03  4.148e-02   0.233   0.8156
## f.22000.0.067   -7.695e-02  4.104e-02  -1.875   0.0608 .
```

```
## f.22000.0.068   7.261e-03  4.096e-02   0.177   0.8593
## f.22000.0.069  -2.860e-03  4.108e-02  -0.070   0.9445
## f.22000.0.07   -9.826e-03  4.031e-02  -0.244   0.8074
## f.22000.0.0-7   2.517e-03  4.068e-02   0.062   0.9507
## f.22000.0.070   2.318e-02  4.109e-02   0.564   0.5727
## f.22000.0.071  -4.040e-02  4.088e-02  -0.988   0.3230
## f.22000.0.072  -9.554e-03  4.114e-02  -0.232   0.8164
## f.22000.0.073  -1.421e-02  4.111e-02  -0.346   0.7296
## f.22000.0.074  -4.200e-02  4.130e-02  -1.017   0.3092
## f.22000.0.075  -3.712e-02  4.089e-02  -0.908   0.3639
## f.22000.0.076  -4.793e-02  4.134e-02  -1.159   0.2463
## f.22000.0.077  -2.826e-02  4.111e-02  -0.687   0.4919
## f.22000.0.078  -1.134e-03  4.083e-02  -0.028   0.9778
## f.22000.0.079  -5.295e-02  4.078e-02  -1.298   0.1942
## f.22000.0.08   -5.799e-02  4.028e-02  -1.440   0.1500
## f.22000.0.0-8   1.301e-02  4.085e-02   0.319   0.7501
## f.22000.0.080  -4.081e-02  4.121e-02  -0.990   0.3220
## f.22000.0.081  -4.373e-02  4.170e-02  -1.049   0.2943
## f.22000.0.082  -3.050e-02  4.118e-02  -0.741   0.4589
## f.22000.0.083  -1.835e-02  4.130e-02  -0.444   0.6569
## f.22000.0.084  -1.583e-02  4.129e-02  -0.383   0.7015
## f.22000.0.085   3.350e-02  4.115e-02   0.814   0.4156
## f.22000.0.086  -1.598e-02  4.125e-02  -0.388   0.6984
## f.22000.0.087  -6.588e-02  4.124e-02  -1.598   0.1101
## f.22000.0.088   6.277e-03  4.196e-02   0.150   0.8811
## f.22000.0.089  -2.115e-02  4.166e-02  -0.508   0.6116
## f.22000.0.09   -6.480e-03  4.004e-02  -0.162   0.8714
## f.22000.0.0-9   3.058e-02  4.086e-02   0.748   0.4542
## f.22000.0.090  -4.065e-03  4.124e-02  -0.099   0.9215
## f.22000.0.091  -1.391e-03  4.260e-02  -0.033   0.9739
## f.22000.0.092   2.980e-03  4.135e-02   0.072   0.9426
## f.22000.0.093   7.918e-03  4.126e-02   0.192   0.8478
## f.22000.0.094   1.370e-03  5.276e-02   0.026   0.9793
## f.22000.0.095  -6.676e-02  4.400e-02  -1.517   0.1292
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9926 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01579,    Adjusted R-squared:  0.01474
## F-statistic: 15.12 on 127 and 119714 DF,  p-value: < 2.2e-16
```

```
## individual trauma score: f.20491.0.0 <-# taken to the doctor

summary(lm( f.20491.0.0 ~  `1.000000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5
+ f.22009.0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20491.0.0 ~ `1.000000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6726 -0.3981 -0.3309 -0.2371  5.4952
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.859e+01  7.452e-01  24.949  < 2e-16 ***
## `1.000000`      1.776e-03  2.883e-03   0.616 0.537720
## f.22009.0.1    -7.407e-05  3.048e-03  -0.024 0.980611
## f.22009.0.2     1.895e-03  2.933e-03   0.646 0.518348
## f.22009.0.3    -9.872e-04  3.009e-03  -0.328 0.742855
## f.22009.0.4     5.994e-03  4.210e-03   1.424 0.154541
## f.22009.0.5     1.348e-02  4.087e-03   3.298 0.000974 ***
```

```
## f.22009.0.5     1.348e-02  4.067e-03   3.298 0.000974 ***
## f.22009.0.6     1.531e-03  2.979e-03   0.514 0.607283
## f.22009.0.7    -5.561e-03  3.050e-03  -1.823 0.068239 .
## f.22009.0.8     1.909e-03  3.217e-03   0.593 0.552914
## f.22009.0.9     6.189e-03  3.071e-03   2.015 0.043907 *
## f.22009.0.10   -7.871e-04  3.563e-03  -0.221 0.825152
## f.22009.0.11    1.577e-02  4.143e-03   3.807 0.000141 ***
## f.22009.0.12   -1.569e-03  3.640e-03  -0.431 0.666489
## f.22009.0.13   -1.805e-03  2.929e-03  -0.616 0.537659
## f.22009.0.14   -1.991e-02  3.096e-03  -6.432 1.26e-10 ***
## f.22009.0.15    9.147e-04  3.173e-03   0.288 0.773127
## f.22009.0.16   -1.177e-02  3.108e-03  -3.789 0.000151 ***
## f.22009.0.17   -5.786e-03  2.886e-03  -2.005 0.044968 *
## f.22009.0.18    6.630e-03  2.893e-03   2.292 0.021919 *
## f.22009.0.19   -2.492e-03  2.881e-03  -0.865 0.387026
## f.22009.0.20    8.779e-03  2.886e-03   3.042 0.002353 **
## f.22001.0.01   -4.841e-02  5.819e-03  -8.318  < 2e-16 ***
## f.34.0.0       -9.523e-03  3.813e-04 -24.973  < 2e-16 ***
## f.22000.0.0-1   1.241e-01  4.067e-02   3.051 0.002282 **
## f.22000.0.010  -3.830e-02  4.115e-02  -0.931 0.351965
## f.22000.0.0-10 -1.700e-02  4.137e-02  -0.411 0.681062
## f.22000.0.011  -1.986e-02  4.047e-02  -0.491 0.623536
## f.22000.0.0-11  7.573e-02  4.100e-02   1.847 0.064704 .
## f.22000.0.012  -5.693e-05  4.074e-02  -0.001 0.998885
## f.22000.0.013   5.751e-02  4.059e-02   1.417 0.156549
## f.22000.0.014   4.789e-03  4.032e-02   0.119 0.905451
## f.22000.0.015   3.860e-02  4.062e-02   0.950 0.342013
## f.22000.0.016   2.005e-03  4.081e-02   0.049 0.960819
## f.22000.0.017  -1.447e-02  4.043e-02  -0.358 0.720508
## f.22000.0.018   7.259e-03  4.082e-02   0.178 0.858865
## f.22000.0.019   5.942e-03  4.006e-02   0.148 0.882092
## f.22000.0.02    6.506e-04  4.023e-02   0.016 0.987097
## f.22000.0.0-2   7.225e-02  4.095e-02   1.765 0.077635 .
## f.22000.0.020  -2.835e-02  4.074e-02  -0.696 0.486540
## f.22000.0.021   2.638e-02  4.065e-02   0.649 0.516433
## f.22000.0.022   8.622e-03  4.061e-02   0.212 0.831869
## f.22000.0.023   1.964e-02  4.061e-02   0.484 0.628575
## f.22000.0.024   2.503e-02  4.005e-02   0.625 0.531959
## f.22000.0.025  -1.755e-02  4.109e-02  -0.427 0.669338
## f.22000.0.026   7.423e-03  4.084e-02   0.182 0.855751
## f.22000.0.027  -6.823e-03  4.017e-02  -0.170 0.865113
## f.22000.0.028   4.106e-02  4.058e-02   1.012 0.311510
## f.22000.0.029   3.514e-02  4.033e-02   0.871 0.383594
## f.22000.0.03    8.920e-03  4.026e-02   0.222 0.824640
## f.22000.0.0-3   5.341e-02  4.055e-02   1.317 0.187751
## f.22000.0.030   2.341e-02  4.032e-02   0.581 0.561520
## f.22000.0.031   4.093e-02  4.048e-02   1.011 0.311968
## f.22000.0.032   2.684e-02  4.066e-02   0.660 0.509242
## f.22000.0.033  -9.965e-03  4.138e-02  -0.241 0.809721
## f.22000.0.034   7.320e-02  4.042e-02   1.811 0.070120 .
## f.22000.0.035   2.213e-02  4.049e-02   0.547 0.584606
## f.22000.0.036   2.835e-02  4.022e-02   0.705 0.480812
## f.22000.0.037  -4.786e-02  4.082e-02  -1.172 0.240999
## f.22000.0.038   2.617e-02  4.065e-02   0.644 0.519728
## f.22000.0.039   2.089e-02  4.112e-02   0.508 0.611471
## f.22000.0.04    2.103e-02  4.098e-02   0.513 0.607722
## f.22000.0.0-4   7.004e-02  4.121e-02   1.700 0.089197 .
## f.22000.0.040   1.759e-02  4.061e-02   0.433 0.664867
## f.22000.0.041  -5.470e-02  4.121e-02  -1.327 0.184464
## f.22000.0.042  -1.793e-02  4.051e-02  -0.443 0.658105
## f.22000.0.043   1.379e-02  4.125e-02   0.334 0.738063
## f.22000.0.044  -9.974e-03  4.080e-02  -0.244 0.806869
## f.22000.0.045   7.659e-03  4.084e-02   0.188 0.851231
## f.22000.0.046   3.007e-02  4.106e-02   0.732 0.463963
## f.22000.0.047  -1.975e-03  4.106e-02  -0.048 0.961638
## f.22000.0.048   5.574e-04  4.098e-02   0.014 0.989148
## f.22000.0.049  -1.834e-02  4.103e-02  -0.447 0.654942
## f.22000.0.05   -1.787e-02  4.031e-02  -0.443 0.657640
## f.22000.0.0-5   2.046e-03  4.075e-02   0.050 0.959960
## f.22000.0.050   6.120e-02  4.109e-02   1.489 0.136375
## f.22000.0.051   2.830e-02  4.046e-02   0.699 0.484362
## f.22000.0.052  -1.924e-02  4.120e-02  -0.467 0.640448
## f.22000.0.053   2.509e-02  4.091e-02   0.613 0.539654
```

```
## f.22000.0.054   2.036e-02  4.100e-02   0.497 0.619537
## f.22000.0.055   3.274e-02  4.134e-02   0.792 0.428398
## f.22000.0.056  -2.018e-02  4.099e-02  -0.492 0.622461
## f.22000.0.057   1.324e-02  4.118e-02   0.322 0.747790
## f.22000.0.058  -2.521e-02  4.099e-02  -0.615 0.538528
## f.22000.0.059   6.044e-02  4.085e-02   1.479 0.139012
## f.22000.0.06   -1.627e-03  4.017e-02  -0.040 0.967697
## f.22000.0.0-6   3.837e-02  4.108e-02   0.934 0.350245
## f.22000.0.060  -3.577e-02  4.123e-02  -0.868 0.385656
## f.22000.0.061   7.312e-02  4.148e-02   1.763 0.077968 .
## f.22000.0.062   4.573e-02  4.134e-02   1.106 0.268694
## f.22000.0.063   1.702e-02  4.133e-02   0.412 0.680473
## f.22000.0.064   2.275e-02  4.098e-02   0.555 0.578773
## f.22000.0.065   4.191e-02  4.124e-02   1.016 0.309472
## f.22000.0.066   9.606e-03  4.165e-02   0.231 0.817593
## f.22000.0.067   2.589e-02  4.121e-02   0.628 0.529933
## f.22000.0.068   4.011e-02  4.114e-02   0.975 0.329570
## f.22000.0.069   6.909e-02  4.125e-02   1.675 0.093988 .
## f.22000.0.07    3.787e-02  4.048e-02   0.936 0.349486
## f.22000.0.0-7  -1.201e-02  4.086e-02  -0.294 0.768703
## f.22000.0.070   1.156e-02  4.127e-02   0.280 0.779449
## f.22000.0.071   7.672e-02  4.105e-02   1.869 0.061650 .
## f.22000.0.072   3.019e-02  4.131e-02   0.731 0.464872
## f.22000.0.073   5.462e-02  4.129e-02   1.323 0.185822
## f.22000.0.074  -9.233e-03  4.147e-02  -0.223 0.823822
## f.22000.0.075  -4.318e-03  4.106e-02  -0.105 0.916245
## f.22000.0.076  -6.616e-03  4.152e-02  -0.159 0.873382
## f.22000.0.077  -2.521e-02  4.128e-02  -0.611 0.541462
## f.22000.0.078   3.241e-02  4.100e-02   0.790 0.429246
## f.22000.0.079   9.848e-03  4.096e-02   0.240 0.809985
## f.22000.0.08    7.638e-02  4.045e-02   1.888 0.059008 .
## f.22000.0.0-8   4.826e-02  4.102e-02   1.176 0.239443
## f.22000.0.080   3.453e-02  4.138e-02   0.834 0.404081
## f.22000.0.081   4.857e-02  4.187e-02   1.160 0.246105
## f.22000.0.082  -4.155e-02  4.135e-02  -1.005 0.315052
## f.22000.0.083  -1.348e-02  4.148e-02  -0.325 0.745249
## f.22000.0.084   3.566e-02  4.147e-02   0.860 0.389860
## f.22000.0.085   6.670e-02  4.132e-02   1.614 0.106473
## f.22000.0.086  -1.551e-02  4.142e-02  -0.374 0.708163
## f.22000.0.087  -2.581e-02  4.141e-02  -0.623 0.533172
## f.22000.0.088  -1.914e-02  4.214e-02  -0.454 0.649727
## f.22000.0.089   2.156e-02  4.183e-02   0.515 0.606370
## f.22000.0.09    6.959e-03  4.021e-02   0.173 0.862598
## f.22000.0.0-9   5.928e-02  4.103e-02   1.445 0.148511
## f.22000.0.090   1.380e-03  4.142e-02   0.033 0.973410
## f.22000.0.091   4.993e-02  4.278e-02   1.167 0.243160
## f.22000.0.092  -1.936e-04  4.153e-02  -0.005 0.996280
## f.22000.0.093   6.239e-03  4.144e-02   0.151 0.880319
## f.22000.0.094   1.233e-02  5.298e-02   0.233 0.816042
## f.22000.0.095   4.004e-02  4.418e-02   0.906 0.364842
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9968 on 119713 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.007489,   Adjusted R-squared:  0.006428
## F-statistic: 7.057 on 128 and 119713 DF,  p-value: < 2.2e-16
```

```
summary(lm( f.20491.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0
.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20491.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
```

```
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6735 -0.3981 -0.3310 -0.2371  5.4976
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)      1.859e+01  7.452e-01  24.949  < 2e-16 ***
## f.22009.0.1     -5.876e-05  3.048e-03  -0.019 0.984618
## f.22009.0.2      1.890e-03  2.933e-03   0.644 0.519322
## f.22009.0.3     -9.933e-04  3.009e-03  -0.330 0.741307
## f.22009.0.4      5.998e-03  4.210e-03   1.425 0.154298
## f.22009.0.5      1.353e-02  4.086e-03   3.310 0.000933 ***
## f.22009.0.6      1.538e-03  2.979e-03   0.516 0.605525
## f.22009.0.7     -5.580e-03  3.050e-03  -1.830 0.067314 .
## f.22009.0.8      1.906e-03  3.217e-03   0.592 0.553556
## f.22009.0.9      6.190e-03  3.071e-03   2.015 0.043865 *
## f.22009.0.10    -7.939e-04  3.563e-03  -0.223 0.823659
## f.22009.0.11     1.580e-02  4.143e-03   3.814 0.000137 ***
## f.22009.0.12    -1.564e-03  3.640e-03  -0.430 0.667427
## f.22009.0.13    -1.803e-03  2.929e-03  -0.615 0.538247
## f.22009.0.14    -1.994e-02  3.095e-03  -6.441 1.19e-10 ***
## f.22009.0.15     9.146e-04  3.173e-03   0.288 0.773164
## f.22009.0.16    -1.177e-02  3.108e-03  -3.788 0.000152 ***
## f.22009.0.17    -5.792e-03  2.886e-03  -2.007 0.044763 *
## f.22009.0.18     6.627e-03  2.893e-03   2.291 0.021985 *
## f.22009.0.19    -2.482e-03  2.881e-03  -0.862 0.388921
## f.22009.0.20     8.795e-03  2.886e-03   3.047 0.002310 **
## f.22001.0.01    -4.845e-02  5.819e-03  -8.325  < 2e-16 ***
## f.34.0.0        -9.522e-03  3.813e-04 -24.972  < 2e-16 ***
## f.22000.0.0-1    1.241e-01  4.067e-02   3.051 0.002282 **
## f.22000.0.010   -3.830e-02  4.115e-02  -0.931 0.351988
## f.22000.0.0-10  -1.707e-02  4.137e-02  -0.413 0.679817
## f.22000.0.011   -1.985e-02  4.047e-02  -0.491 0.623731
## f.22000.0.0-11   7.575e-02  4.100e-02   1.848 0.064645 .
## f.22000.0.012   -7.247e-05  4.074e-02  -0.002 0.998581
## f.22000.0.013    5.743e-02  4.059e-02   1.415 0.157105
## f.22000.0.014    4.743e-03  4.032e-02   0.118 0.906360
## f.22000.0.015    3.860e-02  4.062e-02   0.950 0.342018
## f.22000.0.016    1.970e-03  4.081e-02   0.048 0.961492
## f.22000.0.017   -1.443e-02  4.043e-02  -0.357 0.721146
## f.22000.0.018    7.272e-03  4.082e-02   0.178 0.858604
## f.22000.0.019    5.853e-03  4.006e-02   0.146 0.883845
## f.22000.0.02     6.906e-04  4.023e-02   0.017 0.986304
## f.22000.0.0-2    7.226e-02  4.095e-02   1.765 0.077598 .
## f.22000.0.020   -2.839e-02  4.074e-02  -0.697 0.485878
## f.22000.0.021    2.638e-02  4.065e-02   0.649 0.516435
## f.22000.0.022    8.615e-03  4.061e-02   0.212 0.832002
## f.22000.0.023    1.962e-02  4.061e-02   0.483 0.628965
## f.22000.0.024    2.499e-02  4.005e-02   0.624 0.532538
## f.22000.0.025   -1.754e-02  4.109e-02  -0.427 0.669544
## f.22000.0.026    7.330e-03  4.084e-02   0.179 0.857551
## f.22000.0.027   -6.826e-03  4.017e-02  -0.170 0.865066
## f.22000.0.028    4.102e-02  4.058e-02   1.011 0.312025
## f.22000.0.029    3.517e-02  4.033e-02   0.872 0.383230
## f.22000.0.03     8.881e-03  4.026e-02   0.221 0.825402
## f.22000.0.0-3    5.344e-02  4.055e-02   1.318 0.187510
## f.22000.0.030    2.345e-02  4.032e-02   0.582 0.560888
## f.22000.0.031    4.099e-02  4.048e-02   1.013 0.311261
## f.22000.0.032    2.685e-02  4.066e-02   0.660 0.509067
## f.22000.0.033   -9.937e-03  4.138e-02  -0.240 0.810235
## f.22000.0.034    7.320e-02  4.042e-02   1.811 0.070134 .
## f.22000.0.035    2.210e-02  4.049e-02   0.546 0.585203
## f.22000.0.036    2.836e-02  4.022e-02   0.705 0.480612
## f.22000.0.037   -4.791e-02  4.082e-02  -1.174 0.240527
## f.22000.0.038    2.613e-02  4.065e-02   0.643 0.520393
## f.22000.0.039    2.095e-02  4.112e-02   0.509 0.610435
## f.22000.0.04     2.103e-02  4.098e-02   0.513 0.607730
## f.22000.0.0-4    7.005e-02  4.121e-02   1.700 0.089121 .
## f.22000.0.040    1.755e-02  4.061e-02   0.432 0.665658
## f.22000.0.041   -5.476e-02  4.121e-02  -1.329 0.183971
## f.22000.0.042   -1.790e-02  4.051e-02  -0.442 0.658565
```

```
## f.22000.0.043   1.378e-02  4.125e-02   0.334 0.738223
## f.22000.0.044  -1.003e-02  4.080e-02  -0.246 0.805770
## f.22000.0.045   7.744e-03  4.084e-02   0.190 0.849591
## f.22000.0.046   3.019e-02  4.106e-02   0.735 0.462170
## f.22000.0.047  -2.062e-03  4.106e-02  -0.050 0.959938
## f.22000.0.048   4.587e-04  4.098e-02   0.011 0.991069
## f.22000.0.049  -1.841e-02  4.103e-02  -0.449 0.653720
## f.22000.0.05   -1.793e-02  4.031e-02  -0.445 0.656422
## f.22000.0.0-5   1.933e-03  4.075e-02   0.047 0.962166
## f.22000.0.050   6.113e-02  4.109e-02   1.488 0.136825
## f.22000.0.051   2.824e-02  4.046e-02   0.698 0.485169
## f.22000.0.052  -1.931e-02  4.120e-02  -0.469 0.639227
## f.22000.0.053   2.508e-02  4.091e-02   0.613 0.539800
## f.22000.0.054   2.038e-02  4.100e-02   0.497 0.619234
## f.22000.0.055   3.280e-02  4.134e-02   0.793 0.427575
## f.22000.0.056  -2.026e-02  4.098e-02  -0.494 0.621027
## f.22000.0.057   1.325e-02  4.118e-02   0.322 0.747610
## f.22000.0.058  -2.524e-02  4.099e-02  -0.616 0.538098
## f.22000.0.059   6.045e-02  4.085e-02   1.480 0.138947
## f.22000.0.06   -1.607e-03  4.017e-02  -0.040 0.968091
## f.22000.0.0-6   3.842e-02  4.108e-02   0.935 0.349681
## f.22000.0.060  -3.583e-02  4.123e-02  -0.869 0.384926
## f.22000.0.061   7.313e-02  4.148e-02   1.763 0.077932 .
## f.22000.0.062   4.579e-02  4.134e-02   1.108 0.268057
## f.22000.0.063   1.701e-02  4.133e-02   0.411 0.680750
## f.22000.0.064   2.273e-02  4.098e-02   0.555 0.579203
## f.22000.0.065   4.186e-02  4.124e-02   1.015 0.309986
## f.22000.0.066   9.534e-03  4.165e-02   0.229 0.818938
## f.22000.0.067   2.585e-02  4.121e-02   0.627 0.530463
## f.22000.0.068   4.009e-02  4.114e-02   0.975 0.329728
## f.22000.0.069   6.903e-02  4.125e-02   1.673 0.094266 .
## f.22000.0.07    3.784e-02  4.048e-02   0.935 0.349931
## f.22000.0.0-7  -1.210e-02  4.085e-02  -0.296 0.767050
## f.22000.0.070   1.160e-02  4.127e-02   0.281 0.778654
## f.22000.0.071   7.679e-02  4.105e-02   1.871 0.061409 .
## f.22000.0.072   3.028e-02  4.131e-02   0.733 0.463631
## f.22000.0.073   5.456e-02  4.129e-02   1.321 0.186360
## f.22000.0.074  -9.243e-03  4.147e-02  -0.223 0.823646
## f.22000.0.075  -4.265e-03  4.106e-02  -0.104 0.917280
## f.22000.0.076  -6.540e-03  4.152e-02  -0.158 0.874819
## f.22000.0.077  -2.527e-02  4.128e-02  -0.612 0.540409
## f.22000.0.078   3.230e-02  4.100e-02   0.788 0.430798
## f.22000.0.079   9.940e-03  4.096e-02   0.243 0.808231
## f.22000.0.08    7.646e-02  4.045e-02   1.890 0.058726 .
## f.22000.0.0-8   4.821e-02  4.102e-02   1.175 0.239925
## f.22000.0.080   3.450e-02  4.138e-02   0.834 0.404416
## f.22000.0.081   4.856e-02  4.187e-02   1.160 0.246141
## f.22000.0.082  -4.147e-02  4.135e-02  -1.003 0.315939
## f.22000.0.083  -1.351e-02  4.148e-02  -0.326 0.744710
## f.22000.0.084   3.574e-02  4.147e-02   0.862 0.388730
## f.22000.0.085   6.681e-02  4.132e-02   1.617 0.105940
## f.22000.0.086  -1.552e-02  4.142e-02  -0.375 0.707952
## f.22000.0.087  -2.578e-02  4.141e-02  -0.623 0.533568
## f.22000.0.088  -1.913e-02  4.214e-02  -0.454 0.649798
## f.22000.0.089   2.162e-02  4.183e-02   0.517 0.605206
## f.22000.0.09    6.922e-03  4.021e-02   0.172 0.863324
## f.22000.0.0-9   5.923e-02  4.103e-02   1.444 0.148880
## f.22000.0.090   1.362e-03  4.142e-02   0.033 0.973759
## f.22000.0.091   4.987e-02  4.278e-02   1.166 0.243711
## f.22000.0.092  -1.161e-04  4.153e-02  -0.003 0.997770
## f.22000.0.093   6.261e-03  4.144e-02   0.151 0.879902
## f.22000.0.094   1.223e-02  5.298e-02   0.231 0.817498
## f.22000.0.095   4.005e-02  4.418e-02   0.906 0.364702
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9968 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.007486,   Adjusted R-squared:  0.006433
## F-statistic:  7.11 on 127 and 119714 DF,  p-value: < 2.2e-16
```

PGS of self-harm items

```
###PGS on self-harm items

## Life not worth living: f.20479.0.0 <-# Life not worth living


a = glm( lifenotworthliving ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009
.0.5 + f.22009.0.6 +
              f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
              f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = lifenotworthliving ~ `0.750000` + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0,
##     data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.1614  -0.7010  -0.5339   1.3095   1.9991
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.339e+01  7.394e-01 -45.157  < 2e-16 ***
## `0.750000`      3.272e-02  2.861e-03  11.438  < 2e-16 ***
## f.22009.0.1     8.927e-03  3.025e-03   2.951  0.00316 **
## f.22009.0.2    -1.933e-03  2.910e-03  -0.664  0.50653
## f.22009.0.3    -2.751e-03  2.986e-03  -0.921  0.35689
## f.22009.0.4    -7.506e-03  4.177e-03  -1.797  0.07234 .
## f.22009.0.5     2.637e-03  4.056e-03   0.650  0.51560
## f.22009.0.6    -2.225e-04  2.955e-03  -0.075  0.94000
## f.22009.0.7    -7.068e-03  3.027e-03  -2.335  0.01952 *
## f.22009.0.8     4.980e-03  3.193e-03   1.560  0.11879
## f.22009.0.9    -5.377e-03  3.048e-03  -1.764  0.07771 .
## f.22009.0.10    3.606e-03  3.535e-03   1.020  0.30767
## f.22009.0.11   -4.592e-03  4.112e-03  -1.117  0.26417
## f.22009.0.12    1.455e-03  3.613e-03   0.403  0.68709
## f.22009.0.13   -2.686e-03  2.907e-03  -0.924  0.35550
## f.22009.0.14   -1.816e-02  3.072e-03  -5.912  3.4e-09 ***
## f.22009.0.15   -1.817e-03  3.149e-03  -0.577  0.56391
## f.22009.0.16   -7.078e-03  3.084e-03  -2.295  0.02172 *
## f.22009.0.17    1.012e-03  2.864e-03   0.353  0.72372
## f.22009.0.18   -1.365e-03  2.871e-03  -0.476  0.63442
## f.22009.0.19    1.007e-03  2.859e-03   0.352  0.72482
## f.22009.0.20    2.826e-03  2.865e-03   0.986  0.32392
## f.22001.0.01   -1.626e-01  5.775e-03 -28.156  < 2e-16 ***
## f.34.0.0        1.713e-02  3.784e-04  45.260  < 2e-16 ***
## f.22000.0.0-1   6.005e-02  4.037e-02   1.488  0.13685
## f.22000.0.010   6.377e-03  4.082e-02   0.156  0.87586
## f.22000.0.0-10  8.518e-02  4.101e-02   2.077  0.03779 *
## f.22000.0.011   7.135e-02  4.015e-02   1.777  0.07554 .
## f.22000.0.0-11  5.058e-02  4.066e-02   1.244  0.21351
## f.22000.0.012   2.281e-02  4.040e-02   0.565  0.57241
## f.22000.0.013   6.531e-03  4.028e-02   0.162  0.87119
## f.22000.0.014   6.569e-02  4.001e-02   1.642  0.10064
## f.22000.0.015   5.162e-02  4.031e-02   1.281  0.20032
## f.22000.0.016   9.188e-02  4.052e-02   2.268  0.02336 *
## f.22000.0.017   6.804e-02  4.015e-02   1.695  0.09011 .
## f.22000.0.018  -2.491e-02  4.054e-02  -0.614  0.53893
## f.22000.0.019   4.979e-02  3.976e-02   1.252  0.21045
## f.22000.0.02    6.927e-03  3.991e-02   0.174  0.86222
## f.22000.0.0-2   9.530e-02  4.062e-02   2.346  0.01898 *
## f.22000.0.020   2.713e-02  4.044e-02   0.671  0.50223
```

```
## f.22000.0.020   2.715e-02  4.044e-02   0.671  0.50223
## f.22000.0.021   5.383e-02  4.031e-02   1.335  0.18176
## f.22000.0.022   3.441e-02  4.030e-02   0.854  0.39315
## f.22000.0.023   2.705e-02  4.028e-02   0.672  0.50181
## f.22000.0.024   1.297e-02  3.978e-02   0.326  0.74438
## f.22000.0.025   3.719e-02  4.078e-02   0.912  0.36178
## f.22000.0.026   3.698e-04  4.056e-02   0.009  0.99273
## f.22000.0.027   1.558e-02  3.990e-02   0.390  0.69619
## f.22000.0.028   1.045e-02  4.031e-02   0.259  0.79552
## f.22000.0.029   2.360e-02  4.000e-02   0.590  0.55515
## f.22000.0.03    7.278e-03  3.996e-02   0.182  0.85548
## f.22000.0.0-3   5.576e-03  4.023e-02   0.139  0.88976
## f.22000.0.030  -7.957e-03  4.001e-02  -0.199  0.84237
## f.22000.0.031   2.218e-02  4.021e-02   0.552  0.58127
## f.22000.0.032   3.511e-02  4.033e-02   0.870  0.38405
## f.22000.0.033   1.863e-02  4.105e-02   0.454  0.64994
## f.22000.0.034   4.087e-02  4.010e-02   1.019  0.30816
## f.22000.0.035   9.165e-02  4.020e-02   2.280  0.02262 *
## f.22000.0.036   7.116e-02  3.990e-02   1.783  0.07455 .
## f.22000.0.037  -7.678e-03  4.052e-02  -0.189  0.84973
## f.22000.0.038   7.723e-02  4.036e-02   1.914  0.05566 .
## f.22000.0.039   3.750e-02  4.083e-02   0.918  0.35845
## f.22000.0.04    1.638e-02  4.067e-02   0.403  0.68719
## f.22000.0.0-4   6.934e-02  4.091e-02   1.695  0.09008 .
## f.22000.0.040   6.613e-02  4.031e-02   1.641  0.10089
## f.22000.0.041   4.565e-02  4.088e-02   1.117  0.26410
## f.22000.0.042   1.376e-02  4.019e-02   0.342  0.73209
## f.22000.0.043  -5.696e-03  4.097e-02  -0.139  0.88942
## f.22000.0.044   6.544e-02  4.048e-02   1.617  0.10595
## f.22000.0.045   4.940e-02  4.049e-02   1.220  0.22246
## f.22000.0.046  -2.578e-02  4.073e-02  -0.633  0.52681
## f.22000.0.047   1.517e-02  4.077e-02   0.372  0.70988
## f.22000.0.048   1.822e-02  4.071e-02   0.448  0.65448
## f.22000.0.049   6.673e-02  4.073e-02   1.639  0.10132
## f.22000.0.05    1.928e-02  4.003e-02   0.482  0.62996
## f.22000.0.0-5   9.324e-02  4.044e-02   2.306  0.02114 *
## f.22000.0.050   1.076e-02  4.073e-02   0.264  0.79164
## f.22000.0.051   1.100e-01  4.012e-02   2.742  0.00611 **
## f.22000.0.052   3.816e-02  4.088e-02   0.933  0.35060
## f.22000.0.053  -1.557e-02  4.059e-02  -0.384  0.70124
## f.22000.0.054   5.381e-02  4.068e-02   1.323  0.18595
## f.22000.0.055   8.185e-02  4.107e-02   1.993  0.04627 *
## f.22000.0.056   7.774e-02  4.069e-02   1.911  0.05606 .
## f.22000.0.057   4.181e-02  4.084e-02   1.024  0.30595
## f.22000.0.058   3.127e-02  4.071e-02   0.768  0.44238
## f.22000.0.059   8.509e-02  4.050e-02   2.101  0.03565 *
## f.22000.0.06    5.394e-02  3.986e-02   1.353  0.17601
## f.22000.0.0-6   2.422e-02  4.081e-02   0.593  0.55296
## f.22000.0.060   1.487e-02  4.094e-02   0.363  0.71635
## f.22000.0.061   4.529e-02  4.117e-02   1.100  0.27130
## f.22000.0.062   2.908e-02  4.101e-02   0.709  0.47832
## f.22000.0.063   2.476e-02  4.099e-02   0.604  0.54585
## f.22000.0.064   1.029e-02  4.070e-02   0.253  0.80046
## f.22000.0.065   4.404e-02  4.091e-02   1.077  0.28166
## f.22000.0.066   6.061e-02  4.129e-02   1.468  0.14219
## f.22000.0.067   1.248e-02  4.087e-02   0.305  0.76007
## f.22000.0.068   5.634e-02  4.078e-02   1.381  0.16715
## f.22000.0.069   8.675e-03  4.095e-02   0.212  0.83222
## f.22000.0.07   -3.946e-03  4.019e-02  -0.098  0.92179
## f.22000.0.0-7   4.916e-02  4.054e-02   1.213  0.22529
## f.22000.0.070   1.964e-02  4.100e-02   0.479  0.63188
## f.22000.0.071  -1.154e-02  4.077e-02  -0.283  0.77706
## f.22000.0.072   2.343e-02  4.100e-02   0.572  0.56765
## f.22000.0.073   5.127e-02  4.101e-02   1.250  0.21126
## f.22000.0.074   7.827e-02  4.115e-02   1.902  0.05717 .
## f.22000.0.075   8.200e-02  4.075e-02   2.012  0.04417 *
## f.22000.0.076   6.004e-02  4.118e-02   1.458  0.14482
## f.22000.0.077   3.086e-02  4.095e-02   0.754  0.45106
## f.22000.0.078  -1.338e-02  4.073e-02  -0.329  0.74248
## f.22000.0.079   3.207e-04  4.061e-02   0.008  0.99370
## f.22000.0.08    2.319e-03  4.012e-02   0.058  0.95391
## f.22000.0.0-8   4.373e-02  4.074e-02   1.073  0.28308
## f.22000.0.080   6.555e-02  4.108e-02   1.596  0.11058
```

```
## f.22000.0.081   4.341e-02  4.159e-02   1.044  0.29655
## f.22000.0.082   7.406e-03  4.109e-02   0.180  0.85696
## f.22000.0.083   8.224e-04  4.115e-02   0.020  0.98405
## f.22000.0.084   5.624e-02  4.114e-02   1.367  0.17164
## f.22000.0.085   6.578e-02  4.104e-02   1.603  0.10896
## f.22000.0.086  -1.122e-02  4.111e-02  -0.273  0.78482
## f.22000.0.087   4.011e-02  4.107e-02   0.977  0.32876
## f.22000.0.088   1.999e-02  4.185e-02   0.478  0.63281
## f.22000.0.089   2.012e-02  4.152e-02   0.485  0.62803
## f.22000.0.09    5.468e-04  3.987e-02   0.014  0.98906
## f.22000.0.0-9   7.587e-02  4.075e-02   1.861  0.06268 .
## f.22000.0.090   4.580e-02  4.110e-02   1.114  0.26509
## f.22000.0.091   3.986e-03  4.245e-02   0.094  0.92519
## f.22000.0.092   3.962e-02  4.119e-02   0.962  0.33614
## f.22000.0.093   4.099e-02  4.111e-02   0.997  0.31869
## f.22000.0.094   2.837e-03  5.255e-02   0.054  0.95695
## f.22000.0.095   1.512e-02  4.385e-02   0.345  0.73027
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9730281)
##
##     Null deviance: 119166  on 119166  degrees of freedom
## Residual deviance: 115827  on 119038  degrees of freedom
##   (700 observations deleted due to missingness)
## AIC: 335054
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.801703e-02     2.583520e-02     2.762796e-02     4.370701e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.801703e-02     6.960736e-01     1.104301e-04
##              AIC    Corrected.AIC
##     1.160853e+05     1.160856e+05
```

```
b = glm( lifenotworthliving ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.220
09.0.6 +
             f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
             f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(b)
```

```
##
## Call:
## glm(formula = lifenotworthliving ~ f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.1436  -0.7004  -0.5353   1.3146   1.9287
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.341e+01  7.398e-01 -45.154  < 2e-16 ***
## f.22009.0.1     9.204e-03  3.026e-03   3.041  0.00235 **
## f.22009.0.2    -2.013e-03  2.912e-03  -0.691  0.48946
## f.22009.0.3    -2.863e-03  2.988e-03  -0.958  0.33792
## f.22009.0.4    -7.456e-03  4.179e-03  -1.784  0.07444 .
## f.22009.0.5     3.507e-03  4.057e-03   0.865  0.38731
## f.22009.0.6    -8.917e-05  2.957e-03  -0.030  0.97594
## f.22009.0.7    -7.406e-03  3.028e-03  -2.446  0.01446 *
## f.22009.0.8     4.935e-03  3.195e-03   1.545  0.12243
```

```
## f.22009.0.9    -5.360e-03  3.049e-03  -1.758  0.07880 .
## f.22009.0.10    3.462e-03  3.537e-03   0.979  0.32762
## f.22009.0.11   -4.067e-03  4.114e-03  -0.989  0.32287
## f.22009.0.12    1.556e-03  3.615e-03   0.430  0.66685
## f.22009.0.13   -2.644e-03  2.908e-03  -0.909  0.36318
## f.22009.0.14   -1.861e-02  3.074e-03  -6.054 1.42e-09 ***
## f.22009.0.15   -1.813e-03  3.150e-03  -0.575  0.56506
## f.22009.0.16   -7.065e-03  3.086e-03  -2.290  0.02205 *
## f.22009.0.17    9.144e-04  2.865e-03   0.319  0.74962
## f.22009.0.18   -1.427e-03  2.873e-03  -0.497  0.61923
## f.22009.0.19    1.179e-03  2.861e-03   0.412  0.68037
## f.22009.0.20    3.135e-03  2.866e-03   1.094  0.27408
## f.22001.0.01   -1.633e-01  5.777e-03 -28.260  < 2e-16 ***
## f.34.0.0        1.713e-02  3.786e-04  45.259  < 2e-16 ***
## f.22000.0.0-1   5.992e-02  4.039e-02   1.483  0.13796
## f.22000.0.010   6.385e-03  4.085e-02   0.156  0.87577
## f.22000.0.0-10  8.384e-02  4.103e-02   2.043  0.04103 *
## f.22000.0.011   7.155e-02  4.017e-02   1.781  0.07489 .
## f.22000.0.0-11  5.086e-02  4.068e-02   1.250  0.21123
## f.22000.0.012   2.254e-02  4.043e-02   0.558  0.57718
## f.22000.0.013   5.118e-03  4.030e-02   0.127  0.89893
## f.22000.0.014   6.490e-02  4.003e-02   1.621  0.10500
## f.22000.0.015   5.159e-02  4.033e-02   1.279  0.20084
## f.22000.0.016   9.126e-02  4.054e-02   2.251  0.02439 *
## f.22000.0.017   6.884e-02  4.017e-02   1.714  0.08659 .
## f.22000.0.018  -2.462e-02  4.057e-02  -0.607  0.54398
## f.22000.0.019   4.822e-02  3.978e-02   1.212  0.22549
## f.22000.0.02    7.615e-03  3.993e-02   0.191  0.84878
## f.22000.0.0-2   9.550e-02  4.064e-02   2.350  0.01879 *
## f.22000.0.020   2.648e-02  4.046e-02   0.654  0.51281
## f.22000.0.021   5.391e-02  4.034e-02   1.337  0.18138
## f.22000.0.022   3.436e-02  4.032e-02   0.852  0.39409
## f.22000.0.023   2.664e-02  4.030e-02   0.661  0.50861
## f.22000.0.024   1.214e-02  3.980e-02   0.305  0.76038
## f.22000.0.025   3.735e-02  4.081e-02   0.915  0.36007
## f.22000.0.026  -1.283e-03  4.058e-02  -0.032  0.97477
## f.22000.0.027   1.543e-02  3.992e-02   0.387  0.69903
## f.22000.0.028   9.509e-03  4.033e-02   0.236  0.81359
## f.22000.0.029   2.404e-02  4.002e-02   0.601  0.54811
## f.22000.0.03    6.538e-03  3.998e-02   0.164  0.87012
## f.22000.0.0-3   6.128e-03  4.025e-02   0.152  0.87899
## f.22000.0.030  -7.321e-03  4.003e-02  -0.183  0.85491
## f.22000.0.031   2.314e-02  4.023e-02   0.575  0.56521
## f.22000.0.032   3.536e-02  4.035e-02   0.876  0.38093
## f.22000.0.033   1.908e-02  4.107e-02   0.464  0.64233
## f.22000.0.034   4.074e-02  4.012e-02   1.015  0.30992
## f.22000.0.035   9.095e-02  4.022e-02   2.261  0.02374 *
## f.22000.0.036   7.145e-02  3.993e-02   1.790  0.07350 .
## f.22000.0.037  -8.722e-03  4.054e-02  -0.215  0.82967
## f.22000.0.038   7.646e-02  4.038e-02   1.894  0.05829 .
## f.22000.0.039   3.869e-02  4.085e-02   0.947  0.34356
## f.22000.0.04    1.652e-02  4.069e-02   0.406  0.68472
## f.22000.0.0-4   6.974e-02  4.093e-02   1.704  0.08844 .
## f.22000.0.040   6.536e-02  4.033e-02   1.621  0.10509
## f.22000.0.041   4.463e-02  4.090e-02   1.091  0.27525
## f.22000.0.042   1.413e-02  4.021e-02   0.351  0.72534
## f.22000.0.043  -5.904e-03  4.099e-02  -0.144  0.88549
## f.22000.0.044   6.437e-02  4.050e-02   1.589  0.11198
## f.22000.0.045   5.094e-02  4.052e-02   1.257  0.20864
## f.22000.0.046  -2.362e-02  4.075e-02  -0.580  0.56216
## f.22000.0.047   1.355e-02  4.080e-02   0.332  0.73973
## f.22000.0.048   1.637e-02  4.073e-02   0.402  0.68768
## f.22000.0.049   6.545e-02  4.075e-02   1.606  0.10827
## f.22000.0.05    1.804e-02  4.005e-02   0.450  0.65241
## f.22000.0.0-5   9.109e-02  4.046e-02   2.251  0.02436 *
## f.22000.0.050   9.467e-03  4.075e-02   0.232  0.81627
## f.22000.0.051   1.090e-01  4.014e-02   2.717  0.00660 **
## f.22000.0.052   3.674e-02  4.090e-02   0.898  0.36911
## f.22000.0.053  -1.568e-02  4.062e-02  -0.386  0.69943
## f.22000.0.054   5.413e-02  4.070e-02   1.330  0.18359
## f.22000.0.055   8.278e-02  4.109e-02   2.014  0.04396 *
## f.22000.0.056   7.627e-02  4.071e-02   1.873  0.06103 .
## f.22000.0.057   4.199e-02  4.087e-02   1.028  0.30414
```

```
## f.22000.0.058   3.081e-02  4.073e-02   0.756  0.44940
## f.22000.0.059   8.523e-02  4.052e-02   2.103  0.03545 *
## f.22000.0.06    5.423e-02  3.988e-02   1.360  0.17392
## f.22000.0.0-6   2.509e-02  4.083e-02   0.614  0.53895
## f.22000.0.060   1.378e-02  4.096e-02   0.336  0.73650
## f.22000.0.061   4.547e-02  4.119e-02   1.104  0.26965
## f.22000.0.062   3.025e-02  4.103e-02   0.737  0.46100
## f.22000.0.063   2.444e-02  4.101e-02   0.596  0.55113
## f.22000.0.064   9.625e-03  4.072e-02   0.236  0.81315
## f.22000.0.065   4.347e-02  4.093e-02   1.062  0.28829
## f.22000.0.066   5.924e-02  4.132e-02   1.434  0.15162
## f.22000.0.067   1.181e-02  4.089e-02   0.289  0.77274
## f.22000.0.068   5.606e-02  4.080e-02   1.374  0.16945
## f.22000.0.069   7.655e-03  4.097e-02   0.187  0.85179
## f.22000.0.07   -4.495e-03  4.022e-02  -0.112  0.91100
## f.22000.0.0-7   4.757e-02  4.056e-02   1.173  0.24087
## f.22000.0.070   2.034e-02  4.102e-02   0.496  0.61998
## f.22000.0.071  -1.025e-02  4.079e-02  -0.251  0.80160
## f.22000.0.072   2.495e-02  4.102e-02   0.608  0.54305
## f.22000.0.073   4.989e-02  4.103e-02   1.216  0.22408
## f.22000.0.074   7.803e-02  4.117e-02   1.895  0.05806 .
## f.22000.0.075   8.282e-02  4.077e-02   2.031  0.04221 *
## f.22000.0.076   6.132e-02  4.120e-02   1.488  0.13669
## f.22000.0.077   2.967e-02  4.097e-02   0.724  0.46899
## f.22000.0.078  -1.554e-02  4.075e-02  -0.381  0.70297
## f.22000.0.079   2.058e-03  4.064e-02   0.051  0.95960
## f.22000.0.08    3.902e-03  4.014e-02   0.097  0.92256
## f.22000.0.0-8   4.267e-02  4.076e-02   1.047  0.29513
## f.22000.0.080   6.502e-02  4.110e-02   1.582  0.11369
## f.22000.0.081   4.322e-02  4.161e-02   1.039  0.29903
## f.22000.0.082   8.931e-03  4.111e-02   0.217  0.82801
## f.22000.0.083   1.230e-04  4.117e-02   0.003  0.99762
## f.22000.0.084   5.762e-02  4.116e-02   1.400  0.16158
## f.22000.0.085   6.752e-02  4.106e-02   1.644  0.10008
## f.22000.0.086  -1.154e-02  4.113e-02  -0.280  0.77913
## f.22000.0.087   4.058e-02  4.109e-02   0.988  0.32338
## f.22000.0.088   2.003e-02  4.187e-02   0.479  0.63229
## f.22000.0.089   2.146e-02  4.154e-02   0.517  0.60545
## f.22000.0.09   -1.386e-04  3.989e-02  -0.003  0.99723
## f.22000.0.0-9   7.498e-02  4.078e-02   1.839  0.06593 .
## f.22000.0.090   4.553e-02  4.112e-02   1.107  0.26822
## f.22000.0.091   2.837e-03  4.247e-02   0.067  0.94674
## f.22000.0.092   4.111e-02  4.121e-02   0.997  0.31856
## f.22000.0.093   4.131e-02  4.113e-02   1.004  0.31520
## f.22000.0.094   7.925e-04  5.258e-02   0.015  0.98797
## f.22000.0.095   1.530e-02  4.387e-02   0.349  0.72725
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9740894)
##
##     Null deviance: 119166  on 119166  degrees of freedom
## Residual deviance: 115955  on 119039  degrees of freedom
##   (700 observations deleted due to missingness)
## AIC: 335183
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.694873e-02     2.478368e-02     2.658863e-02     4.206280e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.694873e-02               NA               NA
##              AIC    Corrected.AIC
##     1.162106e+05     1.162109e+05
```

```
cat("\n")
```

```
## Contemplate self harm: f.20485.0.0 <-# contemplated self-harm


a = glm(contemplateselfharm ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.4 + f.22009.0.3 + f.22009
.0.5 + f.22009.0.6 +
           f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
           f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
           f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = contemplateselfharm ~ `0.750000` + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.4 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0,
##     data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.9308  -0.4916  -0.3512  -0.2048   2.8522
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.551e+01  7.387e-01 -48.067  < 2e-16 ***
## `0.750000`      3.103e-02  2.858e-03  10.859  < 2e-16 ***
## f.22009.0.1     6.395e-03  3.021e-03   2.117 0.034288 *
## f.22009.0.2    -1.360e-03  2.907e-03  -0.468 0.639967
## f.22009.0.4    -9.486e-03  4.174e-03  -2.273 0.023057 *
## f.22009.0.3     3.976e-04  2.983e-03   0.133 0.893975
## f.22009.0.5     9.705e-04  4.052e-03   0.239 0.810727
## f.22009.0.6    -1.949e-03  2.952e-03  -0.660 0.509129
## f.22009.0.7    -8.011e-03  3.023e-03  -2.650 0.008051 **
## f.22009.0.8     7.225e-03  3.189e-03   2.266 0.023467 *
## f.22009.0.9    -1.092e-02  3.044e-03  -3.587 0.000334 ***
## f.22009.0.10    5.883e-04  3.532e-03   0.167 0.867724
## f.22009.0.11    3.146e-03  4.108e-03   0.766 0.443835
## f.22009.0.12    3.472e-03  3.608e-03   0.962 0.335959
## f.22009.0.13   -2.783e-03  2.903e-03  -0.958 0.337837
## f.22009.0.14   -1.251e-02  3.069e-03  -4.075  4.6e-05 ***
## f.22009.0.15    5.754e-04  3.145e-03   0.183 0.854833
## f.22009.0.16   -1.083e-02  3.081e-03  -3.516 0.000438 ***
## f.22009.0.17   -1.198e-04  2.861e-03  -0.042 0.966590
## f.22009.0.18    1.033e-03  2.868e-03   0.360 0.718815
## f.22009.0.19    4.473e-03  2.857e-03   1.566 0.117380
## f.22009.0.20    4.246e-04  2.861e-03   0.148 0.882006
## f.22001.0.01   -1.345e-01  5.769e-03 -23.312  < 2e-16 ***
## f.34.0.0        1.823e-02  3.780e-04  48.221  < 2e-16 ***
## f.22000.0.0-1  -8.388e-03  4.034e-02  -0.208 0.835273
## f.22000.0.010  -5.620e-02  4.080e-02  -1.378 0.168325
## f.22000.0.0-10  6.320e-02  4.101e-02   1.541 0.123349
## f.22000.0.011   2.748e-02  4.012e-02   0.685 0.493401
## f.22000.0.0-11  2.411e-02  4.067e-02   0.593 0.553313
## f.22000.0.012  -1.532e-02  4.039e-02  -0.379 0.704388
## f.22000.0.013  -4.210e-02  4.024e-02  -1.046 0.295382
## f.22000.0.014  -2.205e-02  3.998e-02  -0.552 0.581277
## f.22000.0.015   2.385e-02  4.030e-02   0.592 0.554032
## f.22000.0.016  -6.900e-03  4.048e-02  -0.170 0.864650
## f.22000.0.017  -1.604e-02  4.013e-02  -0.400 0.689401
## f.22000.0.018  -3.650e-02  4.047e-02  -0.902 0.367108
## f.22000.0.019  -1.660e-02  3.977e-02  -0.417 0.676474
## f.22000.0.02   -4.663e-02  3.990e-02  -1.169 0.242554
## f.22000.0.0-2   4.037e-02  4.061e-02   0.994 0.320089
## f.22000.0.020  -4.491e-02  4.042e-02  -1.111 0.266565
## f.22000.0.021   9.968e-03  4.030e-02   0.247 0.804642
## f.22000.0.022   5.436e-03  4.028e-02   0.135 0.892629
## f.22000.0.023  -2.535e-02  4.028e-02  -0.629 0.529206
## f.22000.0.024  -7.061e-03  3.975e-02  -0.178 0.858996
## f.22000.0.025  -7.945e-03  4.077e-02  -0.195 0.845478
```

```
## f.22000.0.025  -7.945e-03  4.077e-02  -0.195 0.845478
## f.22000.0.026  -7.223e-02  4.048e-02  -1.784 0.074360 .
## f.22000.0.027  -2.602e-02  3.986e-02  -0.653 0.513854
## f.22000.0.028  -9.756e-03  4.027e-02  -0.242 0.808603
## f.22000.0.029  -6.381e-03  4.001e-02  -0.159 0.873287
## f.22000.0.03    2.267e-02  3.994e-02   0.568 0.570225
## f.22000.0.0-3  -3.122e-02  4.019e-02  -0.777 0.437229
## f.22000.0.030  -3.089e-02  3.999e-02  -0.772 0.439838
## f.22000.0.031  -5.453e-02  4.014e-02  -1.359 0.174278
## f.22000.0.032  -6.009e-02  4.034e-02  -1.490 0.136280
## f.22000.0.033  -3.307e-02  4.106e-02  -0.805 0.420672
## f.22000.0.034   2.391e-02  4.008e-02   0.597 0.550770
## f.22000.0.035   3.408e-02  4.015e-02   0.849 0.396007
## f.22000.0.036  -3.502e-02  3.993e-02  -0.877 0.380545
## f.22000.0.037  -1.315e-02  4.048e-02  -0.325 0.745270
## f.22000.0.038  -1.491e-02  4.029e-02  -0.370 0.711384
## f.22000.0.039  -1.332e-03  4.079e-02  -0.033 0.973940
## f.22000.0.04   -2.122e-02  4.063e-02  -0.522 0.601544
## f.22000.0.0-4   3.586e-03  4.089e-02   0.088 0.930112
## f.22000.0.040   3.837e-04  4.030e-02   0.010 0.992404
## f.22000.0.041  -2.329e-02  4.088e-02  -0.570 0.568948
## f.22000.0.042  -3.744e-02  4.016e-02  -0.932 0.351152
## f.22000.0.043  -8.567e-02  4.092e-02  -2.093 0.036322 *
## f.22000.0.044   5.869e-02  4.046e-02   1.451 0.146884
## f.22000.0.045  -5.973e-02  4.050e-02  -1.475 0.140276
## f.22000.0.046  -7.086e-02  4.072e-02  -1.740 0.081820 .
## f.22000.0.047  -4.519e-02  4.071e-02  -1.110 0.267014
## f.22000.0.048  -5.994e-03  4.068e-02  -0.147 0.882839
## f.22000.0.049   2.675e-02  4.070e-02   0.657 0.511112
## f.22000.0.05   -3.154e-02  3.998e-02  -0.789 0.430143
## f.22000.0.0-5   1.551e-02  4.043e-02   0.384 0.701324
## f.22000.0.050  -1.517e-02  4.072e-02  -0.372 0.709568
## f.22000.0.051   3.365e-02  4.012e-02   0.839 0.401615
## f.22000.0.052   2.456e-03  4.086e-02   0.060 0.952073
## f.22000.0.053  -3.053e-02  4.055e-02  -0.753 0.451569
## f.22000.0.054   5.675e-02  4.067e-02   1.395 0.162942
## f.22000.0.055   1.042e-02  4.101e-02   0.254 0.799523
## f.22000.0.056   2.447e-02  4.067e-02   0.602 0.547479
## f.22000.0.057   3.707e-02  4.084e-02   0.908 0.364042
## f.22000.0.058  -1.869e-02  4.065e-02  -0.460 0.645675
## f.22000.0.059  -3.008e-02  4.053e-02  -0.742 0.457965
## f.22000.0.06   -8.469e-04  3.985e-02  -0.021 0.983045
## f.22000.0.0-6   3.712e-02  4.075e-02   0.911 0.362301
## f.22000.0.060  -5.406e-02  4.086e-02  -1.323 0.185843
## f.22000.0.061  -9.885e-03  4.113e-02  -0.240 0.810067
## f.22000.0.062   2.556e-02  4.097e-02   0.624 0.532687
## f.22000.0.063  -1.543e-02  4.097e-02  -0.377 0.706535
## f.22000.0.064  -3.497e-02  4.069e-02  -0.859 0.390167
## f.22000.0.065  -6.391e-02  4.089e-02  -1.563 0.118025
## f.22000.0.066  -4.969e-02  4.129e-02  -1.203 0.228807
## f.22000.0.067  -5.166e-02  4.092e-02  -1.262 0.206805
## f.22000.0.068  -2.582e-02  4.078e-02  -0.633 0.526612
## f.22000.0.069   1.984e-03  4.092e-02   0.048 0.961335
## f.22000.0.07   -6.839e-02  4.015e-02  -1.703 0.088520 .
## f.22000.0.0-7   2.477e-02  4.052e-02   0.611 0.540918
## f.22000.0.070  -3.425e-02  4.095e-02  -0.836 0.402991
## f.22000.0.071  -9.552e-03  4.074e-02  -0.234 0.814623
## f.22000.0.072  -4.369e-02  4.099e-02  -1.066 0.286540
## f.22000.0.073  -4.915e-02  4.097e-02  -1.200 0.230325
## f.22000.0.074  -2.228e-02  4.113e-02  -0.542 0.588105
## f.22000.0.075   3.291e-02  4.073e-02   0.808 0.419071
## f.22000.0.076   6.571e-04  4.117e-02   0.016 0.987267
## f.22000.0.077   3.633e-03  4.096e-02   0.089 0.929322
## f.22000.0.078  -2.800e-02  4.067e-02  -0.688 0.491283
## f.22000.0.079   4.530e-03  4.063e-02   0.112 0.911214
## f.22000.0.08   -1.305e-02  4.011e-02  -0.325 0.744982
## f.22000.0.0-8   1.189e-02  4.071e-02   0.292 0.770210
## f.22000.0.080  -2.108e-03  4.105e-02  -0.051 0.959040
## f.22000.0.081  -2.921e-02  4.155e-02  -0.703 0.482122
## f.22000.0.082  -6.214e-02  4.102e-02  -1.515 0.129840
## f.22000.0.083  -2.192e-03  4.113e-02  -0.053 0.957506
## f.22000.0.084  -6.907e-03  4.115e-02  -0.168 0.866715
## f.22000.0.085  -2.701e-02  4.100e-02  -0.659 0.509986
```

```
## f.22000.0.086  -1.703e-02  4.108e-02  -0.415 0.678468
## f.22000.0.087   3.044e-02  4.106e-02   0.741 0.458514
## f.22000.0.088  -7.092e-03  4.179e-02  -0.170 0.865250
## f.22000.0.089  -2.398e-02  4.148e-02  -0.578 0.563202
## f.22000.0.09   -2.412e-02  3.987e-02  -0.605 0.545211
## f.22000.0.0-9   5.028e-02  4.074e-02   1.234 0.217091
## f.22000.0.090  -1.734e-02  4.109e-02  -0.422 0.673062
## f.22000.0.091  -5.207e-02  4.247e-02  -1.226 0.220160
## f.22000.0.092  -3.397e-02  4.117e-02  -0.825 0.409390
## f.22000.0.093  -2.863e-02  4.109e-02  -0.697 0.486026
## f.22000.0.094   2.133e-02  5.252e-02   0.406 0.684575
## f.22000.0.095  -4.596e-02  4.384e-02  -1.048 0.294443
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9731929)
##
##     Null deviance: 119450  on 119450  degrees of freedom
## Residual deviance: 116123  on 119322  degrees of freedom
##   (416 observations deleted due to missingness)
## AIC: 335872
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.784990e-02     2.567326e-02     2.746544e-02     4.344990e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.784990e-02     8.561251e-01    -1.745912e-04
##              AIC    Corrected.AIC
##     1.163813e+05     1.163816e+05
```

```
b = glm( contemplateselfharm ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22
009.0.6 +
           f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
           f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
           f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(b)
```

```
##
## Call:
## glm(formula = contemplateselfharm ~ f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.9175  -0.4901  -0.3518  -0.2082   2.8337
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.552e+01  7.390e-01 -48.059  < 2e-16 ***
## f.22009.0.1     6.657e-03  3.023e-03   2.203 0.027630 *
## f.22009.0.2    -1.437e-03  2.909e-03  -0.494 0.621173
## f.22009.0.3     2.906e-04  2.985e-03   0.097 0.922435
## f.22009.0.4    -9.434e-03  4.176e-03  -2.259 0.023885 *
## f.22009.0.5     1.797e-03  4.054e-03   0.443 0.657534
## f.22009.0.6    -1.819e-03  2.954e-03  -0.616 0.538129
## f.22009.0.7    -8.334e-03  3.025e-03  -2.755 0.005864 **
## f.22009.0.8     7.168e-03  3.190e-03   2.247 0.024651 *
## f.22009.0.9    -1.091e-02  3.046e-03  -3.582 0.000341 ***
## f.22009.0.10    4.683e-04  3.534e-03   0.133 0.894583
## f.22009.0.11    3.623e-03  4.110e-03   0.881 0.378090
## f.22009.0.12    3.552e-03  3.610e-03   0.984 0.325125
## f.22009.0.13   -2.746e-03  2.905e-03  -0.945 0.344408
```

```
## f.22009.0.14   -1.293e-02  3.070e-03  -4.213 2.52e-05 ***
## f.22009.0.15    5.772e-04  3.147e-03   0.183 0.854462
## f.22009.0.16   -1.082e-02  3.082e-03  -3.511 0.000447 ***
## f.22009.0.17   -2.211e-04  2.862e-03  -0.077 0.938425
## f.22009.0.18    9.696e-04  2.869e-03   0.338 0.735409
## f.22009.0.19    4.633e-03  2.858e-03   1.621 0.104970
## f.22009.0.20    7.135e-04  2.862e-03   0.249 0.803114
## f.22001.0.01   -1.351e-01  5.771e-03 -23.415  < 2e-16 ***
## f.34.0.0        1.823e-02  3.782e-04  48.215  < 2e-16 ***
## f.22000.0.0-1  -8.333e-03  4.036e-02  -0.206 0.836422
## f.22000.0.010  -5.616e-02  4.082e-02  -1.376 0.168860
## f.22000.0.0-10  6.202e-02  4.103e-02   1.512 0.130660
## f.22000.0.011   2.762e-02  4.014e-02   0.688 0.491314
## f.22000.0.0-11  2.440e-02  4.069e-02   0.600 0.548813
## f.22000.0.012  -1.555e-02  4.041e-02  -0.385 0.700404
## f.22000.0.013  -4.341e-02  4.026e-02  -1.078 0.280847
## f.22000.0.014  -2.277e-02  4.000e-02  -0.569 0.569200
## f.22000.0.015   2.394e-02  4.032e-02   0.594 0.552642
## f.22000.0.016  -7.465e-03  4.050e-02  -0.184 0.853758
## f.22000.0.017  -1.529e-02  4.014e-02  -0.381 0.703269
## f.22000.0.018  -3.629e-02  4.049e-02  -0.896 0.370126
## f.22000.0.019  -1.817e-02  3.979e-02  -0.457 0.648015
## f.22000.0.02   -4.591e-02  3.992e-02  -1.150 0.250078
## f.22000.0.0-2   4.058e-02  4.063e-02   0.999 0.317839
## f.22000.0.020  -4.556e-02  4.044e-02  -1.127 0.259936
## f.22000.0.021   1.002e-02  4.032e-02   0.248 0.803798
## f.22000.0.022   5.388e-03  4.029e-02   0.134 0.893628
## f.22000.0.023  -2.564e-02  4.030e-02  -0.636 0.524672
## f.22000.0.024  -7.752e-03  3.977e-02  -0.195 0.845432
## f.22000.0.025  -7.857e-03  4.079e-02  -0.193 0.847244
## f.22000.0.026  -7.385e-02  4.050e-02  -1.824 0.068216 .
## f.22000.0.027  -2.597e-02  3.988e-02  -0.651 0.514893
## f.22000.0.028  -1.049e-02  4.029e-02  -0.260 0.794678
## f.22000.0.029  -5.984e-03  4.003e-02  -0.150 0.881155
## f.22000.0.03    2.200e-02  3.996e-02   0.550 0.581984
## f.22000.0.0-3  -3.064e-02  4.021e-02  -0.762 0.446023
## f.22000.0.030  -3.031e-02  4.001e-02  -0.758 0.448680
## f.22000.0.031  -5.346e-02  4.016e-02  -1.331 0.183051
## f.22000.0.032  -5.980e-02  4.036e-02  -1.482 0.138391
## f.22000.0.033  -3.266e-02  4.108e-02  -0.795 0.426562
## f.22000.0.034   2.390e-02  4.010e-02   0.596 0.551198
## f.22000.0.035   3.343e-02  4.017e-02   0.832 0.405280
## f.22000.0.036  -3.483e-02  3.995e-02  -0.872 0.383363
## f.22000.0.037  -1.395e-02  4.050e-02  -0.344 0.730512
## f.22000.0.038  -1.568e-02  4.031e-02  -0.389 0.697342
## f.22000.0.039  -3.385e-04  4.081e-02  -0.008 0.993381
## f.22000.0.04   -2.127e-02  4.065e-02  -0.523 0.600716
## f.22000.0.0-4   4.031e-03  4.091e-02   0.099 0.921492
## f.22000.0.040  -3.484e-04  4.032e-02  -0.009 0.993106
## f.22000.0.041  -2.434e-02  4.090e-02  -0.595 0.551730
## f.22000.0.042  -3.699e-02  4.018e-02  -0.921 0.357272
## f.22000.0.043  -8.583e-02  4.094e-02  -2.096 0.036069 *
## f.22000.0.044   5.770e-02  4.048e-02   1.425 0.154076
## f.22000.0.045  -5.822e-02  4.052e-02  -1.437 0.150782
## f.22000.0.046  -6.874e-02  4.074e-02  -1.687 0.091566 .
## f.22000.0.047  -4.665e-02  4.073e-02  -1.145 0.252052
## f.22000.0.048  -7.733e-03  4.070e-02  -0.190 0.849284
## f.22000.0.049   2.558e-02  4.072e-02   0.628 0.529860
## f.22000.0.05   -3.271e-02  4.000e-02  -0.818 0.413553
## f.22000.0.0-5   1.345e-02  4.045e-02   0.332 0.739620
## f.22000.0.050  -1.636e-02  4.074e-02  -0.402 0.688041
## f.22000.0.051   3.282e-02  4.014e-02   0.818 0.413525
## f.22000.0.052   1.163e-03  4.088e-02   0.028 0.977305
## f.22000.0.053  -3.066e-02  4.057e-02  -0.756 0.449875
## f.22000.0.054   5.707e-02  4.069e-02   1.402 0.160794
## f.22000.0.055   1.135e-02  4.103e-02   0.277 0.782054
## f.22000.0.056   2.307e-02  4.069e-02   0.567 0.570816
## f.22000.0.057   3.720e-02  4.086e-02   0.910 0.362567
## f.22000.0.058  -1.912e-02  4.067e-02  -0.470 0.638305
## f.22000.0.059  -2.987e-02  4.055e-02  -0.737 0.461346
## f.22000.0.06   -5.442e-04  3.987e-02  -0.014 0.989109
## f.22000.0.0-6   3.799e-02  4.077e-02   0.932 0.351434
## f.22000.0.060  -5.501e-02  4.088e-02  -1.346 0.178455
```

```
## f.22000.0.061  -9.719e-03  4.115e-02  -0.236 0.813294
## f.22000.0.062   2.672e-02  4.099e-02   0.652 0.514582
## f.22000.0.063  -1.568e-02  4.099e-02  -0.383 0.702042
## f.22000.0.064  -3.556e-02  4.071e-02  -0.873 0.382453
## f.22000.0.065  -6.462e-02  4.091e-02  -1.580 0.114168
## f.22000.0.066  -5.100e-02  4.131e-02  -1.235 0.216973
## f.22000.0.067  -5.231e-02  4.094e-02  -1.278 0.201325
## f.22000.0.068  -2.606e-02  4.080e-02  -0.639 0.523016
## f.22000.0.069   1.078e-03  4.094e-02   0.026 0.978994
## f.22000.0.07   -6.904e-02  4.017e-02  -1.719 0.085689 .
## f.22000.0.0-7   2.324e-02  4.054e-02   0.573 0.566473
## f.22000.0.070  -3.362e-02  4.097e-02  -0.821 0.411884
## f.22000.0.071  -8.174e-03  4.076e-02  -0.201 0.841051
## f.22000.0.072  -4.223e-02  4.101e-02  -1.030 0.303135
## f.22000.0.073  -5.041e-02  4.099e-02  -1.230 0.218788
## f.22000.0.074  -2.244e-02  4.115e-02  -0.545 0.585497
## f.22000.0.075   3.374e-02  4.075e-02   0.828 0.407634
## f.22000.0.076   1.943e-03  4.119e-02   0.047 0.962371
## f.22000.0.077   2.452e-03  4.098e-02   0.060 0.952282
## f.22000.0.078  -2.990e-02  4.069e-02  -0.735 0.462509
## f.22000.0.079   6.132e-03  4.065e-02   0.151 0.880088
## f.22000.0.08   -1.151e-02  4.013e-02  -0.287 0.774245
## f.22000.0.0-8   1.106e-02  4.073e-02   0.271 0.786019
## f.22000.0.080  -2.536e-03  4.107e-02  -0.062 0.950773
## f.22000.0.081  -2.934e-02  4.157e-02  -0.706 0.480354
## f.22000.0.082  -6.078e-02  4.104e-02  -1.481 0.138597
## f.22000.0.083  -2.750e-03  4.115e-02  -0.067 0.946723
## f.22000.0.084  -5.360e-03  4.117e-02  -0.130 0.896429
## f.22000.0.085  -2.520e-02  4.102e-02  -0.614 0.538942
## f.22000.0.086  -1.724e-02  4.110e-02  -0.420 0.674831
## f.22000.0.087   3.079e-02  4.108e-02   0.750 0.453519
## f.22000.0.088  -7.120e-03  4.181e-02  -0.170 0.864794
## f.22000.0.089  -2.275e-02  4.150e-02  -0.548 0.583557
## f.22000.0.09   -2.470e-02  3.989e-02  -0.619 0.535754
## f.22000.0.0-9   4.933e-02  4.076e-02   1.210 0.226160
## f.22000.0.090  -1.756e-02  4.111e-02  -0.427 0.669216
## f.22000.0.091  -5.312e-02  4.249e-02  -1.250 0.211149
## f.22000.0.092  -3.254e-02  4.119e-02  -0.790 0.429508
## f.22000.0.093  -2.823e-02  4.111e-02  -0.687 0.492310
## f.22000.0.094   1.958e-02  5.254e-02   0.373 0.709365
## f.22000.0.095  -4.574e-02  4.386e-02  -1.043 0.297030
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9741466)
##
##     Null deviance: 119450  on 119450  degrees of freedom
## Residual deviance: 116238  on 119323  degrees of freedom
##   (416 observations deleted due to missingness)
## AIC: 335988
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.688917e-02     2.472927e-02     2.653065e-02     4.197108e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.688917e-02     8.561418e-01    -5.819706e-05
##              AIC    Corrected.AIC
##     1.164941e+05     1.164944e+05
```

```
cat("\n")
```

```
## Attempt self-harm: f.20480.0.0 <-# attemptselfharm

a = glm(f.20480.0.0 ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 +f.22009.0.5 + f
.22009.0.6 +
          f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
          f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
          f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = f.20480.0.0 ~ `0.750000` + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.5945  -0.2845  -0.1927  -0.1064   5.0881
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.408e+01  7.436e-01 -32.379  < 2e-16 ***
## `0.750000`      2.626e-02  2.876e-03   9.128  < 2e-16 ***
## f.22009.0.1     5.835e-03  3.041e-03   1.919 0.055037 .
## f.22009.0.2    -5.667e-03  2.927e-03  -1.936 0.052875 .
## f.22009.0.3    -4.114e-03  3.003e-03  -1.370 0.170686
## f.22009.0.4    -2.520e-03  4.202e-03  -0.600 0.548741
## f.22009.0.5    -3.635e-04  4.079e-03  -0.089 0.928981
## f.22009.0.6     5.563e-04  2.972e-03   0.187 0.851534
## f.22009.0.7    -5.176e-03  3.044e-03  -1.701 0.089039 .
## f.22009.0.8     2.289e-03  3.210e-03   0.713 0.475756
## f.22009.0.9    -1.105e-02  3.065e-03  -3.604 0.000313 ***
## f.22009.0.10    2.275e-03  3.555e-03   0.640 0.522145
## f.22009.0.11   -4.345e-03  4.135e-03  -1.051 0.293393
## f.22009.0.12   -2.314e-03  3.632e-03  -0.637 0.524146
## f.22009.0.13    4.765e-04  2.923e-03   0.163 0.870488
## f.22009.0.14   -5.194e-03  3.089e-03  -1.681 0.092685 .
## f.22009.0.15   -1.526e-03  3.166e-03  -0.482 0.629898
## f.22009.0.16   -7.287e-03  3.101e-03  -2.350 0.018771 *
## f.22009.0.17    3.366e-03  2.880e-03   1.169 0.242430
## f.22009.0.18   -7.941e-05  2.887e-03  -0.028 0.978058
## f.22009.0.19    9.407e-04  2.876e-03   0.327 0.743566
## f.22009.0.20   -8.516e-04  2.880e-03  -0.296 0.767453
## f.22001.0.01   -9.573e-02  5.807e-03 -16.486  < 2e-16 ***
## f.34.0.0        1.236e-02  3.806e-04  32.473  < 2e-16 ***
## f.22000.0.0-1   7.976e-02  4.055e-02   1.967 0.049207 *
## f.22000.0.010  -3.953e-02  4.102e-02  -0.964 0.335223
## f.22000.0.0-10  6.336e-02  4.123e-02   1.537 0.124372
## f.22000.0.011   6.399e-02  4.035e-02   1.586 0.112830
## f.22000.0.0-11  3.104e-02  4.092e-02   0.758 0.448184
## f.22000.0.012  -4.344e-02  4.067e-02  -1.068 0.285458
## f.22000.0.013  -1.018e-02  4.048e-02  -0.252 0.801375
## f.22000.0.014  -3.357e-02  4.023e-02  -0.834 0.404065
## f.22000.0.015   2.124e-02  4.051e-02   0.524 0.599935
## f.22000.0.016   1.480e-02  4.068e-02   0.364 0.715986
## f.22000.0.017  -3.678e-05  4.034e-02  -0.001 0.999272
## f.22000.0.018   2.053e-02  4.069e-02   0.505 0.613826
## f.22000.0.019  -1.881e-02  3.994e-02  -0.471 0.637613
## f.22000.0.02   -2.606e-02  4.013e-02  -0.649 0.516126
## f.22000.0.0-2   5.440e-02  4.084e-02   1.332 0.182904
## f.22000.0.020  -6.135e-03  4.064e-02  -0.151 0.879999
## f.22000.0.021   3.805e-02  4.054e-02   0.938 0.347995
## f.22000.0.022  -2.416e-03  4.049e-02  -0.060 0.952413
## f.22000.0.023   5.493e-03  4.054e-02   0.135 0.892228
## f.22000.0.024   2.172e-02  3.994e-02   0.544 0.586622
## f.22000.0.025  -9.493e-03  4.099e-02  -0.232 0.816868
## f.22000.0.026  -4.048e-02  4.073e-02  -0.994 0.320358
## f.22000.0.027  -3.889e-02  4.006e-02  -0.971 0.331729
```

```
## f.22000.0.027  -3.889e-02  4.006e-02  -0.971 0.331729
## f.22000.0.028   6.321e-03  4.048e-02   0.156 0.875903
## f.22000.0.029   1.044e-02  4.023e-02   0.260 0.795145
## f.22000.0.03   -1.710e-03  4.017e-02  -0.043 0.966044
## f.22000.0.0-3   5.521e-02  4.044e-02   1.365 0.172213
## f.22000.0.030  -3.689e-02  4.021e-02  -0.918 0.358875
## f.22000.0.031  -5.126e-02  4.037e-02  -1.270 0.204173
## f.22000.0.032  -5.146e-02  4.054e-02  -1.269 0.204366
## f.22000.0.033   9.626e-03  4.127e-02   0.233 0.815571
## f.22000.0.034   3.105e-02  4.029e-02   0.771 0.440918
## f.22000.0.035  -8.874e-03  4.042e-02  -0.220 0.826208
## f.22000.0.036  -3.749e-02  4.012e-02  -0.934 0.350092
## f.22000.0.037   8.501e-04  4.072e-02   0.021 0.983346
## f.22000.0.038   3.053e-03  4.053e-02   0.075 0.939966
## f.22000.0.039  -1.461e-02  4.100e-02  -0.356 0.721689
## f.22000.0.04   -3.749e-02  4.086e-02  -0.918 0.358838
## f.22000.0.0-4   1.861e-02  4.109e-02   0.453 0.650684
## f.22000.0.040  -6.593e-02  4.051e-02  -1.627 0.103650
## f.22000.0.041  -1.087e-02  4.111e-02  -0.264 0.791542
## f.22000.0.042  -6.549e-02  4.041e-02  -1.621 0.105060
## f.22000.0.043  -1.827e-02  4.112e-02  -0.444 0.656803
## f.22000.0.044   4.931e-02  4.068e-02   1.212 0.225501
## f.22000.0.045   7.081e-03  4.072e-02   0.174 0.861949
## f.22000.0.046   2.822e-03  4.094e-02   0.069 0.945051
## f.22000.0.047  -3.109e-02  4.097e-02  -0.759 0.447820
## f.22000.0.048  -8.315e-03  4.087e-02  -0.203 0.838796
## f.22000.0.049   9.785e-04  4.090e-02   0.024 0.980913
## f.22000.0.05   -2.492e-02  4.021e-02  -0.620 0.535397
## f.22000.0.0-5   9.161e-02  4.067e-02   2.253 0.024273 *
## f.22000.0.050   1.700e-02  4.096e-02   0.415 0.678167
## f.22000.0.051   8.769e-03  4.036e-02   0.217 0.827983
## f.22000.0.052  -4.258e-02  4.108e-02  -1.037 0.299942
## f.22000.0.053   1.288e-02  4.082e-02   0.316 0.752320
## f.22000.0.054   4.088e-02  4.089e-02   1.000 0.317398
## f.22000.0.055   9.928e-03  4.123e-02   0.241 0.809721
## f.22000.0.056  -1.045e-03  4.087e-02  -0.026 0.979596
## f.22000.0.057   4.613e-02  4.106e-02   1.123 0.261247
## f.22000.0.058  -1.641e-02  4.088e-02  -0.401 0.688086
## f.22000.0.059  -4.863e-02  4.076e-02  -1.193 0.232783
## f.22000.0.06   -9.911e-03  4.008e-02  -0.247 0.804683
## f.22000.0.0-6   7.028e-02  4.098e-02   1.715 0.086300 .
## f.22000.0.060  -1.523e-02  4.113e-02  -0.370 0.711227
## f.22000.0.061  -3.536e-02  4.135e-02  -0.855 0.392429
## f.22000.0.062   1.741e-02  4.122e-02   0.422 0.672690
## f.22000.0.063   1.464e-02  4.122e-02   0.355 0.722369
## f.22000.0.064  -6.772e-04  4.088e-02  -0.017 0.986782
## f.22000.0.065  -6.783e-03  4.111e-02  -0.165 0.868948
## f.22000.0.066  -2.866e-02  4.153e-02  -0.690 0.490085
## f.22000.0.067  -4.621e-02  4.109e-02  -1.125 0.260722
## f.22000.0.068  -1.387e-02  4.102e-02  -0.338 0.735229
## f.22000.0.069  -5.029e-03  4.113e-02  -0.122 0.902681
## f.22000.0.07   -9.868e-03  4.037e-02  -0.244 0.806879
## f.22000.0.0-7   6.193e-02  4.074e-02   1.520 0.128493
## f.22000.0.070  -6.480e-03  4.117e-02  -0.157 0.874926
## f.22000.0.071   3.274e-03  4.093e-02   0.080 0.936237
## f.22000.0.072   3.277e-03  4.121e-02   0.080 0.936613
## f.22000.0.073  -1.789e-03  4.119e-02  -0.043 0.965361
## f.22000.0.074   4.556e-02  4.137e-02   1.101 0.270793
## f.22000.0.075   3.269e-03  4.095e-02   0.080 0.936362
## f.22000.0.076  -2.610e-02  4.141e-02  -0.630 0.528476
## f.22000.0.077   1.887e-02  4.118e-02   0.458 0.646707
## f.22000.0.078  -4.270e-02  4.091e-02  -1.044 0.296566
## f.22000.0.079  -5.476e-03  4.088e-02  -0.134 0.893443
## f.22000.0.08    1.002e-02  4.033e-02   0.249 0.803698
## f.22000.0.0-8   1.164e-02  4.096e-02   0.284 0.776290
## f.22000.0.080   4.536e-02  4.129e-02   1.099 0.271964
## f.22000.0.081  -9.780e-03  4.176e-02  -0.234 0.814838
## f.22000.0.082  -6.048e-02  4.123e-02  -1.467 0.142382
## f.22000.0.083   3.753e-03  4.137e-02   0.091 0.927721
## f.22000.0.084   6.951e-03  4.137e-02   0.168 0.866568
## f.22000.0.085   3.421e-02  4.124e-02   0.829 0.406825
## f.22000.0.086  -2.758e-02  4.132e-02  -0.667 0.504528
## f.22000.0.087   4.714e-02  4.130e-02   1.141 0.253733
```

```
## f.22000.0.088   4.114e-03  4.202e-02   0.098 0.922007
## f.22000.0.089   2.276e-02  4.171e-02   0.546 0.585209
## f.22000.0.09    1.402e-02  4.009e-02   0.350 0.726563
## f.22000.0.0-9   5.849e-02  4.095e-02   1.428 0.153189
## f.22000.0.090  -1.932e-02  4.128e-02  -0.468 0.639822
## f.22000.0.091   1.311e-03  4.270e-02   0.031 0.975501
## f.22000.0.092   3.922e-02  4.141e-02   0.947 0.343664
## f.22000.0.093  -9.905e-03  4.132e-02  -0.240 0.810567
## f.22000.0.094   1.733e-02  5.285e-02   0.328 0.742999
## f.22000.0.095  -4.664e-02  4.407e-02  -1.058 0.289898
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9871416)
##
##     Null deviance: 119564  on 119564  degrees of freedom
## Residual deviance: 117900  on 119436  degrees of freedom
##   (302 observations deleted due to missingness)
## AIC: 337894
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     1.391524e-02     1.174067e-02     1.381875e-02     2.186105e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     1.391524e-02               NA               NA
##              AIC    Corrected.AIC
##     1.181582e+05     1.181585e+05
```

```
b = glm(f.20480.0.0 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
          f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
          f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
          f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(b)
```

```
##
## Call:
## glm(formula = f.20480.0.0 ~ f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.5876  -0.2828  -0.1928  -0.1084   5.0723
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.409e+01  7.439e-01 -32.382  < 2e-16 ***
## f.22009.0.1     6.056e-03  3.042e-03   1.991 0.046525 *
## f.22009.0.2    -5.737e-03  2.928e-03  -1.959 0.050074 .
## f.22009.0.3    -4.209e-03  3.004e-03  -1.401 0.161115
## f.22009.0.4    -2.471e-03  4.203e-03  -0.588 0.556570
## f.22009.0.5     3.321e-04  4.080e-03   0.081 0.935123
## f.22009.0.6     6.659e-04  2.973e-03   0.224 0.822808
## f.22009.0.7    -5.453e-03  3.045e-03  -1.791 0.073316 .
## f.22009.0.8     2.234e-03  3.211e-03   0.696 0.486666
## f.22009.0.9    -1.104e-02  3.066e-03  -3.599 0.000319 ***
## f.22009.0.10    2.166e-03  3.556e-03   0.609 0.542412
## f.22009.0.11   -3.939e-03  4.136e-03  -0.952 0.340955
## f.22009.0.12   -2.245e-03  3.634e-03  -0.618 0.536639
## f.22009.0.13    5.167e-04  2.924e-03   0.177 0.859719
## f.22009.0.14   -5.558e-03  3.090e-03  -1.799 0.072058 .
## f.22009.0.15   -1.527e-03  3.167e-03  -0.482 0.629774
## f.22009.0.16   -7.270e-03  3.102e-03  -2.344 0.019091 *
```

```
## f.22009.0.17    3.275e-03  2.881e-03   1.137 0.255644
## f.22009.0.18   -1.325e-04  2.888e-03  -0.046 0.963397
## f.22009.0.19    1.079e-03  2.877e-03   0.375 0.707672
## f.22009.0.20   -6.074e-04  2.881e-03  -0.211 0.832998
## f.22001.0.01   -9.628e-02  5.808e-03 -16.576  < 2e-16 ***
## f.34.0.0        1.236e-02  3.807e-04  32.476  < 2e-16 ***
## f.22000.0.0-1   7.975e-02  4.057e-02   1.966 0.049296 *
## f.22000.0.010  -3.951e-02  4.104e-02  -0.963 0.335616
## f.22000.0.0-10  6.233e-02  4.125e-02   1.511 0.130753
## f.22000.0.011   6.406e-02  4.037e-02   1.587 0.112516
## f.22000.0.0-11  3.129e-02  4.093e-02   0.764 0.444653
## f.22000.0.012  -4.374e-02  4.068e-02  -1.075 0.282281
## f.22000.0.013  -1.132e-02  4.049e-02  -0.280 0.779718
## f.22000.0.014  -3.434e-02  4.024e-02  -0.853 0.393476
## f.22000.0.015   2.128e-02  4.052e-02   0.525 0.599461
## f.22000.0.016   1.432e-02  4.070e-02   0.352 0.724893
## f.22000.0.017   4.701e-04  4.035e-02   0.012 0.990704
## f.22000.0.018   2.070e-02  4.070e-02   0.508 0.611116
## f.22000.0.019  -2.010e-02  3.995e-02  -0.503 0.614998
## f.22000.0.02   -2.547e-02  4.014e-02  -0.634 0.525781
## f.22000.0.0-2   5.458e-02  4.086e-02   1.336 0.181571
## f.22000.0.020  -6.718e-03  4.065e-02  -0.165 0.868746
## f.22000.0.021   3.803e-02  4.055e-02   0.938 0.348409
## f.22000.0.022  -2.544e-03  4.050e-02  -0.063 0.949924
## f.22000.0.023   5.247e-03  4.055e-02   0.129 0.897056
## f.22000.0.024   2.118e-02  3.995e-02   0.530 0.595968
## f.22000.0.025  -9.333e-03  4.101e-02  -0.228 0.819962
## f.22000.0.026  -4.184e-02  4.075e-02  -1.027 0.304480
## f.22000.0.027  -3.888e-02  4.008e-02  -0.970 0.331963
## f.22000.0.028   5.586e-03  4.049e-02   0.138 0.890285
## f.22000.0.029   1.083e-02  4.024e-02   0.269 0.787934
## f.22000.0.03   -2.310e-03  4.018e-02  -0.057 0.954153
## f.22000.0.0-3   5.564e-02  4.046e-02   1.375 0.169080
## f.22000.0.030  -3.633e-02  4.023e-02  -0.903 0.366409
## f.22000.0.031  -5.040e-02  4.038e-02  -1.248 0.212013
## f.22000.0.032  -5.125e-02  4.055e-02  -1.264 0.206312
## f.22000.0.033   9.998e-03  4.128e-02   0.242 0.808644
## f.22000.0.034   3.098e-02  4.031e-02   0.769 0.442122
## f.22000.0.035  -9.379e-03  4.043e-02  -0.232 0.816547
## f.22000.0.036  -3.726e-02  4.013e-02  -0.928 0.353190
## f.22000.0.037   1.444e-04  4.074e-02   0.004 0.997172
## f.22000.0.038   2.381e-03  4.055e-02   0.059 0.953170
## f.22000.0.039  -1.371e-02  4.102e-02  -0.334 0.738098
## f.22000.0.04   -3.758e-02  4.088e-02  -0.919 0.357947
## f.22000.0.0-4   1.887e-02  4.111e-02   0.459 0.646237
## f.22000.0.040  -6.654e-02  4.053e-02  -1.642 0.100642
## f.22000.0.041  -1.172e-02  4.112e-02  -0.285 0.775745
## f.22000.0.042  -6.512e-02  4.042e-02  -1.611 0.107181
## f.22000.0.043  -1.843e-02  4.114e-02  -0.448 0.654190
## f.22000.0.044   4.838e-02  4.070e-02   1.189 0.234563
## f.22000.0.045   8.380e-03  4.074e-02   0.206 0.837022
## f.22000.0.046   4.572e-03  4.095e-02   0.112 0.911098
## f.22000.0.047  -3.239e-02  4.098e-02  -0.790 0.429359
## f.22000.0.048  -9.774e-03  4.089e-02  -0.239 0.811059
## f.22000.0.049  -1.001e-05  4.091e-02   0.000 0.999805
## f.22000.0.05   -2.595e-02  4.022e-02  -0.645 0.518787
## f.22000.0.0-5   8.988e-02  4.068e-02   2.209 0.027143 *
## f.22000.0.050   1.597e-02  4.097e-02   0.390 0.696695
## f.22000.0.051   8.027e-03  4.037e-02   0.199 0.842390
## f.22000.0.052  -4.365e-02  4.110e-02  -1.062 0.288156
## f.22000.0.053   1.270e-02  4.084e-02   0.311 0.755723
## f.22000.0.054   4.113e-02  4.090e-02   1.005 0.314680
## f.22000.0.055   1.082e-02  4.124e-02   0.262 0.793076
## f.22000.0.056  -2.299e-03  4.088e-02  -0.056 0.955161
## f.22000.0.057   4.630e-02  4.108e-02   1.127 0.259692
## f.22000.0.058  -1.675e-02  4.089e-02  -0.410 0.682085
## f.22000.0.059  -4.854e-02  4.077e-02  -1.190 0.233858
## f.22000.0.06   -9.661e-03  4.009e-02  -0.241 0.809568
## f.22000.0.0-6   7.099e-02  4.099e-02   1.732 0.083282 .
## f.22000.0.060  -1.605e-02  4.114e-02  -0.390 0.696514
## f.22000.0.061  -3.519e-02  4.136e-02  -0.851 0.394947
## f.22000.0.062   1.837e-02  4.123e-02   0.446 0.655955
## f.22000.0.063   1.440e-02  4.123e-02   0.349 0.726982
```

```
## f.22000.0.064  -1.096e-03  4.089e-02  -0.027 0.978610
## f.22000.0.065  -7.406e-03  4.113e-02  -0.180 0.857094
## f.22000.0.066  -2.976e-02  4.154e-02  -0.716 0.473746
## f.22000.0.067  -4.670e-02  4.110e-02  -1.136 0.255862
## f.22000.0.068  -1.411e-02  4.104e-02  -0.344 0.731025
## f.22000.0.069  -5.871e-03  4.114e-02  -0.143 0.886538
## f.22000.0.07   -1.045e-02  4.038e-02  -0.259 0.795756
## f.22000.0.0-7   6.059e-02  4.076e-02   1.487 0.137127
## f.22000.0.070  -5.961e-03  4.118e-02  -0.145 0.884919
## f.22000.0.071   4.257e-03  4.094e-02   0.104 0.917184
## f.22000.0.072   4.500e-03  4.122e-02   0.109 0.913078
## f.22000.0.073  -2.843e-03  4.121e-02  -0.069 0.944986
## f.22000.0.074   4.535e-02  4.138e-02   1.096 0.273202
## f.22000.0.075   4.016e-03  4.096e-02   0.098 0.921899
## f.22000.0.076  -2.501e-02  4.143e-02  -0.604 0.546073
## f.22000.0.077   1.792e-02  4.119e-02   0.435 0.663564
## f.22000.0.078  -4.436e-02  4.092e-02  -1.084 0.278349
## f.22000.0.079  -4.143e-03  4.089e-02  -0.101 0.919298
## f.22000.0.08    1.131e-02  4.034e-02   0.280 0.779207
## f.22000.0.0-8   1.090e-02  4.097e-02   0.266 0.790245
## f.22000.0.080   4.505e-02  4.130e-02   1.091 0.275411
## f.22000.0.081  -9.834e-03  4.177e-02  -0.235 0.813883
## f.22000.0.082  -5.936e-02  4.124e-02  -1.439 0.150077
## f.22000.0.083   3.253e-03  4.139e-02   0.079 0.937353
## f.22000.0.084   8.188e-03  4.139e-02   0.198 0.843169
## f.22000.0.085   3.570e-02  4.125e-02   0.865 0.386821
## f.22000.0.086  -2.779e-02  4.133e-02  -0.672 0.501406
## f.22000.0.087   4.746e-02  4.131e-02   1.149 0.250605
## f.22000.0.088   4.155e-03  4.203e-02   0.099 0.921242
## f.22000.0.089   2.382e-02  4.172e-02   0.571 0.568048
## f.22000.0.09    1.351e-02  4.011e-02   0.337 0.736236
## f.22000.0.0-9   5.766e-02  4.096e-02   1.408 0.159210
## f.22000.0.090  -1.962e-02  4.130e-02  -0.475 0.634718
## f.22000.0.091   4.042e-04  4.272e-02   0.009 0.992450
## f.22000.0.092   4.042e-02  4.143e-02   0.976 0.329244
## f.22000.0.093  -9.581e-03  4.134e-02  -0.232 0.816707
## f.22000.0.094   1.583e-02  5.287e-02   0.300 0.764541
## f.22000.0.095  -4.644e-02  4.409e-02  -1.053 0.292132
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9878219)
##
##     Null deviance: 119564  on 119564  degrees of freedom
## Residual deviance: 117982  on 119437  degrees of freedom
##   (302 observations deleted due to missingness)
## AIC: 337976
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     1.322734e-02     1.106950e-02     1.314013e-02     2.078749e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     1.322734e-02               NA               NA
##              AIC    Corrected.AIC
##     1.182385e+05     1.182388e+05
```

```
cat("\n")
```

```
## recent self-harm: recentsuicideselfharm2
a = glm(recentsuicideselfharm2 ~  `0.750000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.4 + f.2
2009.0.5 + f.22009.0.6 +
          f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
          f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
          f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = recentsuicideselfharm2 ~ `0.750000` + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0,
##     data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.5150  -0.2569  -0.1946  -0.1411   5.0280
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.760e+01  7.484e-01 -23.521  < 2e-16 ***
## `0.750000`      7.872e-03  2.895e-03   2.719  0.00655 **
## f.22009.0.1     4.872e-03  3.061e-03   1.592  0.11140
## f.22009.0.2    -1.394e-03  2.946e-03  -0.473  0.63609
## f.22009.0.3     5.067e-03  3.021e-03   1.677  0.09355 .
## f.22009.0.4    -2.598e-03  4.228e-03  -0.614  0.53896
## f.22009.0.5     9.346e-03  4.105e-03   2.277  0.02280 *
## f.22009.0.6     3.929e-03  2.991e-03   1.314  0.18891
## f.22009.0.7    -4.109e-03  3.063e-03  -1.341  0.17986
## f.22009.0.8     3.128e-03  3.231e-03   0.968  0.33290
## f.22009.0.9     2.363e-03  3.084e-03   0.766  0.44350
## f.22009.0.10    3.155e-04  3.578e-03   0.088  0.92973
## f.22009.0.11    1.008e-02  4.161e-03   2.421  0.01547 *
## f.22009.0.12    4.962e-03  3.655e-03   1.358  0.17456
## f.22009.0.13   -2.698e-03  2.941e-03  -0.917  0.35906
## f.22009.0.14   -5.370e-03  3.108e-03  -1.728  0.08398 .
## f.22009.0.15    1.077e-03  3.187e-03   0.338  0.73534
## f.22009.0.16   -2.865e-03  3.120e-03  -0.918  0.35853
## f.22009.0.17   -2.893e-03  2.898e-03  -0.998  0.31826
## f.22009.0.18    6.734e-04  2.906e-03   0.232  0.81673
## f.22009.0.19   -1.967e-03  2.893e-03  -0.680  0.49646
## f.22009.0.20    7.843e-03  2.899e-03   2.705  0.00682 **
## f.22001.0.01    2.869e-02  5.843e-03   4.910 9.14e-07 ***
## f.34.0.0        9.016e-03  3.830e-04  23.542  < 2e-16 ***
## f.22000.0.0-1   4.118e-03  4.085e-02   0.101  0.91970
## f.22000.0.010  -3.756e-02  4.132e-02  -0.909  0.36338
## f.22000.0.0-10  9.133e-03  4.157e-02   0.220  0.82613
## f.22000.0.011  -2.814e-04  4.064e-02  -0.007  0.99448
## f.22000.0.0-11 -2.949e-02  4.116e-02  -0.717  0.47367
## f.22000.0.012   8.382e-03  4.091e-02   0.205  0.83767
## f.22000.0.013  -1.608e-02  4.073e-02  -0.395  0.69297
## f.22000.0.014  -4.996e-03  4.045e-02  -0.124  0.90171
## f.22000.0.015  -1.217e-02  4.083e-02  -0.298  0.76570
## f.22000.0.016  -1.415e-02  4.094e-02  -0.346  0.72966
## f.22000.0.017  -1.104e-02  4.057e-02  -0.272  0.78549
## f.22000.0.018  -4.649e-02  4.094e-02  -1.135  0.25619
## f.22000.0.019  -6.421e-02  4.018e-02  -1.598  0.11006
## f.22000.0.02    4.949e-03  4.037e-02   0.123  0.90242
## f.22000.0.0-2   1.786e-02  4.112e-02   0.434  0.66395
## f.22000.0.020  -1.829e-02  4.088e-02  -0.447  0.65458
## f.22000.0.021  -1.912e-02  4.079e-02  -0.469  0.63923
## f.22000.0.022  -4.510e-02  4.079e-02  -1.106  0.26880
## f.22000.0.023   3.237e-03  4.077e-02   0.079  0.93672
## f.22000.0.024  -2.042e-02  4.021e-02  -0.508  0.61162
## f.22000.0.025   6.531e-02  4.123e-02   1.584  0.11322
## f.22000.0.026  -4.429e-02  4.102e-02  -1.080  0.28024
## f.22000.0.027  -6.144e-05  4.039e-02  -0.002  0.99879
## f.22000.0.028   1.213e-02  4.074e-02   0.298  0.76583
## f.22000.0.029  -3.412e-02  4.050e-02  -0.843  0.39944
## f.22000.0.03   -1.330e-02  4.041e-02  -0.329  0.74210
## f.22000.0.0-3  -1.021e-03  4.066e-02  -0.025  0.97997
## f.22000.0.030  -3.975e-02  4.046e-02  -0.982  0.32592
## f.22000.0.031   1.720e-02  4.064e-02   0.423  0.67204
## f.22000.0.032  -9.869e-03  4.079e-02  -0.242  0.80880
## f.22000.0.033   1.647e-02  4.151e-02   0.397  0.69162
## f.22000.0.034  -1.263e-02  4.057e-02  -0.311  0.75564
```

```
## f.22000.0.035  -7.661e-04  4.065e-02  -0.019  0.98497
## f.22000.0.036  -1.686e-02  4.038e-02  -0.418  0.67619
## f.22000.0.037  -3.081e-02  4.100e-02  -0.751  0.45241
## f.22000.0.038   3.784e-02  4.083e-02   0.927  0.35407
## f.22000.0.039  -1.630e-02  4.125e-02  -0.395  0.69282
## f.22000.0.04    2.006e-03  4.115e-02   0.049  0.96113
## f.22000.0.0-4   6.958e-02  4.136e-02   1.682  0.09252 .
## f.22000.0.040  -5.979e-03  4.080e-02  -0.147  0.88347
## f.22000.0.041  -3.396e-02  4.136e-02  -0.821  0.41163
## f.22000.0.042  -4.849e-02  4.063e-02  -1.193  0.23268
## f.22000.0.043   2.465e-02  4.136e-02   0.596  0.55114
## f.22000.0.044   1.088e-02  4.107e-02   0.265  0.79116
## f.22000.0.045  -2.294e-02  4.100e-02  -0.560  0.57574
## f.22000.0.046  -1.223e-02  4.120e-02  -0.297  0.76656
## f.22000.0.047  -2.581e-02  4.120e-02  -0.626  0.53104
## f.22000.0.048  -6.067e-02  4.115e-02  -1.474  0.14038
## f.22000.0.049   1.362e-02  4.116e-02   0.331  0.74065
## f.22000.0.05    5.782e-03  4.047e-02   0.143  0.88639
## f.22000.0.0-5   2.331e-02  4.090e-02   0.570  0.56880
## f.22000.0.050  -2.168e-02  4.121e-02  -0.526  0.59882
## f.22000.0.051   4.400e-02  4.068e-02   1.082  0.27947
## f.22000.0.052   5.930e-03  4.143e-02   0.143  0.88619
## f.22000.0.053   2.065e-02  4.104e-02   0.503  0.61493
## f.22000.0.054  -1.062e-02  4.115e-02  -0.258  0.79627
## f.22000.0.055   4.270e-02  4.151e-02   1.029  0.30368
## f.22000.0.056  -1.431e-02  4.118e-02  -0.348  0.72811
## f.22000.0.057  -1.776e-03  4.132e-02  -0.043  0.96571
## f.22000.0.058   6.172e-02  4.115e-02   1.500  0.13360
## f.22000.0.059   2.727e-04  4.102e-02   0.007  0.99470
## f.22000.0.06   -6.283e-02  4.032e-02  -1.558  0.11914
## f.22000.0.0-6  -3.374e-04  4.125e-02  -0.008  0.99347
## f.22000.0.060  -2.980e-02  4.140e-02  -0.720  0.47162
## f.22000.0.061   1.426e-02  4.160e-02   0.343  0.73181
## f.22000.0.062   1.238e-02  4.153e-02   0.298  0.76568
## f.22000.0.063  -3.750e-02  4.151e-02  -0.903  0.36629
## f.22000.0.064  -2.297e-03  4.113e-02  -0.056  0.95545
## f.22000.0.065  -3.036e-02  4.140e-02  -0.733  0.46339
## f.22000.0.066  -6.606e-02  4.181e-02  -1.580  0.11413
## f.22000.0.067   1.571e-02  4.138e-02   0.380  0.70424
## f.22000.0.068  -3.621e-02  4.129e-02  -0.877  0.38047
## f.22000.0.069  -1.148e-03  4.141e-02  -0.028  0.97788
## f.22000.0.07   -1.842e-02  4.060e-02  -0.454  0.65011
## f.22000.0.0-7  -9.510e-03  4.097e-02  -0.232  0.81643
## f.22000.0.070  -5.150e-02  4.143e-02  -1.243  0.21382
## f.22000.0.071  -9.838e-03  4.120e-02  -0.239  0.81130
## f.22000.0.072   3.956e-02  4.148e-02   0.954  0.34021
## f.22000.0.073  -5.489e-03  4.151e-02  -0.132  0.89481
## f.22000.0.074  -5.155e-03  4.164e-02  -0.124  0.90147
## f.22000.0.075   5.009e-02  4.121e-02   1.215  0.22424
## f.22000.0.076   5.650e-02  4.165e-02   1.356  0.17498
## f.22000.0.077  -2.249e-02  4.145e-02  -0.543  0.58746
## f.22000.0.078  -6.526e-02  4.124e-02  -1.582  0.11356
## f.22000.0.079  -3.106e-02  4.110e-02  -0.756  0.44974
## f.22000.0.08   -5.260e-02  4.058e-02  -1.296  0.19495
## f.22000.0.0-8   1.207e-02  4.121e-02   0.293  0.76968
## f.22000.0.080   2.103e-03  4.155e-02   0.051  0.95963
## f.22000.0.081  -3.353e-02  4.207e-02  -0.797  0.42538
## f.22000.0.082  -1.527e-02  4.153e-02  -0.368  0.71309
## f.22000.0.083   2.969e-06  4.162e-02   0.000  0.99994
## f.22000.0.084  -1.703e-02  4.161e-02  -0.409  0.68232
## f.22000.0.085   1.547e-02  4.147e-02   0.373  0.70903
## f.22000.0.086  -2.655e-03  4.155e-02  -0.064  0.94904
## f.22000.0.087  -1.730e-02  4.155e-02  -0.416  0.67716
## f.22000.0.088   2.808e-03  4.231e-02   0.066  0.94708
## f.22000.0.089  -2.320e-02  4.198e-02  -0.553  0.58046
## f.22000.0.09   -2.302e-02  4.034e-02  -0.571  0.56815
## f.22000.0.0-9  -2.194e-02  4.125e-02  -0.532  0.59479
## f.22000.0.090  -2.605e-02  4.162e-02  -0.626  0.53147
## f.22000.0.091  -6.929e-02  4.293e-02  -1.614  0.10651
## f.22000.0.092   2.498e-02  4.167e-02   0.599  0.54898
## f.22000.0.093   3.845e-02  4.159e-02   0.924  0.35532
## f.22000.0.094  -3.725e-02  5.318e-02  -0.700  0.48368
## f.22000.0.095  -7.999e-04  4.434e-02  -0.018  0.98561
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9950443)
##
##     Null deviance: 119026  on 119026  degrees of freedom
## Residual deviance: 118309  on 118898  degrees of freedom
##   (840 observations deleted due to missingness)
## AIC: 337324
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     6.025793e-03     3.841396e-03     6.007624e-03     9.503968e-03
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     6.025793e-03               NA               NA
##              AIC    Corrected.AIC
##     1.185668e+05     1.185671e+05
```

```
b = glm(recentsuicideselfharm2 ~   f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.
22009.0.6 +
          f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
          f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
          f.22009.0.19 + f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(b)
```

```
##
## Call:
## glm(formula = recentsuicideselfharm2 ~ f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.5023  -0.2567  -0.1947  -0.1415   5.0247
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.761e+01  7.484e-01 -23.525  < 2e-16 ***
## f.22009.0.1     4.940e-03  3.061e-03   1.614  0.10654
## f.22009.0.2    -1.415e-03  2.946e-03  -0.480  0.63110
## f.22009.0.3     5.037e-03  3.021e-03   1.667  0.09554 .
## f.22009.0.4    -2.580e-03  4.228e-03  -0.610  0.54170
## f.22009.0.5     9.553e-03  4.104e-03   2.328  0.01993 *
## f.22009.0.6     3.959e-03  2.991e-03   1.324  0.18558
## f.22009.0.7    -4.191e-03  3.063e-03  -1.368  0.17131
## f.22009.0.8     3.115e-03  3.231e-03   0.964  0.33499
## f.22009.0.9     2.367e-03  3.084e-03   0.768  0.44274
## f.22009.0.10    2.810e-04  3.578e-03   0.079  0.93741
## f.22009.0.11    1.020e-02  4.161e-03   2.450  0.01427 *
## f.22009.0.12    4.985e-03  3.655e-03   1.364  0.17265
## f.22009.0.13   -2.686e-03  2.941e-03  -0.913  0.36115
## f.22009.0.14   -5.481e-03  3.108e-03  -1.764  0.07780 .
## f.22009.0.15    1.075e-03  3.187e-03   0.337  0.73588
## f.22009.0.16   -2.860e-03  3.121e-03  -0.916  0.35943
## f.22009.0.17   -2.919e-03  2.898e-03  -1.007  0.31390
## f.22009.0.18    6.604e-04  2.906e-03   0.227  0.82022
## f.22009.0.19   -1.924e-03  2.893e-03  -0.665  0.50589
## f.22009.0.20    7.916e-03  2.899e-03   2.731  0.00632 **
## f.22001.0.01    2.852e-02  5.843e-03   4.882 1.05e-06 ***
## f.34.0.0        9.017e-03  3.830e-04  23.546  < 2e-16 ***
## f.22000.0.0-1   4.098e-03  4.085e-02   0.100  0.92009
## f.22000.0.010  -3.757e-02  4.132e-02  -0.909  0.36323
## f.22000.0.0-10  8.773e-03  4.157e-02   0.211  0.83288
```

```
## f.22000.0.011  -2.362e-04  4.064e-02  -0.006  0.99536
## f.22000.0.0-11 -2.945e-02  4.116e-02  -0.716  0.47428
## f.22000.0.012   8.300e-03  4.091e-02   0.203  0.83924
## f.22000.0.013  -1.641e-02  4.073e-02  -0.403  0.68704
## f.22000.0.014  -5.218e-03  4.046e-02  -0.129  0.89737
## f.22000.0.015  -1.214e-02  4.083e-02  -0.297  0.76623
## f.22000.0.016  -1.430e-02  4.094e-02  -0.349  0.72679
## f.22000.0.017  -1.087e-02  4.057e-02  -0.268  0.78872
## f.22000.0.018  -4.645e-02  4.095e-02  -1.134  0.25662
## f.22000.0.019  -6.463e-02  4.018e-02  -1.608  0.10774
## f.22000.0.02    5.115e-03  4.037e-02   0.127  0.89919
## f.22000.0.0-2   1.792e-02  4.112e-02   0.436  0.66300
## f.22000.0.020  -1.849e-02  4.088e-02  -0.452  0.65110
## f.22000.0.021  -1.913e-02  4.079e-02  -0.469  0.63904
## f.22000.0.022  -4.515e-02  4.079e-02  -1.107  0.26828
## f.22000.0.023   3.154e-03  4.077e-02   0.077  0.93833
## f.22000.0.024  -2.057e-02  4.021e-02  -0.512  0.60898
## f.22000.0.025   6.533e-02  4.123e-02   1.584  0.11309
## f.22000.0.026  -4.475e-02  4.102e-02  -1.091  0.27528
## f.22000.0.027  -1.133e-04  4.039e-02  -0.003  0.99776
## f.22000.0.028   1.195e-02  4.074e-02   0.293  0.76926
## f.22000.0.029  -3.403e-02  4.050e-02  -0.840  0.40080
## f.22000.0.03   -1.348e-02  4.041e-02  -0.334  0.73871
## f.22000.0.0-3  -8.987e-04  4.066e-02  -0.022  0.98237
## f.22000.0.030  -3.961e-02  4.046e-02  -0.979  0.32763
## f.22000.0.031   1.745e-02  4.064e-02   0.429  0.66764
## f.22000.0.032  -9.823e-03  4.079e-02  -0.241  0.80967
## f.22000.0.033   1.659e-02  4.151e-02   0.400  0.68940
## f.22000.0.034  -1.264e-02  4.057e-02  -0.311  0.75543
## f.22000.0.035  -9.549e-04  4.065e-02  -0.023  0.98126
## f.22000.0.036  -1.682e-02  4.038e-02  -0.416  0.67709
## f.22000.0.037  -3.104e-02  4.100e-02  -0.757  0.44895
## f.22000.0.038   3.762e-02  4.083e-02   0.921  0.35691
## f.22000.0.039  -1.607e-02  4.125e-02  -0.390  0.69685
## f.22000.0.04    1.982e-03  4.115e-02   0.048  0.96159
## f.22000.0.0-4   6.964e-02  4.136e-02   1.684  0.09227 .
## f.22000.0.040  -6.193e-03  4.080e-02  -0.152  0.87934
## f.22000.0.041  -3.422e-02  4.136e-02  -0.827  0.40803
## f.22000.0.042  -4.840e-02  4.063e-02  -1.191  0.23357
## f.22000.0.043   2.460e-02  4.136e-02   0.595  0.55203
## f.22000.0.044   1.060e-02  4.107e-02   0.258  0.79635
## f.22000.0.045  -2.257e-02  4.100e-02  -0.550  0.58202
## f.22000.0.046  -1.168e-02  4.120e-02  -0.283  0.77688
## f.22000.0.047  -2.623e-02  4.120e-02  -0.636  0.52446
## f.22000.0.048  -6.113e-02  4.115e-02  -1.485  0.13741
## f.22000.0.049   1.330e-02  4.116e-02   0.323  0.74662
## f.22000.0.05    5.455e-03  4.047e-02   0.135  0.89278
## f.22000.0.0-5   2.280e-02  4.090e-02   0.557  0.57730
## f.22000.0.050  -2.204e-02  4.121e-02  -0.535  0.59286
## f.22000.0.051   4.376e-02  4.068e-02   1.076  0.28208
## f.22000.0.052   5.592e-03  4.143e-02   0.135  0.89263
## f.22000.0.053   2.059e-02  4.104e-02   0.502  0.61586
## f.22000.0.054  -1.056e-02  4.115e-02  -0.257  0.79741
## f.22000.0.055   4.293e-02  4.151e-02   1.034  0.30104
## f.22000.0.056  -1.469e-02  4.118e-02  -0.357  0.72127
## f.22000.0.057  -1.740e-03  4.132e-02  -0.042  0.96641
## f.22000.0.058   6.160e-02  4.115e-02   1.497  0.13437
## f.22000.0.059   2.882e-04  4.102e-02   0.007  0.99439
## f.22000.0.06   -6.278e-02  4.032e-02  -1.557  0.11944
## f.22000.0.0-6  -1.287e-04  4.125e-02  -0.003  0.99751
## f.22000.0.060  -3.006e-02  4.140e-02  -0.726  0.46780
## f.22000.0.061   1.428e-02  4.160e-02   0.343  0.73137
## f.22000.0.062   1.268e-02  4.153e-02   0.305  0.76008
## f.22000.0.063  -3.758e-02  4.151e-02  -0.905  0.36534
## f.22000.0.064  -2.439e-03  4.113e-02  -0.059  0.95271
## f.22000.0.065  -3.054e-02  4.140e-02  -0.738  0.46080
## f.22000.0.066  -6.640e-02  4.181e-02  -1.588  0.11226
## f.22000.0.067   1.557e-02  4.138e-02   0.376  0.70675
## f.22000.0.068  -3.628e-02  4.129e-02  -0.879  0.37966
## f.22000.0.069  -1.436e-03  4.141e-02  -0.035  0.97234
## f.22000.0.07   -1.860e-02  4.060e-02  -0.458  0.64688
## f.22000.0.0-7  -9.923e-03  4.097e-02  -0.242  0.80863
## f.22000.0.070  -5.132e-02  4.143e-02  -1.239  0.21547
```

```
## f.22000.0.070  -5.152e-02  4.145e-02  -1.239  0.21547
## f.22000.0.071  -9.555e-03  4.121e-02  -0.232  0.81663
## f.22000.0.072   3.995e-02  4.148e-02   0.963  0.33553
## f.22000.0.073  -5.801e-03  4.151e-02  -0.140  0.88887
## f.22000.0.074  -5.193e-03  4.164e-02  -0.125  0.90075
## f.22000.0.075   5.030e-02  4.121e-02   1.220  0.22228
## f.22000.0.076   5.682e-02  4.165e-02   1.364  0.17251
## f.22000.0.077  -2.282e-02  4.145e-02  -0.550  0.58199
## f.22000.0.078  -6.569e-02  4.124e-02  -1.593  0.11122
## f.22000.0.079  -3.068e-02  4.110e-02  -0.746  0.45544
## f.22000.0.08   -5.220e-02  4.058e-02  -1.286  0.19834
## f.22000.0.0-8   1.187e-02  4.122e-02   0.288  0.77328
## f.22000.0.080   1.994e-03  4.155e-02   0.048  0.96172
## f.22000.0.081  -3.363e-02  4.207e-02  -0.799  0.42412
## f.22000.0.082  -1.497e-02  4.153e-02  -0.361  0.71843
## f.22000.0.083  -1.397e-04  4.163e-02  -0.003  0.99732
## f.22000.0.084  -1.669e-02  4.161e-02  -0.401  0.68846
## f.22000.0.085   1.591e-02  4.147e-02   0.384  0.70118
## f.22000.0.086  -2.746e-03  4.155e-02  -0.066  0.94730
## f.22000.0.087  -1.718e-02  4.155e-02  -0.413  0.67934
## f.22000.0.088   2.800e-03  4.231e-02   0.066  0.94723
## f.22000.0.089  -2.291e-02  4.199e-02  -0.546  0.58536
## f.22000.0.09   -2.317e-02  4.034e-02  -0.574  0.56569
## f.22000.0.0-9  -2.220e-02  4.125e-02  -0.538  0.59043
## f.22000.0.090  -2.619e-02  4.162e-02  -0.629  0.52925
## f.22000.0.091  -6.958e-02  4.293e-02  -1.621  0.10503
## f.22000.0.092   2.530e-02  4.168e-02   0.607  0.54382
## f.22000.0.093   3.859e-02  4.159e-02   0.928  0.35356
## f.22000.0.094  -3.772e-02  5.318e-02  -0.709  0.47818
## f.22000.0.095  -7.854e-04  4.434e-02  -0.018  0.98587
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9950978)
##
##     Null deviance: 119026  on 119026  degrees of freedom
## Residual deviance: 118316  on 118899  degrees of freedom
##   (840 observations deleted due to missingness)
## AIC: 337329
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     5.963998e-03     3.796404e-03     5.946199e-03     9.406794e-03
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     5.963998e-03               NA               NA
##              AIC    Corrected.AIC
##     1.185721e+05     1.185724e+05
```

Moderating effect of sex on child and adult adverse events

```
summary(lm(childtraumasum ~  `1.000000`*f.22001.0.0 + + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.
4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.2
2009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.2200
9.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `1.000000` * f.22001.0.0 + +f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1749 -0.6924 -0.2952  0.2455  7.9695
```

```
## 1.1749  0.0924  0.2952  0.2455  7.9695
##
## Coefficients:
##                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)            -9.043e+00  7.457e-01 -12.127  < 2e-16 ***
## `1.000000`              4.143e-02  3.876e-03  10.687  < 2e-16 ***
## f.22001.0.01           -7.133e-02  5.823e-03 -12.249  < 2e-16 ***
## f.22009.0.1             2.770e-03  3.050e-03   0.908 0.363772
## f.22009.0.2            -5.764e-03  2.936e-03  -1.963 0.049597 *
## f.22009.0.3             3.596e-03  3.011e-03   1.194 0.232342
## f.22009.0.4             1.983e-03  4.213e-03   0.471 0.637846
## f.22009.0.5             3.492e-02  4.090e-03   8.538  < 2e-16 ***
## f.22009.0.6             7.816e-05  2.981e-03   0.026 0.979080
## f.22009.0.7            -9.139e-03  3.052e-03  -2.994 0.002751 **
## f.22009.0.8             8.582e-03  3.219e-03   2.666 0.007678 **
## f.22009.0.9             7.407e-03  3.073e-03   2.410 0.015942 *
## f.22009.0.10           -4.728e-03  3.565e-03  -1.326 0.184786
## f.22009.0.11            1.502e-02  4.146e-03   3.624 0.000291 ***
## f.22009.0.12           -5.476e-03  3.642e-03  -1.503 0.132740
## f.22009.0.13           -3.903e-03  2.931e-03  -1.332 0.182939
## f.22009.0.14           -4.020e-02  3.098e-03 -12.978  < 2e-16 ***
## f.22009.0.15            1.565e-03  3.175e-03   0.493 0.622061
## f.22009.0.16           -1.729e-02  3.110e-03  -5.561 2.69e-08 ***
## f.22009.0.17           -5.030e-03  2.888e-03  -1.742 0.081558 .
## f.22009.0.18            8.731e-03  2.895e-03   3.016 0.002563 **
## f.22009.0.19           -1.006e-03  2.883e-03  -0.349 0.727199
## f.22009.0.20            4.288e-03  2.888e-03   1.485 0.137616
## f.34.0.0                4.650e-03  3.816e-04  12.186  < 2e-16 ***
## f.22000.0.0-1           1.096e-01  4.074e-02   2.689 0.007160 **
## f.22000.0.010          -7.689e-02  4.117e-02  -1.868 0.061825 .
## f.22000.0.0-10          3.091e-02  4.140e-02   0.747 0.455345
## f.22000.0.011          -2.907e-02  4.049e-02  -0.718 0.472862
## f.22000.0.0-11          9.963e-02  4.104e-02   2.428 0.015199 *
## f.22000.0.012          -4.662e-02  4.078e-02  -1.143 0.252937
## f.22000.0.013          -2.081e-02  4.064e-02  -0.512 0.608591
## f.22000.0.014          -2.331e-02  4.038e-02  -0.577 0.563710
## f.22000.0.015           1.851e-02  4.063e-02   0.456 0.648701
## f.22000.0.016           1.517e-02  4.086e-02   0.371 0.710432
## f.22000.0.017           7.489e-03  4.045e-02   0.185 0.853113
## f.22000.0.018           1.512e-02  4.089e-02   0.370 0.711521
## f.22000.0.019          -2.149e-03  4.012e-02  -0.054 0.957277
## f.22000.0.02           -5.446e-03  4.026e-02  -0.135 0.892379
## f.22000.0.0-2           5.545e-02  4.097e-02   1.353 0.175908
## f.22000.0.020          -1.148e-02  4.076e-02  -0.282 0.778209
## f.22000.0.021          -1.386e-02  4.069e-02  -0.341 0.733437
## f.22000.0.022           3.296e-02  4.064e-02   0.811 0.417313
## f.22000.0.023           2.535e-02  4.062e-02   0.624 0.532682
## f.22000.0.024          -2.721e-02  4.009e-02  -0.679 0.497309
## f.22000.0.025          -4.267e-02  4.113e-02  -1.037 0.299615
## f.22000.0.026          -2.703e-02  4.088e-02  -0.661 0.508493
## f.22000.0.027          -4.985e-02  4.021e-02  -1.240 0.215036
## f.22000.0.028           2.184e-02  4.061e-02   0.538 0.590674
## f.22000.0.029           1.868e-02  4.036e-02   0.463 0.643433
## f.22000.0.03            5.147e-03  4.026e-02   0.128 0.898282
## f.22000.0.0-3           4.276e-02  4.057e-02   1.054 0.291903
## f.22000.0.030          -4.011e-02  4.036e-02  -0.994 0.320345
## f.22000.0.031           2.854e-02  4.049e-02   0.705 0.480891
## f.22000.0.032           1.505e-02  4.068e-02   0.370 0.711478
## f.22000.0.033           1.603e-02  4.140e-02   0.387 0.698662
## f.22000.0.034           6.051e-02  4.044e-02   1.496 0.134593
## f.22000.0.035          -3.122e-03  4.053e-02  -0.077 0.938598
## f.22000.0.036           1.246e-02  4.023e-02   0.310 0.756778
## f.22000.0.037          -2.630e-02  4.083e-02  -0.644 0.519570
## f.22000.0.038           2.633e-02  4.071e-02   0.647 0.517710
## f.22000.0.039          -1.565e-02  4.115e-02  -0.380 0.703817
## f.22000.0.04           -1.879e-02  4.101e-02  -0.458 0.646915
## f.22000.0.0-4           1.059e-01  4.121e-02   2.569 0.010194 *
## f.22000.0.040           2.173e-02  4.064e-02   0.535 0.592740
## f.22000.0.041          -3.473e-02  4.124e-02  -0.842 0.399685
## f.22000.0.042          -3.099e-02  4.056e-02  -0.764 0.444949
## f.22000.0.043          -1.383e-02  4.129e-02  -0.335 0.737687
## f.22000.0.044          -4.763e-02  4.083e-02  -1.166 0.243448
## f.22000.0.045          -7.607e-03  4.086e-02  -0.186 0.852308
```

```
## f.22000.0.046           -2.706e-02  4.109e-02  -0.659 0.510138
## f.22000.0.047           -4.262e-02  4.111e-02  -1.037 0.299969
## f.22000.0.048            1.938e-02  4.103e-02   0.472 0.636787
## f.22000.0.049           -2.371e-02  4.105e-02  -0.578 0.563595
## f.22000.0.05            -6.895e-02  4.035e-02  -1.709 0.087486 .
## f.22000.0.0-5            8.661e-02  4.077e-02   2.124 0.033636 *
## f.22000.0.050            4.186e-02  4.113e-02   1.018 0.308832
## f.22000.0.051            2.423e-02  4.050e-02   0.598 0.549642
## f.22000.0.052           -3.227e-02  4.122e-02  -0.783 0.433779
## f.22000.0.053           -4.490e-02  4.093e-02  -1.097 0.272634
## f.22000.0.054           -1.258e-02  4.104e-02  -0.307 0.759181
## f.22000.0.055            2.716e-03  4.138e-02   0.066 0.947660
## f.22000.0.056           -4.702e-02  4.102e-02  -1.146 0.251713
## f.22000.0.057           -9.211e-03  4.123e-02  -0.223 0.823232
## f.22000.0.058           -4.734e-02  4.103e-02  -1.154 0.248579
## f.22000.0.059            6.370e-03  4.087e-02   0.156 0.876136
## f.22000.0.06            -1.462e-02  4.020e-02  -0.364 0.716176
## f.22000.0.0-6            5.392e-02  4.110e-02   1.312 0.189508
## f.22000.0.060           -4.458e-02  4.128e-02  -1.080 0.280212
## f.22000.0.061            4.415e-02  4.151e-02   1.064 0.287466
## f.22000.0.062           -1.060e-02  4.138e-02  -0.256 0.797755
## f.22000.0.063            4.092e-03  4.138e-02   0.099 0.921228
## f.22000.0.064           -3.032e-03  4.102e-02  -0.074 0.941080
## f.22000.0.065            1.994e-03  4.126e-02   0.048 0.961449
## f.22000.0.066           -1.688e-03  4.168e-02  -0.040 0.967697
## f.22000.0.067           -1.608e-02  4.124e-02  -0.390 0.696685
## f.22000.0.068            2.015e-02  4.122e-02   0.489 0.624949
## f.22000.0.069           -4.666e-03  4.128e-02  -0.113 0.910008
## f.22000.0.07             1.035e-02  4.051e-02   0.255 0.798379
## f.22000.0.0-7            1.068e-02  4.088e-02   0.261 0.793917
## f.22000.0.070            2.875e-02  4.127e-02   0.697 0.486013
## f.22000.0.071           -2.591e-02  4.107e-02  -0.631 0.528085
## f.22000.0.072           -3.255e-03  4.132e-02  -0.079 0.937213
## f.22000.0.073            8.296e-03  4.135e-02   0.201 0.840992
## f.22000.0.074           -3.086e-02  4.149e-02  -0.744 0.456952
## f.22000.0.075            1.201e-02  4.111e-02   0.292 0.770206
## f.22000.0.076           -4.399e-02  4.153e-02  -1.059 0.289494
## f.22000.0.077           -5.924e-02  4.130e-02  -1.434 0.151453
## f.22000.0.078           -3.051e-02  4.106e-02  -0.743 0.457478
## f.22000.0.079           -3.704e-02  4.097e-02  -0.904 0.365974
## f.22000.0.08            -5.945e-04  4.048e-02  -0.015 0.988281
## f.22000.0.0-8            5.128e-02  4.103e-02   1.250 0.211348
## f.22000.0.080           -8.542e-03  4.144e-02  -0.206 0.836702
## f.22000.0.081           -6.876e-03  4.189e-02  -0.164 0.869608
## f.22000.0.082           -4.218e-02  4.140e-02  -1.019 0.308275
## f.22000.0.083           -3.180e-02  4.150e-02  -0.766 0.443562
## f.22000.0.084            8.850e-03  4.151e-02   0.213 0.831184
## f.22000.0.085            4.894e-02  4.135e-02   1.184 0.236544
## f.22000.0.086            4.881e-03  4.147e-02   0.118 0.906306
## f.22000.0.087           -9.213e-02  4.146e-02  -2.222 0.026267 *
## f.22000.0.088           -2.267e-02  4.217e-02  -0.538 0.590891
## f.22000.0.089           -1.916e-03  4.189e-02  -0.046 0.963524
## f.22000.0.09            -2.567e-02  4.026e-02  -0.638 0.523680
## f.22000.0.0-9            6.133e-02  4.105e-02   1.494 0.135143
## f.22000.0.090            1.555e-02  4.143e-02   0.375 0.707414
## f.22000.0.091            8.696e-03  4.283e-02   0.203 0.839121
## f.22000.0.092           -6.689e-03  4.158e-02  -0.161 0.872214
## f.22000.0.093            6.479e-03  4.152e-02   0.156 0.876008
## f.22000.0.094            2.624e-02  5.309e-02   0.494 0.621053
## f.22000.0.095           -2.151e-02  4.426e-02  -0.486 0.626953
## `1.000000`:f.22001.0.01 -2.311e-02  5.798e-03  -3.985 6.74e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9962 on 119405 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.00875,    Adjusted R-squared:  0.007679
## F-statistic: 8.171 on 129 and 119405 DF,  p-value: < 2.2e-16
```

```
cat("\n")
```

```
summary(lm(selfharmideation ~  `0.750000`*f.22001.0.0 + + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.
0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.
22009.0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.750000` * f.22001.0.0 + +f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1141 -0.5921 -0.4103  0.2730  5.1541
##
## Coefficients:
##                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)            -4.081e+01  7.404e-01 -55.109  < 2e-16 ***
## `0.750000`              3.881e-02  3.856e-03  10.065  < 2e-16 ***
## f.22001.0.01           -1.220e-01  5.781e-03 -21.099  < 2e-16 ***
## f.22009.0.1             8.214e-03  3.028e-03   2.713  0.00668 **
## f.22009.0.2            -1.147e-03  2.914e-03  -0.393  0.69400
## f.22009.0.3            -1.476e-03  2.990e-03  -0.494  0.62160
## f.22009.0.4            -8.749e-03  4.183e-03  -2.091  0.03649 *
## f.22009.0.5             2.999e-03  4.061e-03   0.739  0.46019
## f.22009.0.6             3.338e-04  2.958e-03   0.113  0.91016
## f.22009.0.7            -8.912e-03  3.031e-03  -2.941  0.00328 **
## f.22009.0.8             7.811e-03  3.196e-03   2.444  0.01453 *
## f.22009.0.9            -7.767e-03  3.050e-03  -2.546  0.01088 *
## f.22009.0.10            1.431e-03  3.540e-03   0.404  0.68598
## f.22009.0.11            1.060e-03  4.118e-03   0.257  0.79685
## f.22009.0.12            4.944e-03  3.617e-03   1.367  0.17166
## f.22009.0.13           -4.508e-03  2.910e-03  -1.549  0.12137
## f.22009.0.14           -1.610e-02  3.075e-03  -5.235 1.65e-07 ***
## f.22009.0.15           -1.575e-03  3.152e-03  -0.500  0.61736
## f.22009.0.16           -7.581e-03  3.088e-03  -2.455  0.01407 *
## f.22009.0.17           -1.913e-03  2.868e-03  -0.667  0.50482
## f.22009.0.18            6.329e-04  2.875e-03   0.220  0.82576
## f.22009.0.19            2.192e-03  2.862e-03   0.766  0.44373
## f.22009.0.20            5.701e-04  2.868e-03   0.199  0.84243
## f.34.0.0                2.092e-02  3.789e-04  55.223  < 2e-16 ***
## f.22000.0.0-1           2.830e-02  4.044e-02   0.700  0.48409
## f.22000.0.010          -3.077e-02  4.086e-02  -0.753  0.45137
## f.22000.0.0-10          8.413e-02  4.109e-02   2.048  0.04061 *
## f.22000.0.011           5.214e-02  4.019e-02   1.297  0.19449
## f.22000.0.0-11          4.776e-02  4.072e-02   1.173  0.24089
## f.22000.0.012           2.252e-02  4.045e-02   0.557  0.57781
## f.22000.0.013          -4.159e-03  4.030e-02  -0.103  0.91781
## f.22000.0.014           4.204e-02  4.003e-02   1.050  0.29373
## f.22000.0.015           4.052e-02  4.040e-02   1.003  0.31592
## f.22000.0.016           5.668e-02  4.054e-02   1.398  0.16212
## f.22000.0.017           4.288e-02  4.017e-02   1.067  0.28578
## f.22000.0.018          -2.454e-02  4.054e-02  -0.605  0.54491
## f.22000.0.019           9.928e-03  3.979e-02   0.249  0.80300
## f.22000.0.02            1.419e-03  3.994e-02   0.036  0.97167
## f.22000.0.0-2           7.849e-02  4.067e-02   1.930  0.05361 .
## f.22000.0.020           2.920e-03  4.047e-02   0.072  0.94249
## f.22000.0.021           2.460e-02  4.033e-02   0.610  0.54189
## f.22000.0.022           2.316e-02  4.034e-02   0.574  0.56587
## f.22000.0.023           1.780e-02  4.034e-02   0.441  0.65892
## f.22000.0.024           1.066e-02  3.980e-02   0.268  0.78879
## f.22000.0.025           5.202e-02  4.083e-02   1.274  0.20265
## f.22000.0.026          -3.863e-02  4.061e-02  -0.951  0.34152
## f.22000.0.027          -1.047e-03  3.998e-02  -0.026  0.97910
## f.22000.0.028           5.337e-03  4.038e-02   0.132  0.89486
## f.22000.0.029           2.062e-02  4.006e-02   0.515  0.60672
## f.22000.0.03            1.245e-02  4.001e-02   0.311  0.75562
## f.22000.0.0-3          -7.527e-03  4.021e-02  -0.187  0.85152
```

```
## f.22000.0.0-3          -7.527e-03  4.021e-02  -0.187  0.85152
## f.22000.0.030          -3.169e-02  4.005e-02  -0.791  0.42877
## f.22000.0.031          -6.182e-03  4.024e-02  -0.154  0.87791
## f.22000.0.032          -1.896e-02  4.035e-02  -0.470  0.63848
## f.22000.0.033           1.926e-02  4.109e-02   0.469  0.63925
## f.22000.0.034           2.550e-02  4.014e-02   0.635  0.52528
## f.22000.0.035           6.669e-02  4.025e-02   1.657  0.09754 .
## f.22000.0.036           1.358e-02  3.998e-02   0.340  0.73410
## f.22000.0.037          -4.841e-03  4.057e-02  -0.119  0.90503
## f.22000.0.038           5.897e-02  4.038e-02   1.460  0.14421
## f.22000.0.039           2.516e-02  4.086e-02   0.616  0.53796
## f.22000.0.04           -3.874e-03  4.071e-02  -0.095  0.92417
## f.22000.0.0-4           7.576e-02  4.096e-02   1.850  0.06436 .
## f.22000.0.040           4.228e-02  4.039e-02   1.047  0.29516
## f.22000.0.041           1.124e-02  4.093e-02   0.275  0.78365
## f.22000.0.042          -1.397e-02  4.018e-02  -0.348  0.72799
## f.22000.0.043          -3.460e-02  4.099e-02  -0.844  0.39854
## f.22000.0.044           6.714e-02  4.062e-02   1.653  0.09834 .
## f.22000.0.045           7.070e-03  4.054e-02   0.174  0.86154
## f.22000.0.046          -2.321e-02  4.074e-02  -0.570  0.56887
## f.22000.0.047          -8.855e-03  4.078e-02  -0.217  0.82811
## f.22000.0.048           8.031e-03  4.077e-02   0.197  0.84385
## f.22000.0.049           6.131e-02  4.072e-02   1.506  0.13220
## f.22000.0.05            8.925e-03  4.006e-02   0.223  0.82369
## f.22000.0.0-5           6.584e-02  4.047e-02   1.627  0.10380
## f.22000.0.050           1.228e-03  4.072e-02   0.030  0.97594
## f.22000.0.051           7.313e-02  4.021e-02   1.819  0.06892 .
## f.22000.0.052           2.596e-02  4.100e-02   0.633  0.52650
## f.22000.0.053          -1.227e-02  4.059e-02  -0.302  0.76247
## f.22000.0.054           6.990e-02  4.070e-02   1.717  0.08595 .
## f.22000.0.055           5.898e-02  4.113e-02   1.434  0.15151
## f.22000.0.056           4.129e-02  4.076e-02   1.013  0.31107
## f.22000.0.057           5.095e-02  4.088e-02   1.246  0.21268
## f.22000.0.058           2.766e-02  4.075e-02   0.679  0.49729
## f.22000.0.059           2.734e-02  4.057e-02   0.674  0.50043
## f.22000.0.06            7.317e-03  3.991e-02   0.183  0.85452
## f.22000.0.0-6           3.980e-02  4.085e-02   0.974  0.32988
## f.22000.0.060           6.757e-03  4.097e-02   0.165  0.86899
## f.22000.0.061           3.254e-02  4.117e-02   0.791  0.42922
## f.22000.0.062           3.839e-02  4.106e-02   0.935  0.34969
## f.22000.0.063           1.365e-02  4.103e-02   0.333  0.73944
## f.22000.0.064          -4.984e-03  4.074e-02  -0.122  0.90264
## f.22000.0.065          -1.291e-03  4.096e-02  -0.032  0.97486
## f.22000.0.066           7.667e-04  4.132e-02   0.019  0.98520
## f.22000.0.067          -1.750e-02  4.093e-02  -0.427  0.66904
## f.22000.0.068           1.197e-02  4.082e-02   0.293  0.76937
## f.22000.0.069           2.222e-02  4.098e-02   0.542  0.58777
## f.22000.0.07           -2.723e-02  4.022e-02  -0.677  0.49833
## f.22000.0.0-7           5.504e-02  4.054e-02   1.358  0.17453
## f.22000.0.070          -1.652e-02  4.107e-02  -0.402  0.68743
## f.22000.0.071          -2.145e-02  4.081e-02  -0.525  0.59924
## f.22000.0.072           4.870e-04  4.108e-02   0.012  0.99054
## f.22000.0.073           8.382e-03  4.113e-02   0.204  0.83851
## f.22000.0.074           3.969e-02  4.120e-02   0.963  0.33533
## f.22000.0.075           7.169e-02  4.077e-02   1.758  0.07869 .
## f.22000.0.076           5.099e-02  4.121e-02   1.237  0.21591
## f.22000.0.077           2.162e-02  4.100e-02   0.527  0.59794
## f.22000.0.078          -3.677e-02  4.084e-02  -0.900  0.36789
## f.22000.0.079          -1.041e-02  4.066e-02  -0.256  0.79791
## f.22000.0.08           -1.295e-03  4.014e-02  -0.032  0.97427
## f.22000.0.0-8           2.464e-02  4.082e-02   0.604  0.54610
## f.22000.0.080           6.650e-02  4.114e-02   1.617  0.10597
## f.22000.0.081           1.883e-03  4.166e-02   0.045  0.96396
## f.22000.0.082          -2.219e-02  4.113e-02  -0.539  0.58964
## f.22000.0.083           1.703e-02  4.117e-02   0.414  0.67914
## f.22000.0.084           2.557e-02  4.118e-02   0.621  0.53457
## f.22000.0.085           3.143e-02  4.104e-02   0.766  0.44377
## f.22000.0.086          -1.272e-02  4.113e-02  -0.309  0.75704
## f.22000.0.087           3.172e-02  4.107e-02   0.772  0.43999
## f.22000.0.088           1.072e-02  4.191e-02   0.256  0.79817
## f.22000.0.089           8.767e-03  4.155e-02   0.211  0.83289
## f.22000.0.09           -2.215e-02  3.988e-02  -0.555  0.57871
## f.22000.0.0-9           5.627e-02  4.085e-02   1.378  0.16832
```

```
## f.22000.0.090            9.208e-03  4.120e-02   0.224  0.82314
## f.22000.0.091           -4.470e-02  4.249e-02  -1.052  0.29276
## f.22000.0.092            3.655e-02  4.120e-02   0.887  0.37502
## f.22000.0.093            3.364e-02  4.115e-02   0.818  0.41363
## f.22000.0.094            1.707e-03  5.261e-02   0.032  0.97412
## f.22000.0.095           -8.733e-03  4.392e-02  -0.199  0.84237
## `0.750000`:f.22001.0.01 -1.278e-02  5.758e-03  -2.219  0.02651 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9837 on 118097 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03343,    Adjusted R-squared:  0.03237
## F-statistic: 31.66 on 129 and 118097 DF,  p-value: < 2.2e-16
```

```
cat("\n")
```

```
summary(lm(selfharmscore ~  `0.750000`*f.22001.0.0 + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 +
            f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
            f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 , data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.750000` * f.22001.0.0 + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1686 -0.6199 -0.4318  0.4517  4.2221
##
## Coefficients:
##                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)             -4.023e+01  7.402e-01 -54.349  < 2e-16 ***
## `0.750000`               4.269e-02  3.856e-03  11.073  < 2e-16 ***
## f.22001.0.01            -1.491e-01  5.779e-03 -25.807  < 2e-16 ***
## f.22009.0.1              9.629e-03  3.027e-03   3.181  0.00147 **
## f.22009.0.2             -3.301e-03  2.913e-03  -1.133  0.25714
## f.22009.0.3             -1.684e-03  2.989e-03  -0.563  0.57316
## f.22009.0.4             -7.607e-03  4.182e-03  -1.819  0.06891 .
## f.22009.0.5              2.477e-03  4.060e-03   0.610  0.54176
## f.22009.0.6              2.231e-04  2.957e-03   0.075  0.93986
## f.22009.0.7             -8.644e-03  3.030e-03  -2.852  0.00434 **
## f.22009.0.8              7.113e-03  3.195e-03   2.226  0.02601 *
## f.22009.0.9             -9.091e-03  3.049e-03  -2.981  0.00287 **
## f.22009.0.10             2.764e-03  3.539e-03   0.781  0.43470
## f.22009.0.11            -1.611e-04  4.117e-03  -0.039  0.96879
## f.22009.0.12             2.732e-03  3.616e-03   0.756  0.44986
## f.22009.0.13            -3.201e-03  2.909e-03  -1.100  0.27118
## f.22009.0.14            -1.652e-02  3.074e-03  -5.375 7.68e-08 ***
## f.22009.0.15            -1.388e-03  3.151e-03  -0.440  0.65969
## f.22009.0.16            -9.933e-03  3.087e-03  -3.218  0.00129 **
## f.22009.0.17            -1.323e-05  2.867e-03  -0.005  0.99632
## f.22009.0.18            -1.318e-04  2.874e-03  -0.046  0.96342
## f.22009.0.19             2.347e-03  2.862e-03   0.820  0.41205
## f.22009.0.20             2.775e-03  2.867e-03   0.968  0.33309
## f.34.0.0                 2.064e-02  3.788e-04  54.492  < 2e-16 ***
## f.22000.0.0-1            3.555e-02  4.041e-02   0.880  0.37897
## f.22000.0.010           -3.755e-02  4.082e-02  -0.920  0.35758
## f.22000.0.0-10           8.012e-02  4.105e-02   1.952  0.05097 .
## f.22000.0.011            5.735e-02  4.016e-02   1.428  0.15328
## f.22000.0.0-11           2.743e-02  4.071e-02   0.674  0.50047
## f.22000.0.012           -8.122e-03  4.046e-02  -0.201  0.84091
## f.22000.0.013           -1.763e-02  4.026e-02  -0.438  0.66149
## f.22000.0.014            1.078e-02  4.002e-02   0.269  0.78770
## f.22000.0.015            3.339e-02  4.036e-02   0.827  0.40815
```

```
## f.22000.0.016            4.625e-02  4.051e-02   1.142  0.25356
## f.22000.0.017            2.064e-02  4.014e-02   0.514  0.60707
## f.22000.0.018           -3.117e-02  4.050e-02  -0.769  0.44161
## f.22000.0.019           -2.329e-03  3.977e-02  -0.059  0.95330
## f.22000.0.02            -1.874e-02  3.992e-02  -0.469  0.63874
## f.22000.0.0-2            7.818e-02  4.065e-02   1.924  0.05442 .
## f.22000.0.020           -1.171e-02  4.045e-02  -0.290  0.77217
## f.22000.0.021            3.392e-02  4.031e-02   0.842  0.40001
## f.22000.0.022            5.244e-03  4.031e-02   0.130  0.89649
## f.22000.0.023           -3.602e-03  4.033e-02  -0.089  0.92885
## f.22000.0.024            7.152e-03  3.977e-02   0.180  0.85730
## f.22000.0.025            2.654e-02  4.082e-02   0.650  0.51553
## f.22000.0.026           -5.161e-02  4.059e-02  -1.272  0.20355
## f.22000.0.027           -2.009e-02  3.995e-02  -0.503  0.61493
## f.22000.0.028            3.817e-03  4.037e-02   0.095  0.92467
## f.22000.0.029           -2.019e-03  4.004e-02  -0.050  0.95979
## f.22000.0.03             5.361e-03  3.999e-02   0.134  0.89336
## f.22000.0.0-3           -2.784e-04  4.019e-02  -0.007  0.99447
## f.22000.0.030           -3.843e-02  4.003e-02  -0.960  0.33699
## f.22000.0.031           -2.483e-02  4.022e-02  -0.617  0.53702
## f.22000.0.032           -2.010e-02  4.032e-02  -0.499  0.61809
## f.22000.0.033            2.721e-04  4.106e-02   0.007  0.99471
## f.22000.0.034            3.179e-02  4.010e-02   0.793  0.42791
## f.22000.0.035            5.095e-02  4.025e-02   1.266  0.20562
## f.22000.0.036            6.107e-03  3.995e-02   0.153  0.87852
## f.22000.0.037           -1.996e-02  4.054e-02  -0.492  0.62246
## f.22000.0.038            4.160e-02  4.035e-02   1.031  0.30255
## f.22000.0.039            1.087e-02  4.082e-02   0.266  0.79009
## f.22000.0.04            -7.650e-03  4.067e-02  -0.188  0.85078
## f.22000.0.0-4            5.610e-02  4.092e-02   1.371  0.17035
## f.22000.0.040            6.380e-03  4.038e-02   0.158  0.87447
## f.22000.0.041            1.447e-03  4.090e-02   0.035  0.97178
## f.22000.0.042           -3.582e-02  4.017e-02  -0.892  0.37256
## f.22000.0.043           -3.324e-02  4.095e-02  -0.812  0.41687
## f.22000.0.044            5.773e-02  4.059e-02   1.422  0.15493
## f.22000.0.045           -3.329e-03  4.050e-02  -0.082  0.93448
## f.22000.0.046           -3.982e-02  4.070e-02  -0.978  0.32789
## f.22000.0.047           -1.932e-02  4.076e-02  -0.474  0.63548
## f.22000.0.048           -1.485e-02  4.074e-02  -0.364  0.71549
## f.22000.0.049            4.926e-02  4.069e-02   1.211  0.22599
## f.22000.0.05            -8.974e-03  4.004e-02  -0.224  0.82264
## f.22000.0.0-5            7.579e-02  4.046e-02   1.873  0.06105 .
## f.22000.0.050            2.264e-03  4.068e-02   0.056  0.95563
## f.22000.0.051            7.112e-02  4.018e-02   1.770  0.07674 .
## f.22000.0.052            2.473e-03  4.098e-02   0.060  0.95188
## f.22000.0.053           -1.644e-02  4.060e-02  -0.405  0.68545
## f.22000.0.054            6.008e-02  4.067e-02   1.477  0.13955
## f.22000.0.055            5.638e-02  4.111e-02   1.372  0.17020
## f.22000.0.056            3.712e-02  4.073e-02   0.911  0.36210
## f.22000.0.057            4.572e-02  4.085e-02   1.119  0.26308
## f.22000.0.058            1.336e-02  4.073e-02   0.328  0.74282
## f.22000.0.059            1.115e-02  4.056e-02   0.275  0.78338
## f.22000.0.06             7.802e-03  3.988e-02   0.196  0.84488
## f.22000.0.0-6            4.128e-02  4.081e-02   1.011  0.31179
## f.22000.0.060           -2.662e-02  4.095e-02  -0.650  0.51554
## f.22000.0.061            1.468e-02  4.113e-02   0.357  0.72121
## f.22000.0.062            2.736e-02  4.103e-02   0.667  0.50484
## f.22000.0.063           -2.789e-04  4.101e-02  -0.007  0.99457
## f.22000.0.064           -1.621e-02  4.071e-02  -0.398  0.69042
## f.22000.0.065           -1.711e-02  4.093e-02  -0.418  0.67586
## f.22000.0.066           -1.046e-02  4.129e-02  -0.253  0.80005
## f.22000.0.067           -2.290e-02  4.091e-02  -0.560  0.57562
## f.22000.0.068            7.285e-03  4.080e-02   0.179  0.85828
## f.22000.0.069            2.476e-03  4.096e-02   0.060  0.95179
## f.22000.0.07            -3.582e-02  4.019e-02  -0.891  0.37276
## f.22000.0.0-7            4.802e-02  4.052e-02   1.185  0.23599
## f.22000.0.070           -1.955e-02  4.104e-02  -0.476  0.63386
## f.22000.0.071           -1.185e-02  4.077e-02  -0.291  0.77142
## f.22000.0.072           -8.085e-03  4.105e-02  -0.197  0.84385
## f.22000.0.073           -4.553e-03  4.111e-02  -0.111  0.91180
## f.22000.0.074            3.469e-02  4.118e-02   0.842  0.39960
## f.22000.0.075            6.143e-02  4.075e-02   1.507  0.13171
## f.22000.0.076            3.462e-02  4.118e-02   0.841  0.40043
```

```
## f.22000.0.076            3.462e-02  4.118e-02   0.841  0.40045
## f.22000.0.077            6.664e-03  4.100e-02   0.163  0.87087
## f.22000.0.078           -4.978e-02  4.082e-02  -1.219  0.22269
## f.22000.0.079           -1.897e-02  4.067e-02  -0.467  0.64081
## f.22000.0.08            -1.247e-02  4.011e-02  -0.311  0.75582
## f.22000.0.0-8            2.146e-02  4.083e-02   0.526  0.59917
## f.22000.0.080            3.657e-02  4.114e-02   0.889  0.37404
## f.22000.0.081            1.833e-03  4.164e-02   0.044  0.96489
## f.22000.0.082           -4.337e-02  4.110e-02  -1.055  0.29127
## f.22000.0.083           -1.415e-03  4.115e-02  -0.034  0.97257
## f.22000.0.084            2.100e-02  4.115e-02   0.510  0.60978
## f.22000.0.085            3.669e-02  4.102e-02   0.894  0.37108
## f.22000.0.086           -2.286e-02  4.111e-02  -0.556  0.57821
## f.22000.0.087            3.965e-02  4.106e-02   0.966  0.33412
## f.22000.0.088            4.478e-03  4.188e-02   0.107  0.91485
## f.22000.0.089            5.288e-04  4.151e-02   0.013  0.98984
## f.22000.0.09            -9.974e-03  3.985e-02  -0.250  0.80238
## f.22000.0.0-9            6.631e-02  4.084e-02   1.624  0.10444
## f.22000.0.090           -4.575e-03  4.116e-02  -0.111  0.91150
## f.22000.0.091           -4.018e-02  4.248e-02  -0.946  0.34426
## f.22000.0.092            2.116e-02  4.117e-02   0.514  0.60725
## f.22000.0.093            1.081e-02  4.113e-02   0.263  0.79270
## f.22000.0.094            4.345e-03  5.256e-02   0.083  0.93412
## f.22000.0.095           -1.816e-02  4.387e-02  -0.414  0.67895
## `0.750000`:f.22001.0.01 -1.424e-02  5.756e-03  -2.474  0.01335 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9827 on 117939 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03527,    Adjusted R-squared:  0.03421
## F-statistic: 33.42 on 129 and 117939 DF,  p-value: < 2.2e-16
```

Moderating effect of childtrauma on SSBI

```
summary(lm(selfharmideation ~  `0.750000`*childtraumasum + f.22001.0.0 + + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.750000` * childtraumasum +
##     f.22001.0.0 + +f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.0473 -0.5411 -0.3190  0.2600  5.2774
##
## Coefficients:
##                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)               -3.817e+01  7.097e-01 -53.786  < 2e-16 ***
## `0.750000`                 2.408e-02  2.745e-03   8.770  < 2e-16 ***
## childtraumasum             2.864e-01  2.771e-03 103.339  < 2e-16 ***
## f.22001.0.01              -1.025e-01  5.541e-03 -18.501  < 2e-16 ***
## f.22009.0.1                7.532e-03  2.900e-03   2.597 0.009412 **
## f.22009.0.2                6.792e-04  2.792e-03   0.243 0.807774
## f.22009.0.3               -2.139e-03  2.864e-03  -0.747 0.455164
## f.22009.0.4               -9.649e-03  4.007e-03  -2.408 0.016032 *
## f.22009.0.5               -6.453e-03  3.891e-03  -1.658 0.097238 .
## f.22009.0.6                2.903e-04  2.833e-03   0.102 0.918388
## f.22009.0.7               -6.872e-03  2.903e-03  -2.367 0.017932 *
## f.22009.0.8                5.231e-03  3.061e-03   1.709 0.087536 .
## f.22009.0.9               -9.763e-03  2.921e-03  -3.342 0.000832 ***
## f.22009.0.10               2.761e-03  3.391e-03   0.814 0.415411
## f.22009.0.11              -3.256e-03  3.944e-03  -0.826 0.409045
```

```
## f.22009.0.12              6.527e-03  3.464e-03   1.884 0.059535 .
## f.22009.0.13             -2.949e-03  2.788e-03  -1.058 0.290052
## f.22009.0.14             -4.876e-03  2.947e-03  -1.654 0.098056 .
## f.22009.0.15             -1.819e-03  3.019e-03  -0.603 0.546806
## f.22009.0.16             -2.789e-03  2.958e-03  -0.943 0.345760
## f.22009.0.17             -1.704e-04  2.747e-03  -0.062 0.950528
## f.22009.0.18             -1.706e-03  2.754e-03  -0.619 0.535725
## f.22009.0.19              2.655e-03  2.741e-03   0.968 0.332803
## f.22009.0.20             -7.016e-04  2.747e-03  -0.255 0.798417
## f.34.0.0                  1.957e-02  3.632e-04  53.890  < 2e-16 ***
## f.22000.0.0-1            -8.462e-03  3.878e-02  -0.218 0.827268
## f.22000.0.010            -1.274e-02  3.914e-02  -0.326 0.744797
## f.22000.0.0-10            7.528e-02  3.937e-02   1.912 0.055854 .
## f.22000.0.011             5.896e-02  3.849e-02   1.532 0.125599
## f.22000.0.0-11            1.975e-02  3.903e-02   0.506 0.612781
## f.22000.0.012             3.769e-02  3.876e-02   0.973 0.330798
## f.22000.0.013            -4.529e-03  3.863e-02  -0.117 0.906673
## f.22000.0.014             4.618e-02  3.838e-02   1.203 0.228880
## f.22000.0.015             3.541e-02  3.869e-02   0.915 0.360039
## f.22000.0.016             4.881e-02  3.886e-02   1.256 0.209145
## f.22000.0.017             4.126e-02  3.847e-02   1.073 0.283426
## f.22000.0.018            -3.450e-02  3.888e-02  -0.887 0.374815
## f.22000.0.019             5.965e-03  3.815e-02   0.156 0.875752
## f.22000.0.02             -3.750e-04  3.826e-02  -0.010 0.992178
## f.22000.0.0-2             6.275e-02  3.895e-02   1.611 0.107209
## f.22000.0.020             5.593e-03  3.876e-02   0.144 0.885254
## f.22000.0.021             2.736e-02  3.863e-02   0.708 0.478747
## f.22000.0.022             1.179e-02  3.863e-02   0.305 0.760296
## f.22000.0.023             9.152e-03  3.863e-02   0.237 0.812706
## f.22000.0.024             1.626e-02  3.813e-02   0.426 0.669831
## f.22000.0.025             6.237e-02  3.912e-02   1.594 0.110863
## f.22000.0.026            -2.935e-02  3.892e-02  -0.754 0.450694
## f.22000.0.027             1.499e-02  3.829e-02   0.392 0.695383
## f.22000.0.028            -6.721e-04  3.868e-02  -0.017 0.986138
## f.22000.0.029             1.733e-02  3.837e-02   0.452 0.651461
## f.22000.0.03              9.425e-03  3.831e-02   0.246 0.805643
## f.22000.0.0-3            -2.608e-02  3.852e-02  -0.677 0.498361
## f.22000.0.030            -1.915e-02  3.838e-02  -0.499 0.617834
## f.22000.0.031            -1.384e-02  3.853e-02  -0.359 0.719447
## f.22000.0.032            -2.442e-02  3.864e-02  -0.632 0.527352
## f.22000.0.033             1.553e-02  3.935e-02   0.395 0.693040
## f.22000.0.034             5.916e-03  3.845e-02   0.154 0.877729
## f.22000.0.035             6.703e-02  3.857e-02   1.738 0.082203 .
## f.22000.0.036             9.817e-03  3.829e-02   0.256 0.797639
## f.22000.0.037             4.503e-03  3.886e-02   0.116 0.907731
## f.22000.0.038             4.575e-02  3.871e-02   1.182 0.237175
## f.22000.0.039             2.899e-02  3.914e-02   0.741 0.458829
## f.22000.0.04              2.541e-03  3.900e-02   0.065 0.948044
## f.22000.0.0-4             4.238e-02  3.921e-02   1.081 0.279823
## f.22000.0.040             3.589e-02  3.868e-02   0.928 0.353477
## f.22000.0.041             1.891e-02  3.920e-02   0.482 0.629561
## f.22000.0.042            -4.432e-03  3.850e-02  -0.115 0.908367
## f.22000.0.043            -3.161e-02  3.927e-02  -0.805 0.420835
## f.22000.0.044             7.584e-02  3.892e-02   1.949 0.051315 .
## f.22000.0.045             9.567e-03  3.883e-02   0.246 0.805393
## f.22000.0.046            -1.960e-02  3.902e-02  -0.502 0.615387
## f.22000.0.047             1.928e-03  3.908e-02   0.049 0.960656
## f.22000.0.048             9.529e-04  3.908e-02   0.024 0.980548
## f.22000.0.049             6.659e-02  3.899e-02   1.708 0.087647 .
## f.22000.0.05              2.814e-02  3.837e-02   0.734 0.463242
## f.22000.0.0-5             4.068e-02  3.876e-02   1.050 0.293947
## f.22000.0.050            -1.820e-02  3.903e-02  -0.466 0.641016
## f.22000.0.051             6.971e-02  3.852e-02   1.810 0.070329 .
## f.22000.0.052             3.476e-02  3.926e-02   0.885 0.375988
## f.22000.0.053            -8.515e-04  3.888e-02  -0.022 0.982528
## f.22000.0.054             7.205e-02  3.899e-02   1.848 0.064614 .
## f.22000.0.055             5.638e-02  3.937e-02   1.432 0.152150
## f.22000.0.056             5.182e-02  3.905e-02   1.327 0.184534
## f.22000.0.057             5.292e-02  3.919e-02   1.351 0.176822
## f.22000.0.058             3.963e-02  3.904e-02   1.015 0.309938
## f.22000.0.059             2.240e-02  3.885e-02   0.577 0.564273
## f.22000.0.06              1.014e-02  3.823e-02   0.265 0.790781
## f.22000.0.0-6             2.411e-02  3.912e-02   0.616 0.537701
```

```
## f.22000.0.060              1.688e-02  3.925e-02   0.430 0.667151
## f.22000.0.061              1.875e-02  3.943e-02   0.476 0.634361
## f.22000.0.062              4.133e-02  3.934e-02   1.051 0.293391
## f.22000.0.063              8.802e-03  3.932e-02   0.224 0.822896
## f.22000.0.064             -5.736e-03  3.903e-02  -0.147 0.883166
## f.22000.0.065             -1.964e-03  3.923e-02  -0.050 0.960073
## f.22000.0.066              3.793e-04  3.958e-02   0.010 0.992355
## f.22000.0.067             -1.336e-02  3.921e-02  -0.341 0.733301
## f.22000.0.068             -6.628e-04  3.915e-02  -0.017 0.986495
## f.22000.0.069              1.652e-02  3.926e-02   0.421 0.673982
## f.22000.0.07              -3.488e-02  3.853e-02  -0.905 0.365283
## f.22000.0.0-7              4.951e-02  3.883e-02   1.275 0.202300
## f.22000.0.070             -2.567e-02  3.932e-02  -0.653 0.513906
## f.22000.0.071             -1.484e-02  3.908e-02  -0.380 0.704223
## f.22000.0.072              1.489e-03  3.933e-02   0.038 0.969795
## f.22000.0.073              6.160e-03  3.943e-02   0.156 0.875851
## f.22000.0.074              4.734e-02  3.945e-02   1.200 0.230143
## f.22000.0.075              6.571e-02  3.908e-02   1.681 0.092696 .
## f.22000.0.076              6.197e-02  3.946e-02   1.570 0.116307
## f.22000.0.077              3.847e-02  3.927e-02   0.980 0.327298
## f.22000.0.078             -2.449e-02  3.914e-02  -0.626 0.531493
## f.22000.0.079             -7.137e-04  3.894e-02  -0.018 0.985376
## f.22000.0.08              -1.860e-03  3.844e-02  -0.048 0.961411
## f.22000.0.0-8              9.926e-03  3.908e-02   0.254 0.799511
## f.22000.0.080              6.531e-02  3.943e-02   1.656 0.097709 .
## f.22000.0.081              3.146e-03  3.990e-02   0.079 0.937151
## f.22000.0.082             -1.062e-02  3.942e-02  -0.269 0.787655
## f.22000.0.083              2.428e-02  3.944e-02   0.616 0.538140
## f.22000.0.084              1.921e-02  3.945e-02   0.487 0.626298
## f.22000.0.085              1.450e-02  3.931e-02   0.369 0.712115
## f.22000.0.086             -1.300e-02  3.941e-02  -0.330 0.741441
## f.22000.0.087              5.470e-02  3.937e-02   1.389 0.164701
## f.22000.0.088              1.825e-02  4.015e-02   0.455 0.649468
## f.22000.0.089              2.018e-03  3.982e-02   0.051 0.959582
## f.22000.0.09              -2.173e-02  3.823e-02  -0.568 0.569771
## f.22000.0.0-9              3.575e-02  3.912e-02   0.914 0.360798
## f.22000.0.090              5.708e-03  3.945e-02   0.145 0.884973
## f.22000.0.091             -4.730e-02  4.071e-02  -1.162 0.245278
## f.22000.0.092              3.501e-02  3.949e-02   0.887 0.375302
## f.22000.0.093              2.483e-02  3.946e-02   0.629 0.529165
## f.22000.0.094             -4.254e-03  5.047e-02  -0.084 0.932830
## f.22000.0.095             -6.281e-03  4.210e-02  -0.149 0.881405
## `0.750000`:childtraumasum  7.475e-03  2.758e-03   2.711 0.006716 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9411 on 117819 degrees of freedom
##   (1917 observations deleted due to missingness)
## Multiple R-squared:  0.1144, Adjusted R-squared:  0.1134
## F-statistic: 117.1 on 130 and 117819 DF,  p-value: < 2.2e-16
```

```
cat("\n")
```

```
summary(lm(selfharmscore ~  `0.750000`*childtraumasum + f.22001.0.0  + f.22009.0.1 + f.22009.0.2 + f.22009.0
.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.2
2009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.2200
9.0.18 + f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.750000` * childtraumasum + f.22001.0.0 +
##     f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 +
##     f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.0612 -0.5650 -0.3408  0.4334  4.3656
```

```
##
## Coefficients:
##                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)             -3.766e+01  7.101e-01 -53.031  < 2e-16 ***
## `0.750000`               2.729e-02  2.747e-03   9.934  < 2e-16 ***
## childtraumasum           2.838e-01  2.776e-03 102.251  < 2e-16 ***
## f.22001.0.01            -1.297e-01  5.544e-03 -23.390  < 2e-16 ***
## f.22009.0.1              8.992e-03  2.902e-03   3.098 0.001946 **
## f.22009.0.2             -1.448e-03  2.793e-03  -0.518 0.604234
## f.22009.0.3             -2.339e-03  2.865e-03  -0.816 0.414347
## f.22009.0.4             -8.484e-03  4.010e-03  -2.116 0.034355 *
## f.22009.0.5             -6.922e-03  3.894e-03  -1.778 0.075431 .
## f.22009.0.6              2.900e-04  2.835e-03   0.102 0.918528
## f.22009.0.7             -6.605e-03  2.906e-03  -2.273 0.023008 *
## f.22009.0.8              4.514e-03  3.063e-03   1.474 0.140567
## f.22009.0.9             -1.101e-02  2.923e-03  -3.768 0.000165 ***
## f.22009.0.10             4.084e-03  3.393e-03   1.204 0.228690
## f.22009.0.11            -4.497e-03  3.946e-03  -1.140 0.254467
## f.22009.0.12             4.195e-03  3.466e-03   1.210 0.226184
## f.22009.0.13            -1.721e-03  2.789e-03  -0.617 0.537093
## f.22009.0.14            -5.250e-03  2.949e-03  -1.780 0.075010 .
## f.22009.0.15            -1.638e-03  3.021e-03  -0.542 0.587766
## f.22009.0.16            -5.061e-03  2.959e-03  -1.710 0.087235 .
## f.22009.0.17             1.708e-03  2.749e-03   0.621 0.534276
## f.22009.0.18            -2.554e-03  2.756e-03  -0.927 0.353925
## f.22009.0.19             2.867e-03  2.743e-03   1.045 0.296022
## f.22009.0.20             1.547e-03  2.748e-03   0.563 0.573489
## f.34.0.0                 1.932e-02  3.634e-04  53.165  < 2e-16 ***
## f.22000.0.0-1            1.894e-03  3.879e-02   0.049 0.961061
## f.22000.0.010           -1.963e-02  3.914e-02  -0.502 0.615998
## f.22000.0.0-10           7.170e-02  3.937e-02   1.821 0.068554 .
## f.22000.0.011            6.423e-02  3.850e-02   1.668 0.095262 .
## f.22000.0.0-11           1.481e-03  3.905e-02   0.038 0.969746
## f.22000.0.012            7.932e-03  3.880e-02   0.204 0.838015
## f.22000.0.013           -1.651e-02  3.863e-02  -0.428 0.668976
## f.22000.0.014            1.604e-02  3.840e-02   0.418 0.676250
## f.22000.0.015            2.832e-02  3.869e-02   0.732 0.464229
## f.22000.0.016            3.827e-02  3.886e-02   0.985 0.324769
## f.22000.0.017            1.970e-02  3.848e-02   0.512 0.608685
## f.22000.0.018           -4.116e-02  3.888e-02  -1.059 0.289718
## f.22000.0.019           -5.811e-03  3.816e-02  -0.152 0.878942
## f.22000.0.02            -2.054e-02  3.827e-02  -0.537 0.591409
## f.22000.0.0-2            6.262e-02  3.897e-02   1.607 0.108063
## f.22000.0.020           -9.129e-03  3.877e-02  -0.235 0.813862
## f.22000.0.021            3.749e-02  3.864e-02   0.970 0.331910
## f.22000.0.022           -5.599e-03  3.864e-02  -0.145 0.884774
## f.22000.0.023           -1.085e-02  3.866e-02  -0.281 0.778973
## f.22000.0.024            1.291e-02  3.814e-02   0.338 0.735048
## f.22000.0.025            3.700e-02  3.914e-02   0.945 0.344499
## f.22000.0.026           -4.237e-02  3.893e-02  -1.088 0.276484
## f.22000.0.027           -4.067e-03  3.830e-02  -0.106 0.915425
## f.22000.0.028           -2.201e-03  3.871e-02  -0.057 0.954663
## f.22000.0.029           -4.997e-03  3.839e-02  -0.130 0.896434
## f.22000.0.03             2.190e-03  3.833e-02   0.057 0.954442
## f.22000.0.0-3           -1.732e-02  3.853e-02  -0.449 0.653123
## f.22000.0.030           -2.421e-02  3.839e-02  -0.630 0.528383
## f.22000.0.031           -3.211e-02  3.854e-02  -0.833 0.404759
## f.22000.0.032           -2.534e-02  3.864e-02  -0.656 0.512075
## f.22000.0.033           -2.400e-03  3.935e-02  -0.061 0.951372
## f.22000.0.034            1.345e-02  3.845e-02   0.350 0.726481
## f.22000.0.035            5.256e-02  3.861e-02   1.361 0.173407
## f.22000.0.036            2.805e-03  3.830e-02   0.073 0.941606
## f.22000.0.037           -9.944e-03  3.886e-02  -0.256 0.798044
## f.22000.0.038            2.935e-02  3.871e-02   0.758 0.448403
## f.22000.0.039            1.472e-02  3.913e-02   0.376 0.706806
## f.22000.0.04            -9.436e-04  3.900e-02  -0.024 0.980697
## f.22000.0.0-4            2.322e-02  3.921e-02   0.592 0.553724
## f.22000.0.040            5.257e-04  3.871e-02   0.014 0.989163
## f.22000.0.041            8.852e-03  3.921e-02   0.226 0.821393
## f.22000.0.042           -2.459e-02  3.853e-02  -0.638 0.523225
## f.22000.0.043           -2.956e-02  3.927e-02  -0.753 0.451596
## f.22000.0.044            6.711e-02  3.892e-02   1.724 0.084708 .
## f.22000.0.045           -4.613e-04  3.883e-02  -0.012 0.990521
```

```
## f.22000.0.046             -3.592e-02  3.902e-02  -0.921 0.357223
## f.22000.0.047             -8.180e-03  3.910e-02  -0.209 0.834272
## f.22000.0.048             -2.101e-02  3.909e-02  -0.538 0.590868
## f.22000.0.049              5.474e-02  3.899e-02   1.404 0.160343
## f.22000.0.05               1.086e-02  3.838e-02   0.283 0.777284
## f.22000.0.0-5              5.093e-02  3.878e-02   1.313 0.189141
## f.22000.0.050             -1.653e-02  3.902e-02  -0.423 0.671949
## f.22000.0.051              6.845e-02  3.854e-02   1.776 0.075665 .
## f.22000.0.052              1.148e-02  3.928e-02   0.292 0.770046
## f.22000.0.053             -3.710e-03  3.892e-02  -0.095 0.924075
## f.22000.0.054              6.252e-02  3.899e-02   1.604 0.108800
## f.22000.0.055              5.418e-02  3.939e-02   1.375 0.168991
## f.22000.0.056              4.690e-02  3.906e-02   1.201 0.229848
## f.22000.0.057              4.873e-02  3.919e-02   1.243 0.213726
## f.22000.0.058              2.527e-02  3.905e-02   0.647 0.517499
## f.22000.0.059              6.267e-03  3.888e-02   0.161 0.871943
## f.22000.0.06               1.120e-02  3.823e-02   0.293 0.769505
## f.22000.0.0-6              2.600e-02  3.912e-02   0.665 0.506190
## f.22000.0.060             -1.668e-02  3.927e-02  -0.425 0.670921
## f.22000.0.061              1.351e-03  3.943e-02   0.034 0.972667
## f.22000.0.062              3.082e-02  3.934e-02   0.783 0.433435
## f.22000.0.063             -5.526e-03  3.933e-02  -0.140 0.888277
## f.22000.0.064             -1.614e-02  3.904e-02  -0.414 0.679224
## f.22000.0.065             -1.732e-02  3.924e-02  -0.441 0.658965
## f.22000.0.066             -1.071e-02  3.959e-02  -0.270 0.786789
## f.22000.0.067             -1.881e-02  3.922e-02  -0.480 0.631509
## f.22000.0.068             -4.343e-03  3.917e-02  -0.111 0.911724
## f.22000.0.069             -3.247e-03  3.927e-02  -0.083 0.934087
## f.22000.0.07              -4.312e-02  3.854e-02  -1.119 0.263190
## f.22000.0.0-7              4.431e-02  3.885e-02   1.141 0.253966
## f.22000.0.070             -2.846e-02  3.933e-02  -0.724 0.469307
## f.22000.0.071             -4.978e-03  3.908e-02  -0.127 0.898652
## f.22000.0.072             -6.764e-03  3.934e-02  -0.172 0.863462
## f.22000.0.073             -5.924e-03  3.944e-02  -0.150 0.880608
## f.22000.0.074              4.261e-02  3.947e-02   1.080 0.280315
## f.22000.0.075              5.562e-02  3.910e-02   1.422 0.154894
## f.22000.0.076              4.782e-02  3.947e-02   1.212 0.225654
## f.22000.0.077              2.349e-02  3.930e-02   0.598 0.550003
## f.22000.0.078             -3.659e-02  3.916e-02  -0.935 0.350026
## f.22000.0.079             -7.270e-03  3.898e-02  -0.187 0.852049
## f.22000.0.08              -1.259e-02  3.845e-02  -0.327 0.743410
## f.22000.0.0-8              8.264e-03  3.913e-02   0.211 0.832717
## f.22000.0.080              3.611e-02  3.947e-02   0.915 0.360337
## f.22000.0.081              3.157e-03  3.991e-02   0.079 0.936956
## f.22000.0.082             -3.089e-02  3.942e-02  -0.784 0.433253
## f.22000.0.083              4.586e-03  3.945e-02   0.116 0.907472
## f.22000.0.084              1.492e-02  3.946e-02   0.378 0.705319
## f.22000.0.085              1.946e-02  3.932e-02   0.495 0.620676
## f.22000.0.086             -2.213e-02  3.943e-02  -0.561 0.574604
## f.22000.0.087              6.373e-02  3.938e-02   1.618 0.105615
## f.22000.0.088              1.255e-02  4.016e-02   0.312 0.754744
## f.22000.0.089             -4.177e-03  3.982e-02  -0.105 0.916460
## f.22000.0.09              -9.642e-03  3.823e-02  -0.252 0.800883
## f.22000.0.0-9              4.694e-02  3.915e-02   1.199 0.230448
## f.22000.0.090             -7.683e-03  3.945e-02  -0.195 0.845603
## f.22000.0.091             -4.183e-02  4.075e-02  -1.027 0.304600
## f.22000.0.092              1.947e-02  3.950e-02   0.493 0.622107
## f.22000.0.093              2.411e-03  3.948e-02   0.061 0.951306
## f.22000.0.094             -1.031e-03  5.046e-02  -0.020 0.983698
## f.22000.0.095             -1.705e-02  4.210e-02  -0.405 0.685472
## `0.750000`:childtraumasum  8.376e-03  2.762e-03   3.033 0.002425 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.941 on 117661 degrees of freedom
##   (2075 observations deleted due to missingness)
## Multiple R-squared:  0.1147, Adjusted R-squared:  0.1137
## F-statistic: 117.3 on 130 and 117661 DF,  p-value: < 2.2e-16
```

Lets check if mediating variables are associated with SSBI

```
setnames( merged, "0.750000", "pgsfive" )

# anxietyscore
summary(lm(selfharmideation ~  anxietyscore + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.
4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.2
2009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ anxietyscore + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.9604 -0.9819 -0.3124  0.7142  5.3112
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.596e+01  1.923e+00 -18.703  < 2e-16 ***
## anxietyscore    3.337e-01  7.423e-03  44.958  < 2e-16 ***
## pgsfive         2.770e-02  7.345e-03   3.771 0.000163 ***
## f.22009.0.1     1.745e-02  7.702e-03   2.266 0.023479 *
## f.22009.0.2    -1.240e-02  7.450e-03  -1.664 0.096163 .
## f.22009.0.3    -9.592e-03  7.606e-03  -1.261 0.207313
## f.22009.0.4    -1.110e-02  1.066e-02  -1.041 0.297903
## f.22009.0.5    -5.265e-03  1.028e-02  -0.512 0.608651
## f.22009.0.6     1.213e-02  7.554e-03   1.606 0.108369
## f.22009.0.7    -1.160e-02  7.642e-03  -1.517 0.129220
## f.22009.0.8     7.946e-03  8.172e-03   0.972 0.330907
## f.22009.0.9    -1.542e-02  7.843e-03  -1.966 0.049316 *
## f.22009.0.10    4.375e-03  9.083e-03   0.482 0.629994
## f.22009.0.11   -1.123e-03  1.060e-02  -0.106 0.915575
## f.22009.0.12    1.119e-02  9.193e-03   1.218 0.223314
## f.22009.0.13   -7.652e-03  7.396e-03  -1.035 0.300831
## f.22009.0.14   -1.583e-02  7.923e-03  -1.998 0.045770 *
## f.22009.0.15    3.322e-03  8.067e-03   0.412 0.680482
## f.22009.0.16   -1.726e-02  7.923e-03  -2.179 0.029328 *
## f.22009.0.17    9.508e-04  7.328e-03   0.130 0.896763
## f.22009.0.18   -1.640e-03  7.398e-03  -0.222 0.824586
## f.22009.0.19    4.722e-04  7.335e-03   0.064 0.948668
## f.22009.0.20   -4.977e-03  7.332e-03  -0.679 0.497250
## f.34.0.0        1.866e-02  9.831e-04  18.980  < 2e-16 ***
## f.22000.0.0-1   6.262e-02  1.040e-01   0.602 0.547017
## f.22000.0.010  -4.869e-02  1.046e-01  -0.465 0.641734
## f.22000.0.0-10  1.065e-01  1.037e-01   1.028 0.304146
## f.22000.0.011   9.937e-04  1.004e-01   0.010 0.992100
## f.22000.0.0-11  5.560e-02  1.041e-01   0.534 0.593236
## f.22000.0.012  -1.812e-02  1.025e-01  -0.177 0.859741
## f.22000.0.013  -4.170e-02  1.015e-01  -0.411 0.681324
## f.22000.0.014   2.071e-02  1.007e-01   0.206 0.837108
## f.22000.0.015   3.019e-02  1.022e-01   0.295 0.767724
## f.22000.0.016   5.804e-02  1.015e-01   0.572 0.567312
## f.22000.0.017   1.135e-01  1.043e-01   1.088 0.276604
## f.22000.0.018   2.578e-02  1.024e-01   0.252 0.801279
## f.22000.0.019   9.819e-02  1.020e-01   0.963 0.335488
## f.22000.0.02    8.349e-03  1.003e-01   0.083 0.933668
## f.22000.0.0-2  -3.226e-02  9.980e-02  -0.323 0.746547
## f.22000.0.020  -8.881e-03  1.011e-01  -0.088 0.929981
## f.22000.0.021   6.948e-02  1.021e-01   0.681 0.495978
## f.22000.0.022  -6.415e-02  1.019e-01  -0.629 0.529103
## f.22000.0.023   7.097e-02  1.015e-01   0.700 0.484243
## f.22000.0.024  -2.809e-02  1.011e-01  -0.278 0.781071
## f.22000.0.025   9.460e-03  1.039e-01   0.091 0.927447
## f.22000.0.026  -8.590e-02  1.031e-01  -0.833 0.404837
## f.22000.0.027  -3.653e-02  1.016e-01  -0.359 0.719302
## f.22000.0.028  -3.265e-04  1.005e-01  -0.003 0.997407
```

```
## f.22000.0.028  -5.265e-04  1.005e-01  -0.005 0.995407
## f.22000.0.029  -1.201e-01  9.954e-02  -1.207 0.227544
## f.22000.0.03    1.978e-02  1.029e-01   0.192 0.847645
## f.22000.0.0-3   1.775e-02  1.031e-01   0.172 0.863339
## f.22000.0.030  -1.132e-01  1.002e-01  -1.130 0.258433
## f.22000.0.031  -5.825e-02  9.979e-02  -0.584 0.559384
## f.22000.0.032  -5.134e-02  1.021e-01  -0.503 0.615123
## f.22000.0.033   4.665e-02  1.037e-01   0.450 0.652730
## f.22000.0.034   5.078e-02  1.016e-01   0.500 0.617072
## f.22000.0.035   2.294e-02  1.022e-01   0.224 0.822432
## f.22000.0.036  -1.732e-02  1.034e-01  -0.167 0.867045
## f.22000.0.037  -1.116e-01  1.058e-01  -1.055 0.291588
## f.22000.0.038   2.019e-01  1.033e-01   1.954 0.050757 .
## f.22000.0.039  -9.328e-04  1.022e-01  -0.009 0.992720
## f.22000.0.04   -2.152e-02  1.044e-01  -0.206 0.836716
## f.22000.0.0-4   1.464e-01  1.044e-01   1.402 0.161019
## f.22000.0.040   3.112e-02  1.015e-01   0.307 0.759056
## f.22000.0.041  -2.838e-02  1.040e-01  -0.273 0.784878
## f.22000.0.042   1.657e-02  1.019e-01   0.163 0.870866
## f.22000.0.043  -4.125e-02  1.052e-01  -0.392 0.695089
## f.22000.0.044   3.417e-02  1.001e-01   0.341 0.732878
## f.22000.0.045  -1.212e-02  1.036e-01  -0.117 0.906888
## f.22000.0.046  -4.494e-02  1.032e-01  -0.435 0.663323
## f.22000.0.047  -1.012e-01  1.021e-01  -0.991 0.321781
## f.22000.0.048   2.589e-02  1.019e-01   0.254 0.799539
## f.22000.0.049   5.519e-03  1.027e-01   0.054 0.957151
## f.22000.0.05    7.265e-02  1.006e-01   0.722 0.470357
## f.22000.0.0-5  -5.152e-02  1.028e-01  -0.501 0.616317
## f.22000.0.050   1.308e-03  1.058e-01   0.012 0.990143
## f.22000.0.051   1.589e-01  1.017e-01   1.563 0.118142
## f.22000.0.052  -1.127e-02  1.032e-01  -0.109 0.913081
## f.22000.0.053   3.289e-02  1.055e-01   0.312 0.755153
## f.22000.0.054   3.600e-02  1.022e-01   0.352 0.724714
## f.22000.0.055   1.690e-01  1.016e-01   1.662 0.096448 .
## f.22000.0.056   2.150e-02  1.044e-01   0.206 0.836877
## f.22000.0.057   7.653e-02  1.008e-01   0.759 0.447857
## f.22000.0.058   4.449e-02  1.039e-01   0.428 0.668411
## f.22000.0.059   3.010e-02  1.045e-01   0.288 0.773407
## f.22000.0.06   -8.945e-02  9.996e-02  -0.895 0.370876
## f.22000.0.0-6  -1.354e-03  1.016e-01  -0.013 0.989367
## f.22000.0.060  -5.391e-02  1.005e-01  -0.537 0.591565
## f.22000.0.061   8.482e-02  1.040e-01   0.815 0.414795
## f.22000.0.062   1.311e-01  1.051e-01   1.247 0.212328
## f.22000.0.063  -9.334e-03  1.045e-01  -0.089 0.928845
## f.22000.0.064  -1.625e-01  1.024e-01  -1.586 0.112673
## f.22000.0.065   2.576e-02  1.038e-01   0.248 0.803981
## f.22000.0.066  -3.304e-02  1.042e-01  -0.317 0.751159
## f.22000.0.067  -9.206e-02  1.032e-01  -0.892 0.372587
## f.22000.0.068  -2.670e-02  1.017e-01  -0.263 0.792923
## f.22000.0.069   3.256e-03  1.016e-01   0.032 0.974424
## f.22000.0.07   -8.463e-02  9.969e-02  -0.849 0.395909
## f.22000.0.0-7   3.747e-02  1.030e-01   0.364 0.716093
## f.22000.0.070   1.913e-02  1.045e-01   0.183 0.854807
## f.22000.0.071  -8.175e-02  1.031e-01  -0.793 0.427893
## f.22000.0.072   1.335e-01  1.039e-01   1.285 0.198640
## f.22000.0.073  -2.769e-02  1.055e-01  -0.263 0.792889
## f.22000.0.074  -7.786e-03  1.039e-01  -0.075 0.940252
## f.22000.0.075   2.080e-01  1.019e-01   2.041 0.041263 *
## f.22000.0.076   3.412e-02  1.049e-01   0.325 0.744957
## f.22000.0.077   4.278e-02  1.061e-01   0.403 0.686696
## f.22000.0.078  -1.174e-01  1.029e-01  -1.140 0.254142
## f.22000.0.079  -1.223e-01  1.015e-01  -1.204 0.228520
## f.22000.0.08   -4.551e-02  1.028e-01  -0.443 0.658089
## f.22000.0.0-8   1.106e-01  1.030e-01   1.073 0.283160
## f.22000.0.080   6.883e-02  1.020e-01   0.675 0.499931
## f.22000.0.081  -8.564e-02  1.043e-01  -0.821 0.411587
## f.22000.0.082  -4.753e-02  1.058e-01  -0.449 0.653302
## f.22000.0.083  -1.125e-01  1.040e-01  -1.082 0.279382
## f.22000.0.084   1.209e-02  1.016e-01   0.119 0.905337
## f.22000.0.085   7.456e-02  1.042e-01   0.716 0.474264
## f.22000.0.086  -4.235e-02  1.025e-01  -0.413 0.679609
## f.22000.0.087   1.013e-02  1.041e-01   0.097 0.922496
## f.22000.0.088  -5.131e-02  1.057e-01  -0.485 0.627404
```

```
## f.22000.0.089   3.248e-02  1.044e-01   0.311 0.755817
## f.22000.0.09    1.304e-01  1.029e-01   1.267 0.205033
## f.22000.0.0-9   6.969e-02  1.010e-01   0.690 0.490155
## f.22000.0.090   3.218e-03  1.037e-01   0.031 0.975235
## f.22000.0.091  -3.670e-02  1.074e-01  -0.342 0.732475
## f.22000.0.092   1.301e-02  1.051e-01   0.124 0.901475
## f.22000.0.093  -5.181e-02  1.067e-01  -0.486 0.627294
## f.22000.0.094   5.035e-04  1.374e-01   0.004 0.997075
## f.22000.0.095   3.552e-02  1.124e-01   0.316 0.751953
## f.22001.0.01    7.031e-02  1.523e-02   4.615 3.94e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.225 on 28101 degrees of freedom
##   (91636 observations deleted due to missingness)
## Multiple R-squared:  0.09223,    Adjusted R-squared:  0.08806
## F-statistic: 22.13 on 129 and 28101 DF,  p-value: < 2.2e-16
```

```
#depressionscore
summary(lm(selfharmideation ~  depressionscore + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009
.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ depressionscore + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.0293 -0.8155 -0.2149  0.5421  4.9160
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)     -2.699e+01  1.453e+00 -18.575  < 2e-16 ***
## depressionscore  5.119e-01  5.700e-03  89.804  < 2e-16 ***
## pgsfive          2.961e-02  5.494e-03   5.390 7.07e-08 ***
## f.22009.0.1      3.196e-03  5.780e-03   0.553   0.5803
## f.22009.0.2     -8.314e-04  5.558e-03  -0.150   0.8811
## f.22009.0.3     -1.139e-03  5.718e-03  -0.199   0.8421
## f.22009.0.4     -1.239e-02  7.959e-03  -1.557   0.1195
## f.22009.0.5     -5.389e-03  7.703e-03  -0.700   0.4842
## f.22009.0.6      1.016e-03  5.666e-03   0.179   0.8576
## f.22009.0.7     -1.094e-02  5.799e-03  -1.886   0.0593 .
## f.22009.0.8      6.989e-03  6.130e-03   1.140   0.2542
## f.22009.0.9     -1.568e-02  5.863e-03  -2.674   0.0075 **
## f.22009.0.10    -2.935e-03  6.805e-03  -0.431   0.6662
## f.22009.0.11    -3.816e-03  7.942e-03  -0.480   0.6309
## f.22009.0.12     1.889e-02  6.900e-03   2.737   0.0062 **
## f.22009.0.13    -5.446e-03  5.566e-03  -0.978   0.3279
## f.22009.0.14    -1.390e-02  5.908e-03  -2.353   0.0186 *
## f.22009.0.15     2.857e-03  6.056e-03   0.472   0.6371
## f.22009.0.16    -9.143e-03  5.976e-03  -1.530   0.1261
## f.22009.0.17     1.866e-03  5.503e-03   0.339   0.7346
## f.22009.0.18    -4.204e-03  5.548e-03  -0.758   0.4486
## f.22009.0.19     6.495e-03  5.482e-03   1.185   0.2361
## f.22009.0.20    -4.346e-03  5.515e-03  -0.788   0.4307
## f.34.0.0         1.399e-02  7.433e-04  18.817  < 2e-16 ***
## f.22000.0.0-1    3.014e-02  7.769e-02   0.388   0.6980
## f.22000.0.010   -1.500e-01  7.811e-02  -1.920   0.0548 .
## f.22000.0.0-10   1.704e-02  7.862e-02   0.217   0.8284
## f.22000.0.011    6.521e-03  7.768e-02   0.084   0.9331
## f.22000.0.0-11   1.317e-02  7.831e-02   0.168   0.8665
## f.22000.0.012   -1.065e-02  7.763e-02  -0.137   0.8909
## f.22000.0.013   -4.488e-02  7.730e-02  -0.581   0.5615
## f.22000.0.014   -1.219e-02  7.753e-02  -0.157   0.8751
```

```
## f.22000.0.014   -1.219e-02  7.753e-02  -0.157   0.8751
## f.22000.0.015    2.953e-02  7.725e-02   0.382   0.7022
## f.22000.0.016    1.698e-02  7.729e-02   0.220   0.8261
## f.22000.0.017   -6.617e-03  7.804e-02  -0.085   0.9324
## f.22000.0.018   -7.867e-02  7.765e-02  -1.013   0.3110
## f.22000.0.019   -1.060e-02  7.651e-02  -0.139   0.8898
## f.22000.0.02    -5.634e-03  7.603e-02  -0.074   0.9409
## f.22000.0.0-2    3.189e-02  7.784e-02   0.410   0.6820
## f.22000.0.020    2.069e-02  7.900e-02   0.262   0.7934
## f.22000.0.021    6.940e-03  7.851e-02   0.088   0.9296
## f.22000.0.022   -7.093e-02  7.873e-02  -0.901   0.3676
## f.22000.0.023    2.075e-02  7.840e-02   0.265   0.7913
## f.22000.0.024    7.434e-03  7.701e-02   0.097   0.9231
## f.22000.0.025    3.449e-02  7.745e-02   0.445   0.6561
## f.22000.0.026   -8.086e-02  7.879e-02  -1.026   0.3048
## f.22000.0.027    2.245e-02  7.715e-02   0.291   0.7711
## f.22000.0.028   -1.774e-02  7.668e-02  -0.231   0.8171
## f.22000.0.029   -8.630e-02  7.715e-02  -1.119   0.2633
## f.22000.0.03    -8.262e-02  7.687e-02  -1.075   0.2825
## f.22000.0.0-3   -9.320e-02  7.769e-02  -1.200   0.2303
## f.22000.0.030   -1.089e-01  7.710e-02  -1.413   0.1577
## f.22000.0.031    3.258e-03  7.825e-02   0.042   0.9668
## f.22000.0.032   -7.096e-02  7.869e-02  -0.902   0.3671
## f.22000.0.033   -4.296e-02  7.958e-02  -0.540   0.5893
## f.22000.0.034    3.296e-02  7.804e-02   0.422   0.6728
## f.22000.0.035   -6.165e-02  7.758e-02  -0.795   0.4269
## f.22000.0.036   -7.316e-02  7.659e-02  -0.955   0.3395
## f.22000.0.037   -9.286e-02  7.880e-02  -1.178   0.2386
## f.22000.0.038    3.974e-02  7.884e-02   0.504   0.6142
## f.22000.0.039   -9.303e-02  7.832e-02  -1.188   0.2349
## f.22000.0.04    -7.201e-02  7.940e-02  -0.907   0.3644
## f.22000.0.0-4   -3.183e-02  7.748e-02  -0.411   0.6813
## f.22000.0.040    5.056e-03  7.774e-02   0.065   0.9481
## f.22000.0.041    4.365e-02  7.879e-02   0.554   0.5796
## f.22000.0.042    4.299e-03  8.012e-02   0.054   0.9572
## f.22000.0.043   -4.556e-02  7.885e-02  -0.578   0.5633
## f.22000.0.044    6.535e-02  7.842e-02   0.833   0.4047
## f.22000.0.045    3.661e-04  7.863e-02   0.005   0.9963
## f.22000.0.046   -3.021e-02  8.088e-02  -0.374   0.7088
## f.22000.0.047   -8.553e-02  7.861e-02  -1.088   0.2766
## f.22000.0.048   -2.677e-02  7.769e-02  -0.345   0.7304
## f.22000.0.049   -2.376e-02  7.799e-02  -0.305   0.7606
## f.22000.0.05     3.366e-02  7.783e-02   0.433   0.6654
## f.22000.0.0-5   -8.308e-03  7.683e-02  -0.108   0.9139
## f.22000.0.050   -4.970e-02  7.929e-02  -0.627   0.5308
## f.22000.0.051    5.670e-02  7.798e-02   0.727   0.4671
## f.22000.0.052    7.108e-02  7.976e-02   0.891   0.3728
## f.22000.0.053    1.411e-02  7.964e-02   0.177   0.8594
## f.22000.0.054    5.437e-02  7.800e-02   0.697   0.4858
## f.22000.0.055    4.058e-02  7.774e-02   0.522   0.6017
## f.22000.0.056    2.698e-02  8.070e-02   0.334   0.7381
## f.22000.0.057   -3.081e-03  7.764e-02  -0.040   0.9683
## f.22000.0.058    6.866e-02  7.936e-02   0.865   0.3870
## f.22000.0.059    6.050e-03  7.889e-02   0.077   0.9389
## f.22000.0.06    -5.528e-02  7.647e-02  -0.723   0.4698
## f.22000.0.0-6   -2.349e-02  7.683e-02  -0.306   0.7598
## f.22000.0.060   -1.046e-01  7.878e-02  -1.328   0.1841
## f.22000.0.061   -6.220e-02  7.857e-02  -0.792   0.4286
## f.22000.0.062    5.737e-03  8.026e-02   0.071   0.9430
## f.22000.0.063   -8.638e-02  7.851e-02  -1.100   0.2712
## f.22000.0.064   -7.687e-02  7.857e-02  -0.978   0.3279
## f.22000.0.065   -7.489e-02  7.964e-02  -0.940   0.3471
## f.22000.0.066   -3.209e-02  7.923e-02  -0.405   0.6854
## f.22000.0.067   -6.093e-02  7.941e-02  -0.767   0.4429
## f.22000.0.068   -6.422e-02  7.912e-02  -0.812   0.4170
## f.22000.0.069   -8.068e-02  8.031e-02  -1.005   0.3151
## f.22000.0.07    -1.357e-01  7.565e-02  -1.794   0.0728 .
## f.22000.0.0-7   -6.776e-02  7.819e-02  -0.867   0.3862
## f.22000.0.070   -1.063e-01  7.918e-02  -1.342   0.1795
## f.22000.0.071   -3.426e-02  7.830e-02  -0.438   0.6617
## f.22000.0.072   -1.795e-02  7.884e-02  -0.228   0.8199
## f.22000.0.073   -5.860e-02  7.836e-02  -0.748   0.4546
## f.22000.0.074   -6.973e-02  7.889e-02  -0.884   0.3768
```

```
## f.22000.0.075    3.588e-02  8.044e-02   0.446   0.6555
## f.22000.0.076    3.383e-02  7.940e-02   0.426   0.6701
## f.22000.0.077   -9.319e-03  7.928e-02  -0.118   0.9064
## f.22000.0.078   -9.340e-02  7.917e-02  -1.180   0.2381
## f.22000.0.079   -1.188e-01  7.758e-02  -1.532   0.1256
## f.22000.0.08    -4.407e-02  7.768e-02  -0.567   0.5705
## f.22000.0.0-8   -1.063e-03  7.878e-02  -0.013   0.9892
## f.22000.0.080    4.854e-02  7.988e-02   0.608   0.5434
## f.22000.0.081   -1.078e-03  8.102e-02  -0.013   0.9894
## f.22000.0.082   -4.711e-02  8.024e-02  -0.587   0.5572
## f.22000.0.083   -1.031e-01  7.895e-02  -1.306   0.1914
## f.22000.0.084   -5.154e-02  7.958e-02  -0.648   0.5172
## f.22000.0.085   -3.881e-02  7.879e-02  -0.493   0.6223
## f.22000.0.086   -2.941e-02  7.964e-02  -0.369   0.7119
## f.22000.0.087   -1.233e-02  7.994e-02  -0.154   0.8774
## f.22000.0.088   -2.346e-02  8.135e-02  -0.288   0.7730
## f.22000.0.089   -3.881e-02  8.076e-02  -0.481   0.6308
## f.22000.0.09    -7.458e-02  7.675e-02  -0.972   0.3312
## f.22000.0.0-9   -7.598e-02  7.763e-02  -0.979   0.3277
## f.22000.0.090   -2.806e-02  7.918e-02  -0.354   0.7230
## f.22000.0.091   -7.507e-02  8.301e-02  -0.904   0.3658
## f.22000.0.092   -2.233e-02  7.952e-02  -0.281   0.7788
## f.22000.0.093   -3.520e-02  7.970e-02  -0.442   0.6587
## f.22000.0.094    2.688e-02  1.009e-01   0.266   0.7900
## f.22000.0.095   -4.269e-02  8.647e-02  -0.494   0.6215
## f.22001.0.01     1.888e-01  1.161e-02  16.263  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.089 on 39421 degrees of freedom
##   (80316 observations deleted due to missingness)
## Multiple R-squared:  0.1964, Adjusted R-squared:  0.1938
## F-statistic: 74.71 on 129 and 39421 DF,  p-value: < 2.2e-16
```

```
# friendship satisfaction
summary(lm(selfharmideation ~  friendship + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4
+ f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.220
09.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ friendship + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.7046 -0.5971 -0.3846  0.2702  5.1818
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.854e+01  1.059e+00 -36.407  < 2e-16 ***
## friendship      1.376e-01  4.133e-03  33.301  < 2e-16 ***
## pgsfive         3.021e-02  4.120e-03   7.332 2.29e-13 ***
## f.22009.0.1     6.346e-03  4.333e-03   1.465   0.1430
## f.22009.0.2     1.369e-03  4.173e-03   0.328   0.7428
## f.22009.0.3    -5.678e-03  4.300e-03  -1.321   0.1866
## f.22009.0.4    -1.146e-02  6.001e-03  -1.910   0.0561 .
## f.22009.0.5     7.797e-03  5.903e-03   1.321   0.1866
## f.22009.0.6     1.335e-03  4.251e-03   0.314   0.7535
## f.22009.0.7    -6.039e-03  4.329e-03  -1.395   0.1630
## f.22009.0.8     6.101e-03  4.566e-03   1.336   0.1815
## f.22009.0.9    -9.888e-03  4.503e-03  -2.196   0.0281 *
## f.22009.0.10    6.230e-04  5.072e-03   0.123   0.9022
## f.22009.0.11    4.349e-03  5.969e-03   0.729   0.4663
## f.22009.0.12    4.979e-03  5.200e-03   0.957   0.3383
## f.22009.0.13   -6.014e-03  4.186e-03  -1.437   0.1508
```

```
## f.22009.0.13   -6.014e-03  4.186e-03  -1.437   0.1508
## f.22009.0.14   -1.156e-02  4.538e-03  -2.547   0.0109 *
## f.22009.0.15   -5.735e-04  4.523e-03  -0.127   0.8991
## f.22009.0.16   -4.101e-03  4.469e-03  -0.918   0.3588
## f.22009.0.17   -8.318e-04  4.141e-03  -0.201   0.8408
## f.22009.0.18   -4.503e-04  4.249e-03  -0.106   0.9156
## f.22009.0.19   -6.043e-05  4.103e-03  -0.015   0.9883
## f.22009.0.20   -1.547e-03  4.137e-03  -0.374   0.7085
## f.34.0.0        1.975e-02  5.416e-04  36.465  < 2e-16 ***
## f.22000.0.0-1  -2.062e-02  5.834e-02  -0.353   0.7237
## f.22000.0.010   5.115e-02  5.816e-02   0.879   0.3791
## f.22000.0.0-10  4.609e-02  5.797e-02   0.795   0.4266
## f.22000.0.011   2.817e-02  5.667e-02   0.497   0.6191
## f.22000.0.0-11  1.195e-01  5.773e-02   2.071   0.0384 *
## f.22000.0.012   8.282e-02  5.938e-02   1.395   0.1631
## f.22000.0.013   3.727e-02  5.724e-02   0.651   0.5150
## f.22000.0.014   8.596e-04  5.603e-02   0.015   0.9878
## f.22000.0.015   9.446e-02  5.743e-02   1.645   0.1000
## f.22000.0.016   9.351e-02  5.746e-02   1.627   0.1037
## f.22000.0.017   1.044e-01  5.810e-02   1.798   0.0722 .
## f.22000.0.018   1.441e-02  5.825e-02   0.247   0.8046
## f.22000.0.019   8.714e-02  5.692e-02   1.531   0.1258
## f.22000.0.02    4.573e-02  5.722e-02   0.799   0.4242
## f.22000.0.0-2   1.081e-01  5.830e-02   1.855   0.0636 .
## f.22000.0.020   4.499e-02  5.852e-02   0.769   0.4420
## f.22000.0.021   4.047e-02  5.741e-02   0.705   0.4808
## f.22000.0.022   5.581e-02  5.840e-02   0.956   0.3392
## f.22000.0.023   7.108e-02  5.612e-02   1.267   0.2053
## f.22000.0.024   2.797e-02  5.702e-02   0.491   0.6237
## f.22000.0.025   9.806e-02  5.813e-02   1.687   0.0916 .
## f.22000.0.026   2.293e-03  5.807e-02   0.039   0.9685
## f.22000.0.027   4.275e-02  5.719e-02   0.747   0.4548
## f.22000.0.028   3.198e-02  5.828e-02   0.549   0.5833
## f.22000.0.029   6.153e-02  5.858e-02   1.050   0.2935
## f.22000.0.03    4.371e-02  5.617e-02   0.778   0.4365
## f.22000.0.0-3   3.184e-02  5.671e-02   0.561   0.5745
## f.22000.0.030   1.280e-02  5.749e-02   0.223   0.8238
## f.22000.0.031   1.423e-02  5.741e-02   0.248   0.8042
## f.22000.0.032   7.187e-02  5.635e-02   1.275   0.2021
## f.22000.0.033   3.131e-02  5.864e-02   0.534   0.5934
## f.22000.0.034   5.376e-02  5.686e-02   0.946   0.3444
## f.22000.0.035   8.023e-02  5.732e-02   1.400   0.1616
## f.22000.0.036   1.123e-01  5.640e-02   1.991   0.0465 *
## f.22000.0.037   3.520e-02  5.837e-02   0.603   0.5464
## f.22000.0.038   1.081e-01  5.666e-02   1.908   0.0564 .
## f.22000.0.039   1.609e-02  5.858e-02   0.275   0.7836
## f.22000.0.04    3.760e-03  5.805e-02   0.065   0.9484
## f.22000.0.0-4   1.187e-01  5.828e-02   2.036   0.0417 *
## f.22000.0.040   4.420e-02  5.689e-02   0.777   0.4372
## f.22000.0.041   6.464e-02  5.896e-02   1.096   0.2729
## f.22000.0.042   6.148e-02  5.580e-02   1.102   0.2706
## f.22000.0.043   3.320e-02  5.928e-02   0.560   0.5754
## f.22000.0.044   7.900e-02  5.711e-02   1.383   0.1666
## f.22000.0.045   7.066e-02  5.802e-02   1.218   0.2233
## f.22000.0.046  -1.657e-02  5.879e-02  -0.282   0.7781
## f.22000.0.047  -3.712e-03  5.793e-02  -0.064   0.9489
## f.22000.0.048   1.867e-02  5.813e-02   0.321   0.7480
## f.22000.0.049   6.052e-02  5.802e-02   1.043   0.2968
## f.22000.0.05    8.719e-02  5.578e-02   1.563   0.1180
## f.22000.0.0-5   7.494e-02  5.771e-02   1.299   0.1941
## f.22000.0.050   3.338e-02  5.707e-02   0.585   0.5586
## f.22000.0.051   1.352e-01  5.664e-02   2.387   0.0170 *
## f.22000.0.052   3.193e-02  5.730e-02   0.557   0.5773
## f.22000.0.053  -2.300e-02  5.735e-02  -0.401   0.6883
## f.22000.0.054   7.353e-02  5.825e-02   1.262   0.2068
## f.22000.0.055   6.988e-02  5.785e-02   1.208   0.2271
## f.22000.0.056   1.068e-01  5.935e-02   1.799   0.0720 .
## f.22000.0.057   9.334e-02  5.975e-02   1.562   0.1182
## f.22000.0.058   1.152e-01  5.834e-02   1.975   0.0483 *
## f.22000.0.059   8.397e-02  5.714e-02   1.470   0.1417
## f.22000.0.06    4.828e-02  5.702e-02   0.847   0.3972
## f.22000.0.0-6   7.568e-02  5.696e-02   1.329   0.1840
## f.22000.0.060   6.575e-02  5.807e-02   1.132   0.2576
```

```
## f.22000.0.061   1.189e-01  6.044e-02   1.967   0.0492 *
## f.22000.0.062   9.498e-02  5.802e-02   1.637   0.1016
## f.22000.0.063   4.024e-02  5.784e-02   0.696   0.4866
## f.22000.0.064   4.061e-02  5.793e-02   0.701   0.4833
## f.22000.0.065   4.251e-02  5.843e-02   0.728   0.4669
## f.22000.0.066   3.803e-02  5.893e-02   0.645   0.5187
## f.22000.0.067  -9.487e-03  5.743e-02  -0.165   0.8688
## f.22000.0.068  -3.572e-03  5.925e-02  -0.060   0.9519
## f.22000.0.069   8.400e-02  5.801e-02   1.448   0.1477
## f.22000.0.07    4.358e-02  5.684e-02   0.767   0.4433
## f.22000.0.0-7   7.020e-02  5.779e-02   1.215   0.2245
## f.22000.0.070   1.304e-02  5.979e-02   0.218   0.8274
## f.22000.0.071  -7.592e-03  5.782e-02  -0.131   0.8955
## f.22000.0.072   4.440e-02  5.736e-02   0.774   0.4388
## f.22000.0.073   2.586e-02  5.993e-02   0.432   0.6660
## f.22000.0.074   6.891e-02  5.892e-02   1.170   0.2422
## f.22000.0.075   6.572e-02  5.796e-02   1.134   0.2568
## f.22000.0.076   1.080e-01  5.874e-02   1.838   0.0660 .
## f.22000.0.077   9.304e-02  5.787e-02   1.608   0.1079
## f.22000.0.078   1.265e-02  5.811e-02   0.218   0.8276
## f.22000.0.079   1.516e-02  5.810e-02   0.261   0.7941
## f.22000.0.08    3.140e-02  5.701e-02   0.551   0.5818
## f.22000.0.0-8   8.650e-02  5.771e-02   1.499   0.1339
## f.22000.0.080   1.286e-01  5.868e-02   2.192   0.0284 *
## f.22000.0.081   7.803e-02  5.986e-02   1.304   0.1924
## f.22000.0.082   1.292e-02  5.958e-02   0.217   0.8283
## f.22000.0.083   7.669e-02  6.029e-02   1.272   0.2034
## f.22000.0.084   1.020e-01  5.825e-02   1.752   0.0798 .
## f.22000.0.085   1.072e-02  5.886e-02   0.182   0.8555
## f.22000.0.086   2.738e-02  5.925e-02   0.462   0.6439
## f.22000.0.087   2.608e-02  5.810e-02   0.449   0.6535
## f.22000.0.088   7.323e-03  6.183e-02   0.118   0.9057
## f.22000.0.089   1.079e-01  5.906e-02   1.826   0.0678 .
## f.22000.0.09    2.144e-02  5.743e-02   0.373   0.7089
## f.22000.0.0-9   1.108e-01  5.770e-02   1.920   0.0549 .
## f.22000.0.090   5.469e-02  5.803e-02   0.943   0.3459
## f.22000.0.091  -2.291e-02  5.813e-02  -0.394   0.6935
## f.22000.0.092   6.797e-02  5.662e-02   1.200   0.2300
## f.22000.0.093   1.021e-01  5.822e-02   1.753   0.0796 .
## f.22000.0.094   5.707e-02  7.668e-02   0.744   0.4568
## f.22000.0.095   4.596e-02  6.226e-02   0.738   0.4604
## f.22001.0.01   -1.505e-01  8.335e-03 -18.055  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9766 on 56641 degrees of freedom
##   (63096 observations deleted due to missingness)
## Multiple R-squared:  0.05204,    Adjusted R-squared:  0.04988
## F-statistic:  24.1 on 129 and 56641 DF,  p-value: < 2.2e-16
```

```
# family satisfaction
summary(lm(selfharmideation ~  family + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f
.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0
.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ family + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.6214 -0.5951 -0.3730  0.2667  5.2514
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
```

```
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.791e+01  1.056e+00 -35.888  < 2e-16 ***
## family          1.624e-01  4.109e-03  39.530  < 2e-16 ***
## pgsfive         2.915e-02  4.113e-03   7.088 1.38e-12 ***
## f.22009.0.1     6.036e-03  4.328e-03   1.394  0.16319
## f.22009.0.2     1.098e-03  4.162e-03   0.264  0.79187
## f.22009.0.3    -3.029e-03  4.291e-03  -0.706  0.48028
## f.22009.0.4    -1.118e-02  5.991e-03  -1.867  0.06192 .
## f.22009.0.5     6.324e-03  5.892e-03   1.073  0.28313
## f.22009.0.6     1.786e-03  4.242e-03   0.421  0.67371
## f.22009.0.7    -6.017e-03  4.323e-03  -1.392  0.16395
## f.22009.0.8     5.195e-03  4.559e-03   1.140  0.25445
## f.22009.0.9    -1.137e-02  4.490e-03  -2.533  0.01133 *
## f.22009.0.10    2.068e-04  5.060e-03   0.041  0.96740
## f.22009.0.11    4.213e-03  5.955e-03   0.707  0.47929
## f.22009.0.12    3.707e-03  5.190e-03   0.714  0.47504
## f.22009.0.13   -5.253e-03  4.179e-03  -1.257  0.20871
## f.22009.0.14   -9.902e-03  4.530e-03  -2.186  0.02882 *
## f.22009.0.15    4.623e-04  4.514e-03   0.102  0.91842
## f.22009.0.16   -3.897e-03  4.455e-03  -0.875  0.38172
## f.22009.0.17   -1.181e-03  4.132e-03  -0.286  0.77508
## f.22009.0.18    2.065e-04  4.239e-03   0.049  0.96115
## f.22009.0.19    8.899e-04  4.093e-03   0.217  0.82790
## f.22009.0.20    5.009e-04  4.128e-03   0.121  0.90342
## f.34.0.0        1.942e-02  5.405e-04  35.929  < 2e-16 ***
## f.22000.0.0-1  -9.455e-03  5.822e-02  -0.162  0.87099
## f.22000.0.010   5.462e-02  5.810e-02   0.940  0.34714
## f.22000.0.0-10  4.246e-02  5.784e-02   0.734  0.46295
## f.22000.0.011   3.411e-02  5.652e-02   0.604  0.54616
## f.22000.0.0-11  1.233e-01  5.761e-02   2.140  0.03235 *
## f.22000.0.012   8.497e-02  5.929e-02   1.433  0.15182
## f.22000.0.013   3.461e-02  5.709e-02   0.606  0.54435
## f.22000.0.014   1.063e-02  5.591e-02   0.190  0.84914
## f.22000.0.015   1.087e-01  5.718e-02   1.901  0.05726 .
## f.22000.0.016   9.680e-02  5.720e-02   1.692  0.09061 .
## f.22000.0.017   1.130e-01  5.801e-02   1.948  0.05148 .
## f.22000.0.018   2.387e-02  5.813e-02   0.411  0.68134
## f.22000.0.019   9.219e-02  5.690e-02   1.620  0.10518
## f.22000.0.02    4.174e-02  5.715e-02   0.730  0.46526
## f.22000.0.0-2   1.151e-01  5.824e-02   1.976  0.04813 *
## f.22000.0.020   5.116e-02  5.837e-02   0.877  0.38071
## f.22000.0.021   4.547e-02  5.726e-02   0.794  0.42717
## f.22000.0.022   5.837e-02  5.828e-02   1.002  0.31654
## f.22000.0.023   7.200e-02  5.595e-02   1.287  0.19817
## f.22000.0.024   4.807e-02  5.695e-02   0.844  0.39861
## f.22000.0.025   1.085e-01  5.816e-02   1.866  0.06209 .
## f.22000.0.026   6.701e-03  5.801e-02   0.116  0.90804
## f.22000.0.027   5.411e-02  5.705e-02   0.948  0.34290
## f.22000.0.028   3.274e-02  5.801e-02   0.564  0.57252
## f.22000.0.029   7.875e-02  5.858e-02   1.344  0.17883
## f.22000.0.03    5.663e-02  5.603e-02   1.011  0.31215
## f.22000.0.0-3   4.422e-02  5.654e-02   0.782  0.43419
## f.22000.0.030   2.987e-02  5.739e-02   0.521  0.60269
## f.22000.0.031   2.446e-02  5.713e-02   0.428  0.66846
## f.22000.0.032   8.343e-02  5.613e-02   1.486  0.13720
## f.22000.0.033   3.956e-02  5.842e-02   0.677  0.49835
## f.22000.0.034   5.714e-02  5.679e-02   1.006  0.31428
## f.22000.0.035   8.591e-02  5.718e-02   1.502  0.13298
## f.22000.0.036   1.031e-01  5.628e-02   1.832  0.06701 .
## f.22000.0.037   3.820e-02  5.828e-02   0.656  0.51211
## f.22000.0.038   1.137e-01  5.651e-02   2.011  0.04432 *
## f.22000.0.039   1.452e-02  5.837e-02   0.249  0.80356
## f.22000.0.04    1.505e-02  5.798e-02   0.260  0.79521
## f.22000.0.0-4   1.304e-01  5.818e-02   2.241  0.02504 *
## f.22000.0.040   4.314e-02  5.672e-02   0.761  0.44687
## f.22000.0.041   8.355e-02  5.884e-02   1.420  0.15560
## f.22000.0.042   5.324e-02  5.559e-02   0.958  0.33821
## f.22000.0.043   2.715e-02  5.929e-02   0.458  0.64699
## f.22000.0.044   9.511e-02  5.694e-02   1.670  0.09485 .
## f.22000.0.045   8.247e-02  5.789e-02   1.424  0.15433
## f.22000.0.046  -8.191e-03  5.877e-02  -0.139  0.88915
## f.22000.0.047   1.052e-02  5.772e-02   0.182  0.85541
## f.22000.0.048   2.002e-02  5.789e-02   0.346  0.72952
```

```
## f.22000.0.049   5.946e-02  5.795e-02   1.026  0.30483
## f.22000.0.05    8.759e-02  5.550e-02   1.578  0.11456
## f.22000.0.0-5   6.340e-02  5.756e-02   1.102  0.27066
## f.22000.0.050   4.726e-02  5.702e-02   0.829  0.40717
## f.22000.0.051   1.481e-01  5.628e-02   2.631  0.00851 **
## f.22000.0.052   3.582e-02  5.718e-02   0.626  0.53107
## f.22000.0.053   1.480e-03  5.728e-02   0.026  0.97939
## f.22000.0.054   7.646e-02  5.804e-02   1.317  0.18768
## f.22000.0.055   7.562e-02  5.764e-02   1.312  0.18956
## f.22000.0.056   1.079e-01  5.922e-02   1.823  0.06837 .
## f.22000.0.057   1.086e-01  5.963e-02   1.822  0.06844 .
## f.22000.0.058   1.167e-01  5.819e-02   2.006  0.04489 *
## f.22000.0.059   8.563e-02  5.699e-02   1.502  0.13298
## f.22000.0.06    5.551e-02  5.674e-02   0.978  0.32795
## f.22000.0.0-6   9.667e-02  5.681e-02   1.702  0.08883 .
## f.22000.0.060   7.553e-02  5.795e-02   1.303  0.19244
## f.22000.0.061   1.186e-01  6.027e-02   1.967  0.04917 *
## f.22000.0.062   1.077e-01  5.796e-02   1.858  0.06312 .
## f.22000.0.063   4.393e-02  5.777e-02   0.760  0.44708
## f.22000.0.064   4.896e-02  5.775e-02   0.848  0.39656
## f.22000.0.065   3.662e-02  5.834e-02   0.628  0.53012
## f.22000.0.066   4.561e-02  5.871e-02   0.777  0.43719
## f.22000.0.067   6.991e-03  5.730e-02   0.122  0.90290
## f.22000.0.068   7.959e-03  5.919e-02   0.134  0.89303
## f.22000.0.069   9.045e-02  5.804e-02   1.559  0.11910
## f.22000.0.07    4.723e-02  5.662e-02   0.834  0.40417
## f.22000.0.0-7   7.348e-02  5.775e-02   1.272  0.20324
## f.22000.0.070   1.703e-02  5.966e-02   0.285  0.77533
## f.22000.0.071   6.225e-03  5.773e-02   0.108  0.91412
## f.22000.0.072   5.760e-02  5.715e-02   1.008  0.31359
## f.22000.0.073   3.391e-02  5.988e-02   0.566  0.57114
## f.22000.0.074   6.691e-02  5.873e-02   1.139  0.25457
## f.22000.0.075   6.501e-02  5.772e-02   1.126  0.26009
## f.22000.0.076   1.126e-01  5.867e-02   1.920  0.05488 .
## f.22000.0.077   1.042e-01  5.777e-02   1.803  0.07137 .
## f.22000.0.078   3.024e-02  5.796e-02   0.522  0.60184
## f.22000.0.079   2.643e-02  5.798e-02   0.456  0.64847
## f.22000.0.08    3.388e-02  5.684e-02   0.596  0.55107
## f.22000.0.0-8   9.202e-02  5.756e-02   1.599  0.10987
## f.22000.0.080   1.292e-01  5.865e-02   2.203  0.02758 *
## f.22000.0.081   8.438e-02  5.966e-02   1.414  0.15727
## f.22000.0.082   1.554e-02  5.939e-02   0.262  0.79357
## f.22000.0.083   7.276e-02  6.009e-02   1.211  0.22595
## f.22000.0.084   1.071e-01  5.813e-02   1.843  0.06532 .
## f.22000.0.085   1.463e-02  5.861e-02   0.250  0.80290
## f.22000.0.086   4.406e-02  5.903e-02   0.746  0.45539
## f.22000.0.087   3.262e-02  5.789e-02   0.563  0.57311
## f.22000.0.088   7.006e-03  6.141e-02   0.114  0.90918
## f.22000.0.089   9.949e-02  5.884e-02   1.691  0.09088 .
## f.22000.0.09    2.741e-02  5.734e-02   0.478  0.63262
## f.22000.0.0-9   1.086e-01  5.758e-02   1.886  0.05937 .
## f.22000.0.090   5.557e-02  5.790e-02   0.960  0.33719
## f.22000.0.091  -1.988e-02  5.804e-02  -0.343  0.73192
## f.22000.0.092   7.347e-02  5.643e-02   1.302  0.19293
## f.22000.0.093   1.149e-01  5.816e-02   1.976  0.04817 *
## f.22000.0.094   5.422e-02  7.655e-02   0.708  0.47878
## f.22000.0.095   5.956e-02  6.213e-02   0.959  0.33772
## f.22001.0.01   -1.226e-01  8.280e-03 -14.809  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9753 on 56712 degrees of freedom
##   (63025 observations deleted due to missingness)
## Multiple R-squared:  0.0591, Adjusted R-squared:  0.05696
## F-statistic: 27.61 on 129 and 56712 DF,  p-value: < 2.2e-16
```

```
# jobsatisfaction
summary(lm(selfharmideation ~  f.4537.0.0 + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +  f.22009.0.
4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.2
2009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ f.4537.0.0 + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.5141 -0.6316 -0.4135  0.3304  5.1077
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.180e+01  1.529e+00 -20.803  < 2e-16 ***
## f.4537.0.0      1.358e-01  5.822e-03  23.330  < 2e-16 ***
## pgsfive         3.335e-02  5.790e-03   5.761 8.44e-09 ***
## f.22009.0.1     6.886e-03  6.044e-03   1.139  0.25452
## f.22009.0.2     1.582e-03  5.840e-03   0.271  0.78640
## f.22009.0.3    -1.788e-03  5.989e-03  -0.299  0.76531
## f.22009.0.4    -1.807e-02  8.348e-03  -2.165  0.03039 *
## f.22009.0.5     1.295e-02  8.308e-03   1.558  0.11919
## f.22009.0.6    -3.156e-04  5.918e-03  -0.053  0.95747
## f.22009.0.7    -1.194e-02  6.035e-03  -1.978  0.04792 *
## f.22009.0.8     6.891e-03  6.380e-03   1.080  0.28011
## f.22009.0.9    -7.165e-03  6.534e-03  -1.097  0.27284
## f.22009.0.10    2.075e-03  7.075e-03   0.293  0.76930
## f.22009.0.11    3.257e-03  8.464e-03   0.385  0.70038
## f.22009.0.12    4.798e-03  7.301e-03   0.657  0.51112
## f.22009.0.13   -7.522e-03  5.848e-03  -1.286  0.19836
## f.22009.0.14   -1.685e-02  6.520e-03  -2.585  0.00974 **
## f.22009.0.15    2.908e-03  6.316e-03   0.460  0.64525
## f.22009.0.16   -1.227e-02  6.363e-03  -1.929  0.05372 .
## f.22009.0.17    3.100e-03  5.759e-03   0.538  0.59042
## f.22009.0.18   -7.643e-04  6.054e-03  -0.126  0.89954
## f.22009.0.19   -1.162e-03  5.755e-03  -0.202  0.83997
## f.22009.0.20   -3.755e-03  5.829e-03  -0.644  0.51950
## f.34.0.0        1.629e-02  7.814e-04  20.843  < 2e-16 ***
## f.22000.0.0-1   8.028e-03  8.206e-02   0.098  0.92206
## f.22000.0.010   8.121e-02  8.028e-02   1.011  0.31179
## f.22000.0.0-10  7.665e-02  8.156e-02   0.940  0.34733
## f.22000.0.011   6.478e-02  7.894e-02   0.821  0.41186
## f.22000.0.0-11  2.060e-01  7.841e-02   2.627  0.00862 **
## f.22000.0.012   1.050e-01  8.342e-02   1.258  0.20832
## f.22000.0.013   5.996e-02  8.013e-02   0.748  0.45425
## f.22000.0.014   3.413e-02  7.719e-02   0.442  0.65838
## f.22000.0.015   1.192e-01  7.907e-02   1.508  0.13157
## f.22000.0.016   1.402e-01  8.021e-02   1.749  0.08039 .
## f.22000.0.017   1.345e-01  8.189e-02   1.642  0.10055
## f.22000.0.018   4.764e-02  8.232e-02   0.579  0.56283
## f.22000.0.019   6.915e-02  7.908e-02   0.874  0.38189
## f.22000.0.02    1.045e-01  7.822e-02   1.336  0.18140
## f.22000.0.0-2   2.680e-02  8.154e-02   0.329  0.74241
## f.22000.0.020   4.991e-02  8.147e-02   0.613  0.54017
## f.22000.0.021   1.097e-01  8.130e-02   1.349  0.17745
## f.22000.0.022   2.273e-02  8.174e-02   0.278  0.78097
## f.22000.0.023   1.031e-01  7.724e-02   1.334  0.18208
## f.22000.0.024   1.220e-01  7.841e-02   1.556  0.11977
## f.22000.0.025   9.549e-04  8.092e-02   0.012  0.99058
## f.22000.0.026  -1.669e-03  8.015e-02  -0.021  0.98339
## f.22000.0.027   4.702e-02  7.914e-02   0.594  0.55244
## f.22000.0.028   4.210e-02  8.189e-02   0.514  0.60716
## f.22000.0.029   1.442e-01  8.223e-02   1.754  0.07940 .
## f.22000.0.03    2.657e-02  7.748e-02   0.343  0.73167
## f.22000.0.0-3   1.479e-02  7.873e-02   0.188  0.85102
## f.22000.0.030   4.072e-02  8.198e-02   0.497  0.61939
## f.22000.0.031   6.531e-02  7.977e-02   0.819  0.41290
## f.22000.0.032   1.390e-02  7.821e-02   0.178  0.85893
## f.22000.0.033   5.242e-02  8.216e-02   0.638  0.52344
## f.22000.0.034   1.899e-02  7.907e-02   0.240  0.81020
```

```
## f.22000.0.035   1.059e-01  7.933e-02   1.335  0.18188
## f.22000.0.036   1.473e-01  7.662e-02   1.922  0.05456 .
## f.22000.0.037   8.257e-03  8.083e-02   0.102  0.91863
## f.22000.0.038   1.250e-01  7.772e-02   1.609  0.10764
## f.22000.0.039   4.459e-02  8.155e-02   0.547  0.58455
## f.22000.0.04    1.581e-02  8.138e-02   0.194  0.84597
## f.22000.0.0-4   1.721e-01  8.171e-02   2.106  0.03523 *
## f.22000.0.040   5.342e-02  7.785e-02   0.686  0.49259
## f.22000.0.041   8.166e-02  7.949e-02   1.027  0.30428
## f.22000.0.042   1.080e-01  7.724e-02   1.398  0.16215
## f.22000.0.043   6.840e-02  8.197e-02   0.834  0.40403
## f.22000.0.044   1.325e-01  7.899e-02   1.678  0.09339 .
## f.22000.0.045   1.157e-01  7.977e-02   1.451  0.14692
## f.22000.0.046  -4.739e-02  8.114e-02  -0.584  0.55918
## f.22000.0.047   5.123e-02  7.942e-02   0.645  0.51887
## f.22000.0.048   2.280e-02  8.181e-02   0.279  0.78049
## f.22000.0.049   2.263e-02  8.028e-02   0.282  0.77801
## f.22000.0.05    1.154e-01  7.542e-02   1.530  0.12597
## f.22000.0.0-5   5.406e-02  7.942e-02   0.681  0.49605
## f.22000.0.050   5.915e-02  7.847e-02   0.754  0.45099
## f.22000.0.051   1.374e-01  7.685e-02   1.787  0.07387 .
## f.22000.0.052   8.092e-02  7.866e-02   1.029  0.30363
## f.22000.0.053   1.389e-02  8.114e-02   0.171  0.86403
## f.22000.0.054   5.644e-02  7.984e-02   0.707  0.47960
## f.22000.0.055   7.178e-02  7.860e-02   0.913  0.36111
## f.22000.0.056   1.853e-01  8.463e-02   2.190  0.02856 *
## f.22000.0.057   1.501e-01  8.258e-02   1.817  0.06921 .
## f.22000.0.058   1.116e-01  8.051e-02   1.386  0.16573
## f.22000.0.059   1.089e-01  7.695e-02   1.415  0.15704
## f.22000.0.06    6.391e-02  7.791e-02   0.820  0.41204
## f.22000.0.0-6   9.049e-02  7.827e-02   1.156  0.24767
## f.22000.0.060   6.786e-02  7.927e-02   0.856  0.39196
## f.22000.0.061   1.591e-01  8.352e-02   1.906  0.05672 .
## f.22000.0.062   4.930e-03  8.090e-02   0.061  0.95141
## f.22000.0.063   6.628e-02  7.969e-02   0.832  0.40557
## f.22000.0.064   6.168e-02  8.074e-02   0.764  0.44487
## f.22000.0.065   7.893e-02  8.164e-02   0.967  0.33365
## f.22000.0.066   5.566e-02  8.036e-02   0.693  0.48853
## f.22000.0.067  -2.110e-02  7.969e-02  -0.265  0.79123
## f.22000.0.068  -2.321e-02  8.251e-02  -0.281  0.77844
## f.22000.0.069   3.734e-02  8.067e-02   0.463  0.64346
## f.22000.0.07    1.224e-01  7.830e-02   1.564  0.11786
## f.22000.0.0-7   1.196e-01  7.999e-02   1.495  0.13501
## f.22000.0.070   8.481e-02  8.341e-02   1.017  0.30929
## f.22000.0.071  -3.010e-02  7.935e-02  -0.379  0.70446
## f.22000.0.072   1.403e-01  7.900e-02   1.775  0.07585 .
## f.22000.0.073   4.930e-02  8.412e-02   0.586  0.55784
## f.22000.0.074   1.153e-01  8.050e-02   1.433  0.15197
## f.22000.0.075   1.351e-01  7.886e-02   1.712  0.08682 .
## f.22000.0.076   2.201e-01  8.164e-02   2.696  0.00701 **
## f.22000.0.077   2.162e-02  7.991e-02   0.271  0.78670
## f.22000.0.078   4.031e-02  7.922e-02   0.509  0.61088
## f.22000.0.079   1.315e-02  8.059e-02   0.163  0.87043
## f.22000.0.08    2.311e-02  7.861e-02   0.294  0.76873
## f.22000.0.0-8   1.106e-01  8.098e-02   1.366  0.17203
## f.22000.0.080   1.734e-01  8.190e-02   2.117  0.03426 *
## f.22000.0.081   1.605e-01  8.471e-02   1.894  0.05822 .
## f.22000.0.082   8.533e-02  8.402e-02   1.016  0.30984
## f.22000.0.083   7.064e-02  8.362e-02   0.845  0.39823
## f.22000.0.084   3.914e-02  8.029e-02   0.487  0.62596
## f.22000.0.085   4.339e-02  8.214e-02   0.528  0.59732
## f.22000.0.086   8.970e-03  8.313e-02   0.108  0.91408
## f.22000.0.087   2.565e-02  7.977e-02   0.322  0.74783
## f.22000.0.088   1.064e-01  8.710e-02   1.222  0.22170
## f.22000.0.089   1.115e-01  8.324e-02   1.339  0.18058
## f.22000.0.09    2.399e-02  8.043e-02   0.298  0.76547
## f.22000.0.0-9   1.205e-01  8.028e-02   1.501  0.13337
## f.22000.0.090   5.925e-02  7.964e-02   0.744  0.45686
## f.22000.0.091  -4.205e-02  7.893e-02  -0.533  0.59420
## f.22000.0.092   1.353e-01  7.615e-02   1.777  0.07552 .
## f.22000.0.093   2.015e-01  7.984e-02   2.524  0.01162 *
## f.22000.0.094   9.425e-02  1.054e-01   0.894  0.37141
## f.22000.0.095   1.114e-01  8.381e-02   1.329  0.18393
```

```
## f.22001.0.01   -1.391e-01  1.160e-02 -11.990  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.001 on 30445 degrees of freedom
##   (89292 observations deleted due to missingness)
## Multiple R-squared:  0.04788,    Adjusted R-squared:  0.04385
## F-statistic: 11.87 on 129 and 30445 DF,  p-value: < 2.2e-16
```

```
#socfreq
summary(lm(selfharmideation ~  socfreq + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ socfreq + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1612 -0.5945 -0.4081  0.2699  5.1674
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.920e+01  7.469e-01 -52.488  < 2e-16 ***
## socfreq         4.996e-02  2.921e-03  17.102  < 2e-16 ***
## pgsfive         3.237e-02  2.867e-03  11.292  < 2e-16 ***
## f.22009.0.1     8.454e-03  3.030e-03   2.790  0.00527 **
## f.22009.0.2    -1.370e-03  2.917e-03  -0.470  0.63865
## f.22009.0.3    -1.306e-03  2.992e-03  -0.437  0.66242
## f.22009.0.4    -7.815e-03  4.187e-03  -1.867  0.06196 .
## f.22009.0.5     2.488e-03  4.064e-03   0.612  0.54048
## f.22009.0.6     4.270e-05  2.960e-03   0.014  0.98849
## f.22009.0.7    -8.757e-03  3.033e-03  -2.888  0.00388 **
## f.22009.0.8     7.544e-03  3.199e-03   2.359  0.01835 *
## f.22009.0.9    -6.980e-03  3.052e-03  -2.287  0.02218 *
## f.22009.0.10    1.921e-03  3.542e-03   0.542  0.58762
## f.22009.0.11    2.180e-03  4.121e-03   0.529  0.59677
## f.22009.0.12    4.551e-03  3.620e-03   1.257  0.20869
## f.22009.0.13   -3.961e-03  2.912e-03  -1.360  0.17377
## f.22009.0.14   -1.538e-02  3.077e-03  -4.999 5.76e-07 ***
## f.22009.0.15   -9.478e-04  3.155e-03  -0.300  0.76386
## f.22009.0.16   -7.502e-03  3.090e-03  -2.428  0.01520 *
## f.22009.0.17   -2.117e-03  2.869e-03  -0.738  0.46072
## f.22009.0.18    1.546e-03  2.878e-03   0.537  0.59119
## f.22009.0.19    1.797e-03  2.864e-03   0.627  0.53046
## f.22009.0.20    1.855e-03  2.871e-03   0.646  0.51815
## f.34.0.0        2.011e-02  3.822e-04  52.611  < 2e-16 ***
## f.22000.0.0-1   2.944e-02  4.047e-02   0.727  0.46704
## f.22000.0.010  -3.109e-02  4.088e-02  -0.761  0.44693
## f.22000.0.0-10  7.742e-02  4.114e-02   1.882  0.05990 .
## f.22000.0.011   5.125e-02  4.026e-02   1.273  0.20302
## f.22000.0.0-11  4.686e-02  4.072e-02   1.151  0.24987
## f.22000.0.012   1.953e-02  4.049e-02   0.482  0.62961
## f.22000.0.013  -5.020e-03  4.032e-02  -0.124  0.90092
## f.22000.0.014   4.427e-02  4.010e-02   1.104  0.26956
## f.22000.0.015   3.703e-02  4.042e-02   0.916  0.35957
## f.22000.0.016   5.553e-02  4.058e-02   1.368  0.17119
## f.22000.0.017   3.946e-02  4.021e-02   0.981  0.32646
## f.22000.0.018  -2.735e-02  4.064e-02  -0.673  0.50093
## f.22000.0.019   1.068e-02  3.980e-02   0.268  0.78845
## f.22000.0.02    2.269e-03  3.995e-02   0.057  0.95470
## f.22000.0.0-2   7.883e-02  4.067e-02   1.938  0.05259 .
## f.22000.0.020  -6.085e-04  4.050e-02  -0.015  0.98801
```

```
## f.22000.0.021   2.072e-02  4.033e-02   0.514  0.60738
## f.22000.0.022   1.634e-02  4.041e-02   0.404  0.68595
## f.22000.0.023   1.958e-02  4.037e-02   0.485  0.62773
## f.22000.0.024   1.344e-02  3.987e-02   0.337  0.73594
## f.22000.0.025   5.339e-02  4.085e-02   1.307  0.19128
## f.22000.0.026  -4.093e-02  4.063e-02  -1.007  0.31372
## f.22000.0.027  -6.975e-03  4.005e-02  -0.174  0.86173
## f.22000.0.028   6.122e-03  4.042e-02   0.151  0.87963
## f.22000.0.029   1.807e-02  4.008e-02   0.451  0.65207
## f.22000.0.03    1.160e-02  4.006e-02   0.289  0.77222
## f.22000.0.0-3  -5.009e-03  4.024e-02  -0.124  0.90093
## f.22000.0.030  -3.104e-02  4.011e-02  -0.774  0.43904
## f.22000.0.031  -6.834e-03  4.027e-02  -0.170  0.86525
## f.22000.0.032  -1.862e-02  4.037e-02  -0.461  0.64458
## f.22000.0.033   1.662e-02  4.115e-02   0.404  0.68627
## f.22000.0.034   2.783e-02  4.019e-02   0.692  0.48870
## f.22000.0.035   6.587e-02  4.025e-02   1.636  0.10174
## f.22000.0.036   1.395e-02  4.000e-02   0.349  0.72723
## f.22000.0.037  -7.470e-03  4.058e-02  -0.184  0.85394
## f.22000.0.038   5.594e-02  4.044e-02   1.383  0.16659
## f.22000.0.039   2.504e-02  4.089e-02   0.612  0.54036
## f.22000.0.04   -7.287e-03  4.081e-02  -0.179  0.85828
## f.22000.0.0-4   7.644e-02  4.097e-02   1.866  0.06209 .
## f.22000.0.040   3.902e-02  4.042e-02   0.965  0.33434
## f.22000.0.041   1.258e-02  4.098e-02   0.307  0.75883
## f.22000.0.042  -1.420e-02  4.023e-02  -0.353  0.72413
## f.22000.0.043  -3.656e-02  4.101e-02  -0.891  0.37274
## f.22000.0.044   6.639e-02  4.064e-02   1.634  0.10236
## f.22000.0.045   3.140e-03  4.057e-02   0.077  0.93832
## f.22000.0.046  -2.661e-02  4.078e-02  -0.653  0.51407
## f.22000.0.047  -1.185e-02  4.084e-02  -0.290  0.77167
## f.22000.0.048   6.924e-03  4.083e-02   0.170  0.86533
## f.22000.0.049   5.692e-02  4.075e-02   1.397  0.16249
## f.22000.0.05    9.752e-03  4.009e-02   0.243  0.80781
## f.22000.0.0-5   6.601e-02  4.050e-02   1.630  0.10311
## f.22000.0.050  -6.103e-03  4.076e-02  -0.150  0.88098
## f.22000.0.051   7.320e-02  4.020e-02   1.821  0.06864 .
## f.22000.0.052   2.691e-02  4.101e-02   0.656  0.51179
## f.22000.0.053  -1.226e-02  4.063e-02  -0.302  0.76287
## f.22000.0.054   7.144e-02  4.074e-02   1.754  0.07949 .
## f.22000.0.055   5.825e-02  4.115e-02   1.415  0.15693
## f.22000.0.056   3.644e-02  4.080e-02   0.893  0.37176
## f.22000.0.057   4.760e-02  4.093e-02   1.163  0.24485
## f.22000.0.058   2.003e-02  4.081e-02   0.491  0.62348
## f.22000.0.059   2.696e-02  4.060e-02   0.664  0.50667
## f.22000.0.06    6.794e-03  3.993e-02   0.170  0.86489
## f.22000.0.0-6   4.082e-02  4.090e-02   0.998  0.31832
## f.22000.0.060   1.479e-03  4.104e-02   0.036  0.97126
## f.22000.0.061   3.466e-02  4.122e-02   0.841  0.40040
## f.22000.0.062   3.813e-02  4.108e-02   0.928  0.35335
## f.22000.0.063   1.526e-02  4.108e-02   0.371  0.71028
## f.22000.0.064  -4.911e-03  4.078e-02  -0.120  0.90413
## f.22000.0.065  -6.728e-03  4.101e-02  -0.164  0.86969
## f.22000.0.066   4.032e-04  4.135e-02   0.010  0.99222
## f.22000.0.067  -2.123e-02  4.097e-02  -0.518  0.60440
## f.22000.0.068   6.493e-03  4.086e-02   0.159  0.87374
## f.22000.0.069   1.894e-02  4.104e-02   0.462  0.64436
## f.22000.0.07   -2.897e-02  4.026e-02  -0.720  0.47174
## f.22000.0.0-7   5.621e-02  4.053e-02   1.387  0.16553
## f.22000.0.070  -2.286e-02  4.110e-02  -0.556  0.57801
## f.22000.0.071  -2.501e-02  4.086e-02  -0.612  0.54057
## f.22000.0.072   4.981e-03  4.114e-02   0.121  0.90364
## f.22000.0.073   9.408e-03  4.115e-02   0.229  0.81917
## f.22000.0.074   3.894e-02  4.125e-02   0.944  0.34522
## f.22000.0.075   6.949e-02  4.083e-02   1.702  0.08882 .
## f.22000.0.076   5.152e-02  4.125e-02   1.249  0.21169
## f.22000.0.077   2.273e-02  4.101e-02   0.554  0.57937
## f.22000.0.078  -3.801e-02  4.091e-02  -0.929  0.35286
## f.22000.0.079  -9.897e-03  4.069e-02  -0.243  0.80784
## f.22000.0.08   -1.996e-03  4.014e-02  -0.050  0.96034
## f.22000.0.0-8   2.398e-02  4.083e-02   0.587  0.55695
## f.22000.0.080   6.173e-02  4.116e-02   1.500  0.13373
## f.22000.0.081  -3.934e-03  4.170e-02  -0.094  0.92485
```

```
## f.22000.0.082  -2.266e-02  4.117e-02  -0.550  0.58198
## f.22000.0.083   1.764e-02  4.119e-02   0.428  0.66845
## f.22000.0.084   2.333e-02  4.124e-02   0.566  0.57170
## f.22000.0.085   2.655e-02  4.108e-02   0.646  0.51813
## f.22000.0.086  -1.444e-02  4.115e-02  -0.351  0.72569
## f.22000.0.087   3.134e-02  4.110e-02   0.762  0.44580
## f.22000.0.088   8.600e-03  4.198e-02   0.205  0.83766
## f.22000.0.089   9.836e-03  4.158e-02   0.237  0.81302
## f.22000.0.09   -2.327e-02  3.994e-02  -0.583  0.56009
## f.22000.0.0-9   5.635e-02  4.085e-02   1.379  0.16777
## f.22000.0.090   9.757e-03  4.126e-02   0.236  0.81305
## f.22000.0.091  -4.080e-02  4.255e-02  -0.959  0.33770
## f.22000.0.092   3.235e-02  4.122e-02   0.785  0.43261
## f.22000.0.093   3.081e-02  4.117e-02   0.748  0.45428
## f.22000.0.094  -3.110e-03  5.266e-02  -0.059  0.95290
## f.22000.0.095  -9.338e-03  4.392e-02  -0.213  0.83162
## f.22001.0.01   -1.364e-01  5.847e-03 -23.324  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9824 on 117642 degrees of freedom
##   (2095 observations deleted due to missingness)
## Multiple R-squared:  0.03576,    Adjusted R-squared:  0.0347
## F-statistic: 33.82 on 129 and 117642 DF,  p-value: < 2.2e-16
```

```
# confiding
summary(lm(selfharmideation ~  f.20522.0.0 + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.
4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.2
2009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ f.20522.0.0 + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.3244 -0.5977 -0.3889  0.2767  5.2584
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.131e+01  7.470e-01 -55.297  < 2e-16 ***
## f.20522.0.0    -1.105e-01  2.891e-03 -38.209  < 2e-16 ***
## pgsfive         3.252e-02  2.886e-03  11.268  < 2e-16 ***
## f.22009.0.1     7.134e-03  3.050e-03   2.339  0.01933 *
## f.22009.0.2    -8.154e-04  2.937e-03  -0.278  0.78130
## f.22009.0.3    -5.676e-04  3.013e-03  -0.188  0.85057
## f.22009.0.4    -9.539e-03  4.216e-03  -2.262  0.02368 *
## f.22009.0.5     1.495e-03  4.092e-03   0.365  0.71491
## f.22009.0.6     7.760e-04  2.981e-03   0.260  0.79458
## f.22009.0.7    -8.771e-03  3.055e-03  -2.871  0.00409 **
## f.22009.0.8     7.803e-03  3.218e-03   2.424  0.01533 *
## f.22009.0.9    -9.128e-03  3.074e-03  -2.969  0.00299 **
## f.22009.0.10    1.748e-03  3.565e-03   0.490  0.62386
## f.22009.0.11   -1.057e-03  4.148e-03  -0.255  0.79891
## f.22009.0.12    5.711e-03  3.645e-03   1.567  0.11718
## f.22009.0.13   -3.873e-03  2.933e-03  -1.321  0.18661
## f.22009.0.14   -1.436e-02  3.099e-03  -4.634 3.59e-06 ***
## f.22009.0.15   -2.053e-03  3.176e-03  -0.646  0.51805
## f.22009.0.16   -6.623e-03  3.110e-03  -2.129  0.03324 *
## f.22009.0.17   -1.397e-03  2.888e-03  -0.483  0.62876
## f.22009.0.18   -9.182e-05  2.898e-03  -0.032  0.97473
## f.22009.0.19    3.171e-03  2.884e-03   1.099  0.27156
## f.22009.0.20   -5.792e-04  2.890e-03  -0.200  0.84117
## f.34.0.0        2.118e-02  3.823e-04  55.413  < 2e-16 ***
```

```
## f.22000.0.0-1   2.247e-02  4.069e-02   0.552  0.58073
## f.22000.0.010  -2.399e-02  4.118e-02  -0.583  0.56007
## f.22000.0.0-10  8.232e-02  4.132e-02   1.992  0.04636 *
## f.22000.0.011   5.448e-02  4.033e-02   1.351  0.17680
## f.22000.0.0-11  4.607e-02  4.090e-02   1.126  0.25999
## f.22000.0.012   3.387e-02  4.067e-02   0.833  0.40500
## f.22000.0.013  -7.758e-03  4.050e-02  -0.192  0.84808
## f.22000.0.014   4.443e-02  4.026e-02   1.104  0.26975
## f.22000.0.015   3.034e-02  4.069e-02   0.746  0.45590
## f.22000.0.016   5.713e-02  4.068e-02   1.404  0.16028
## f.22000.0.017   4.530e-02  4.038e-02   1.122  0.26194
## f.22000.0.018  -2.218e-02  4.072e-02  -0.545  0.58599
## f.22000.0.019   2.193e-02  3.994e-02   0.549  0.58290
## f.22000.0.02   -4.096e-04  4.015e-02  -0.010  0.99186
## f.22000.0.0-2   7.392e-02  4.084e-02   1.810  0.07028 .
## f.22000.0.020   1.516e-02  4.076e-02   0.372  0.70993
## f.22000.0.021   1.963e-02  4.047e-02   0.485  0.62769
## f.22000.0.022   2.239e-02  4.055e-02   0.552  0.58075
## f.22000.0.023   1.901e-02  4.046e-02   0.470  0.63844
## f.22000.0.024   1.796e-02  4.002e-02   0.449  0.65356
## f.22000.0.025   4.817e-02  4.102e-02   1.174  0.24031
## f.22000.0.026  -4.029e-02  4.086e-02  -0.986  0.32406
## f.22000.0.027   6.748e-03  4.027e-02   0.168  0.86692
## f.22000.0.028   3.271e-03  4.058e-02   0.081  0.93575
## f.22000.0.029   2.374e-02  4.036e-02   0.588  0.55635
## f.22000.0.03    5.653e-03  4.013e-02   0.141  0.88796
## f.22000.0.0-3  -1.060e-02  4.033e-02  -0.263  0.79264
## f.22000.0.030  -3.706e-02  4.025e-02  -0.921  0.35716
## f.22000.0.031  -6.063e-03  4.050e-02  -0.150  0.88100
## f.22000.0.032  -2.293e-02  4.053e-02  -0.566  0.57147
## f.22000.0.033   2.258e-02  4.138e-02   0.546  0.58526
## f.22000.0.034   2.597e-02  4.026e-02   0.645  0.51899
## f.22000.0.035   5.920e-02  4.049e-02   1.462  0.14368
## f.22000.0.036   5.318e-03  4.014e-02   0.132  0.89461
## f.22000.0.037  -2.002e-03  4.081e-02  -0.049  0.96088
## f.22000.0.038   5.422e-02  4.058e-02   1.336  0.18150
## f.22000.0.039   2.795e-02  4.096e-02   0.682  0.49500
## f.22000.0.04   -4.691e-03  4.084e-02  -0.115  0.90856
## f.22000.0.0-4   7.227e-02  4.108e-02   1.759  0.07852 .
## f.22000.0.040   4.473e-02  4.058e-02   1.102  0.27034
## f.22000.0.041   1.692e-02  4.112e-02   0.411  0.68082
## f.22000.0.042  -2.957e-03  4.042e-02  -0.073  0.94167
## f.22000.0.043  -3.574e-02  4.122e-02  -0.867  0.38594
## f.22000.0.044   7.079e-02  4.078e-02   1.736  0.08258 .
## f.22000.0.045   1.399e-02  4.086e-02   0.342  0.73205
## f.22000.0.046  -2.071e-02  4.093e-02  -0.506  0.61284
## f.22000.0.047  -6.686e-03  4.092e-02  -0.163  0.87022
## f.22000.0.048   1.449e-02  4.095e-02   0.354  0.72341
## f.22000.0.049   6.437e-02  4.093e-02   1.573  0.11577
## f.22000.0.05    5.484e-03  4.031e-02   0.136  0.89177
## f.22000.0.0-5   6.650e-02  4.067e-02   1.635  0.10198
## f.22000.0.050   4.767e-03  4.091e-02   0.117  0.90726
## f.22000.0.051   7.892e-02  4.046e-02   1.950  0.05113 .
## f.22000.0.052   2.891e-02  4.108e-02   0.704  0.48158
## f.22000.0.053  -1.250e-02  4.079e-02  -0.306  0.75926
## f.22000.0.054   6.132e-02  4.089e-02   1.500  0.13366
## f.22000.0.055   6.015e-02  4.126e-02   1.458  0.14485
## f.22000.0.056   3.699e-02  4.094e-02   0.904  0.36621
## f.22000.0.057   5.357e-02  4.112e-02   1.303  0.19264
## f.22000.0.058   2.732e-02  4.092e-02   0.668  0.50434
## f.22000.0.059   2.849e-02  4.083e-02   0.698  0.48524
## f.22000.0.06    5.371e-03  4.002e-02   0.134  0.89324
## f.22000.0.0-6   3.058e-02  4.098e-02   0.746  0.45549
## f.22000.0.060   4.066e-03  4.115e-02   0.099  0.92129
## f.22000.0.061   3.894e-02  4.137e-02   0.941  0.34657
## f.22000.0.062   3.767e-02  4.129e-02   0.912  0.36161
## f.22000.0.063   5.110e-03  4.125e-02   0.124  0.90140
## f.22000.0.064  -5.871e-03  4.097e-02  -0.143  0.88606
## f.22000.0.065   6.327e-03  4.124e-02   0.153  0.87807
## f.22000.0.066   5.382e-03  4.156e-02   0.130  0.89694
## f.22000.0.067  -1.606e-02  4.112e-02  -0.390  0.69618
## f.22000.0.068   9.474e-03  4.103e-02   0.231  0.81740
## f.22000.0.069   2.592e-02  4.125e-02   0.628  0.52978
```

```
## f.22000.0.07   -2.308e-02  4.039e-02  -0.571  0.56767
## f.22000.0.0-7   5.661e-02  4.064e-02   1.393  0.16365
## f.22000.0.070  -1.643e-02  4.131e-02  -0.398  0.69085
## f.22000.0.071  -2.152e-02  4.095e-02  -0.526  0.59912
## f.22000.0.072   7.829e-03  4.125e-02   0.190  0.84947
## f.22000.0.073   1.197e-02  4.128e-02   0.290  0.77186
## f.22000.0.074   3.617e-02  4.146e-02   0.872  0.38300
## f.22000.0.075   7.142e-02  4.091e-02   1.746  0.08084 .
## f.22000.0.076   4.498e-02  4.143e-02   1.086  0.27754
## f.22000.0.077   1.596e-02  4.120e-02   0.387  0.69839
## f.22000.0.078  -2.844e-02  4.105e-02  -0.693  0.48848
## f.22000.0.079  -1.178e-03  4.092e-02  -0.029  0.97703
## f.22000.0.08   -2.309e-03  4.034e-02  -0.057  0.95435
## f.22000.0.0-8   1.962e-02  4.116e-02   0.477  0.63361
## f.22000.0.080   7.090e-02  4.136e-02   1.714  0.08653 .
## f.22000.0.081   6.949e-03  4.188e-02   0.166  0.86820
## f.22000.0.082  -1.243e-02  4.142e-02  -0.300  0.76421
## f.22000.0.083   1.074e-02  4.145e-02   0.259  0.79562
## f.22000.0.084   3.453e-02  4.137e-02   0.834  0.40401
## f.22000.0.085   3.320e-02  4.122e-02   0.806  0.42052
## f.22000.0.086  -2.384e-02  4.134e-02  -0.577  0.56421
## f.22000.0.087   3.208e-02  4.127e-02   0.777  0.43696
## f.22000.0.088   5.084e-03  4.213e-02   0.121  0.90396
## f.22000.0.089   7.393e-03  4.187e-02   0.177  0.85985
## f.22000.0.09   -2.206e-02  4.008e-02  -0.550  0.58203
## f.22000.0.0-9   5.523e-02  4.113e-02   1.343  0.17935
## f.22000.0.090   1.488e-02  4.130e-02   0.360  0.71863
## f.22000.0.091  -4.567e-02  4.273e-02  -1.069  0.28514
## f.22000.0.092   3.692e-02  4.144e-02   0.891  0.37295
## f.22000.0.093   2.877e-02  4.150e-02   0.693  0.48812
## f.22000.0.094   7.054e-03  5.300e-02   0.133  0.89413
## f.22000.0.095  -1.584e-02  4.415e-02  -0.359  0.71983
## f.22001.0.01   -1.218e-01  5.822e-03 -20.925  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9798 on 115423 degrees of freedom
##   (4314 observations deleted due to missingness)
## Multiple R-squared:  0.04529,    Adjusted R-squared:  0.04422
## F-statistic: 42.45 on 129 and 115423 DF,  p-value: < 2.2e-16
```

```
# education
summary(lm(selfharmideation ~  edu + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22
009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12
+ f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ edu + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1196 -0.6039 -0.4205  0.2822  5.1845
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.891e+01  7.771e-01 -50.065  < 2e-16 ***
## edu            -2.525e-02  3.017e-03  -8.368  < 2e-16 ***
## pgsfive         3.261e-02  2.999e-03  10.873  < 2e-16 ***
## f.22009.0.1     9.183e-03  3.168e-03   2.898  0.00375 **
## f.22009.0.2    -3.638e-04  3.045e-03  -0.119  0.90491
## f.22009.0.3    -1.767e-03  3.124e-03  -0.566  0.57153
## f.22009.0.4    -8.476e-03  4.370e-03  -1.939  0.05245 .
## f.22009.0.5     3.036e-03  4.259e-03   0.713  0.47592
```

```
## f.22009.0.6    -5.321e-04  3.091e-03  -0.172  0.86332
## f.22009.0.7    -9.853e-03  3.167e-03  -3.111  0.00186 **
## f.22009.0.8     7.392e-03  3.337e-03   2.215  0.02676 *
## f.22009.0.9    -7.588e-03  3.165e-03  -2.397  0.01652 *
## f.22009.0.10    3.532e-03  3.697e-03   0.956  0.33932
## f.22009.0.11   -4.718e-04  4.307e-03  -0.110  0.91276
## f.22009.0.12    5.636e-03  3.778e-03   1.492  0.13576
## f.22009.0.13   -4.549e-03  3.042e-03  -1.496  0.13477
## f.22009.0.14   -1.772e-02  3.217e-03  -5.508 3.65e-08 ***
## f.22009.0.15   -2.630e-03  3.294e-03  -0.798  0.42461
## f.22009.0.16   -8.252e-03  3.222e-03  -2.561  0.01044 *
## f.22009.0.17   -2.041e-03  2.996e-03  -0.681  0.49564
## f.22009.0.18    1.367e-03  3.007e-03   0.455  0.64934
## f.22009.0.19    1.777e-03  2.991e-03   0.594  0.55249
## f.22009.0.20    3.773e-04  3.001e-03   0.126  0.89995
## f.34.0.0        1.995e-02  3.976e-04  50.186  < 2e-16 ***
## f.22000.0.0-1   1.649e-02  4.281e-02   0.385  0.70001
## f.22000.0.010  -2.263e-02  4.278e-02  -0.529  0.59678
## f.22000.0.0-10  1.003e-01  4.305e-02   2.330  0.01982 *
## f.22000.0.011   5.903e-02  4.206e-02   1.403  0.16054
## f.22000.0.0-11  5.103e-02  4.293e-02   1.188  0.23465
## f.22000.0.012   1.206e-02  4.231e-02   0.285  0.77557
## f.22000.0.013   2.236e-03  4.219e-02   0.053  0.95774
## f.22000.0.014   4.506e-02  4.175e-02   1.079  0.28049
## f.22000.0.015   4.626e-02  4.241e-02   1.091  0.27535
## f.22000.0.016   6.185e-02  4.232e-02   1.462  0.14384
## f.22000.0.017   4.995e-02  4.197e-02   1.190  0.23400
## f.22000.0.018  -2.673e-02  4.246e-02  -0.630  0.52897
## f.22000.0.019   1.735e-02  4.156e-02   0.417  0.67637
## f.22000.0.02    8.407e-03  4.186e-02   0.201  0.84083
## f.22000.0.0-2   7.819e-02  4.268e-02   1.832  0.06694 .
## f.22000.0.020  -6.996e-03  4.231e-02  -0.165  0.86866
## f.22000.0.021   3.574e-02  4.197e-02   0.852  0.39438
## f.22000.0.022   2.997e-02  4.224e-02   0.710  0.47792
## f.22000.0.023   2.490e-02  4.225e-02   0.589  0.55557
## f.22000.0.024   1.010e-02  4.171e-02   0.242  0.80874
## f.22000.0.025   4.176e-02  4.269e-02   0.978  0.32791
## f.22000.0.026  -4.163e-02  4.250e-02  -0.979  0.32742
## f.22000.0.027  -1.243e-02  4.178e-02  -0.297  0.76614
## f.22000.0.028   1.317e-02  4.220e-02   0.312  0.75488
## f.22000.0.029   2.622e-02  4.194e-02   0.625  0.53183
## f.22000.0.03    8.941e-03  4.196e-02   0.213  0.83125
## f.22000.0.0-3  -1.301e-02  4.219e-02  -0.308  0.75790
## f.22000.0.030  -2.309e-02  4.180e-02  -0.552  0.58072
## f.22000.0.031  -9.903e-03  4.204e-02  -0.236  0.81376
## f.22000.0.032  -9.047e-03  4.203e-02  -0.215  0.82956
## f.22000.0.033   1.701e-02  4.295e-02   0.396  0.69209
## f.22000.0.034   1.891e-02  4.198e-02   0.450  0.65241
## f.22000.0.035   6.542e-02  4.203e-02   1.557  0.11955
## f.22000.0.036   2.197e-02  4.176e-02   0.526  0.59886
## f.22000.0.037  -1.898e-03  4.248e-02  -0.045  0.96436
## f.22000.0.038   7.084e-02  4.220e-02   1.679  0.09320 .
## f.22000.0.039   1.941e-02  4.265e-02   0.455  0.64901
## f.22000.0.04   -1.003e-02  4.271e-02  -0.235  0.81428
## f.22000.0.0-4   6.856e-02  4.317e-02   1.588  0.11222
## f.22000.0.040   4.963e-02  4.218e-02   1.177  0.23929
## f.22000.0.041  -1.258e-03  4.287e-02  -0.029  0.97659
## f.22000.0.042  -5.494e-03  4.209e-02  -0.131  0.89613
## f.22000.0.043  -5.018e-02  4.290e-02  -1.170  0.24207
## f.22000.0.044   6.934e-02  4.244e-02   1.634  0.10230
## f.22000.0.045   2.385e-02  4.221e-02   0.565  0.57196
## f.22000.0.046  -1.668e-02  4.264e-02  -0.391  0.69572
## f.22000.0.047  -9.985e-03  4.253e-02  -0.235  0.81437
## f.22000.0.048   9.004e-03  4.276e-02   0.211  0.83320
## f.22000.0.049   7.057e-02  4.250e-02   1.661  0.09678 .
## f.22000.0.05    7.730e-03  4.195e-02   0.184  0.85380
## f.22000.0.0-5   8.498e-02  4.248e-02   2.000  0.04548 *
## f.22000.0.050   1.054e-02  4.272e-02   0.247  0.80517
## f.22000.0.051   7.412e-02  4.193e-02   1.768  0.07713 .
## f.22000.0.052   4.432e-02  4.273e-02   1.037  0.29964
## f.22000.0.053  -4.923e-03  4.236e-02  -0.116  0.90747
## f.22000.0.054   7.739e-02  4.262e-02   1.816  0.06942 .
## f.22000.0.055   5.588e-02  4.290e-02   1.303  0.19269
```

```
## f.22000.0.056   3.094e-02  4.266e-02   0.725  0.46818
## f.22000.0.057   6.995e-02  4.273e-02   1.637  0.10167
## f.22000.0.058   4.217e-02  4.246e-02   0.993  0.32071
## f.22000.0.059   3.854e-02  4.238e-02   0.909  0.36310
## f.22000.0.06   -6.681e-04  4.162e-02  -0.016  0.98719
## f.22000.0.0-6   2.612e-02  4.300e-02   0.607  0.54363
## f.22000.0.060   1.096e-02  4.292e-02   0.255  0.79836
## f.22000.0.061   3.040e-02  4.316e-02   0.704  0.48120
## f.22000.0.062   3.375e-02  4.292e-02   0.786  0.43163
## f.22000.0.063   2.626e-02  4.304e-02   0.610  0.54180
## f.22000.0.064   5.523e-04  4.265e-02   0.013  0.98967
## f.22000.0.065  -8.215e-03  4.283e-02  -0.192  0.84790
## f.22000.0.066   5.581e-03  4.325e-02   0.129  0.89734
## f.22000.0.067  -9.859e-03  4.287e-02  -0.230  0.81813
## f.22000.0.068   2.141e-03  4.258e-02   0.050  0.95989
## f.22000.0.069   2.410e-02  4.269e-02   0.565  0.57234
## f.22000.0.07   -1.459e-02  4.192e-02  -0.348  0.72780
## f.22000.0.0-7   5.127e-02  4.258e-02   1.204  0.22856
## f.22000.0.070  -6.555e-03  4.293e-02  -0.153  0.87865
## f.22000.0.071  -9.795e-03  4.261e-02  -0.230  0.81820
## f.22000.0.072   1.367e-02  4.309e-02   0.317  0.75104
## f.22000.0.073   1.003e-02  4.314e-02   0.233  0.81612
## f.22000.0.074   4.985e-02  4.300e-02   1.159  0.24636
## f.22000.0.075   7.446e-02  4.262e-02   1.747  0.08064 .
## f.22000.0.076   6.438e-02  4.322e-02   1.490  0.13633
## f.22000.0.077   2.468e-02  4.272e-02   0.578  0.56352
## f.22000.0.078  -4.523e-02  4.271e-02  -1.059  0.28961
## f.22000.0.079  -8.141e-06  4.255e-02   0.000  0.99985
## f.22000.0.08   -2.412e-03  4.195e-02  -0.057  0.95415
## f.22000.0.0-8   3.427e-02  4.293e-02   0.798  0.42480
## f.22000.0.080   5.973e-02  4.294e-02   1.391  0.16425
## f.22000.0.081   1.358e-02  4.358e-02   0.312  0.75526
## f.22000.0.082  -1.156e-02  4.306e-02  -0.268  0.78836
## f.22000.0.083  -5.538e-03  4.313e-02  -0.128  0.89783
## f.22000.0.084   1.706e-02  4.312e-02   0.396  0.69228
## f.22000.0.085   2.475e-02  4.292e-02   0.577  0.56414
## f.22000.0.086  -1.058e-02  4.290e-02  -0.247  0.80518
## f.22000.0.087   3.413e-02  4.302e-02   0.793  0.42766
## f.22000.0.088   9.021e-03  4.358e-02   0.207  0.83602
## f.22000.0.089   2.334e-02  4.335e-02   0.538  0.59038
## f.22000.0.09   -1.479e-02  4.179e-02  -0.354  0.72347
## f.22000.0.0-9   6.130e-02  4.294e-02   1.428  0.15341
## f.22000.0.090   1.787e-02  4.299e-02   0.416  0.67756
## f.22000.0.091  -4.425e-02  4.428e-02  -0.999  0.31762
## f.22000.0.092   3.370e-02  4.301e-02   0.783  0.43336
## f.22000.0.093   8.342e-03  4.308e-02   0.194  0.84646
## f.22000.0.094   2.016e-03  5.529e-02   0.036  0.97091
## f.22000.0.095  -8.360e-05  4.590e-02  -0.002  0.99855
## f.22001.0.01   -1.295e-01  6.047e-03 -21.417  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9889 on 109201 degrees of freedom
##   (10536 observations deleted due to missingness)
## Multiple R-squared:  0.03283,    Adjusted R-squared:  0.03169
## F-statistic: 28.74 on 129 and 109201 DF,  p-value: < 2.2e-16
```

```
# cognition
summary(lm(selfharmideation ~  cognition + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4
+ f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.220
09.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ cognition + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
```

```
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1150 -0.5916 -0.4131  0.2748  5.1957
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.011e+01  1.072e+00 -37.405  < 2e-16 ***
## cognition       1.258e-02  4.170e-03   3.016  0.00256 **
## pgsfive         3.322e-02  4.173e-03   7.961 1.73e-15 ***
## f.22009.0.1     1.014e-02  4.395e-03   2.307  0.02104 *
## f.22009.0.2     1.656e-03  4.238e-03   0.391  0.69594
## f.22009.0.3    -5.625e-03  4.343e-03  -1.295  0.19527
## f.22009.0.4    -1.638e-02  6.062e-03  -2.702  0.00689 **
## f.22009.0.5     9.739e-03  5.978e-03   1.629  0.10327
## f.22009.0.6     5.928e-04  4.294e-03   0.138  0.89019
## f.22009.0.7    -9.600e-03  4.395e-03  -2.184  0.02895 *
## f.22009.0.8     8.608e-03  4.645e-03   1.853  0.06386 .
## f.22009.0.9    -7.368e-03  4.573e-03  -1.611  0.10717
## f.22009.0.10    4.640e-03  5.113e-03   0.907  0.36420
## f.22009.0.11    6.174e-04  6.035e-03   0.102  0.91852
## f.22009.0.12    4.504e-03  5.252e-03   0.858  0.39105
## f.22009.0.13   -6.182e-03  4.221e-03  -1.465  0.14301
## f.22009.0.14   -9.269e-03  4.605e-03  -2.013  0.04415 *
## f.22009.0.15    3.426e-03  4.584e-03   0.747  0.45494
## f.22009.0.16   -1.236e-02  4.543e-03  -2.721  0.00650 **
## f.22009.0.17   -1.419e-03  4.175e-03  -0.340  0.73392
## f.22009.0.18    1.345e-03  4.297e-03   0.313  0.75434
## f.22009.0.19    2.973e-03  4.152e-03   0.716  0.47403
## f.22009.0.20   -2.319e-03  4.194e-03  -0.553  0.58024
## f.34.0.0        2.055e-02  5.487e-04  37.457  < 2e-16 ***
## f.22000.0.0-1   9.123e-03  5.866e-02   0.156  0.87640
## f.22000.0.010   1.770e-02  5.907e-02   0.300  0.76445
## f.22000.0.0-10  7.982e-02  5.860e-02   1.362  0.17317
## f.22000.0.011   7.954e-02  5.790e-02   1.374  0.16950
## f.22000.0.0-11  1.129e-01  5.814e-02   1.941  0.05223 .
## f.22000.0.012   5.547e-02  6.020e-02   0.921  0.35688
## f.22000.0.013   3.147e-02  5.848e-02   0.538  0.59050
## f.22000.0.014   2.247e-03  5.696e-02   0.039  0.96853
## f.22000.0.015   8.205e-02  5.782e-02   1.419  0.15584
## f.22000.0.016   5.921e-02  5.792e-02   1.022  0.30667
## f.22000.0.017   6.023e-02  5.880e-02   1.024  0.30567
## f.22000.0.018  -2.565e-03  5.892e-02  -0.044  0.96527
## f.22000.0.019   5.533e-02  5.751e-02   0.962  0.33604
## f.22000.0.02    8.646e-02  5.771e-02   1.498  0.13410
## f.22000.0.0-2   1.098e-01  5.850e-02   1.877  0.06046 .
## f.22000.0.020   2.847e-02  5.885e-02   0.484  0.62862
## f.22000.0.021   6.662e-02  5.874e-02   1.134  0.25674
## f.22000.0.022   5.269e-02  5.935e-02   0.888  0.37464
## f.22000.0.023   3.388e-02  5.708e-02   0.594  0.55284
## f.22000.0.024   4.975e-02  5.806e-02   0.857  0.39159
## f.22000.0.025   6.640e-02  5.922e-02   1.121  0.26218
## f.22000.0.026  -5.865e-03  5.874e-02  -0.100  0.92046
## f.22000.0.027   7.625e-02  5.756e-02   1.325  0.18523
## f.22000.0.028   4.906e-02  5.817e-02   0.843  0.39903
## f.22000.0.029   6.969e-02  5.935e-02   1.174  0.24033
## f.22000.0.03    3.345e-02  5.701e-02   0.587  0.55743
## f.22000.0.0-3   1.994e-02  5.735e-02   0.348  0.72811
## f.22000.0.030   1.335e-02  5.910e-02   0.226  0.82129
## f.22000.0.031  -1.457e-03  5.825e-02  -0.025  0.98004
## f.22000.0.032   3.646e-02  5.708e-02   0.639  0.52298
## f.22000.0.033   6.629e-02  5.996e-02   1.106  0.26894
## f.22000.0.034   3.957e-02  5.773e-02   0.685  0.49316
## f.22000.0.035   5.839e-02  5.781e-02   1.010  0.31254
## f.22000.0.036   5.405e-02  5.682e-02   0.951  0.34147
## f.22000.0.037   3.322e-02  5.904e-02   0.563  0.57370
## f.22000.0.038   9.164e-02  5.730e-02   1.599  0.10978
## f.22000.0.039   3.358e-02  5.889e-02   0.570  0.56848
## f.22000.0.04    1.371e-02  5.909e-02   0.232  0.81650
## f.22000.0.0-4   1.192e-01  5.877e-02   2.028  0.04257 *
## f.22000.0.040   3.271e-02  5.756e-02   0.568  0.56987
## f.22000.0.041   6.160e-02  5.922e-02   1.040  0.29826
```

```
## f.22000.0.042   4.453e-02  5.682e-02   0.784  0.43324
## f.22000.0.043  -3.146e-02  6.010e-02  -0.523  0.60066
## f.22000.0.044   2.979e-02  5.842e-02   0.510  0.61006
## f.22000.0.045   8.927e-02  5.842e-02   1.528  0.12649
## f.22000.0.046  -2.583e-02  5.836e-02  -0.443  0.65802
## f.22000.0.047   7.637e-03  5.865e-02   0.130  0.89640
## f.22000.0.048  -1.793e-02  5.954e-02  -0.301  0.76326
## f.22000.0.049   4.679e-02  5.826e-02   0.803  0.42191
## f.22000.0.05    3.277e-02  5.610e-02   0.584  0.55915
## f.22000.0.0-5   7.348e-02  5.771e-02   1.273  0.20294
## f.22000.0.050   3.450e-02  5.792e-02   0.596  0.55147
## f.22000.0.051   1.529e-01  5.659e-02   2.702  0.00689 **
## f.22000.0.052   5.036e-02  5.781e-02   0.871  0.38368
## f.22000.0.053  -2.045e-02  5.834e-02  -0.350  0.72598
## f.22000.0.054   1.508e-02  5.871e-02   0.257  0.79722
## f.22000.0.055   3.203e-02  5.874e-02   0.545  0.58550
## f.22000.0.056   1.164e-01  6.017e-02   1.935  0.05302 .
## f.22000.0.057   8.185e-02  6.069e-02   1.349  0.17749
## f.22000.0.058   9.331e-02  5.910e-02   1.579  0.11434
## f.22000.0.059   8.197e-02  5.701e-02   1.438  0.15048
## f.22000.0.06    4.828e-02  5.769e-02   0.837  0.40259
## f.22000.0.0-6   7.771e-02  5.740e-02   1.354  0.17578
## f.22000.0.060   6.091e-02  5.874e-02   1.037  0.29977
## f.22000.0.061   9.839e-02  5.960e-02   1.651  0.09879 .
## f.22000.0.062   4.963e-02  5.951e-02   0.834  0.40430
## f.22000.0.063   2.318e-02  5.901e-02   0.393  0.69438
## f.22000.0.064   4.401e-02  5.879e-02   0.749  0.45410
## f.22000.0.065   5.109e-02  5.986e-02   0.853  0.39344
## f.22000.0.066   3.517e-03  5.922e-02   0.059  0.95264
## f.22000.0.067   3.302e-03  5.885e-02   0.056  0.95526
## f.22000.0.068   2.374e-02  5.993e-02   0.396  0.69196
## f.22000.0.069   6.003e-02  5.856e-02   1.025  0.30533
## f.22000.0.07    5.211e-02  5.777e-02   0.902  0.36709
## f.22000.0.0-7   7.990e-02  5.854e-02   1.365  0.17230
## f.22000.0.070   8.329e-03  5.979e-02   0.139  0.88921
## f.22000.0.071   4.110e-03  5.874e-02   0.070  0.94421
## f.22000.0.072   4.800e-02  5.831e-02   0.823  0.41040
## f.22000.0.073   5.983e-02  5.954e-02   1.005  0.31495
## f.22000.0.074   5.052e-02  5.925e-02   0.853  0.39379
## f.22000.0.075   8.017e-02  5.862e-02   1.368  0.17145
## f.22000.0.076   8.063e-02  5.910e-02   1.364  0.17243
## f.22000.0.077   7.442e-02  5.856e-02   1.271  0.20380
## f.22000.0.078  -1.997e-03  5.804e-02  -0.034  0.97256
## f.22000.0.079   9.268e-03  5.892e-02   0.157  0.87501
## f.22000.0.08   -5.973e-03  5.782e-02  -0.103  0.91773
## f.22000.0.0-8   9.692e-02  5.851e-02   1.657  0.09762 .
## f.22000.0.080   1.209e-01  5.987e-02   2.020  0.04341 *
## f.22000.0.081   6.249e-02  6.110e-02   1.023  0.30646
## f.22000.0.082   3.952e-02  5.944e-02   0.665  0.50618
## f.22000.0.083   6.678e-02  6.144e-02   1.087  0.27707
## f.22000.0.084   3.740e-02  5.916e-02   0.632  0.52729
## f.22000.0.085   3.132e-02  5.989e-02   0.523  0.60103
## f.22000.0.086   1.758e-02  6.073e-02   0.289  0.77224
## f.22000.0.087   3.264e-02  5.897e-02   0.553  0.57994
## f.22000.0.088   1.085e-02  6.160e-02   0.176  0.86019
## f.22000.0.089   8.935e-02  6.056e-02   1.475  0.14011
## f.22000.0.09    4.052e-02  5.825e-02   0.696  0.48667
## f.22000.0.0-9   6.126e-02  5.847e-02   1.048  0.29480
## f.22000.0.090   2.065e-02  5.857e-02   0.353  0.72442
## f.22000.0.091  -4.525e-02  5.922e-02  -0.764  0.44480
## f.22000.0.092   5.129e-02  5.671e-02   0.904  0.36582
## f.22000.0.093   8.559e-02  5.898e-02   1.451  0.14670
## f.22000.0.094   1.136e-01  7.872e-02   1.443  0.14911
## f.22000.0.095   4.512e-02  6.318e-02   0.714  0.47516
## f.22001.0.01   -1.253e-01  8.401e-03 -14.915  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9848 on 56227 degrees of freedom
##   (63510 observations deleted due to missingness)
## Multiple R-squared:  0.03365,    Adjusted R-squared:  0.03144
## F-statistic: 15.18 on 129 and 56227 DF,  p-value: < 2.2e-16
```

```
## Selfharmscore

# anxietyscore
summary(lm(selfharmscore ~  anxietyscore + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ anxietyscore + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.8796 -0.9872 -0.2581  0.8359  4.2333
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.376e+01  1.858e+00 -18.176  < 2e-16 ***
## anxietyscore    3.095e-01  7.172e-03  43.158  < 2e-16 ***
## pgsfive         2.959e-02  7.097e-03   4.169 3.07e-05 ***
## f.22009.0.1     1.800e-02  7.444e-03   2.418  0.01561 *
## f.22009.0.2    -1.597e-02  7.198e-03  -2.218  0.02656 *
## f.22009.0.3    -6.331e-03  7.348e-03  -0.862  0.38891
## f.22009.0.4    -6.154e-03  1.031e-02  -0.597  0.55044
## f.22009.0.5    -8.935e-03  9.935e-03  -0.899  0.36848
## f.22009.0.6     1.386e-02  7.298e-03   1.899  0.05761 .
## f.22009.0.7    -1.077e-02  7.386e-03  -1.458  0.14481
## f.22009.0.8     4.915e-03  7.896e-03   0.623  0.53358
## f.22009.0.9    -1.527e-02  7.576e-03  -2.016  0.04386 *
## f.22009.0.10    6.823e-03  8.778e-03   0.777  0.43704
## f.22009.0.11   -3.177e-03  1.024e-02  -0.310  0.75638
## f.22009.0.12    4.826e-03  8.883e-03   0.543  0.58695
## f.22009.0.13   -3.153e-03  7.144e-03  -0.441  0.65900
## f.22009.0.14   -1.726e-02  7.655e-03  -2.255  0.02414 *
## f.22009.0.15    2.202e-03  7.795e-03   0.282  0.77757
## f.22009.0.16   -2.129e-02  7.653e-03  -2.782  0.00541 **
## f.22009.0.17    2.882e-03  7.082e-03   0.407  0.68400
## f.22009.0.18    3.003e-04  7.148e-03   0.042  0.96649
## f.22009.0.19   -2.723e-03  7.089e-03  -0.384  0.70085
## f.22009.0.20   -2.878e-03  7.084e-03  -0.406  0.68457
## f.34.0.0        1.753e-02  9.498e-04  18.456  < 2e-16 ***
## f.22000.0.0-1   6.590e-02  1.005e-01   0.656  0.51190
## f.22000.0.010  -5.586e-02  1.010e-01  -0.553  0.58025
## f.22000.0.0-10  9.713e-02  1.001e-01   0.970  0.33181
## f.22000.0.011   2.200e-02  9.688e-02   0.227  0.82039
## f.22000.0.0-11  3.928e-02  1.006e-01   0.391  0.69617
## f.22000.0.012  -3.414e-02  9.925e-02  -0.344  0.73086
## f.22000.0.013  -5.055e-02  9.801e-02  -0.516  0.60602
## f.22000.0.014  -2.919e-02  9.733e-02  -0.300  0.76427
## f.22000.0.015   5.922e-02  9.868e-02   0.600  0.54841
## f.22000.0.016   8.860e-02  9.794e-02   0.905  0.36563
## f.22000.0.017   7.630e-02  1.007e-01   0.758  0.44854
## f.22000.0.018   1.847e-02  9.888e-02   0.187  0.85181
## f.22000.0.019   6.845e-02  9.851e-02   0.695  0.48711
## f.22000.0.02   -8.688e-03  9.690e-02  -0.090  0.92856
## f.22000.0.0-2  -8.544e-03  9.634e-02  -0.089  0.92933
## f.22000.0.020  -1.166e-02  9.756e-02  -0.120  0.90486
## f.22000.0.021   1.090e-01  9.851e-02   1.106  0.26868
## f.22000.0.022  -6.174e-02  9.848e-02  -0.627  0.53067
## f.22000.0.023   4.419e-02  9.803e-02   0.451  0.65216
## f.22000.0.024   4.005e-03  9.757e-02   0.041  0.96726
## f.22000.0.025   1.197e-03  1.003e-01   0.012  0.99048
## f.22000.0.026  -1.106e-01  9.954e-02  -1.111  0.26668
## f.22000.0.027  -6.551e-02  9.811e-02  -0.668  0.50430
```

```
## f.22000.0.028   2.125e-02  9.706e-02   0.219  0.82674
## f.22000.0.029  -1.461e-01  9.616e-02  -1.519  0.12873
## f.22000.0.03    6.256e-02  9.946e-02   0.629  0.52933
## f.22000.0.0-3   4.174e-02  9.955e-02   0.419  0.67500
## f.22000.0.030  -1.166e-01  9.689e-02  -1.204  0.22867
## f.22000.0.031  -1.106e-01  9.648e-02  -1.146  0.25168
## f.22000.0.032  -5.065e-02  9.858e-02  -0.514  0.60736
## f.22000.0.033   1.374e-02  1.001e-01   0.137  0.89076
## f.22000.0.034   7.998e-02  9.803e-02   0.816  0.41458
## f.22000.0.035   1.623e-02  9.867e-02   0.164  0.86935
## f.22000.0.036  -4.098e-03  9.995e-02  -0.041  0.96730
## f.22000.0.037  -1.506e-01  1.023e-01  -1.472  0.14101
## f.22000.0.038   1.603e-01  9.986e-02   1.605  0.10846
## f.22000.0.039   1.742e-02  9.868e-02   0.177  0.85989
## f.22000.0.04    2.684e-02  1.008e-01   0.266  0.79002
## f.22000.0.0-4   1.350e-01  1.008e-01   1.339  0.18047
## f.22000.0.040   2.472e-03  9.793e-02   0.025  0.97986
## f.22000.0.041  -2.725e-02  1.004e-01  -0.271  0.78602
## f.22000.0.042  -2.664e-02  9.849e-02  -0.270  0.78682
## f.22000.0.043  -4.068e-02  1.016e-01  -0.400  0.68880
## f.22000.0.044   9.126e-02  9.665e-02   0.944  0.34506
## f.22000.0.045  -3.006e-02  1.000e-01  -0.301  0.76379
## f.22000.0.046  -2.264e-02  9.964e-02  -0.227  0.82028
## f.22000.0.047  -7.940e-02  9.865e-02  -0.805  0.42089
## f.22000.0.048   1.986e-02  9.840e-02   0.202  0.84002
## f.22000.0.049   2.089e-03  9.914e-02   0.021  0.98319
## f.22000.0.05    4.740e-02  9.723e-02   0.488  0.62591
## f.22000.0.0-5   4.007e-02  9.925e-02   0.404  0.68640
## f.22000.0.050   5.047e-02  1.022e-01   0.494  0.62129
## f.22000.0.051   1.730e-01  9.822e-02   1.761  0.07823 .
## f.22000.0.052  -1.559e-02  9.974e-02  -0.156  0.87578
## f.22000.0.053   4.105e-02  1.020e-01   0.402  0.68739
## f.22000.0.054   9.362e-02  9.868e-02   0.949  0.34277
## f.22000.0.055   1.821e-01  9.820e-02   1.854  0.06371 .
## f.22000.0.056   4.361e-02  1.008e-01   0.433  0.66526
## f.22000.0.057   6.306e-02  9.733e-02   0.648  0.51710
## f.22000.0.058   7.580e-02  1.004e-01   0.755  0.45010
## f.22000.0.059   4.053e-02  1.010e-01   0.401  0.68831
## f.22000.0.06   -2.343e-02  9.649e-02  -0.243  0.80813
## f.22000.0.0-6   2.335e-03  9.805e-02   0.024  0.98100
## f.22000.0.060  -9.764e-02  9.715e-02  -1.005  0.31488
## f.22000.0.061   7.009e-02  1.004e-01   0.698  0.48508
## f.22000.0.062   1.516e-01  1.016e-01   1.493  0.13554
## f.22000.0.063  -8.414e-03  1.009e-01  -0.083  0.93354
## f.22000.0.064  -1.615e-01  9.885e-02  -1.634  0.10222
## f.22000.0.065   4.022e-03  1.002e-01   0.040  0.96798
## f.22000.0.066  -4.952e-02  1.007e-01  -0.492  0.62289
## f.22000.0.067  -7.176e-02  9.966e-02  -0.720  0.47153
## f.22000.0.068   1.503e-02  9.837e-02   0.153  0.87855
## f.22000.0.069  -2.165e-02  9.804e-02  -0.221  0.82525
## f.22000.0.07   -6.136e-02  9.631e-02  -0.637  0.52404
## f.22000.0.0-7   9.594e-03  9.954e-02   0.096  0.92322
## f.22000.0.070   1.102e-02  1.009e-01   0.109  0.91307
## f.22000.0.071  -2.740e-02  9.953e-02  -0.275  0.78308
## f.22000.0.072   1.344e-01  1.003e-01   1.341  0.18007
## f.22000.0.073  -2.382e-02  1.018e-01  -0.234  0.81499
## f.22000.0.074   2.491e-02  1.003e-01   0.248  0.80377
## f.22000.0.075   2.112e-01  9.838e-02   2.146  0.03186 *
## f.22000.0.076   2.099e-04  1.013e-01   0.002  0.99835
## f.22000.0.077   6.982e-02  1.025e-01   0.681  0.49573
## f.22000.0.078  -9.889e-02  9.935e-02  -0.995  0.31955
## f.22000.0.079  -8.691e-02  9.820e-02  -0.885  0.37614
## f.22000.0.08   -1.668e-02  9.936e-02  -0.168  0.86667
## f.22000.0.0-8   9.309e-02  9.965e-02   0.934  0.35023
## f.22000.0.080   2.698e-03  9.868e-02   0.027  0.97819
## f.22000.0.081  -6.439e-02  1.007e-01  -0.640  0.52249
## f.22000.0.082  -3.897e-02  1.022e-01  -0.382  0.70283
## f.22000.0.083  -1.377e-01  1.006e-01  -1.369  0.17102
## f.22000.0.084   3.783e-02  9.820e-02   0.385  0.70007
## f.22000.0.085   1.386e-01  1.006e-01   1.378  0.16824
## f.22000.0.086  -3.671e-03  9.897e-02  -0.037  0.97041
## f.22000.0.087   1.098e-01  1.005e-01   1.093  0.27461
## f.22000.0.088  -2.067e-03  1.020e-01  -0.020  0.98384
```

```
## f.22000.0.088  -2.067e-03  1.020e-01  -0.020  0.98384
## f.22000.0.089   5.168e-02  1.008e-01   0.513  0.60819
## f.22000.0.09    1.563e-01  9.945e-02   1.572  0.11597
## f.22000.0.0-9   1.040e-01  9.749e-02   1.067  0.28595
## f.22000.0.090   1.354e-02  1.001e-01   0.135  0.89240
## f.22000.0.091  -1.242e-02  1.039e-01  -0.120  0.90487
## f.22000.0.092   6.594e-02  1.014e-01   0.650  0.51566
## f.22000.0.093  -4.305e-02  1.031e-01  -0.417  0.67636
## f.22000.0.094  -2.588e-03  1.326e-01  -0.020  0.98443
## f.22000.0.095   6.395e-02  1.085e-01   0.590  0.55551
## f.22001.0.01    1.593e-02  1.472e-02   1.083  0.27902
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.182 on 28047 degrees of freedom
##   (91690 observations deleted due to missingness)
## Multiple R-squared:  0.08776,    Adjusted R-squared:  0.08356
## F-statistic: 20.92 on 129 and 28047 DF,  p-value: < 2.2e-16
```

```
#depressionscore
summary(lm(selfharmscore ~  depressionscore + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.
4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.2
2009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ depressionscore + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.0198 -0.8180 -0.2158  0.6541  4.5685
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)     -2.510e+01  1.420e+00 -17.670  < 2e-16 ***
## depressionscore  4.974e-01  5.572e-03  89.272  < 2e-16 ***
## pgsfive          3.368e-02  5.370e-03   6.271 3.61e-10 ***
## f.22009.0.1      5.696e-03  5.650e-03   1.008  0.31343
## f.22009.0.2     -6.007e-03  5.432e-03  -1.106  0.26883
## f.22009.0.3      2.721e-03  5.589e-03   0.487  0.62637
## f.22009.0.4     -1.032e-02  7.784e-03  -1.326  0.18478
## f.22009.0.5     -4.056e-03  7.532e-03  -0.538  0.59026
## f.22009.0.6      3.208e-03  5.538e-03   0.579  0.56240
## f.22009.0.7     -8.622e-03  5.672e-03  -1.520  0.12848
## f.22009.0.8      4.189e-03  5.993e-03   0.699  0.48451
## f.22009.0.9     -1.762e-02  5.731e-03  -3.074  0.00212 **
## f.22009.0.10    -1.618e-03  6.653e-03  -0.243  0.80788
## f.22009.0.11    -5.244e-03  7.764e-03  -0.675  0.49941
## f.22009.0.12     1.464e-02  6.746e-03   2.170  0.03004 *
## f.22009.0.13    -9.474e-04  5.439e-03  -0.174  0.86173
## f.22009.0.14    -1.603e-02  5.775e-03  -2.776  0.00551 **
## f.22009.0.15     2.814e-03  5.920e-03   0.475  0.63453
## f.22009.0.16    -1.261e-02  5.842e-03  -2.159  0.03083 *
## f.22009.0.17     3.779e-03  5.381e-03   0.702  0.48248
## f.22009.0.18    -7.734e-03  5.423e-03  -1.426  0.15384
## f.22009.0.19     3.574e-03  5.359e-03   0.667  0.50486
## f.22009.0.20    -9.269e-04  5.391e-03  -0.172  0.86350
## f.34.0.0         1.302e-02  7.266e-04  17.919  < 2e-16 ***
## f.22000.0.0-1    6.567e-02  7.592e-02   0.865  0.38708
## f.22000.0.010   -1.233e-01  7.629e-02  -1.616  0.10613
## f.22000.0.0-10   3.404e-02  7.679e-02   0.443  0.65761
## f.22000.0.011    3.481e-02  7.587e-02   0.459  0.64634
## f.22000.0.0-11   1.683e-02  7.663e-02   0.220  0.82620
## f.22000.0.012   -2.097e-02  7.602e-02  -0.276  0.78270
## f.22000.0.013   -3.689e-02  7.550e-02  -0.489  0.62513
```

```
## f.22000.0.014   -3.660e-02  7.587e-02  -0.482  0.62951
## f.22000.0.015    5.012e-02  7.545e-02   0.664  0.50655
## f.22000.0.016    2.570e-02  7.549e-02   0.340  0.73350
## f.22000.0.017   -3.399e-02  7.627e-02  -0.446  0.65585
## f.22000.0.018   -8.505e-02  7.584e-02  -1.122  0.26208
## f.22000.0.019   -2.937e-02  7.477e-02  -0.393  0.69451
## f.22000.0.02    -2.906e-02  7.430e-02  -0.391  0.69575
## f.22000.0.0-2    3.795e-02  7.612e-02   0.498  0.61814
## f.22000.0.020    3.612e-02  7.716e-02   0.468  0.63975
## f.22000.0.021    3.331e-02  7.673e-02   0.434  0.66419
## f.22000.0.022   -6.341e-02  7.695e-02  -0.824  0.40992
## f.22000.0.023    2.310e-02  7.673e-02   0.301  0.76335
## f.22000.0.024    1.775e-02  7.521e-02   0.236  0.81348
## f.22000.0.025    2.107e-02  7.569e-02   0.278  0.78070
## f.22000.0.026   -9.193e-02  7.695e-02  -1.195  0.23224
## f.22000.0.027    4.516e-03  7.535e-02   0.060  0.95221
## f.22000.0.028    3.357e-03  7.494e-02   0.045  0.96427
## f.22000.0.029   -9.385e-02  7.540e-02  -1.245  0.21320
## f.22000.0.03    -5.802e-02  7.513e-02  -0.772  0.43992
## f.22000.0.0-3   -4.902e-02  7.587e-02  -0.646  0.51825
## f.22000.0.030   -7.589e-02  7.535e-02  -1.007  0.31387
## f.22000.0.031   -5.027e-03  7.648e-02  -0.066  0.94760
## f.22000.0.032   -6.970e-02  7.685e-02  -0.907  0.36445
## f.22000.0.033   -5.279e-02  7.772e-02  -0.679  0.49700
## f.22000.0.034    8.787e-02  7.622e-02   1.153  0.24897
## f.22000.0.035   -3.145e-02  7.582e-02  -0.415  0.67832
## f.22000.0.036   -8.090e-02  7.484e-02  -1.081  0.27973
## f.22000.0.037   -9.552e-02  7.701e-02  -1.240  0.21486
## f.22000.0.038    2.201e-02  7.705e-02   0.286  0.77511
## f.22000.0.039   -9.596e-02  7.649e-02  -1.254  0.20968
## f.22000.0.04    -9.738e-03  7.755e-02  -0.126  0.90008
## f.22000.0.0-4   -4.398e-02  7.568e-02  -0.581  0.56112
## f.22000.0.040   -5.992e-03  7.598e-02  -0.079  0.93714
## f.22000.0.041    4.197e-02  7.700e-02   0.545  0.58574
## f.22000.0.042   -6.007e-03  7.831e-02  -0.077  0.93886
## f.22000.0.043   -3.755e-02  7.701e-02  -0.488  0.62582
## f.22000.0.044    6.104e-02  7.659e-02   0.797  0.42547
## f.22000.0.045   -1.538e-02  7.679e-02  -0.200  0.84127
## f.22000.0.046   -3.892e-02  7.900e-02  -0.493  0.62227
## f.22000.0.047   -6.895e-02  7.678e-02  -0.898  0.36916
## f.22000.0.048   -3.413e-02  7.588e-02  -0.450  0.65288
## f.22000.0.049   -3.087e-02  7.617e-02  -0.405  0.68525
## f.22000.0.05     4.126e-02  7.601e-02   0.543  0.58725
## f.22000.0.0-5    4.163e-02  7.508e-02   0.555  0.57923
## f.22000.0.050   -2.028e-02  7.744e-02  -0.262  0.79346
## f.22000.0.051    7.170e-02  7.616e-02   0.941  0.34652
## f.22000.0.052    6.438e-02  7.790e-02   0.826  0.40858
## f.22000.0.053    3.767e-02  7.790e-02   0.484  0.62868
## f.22000.0.054    6.820e-02  7.618e-02   0.895  0.37069
## f.22000.0.055    7.974e-02  7.598e-02   1.049  0.29397
## f.22000.0.056    3.228e-02  7.888e-02   0.409  0.68234
## f.22000.0.057    2.257e-02  7.583e-02   0.298  0.76599
## f.22000.0.058    9.733e-02  7.762e-02   1.254  0.20987
## f.22000.0.059    2.632e-02  7.711e-02   0.341  0.73280
## f.22000.0.06    -3.047e-02  7.469e-02  -0.408  0.68327
## f.22000.0.0-6    7.979e-03  7.504e-02   0.106  0.91532
## f.22000.0.060   -1.196e-01  7.705e-02  -1.552  0.12066
## f.22000.0.061   -6.871e-02  7.674e-02  -0.895  0.37061
## f.22000.0.062    6.019e-02  7.839e-02   0.768  0.44253
## f.22000.0.063   -1.097e-01  7.668e-02  -1.431  0.15235
## f.22000.0.064   -6.533e-02  7.673e-02  -0.851  0.39458
## f.22000.0.065   -6.359e-02  7.785e-02  -0.817  0.41401
## f.22000.0.066   -1.155e-02  7.743e-02  -0.149  0.88145
## f.22000.0.067   -3.281e-02  7.756e-02  -0.423  0.67224
## f.22000.0.068   -4.016e-02  7.733e-02  -0.519  0.60351
## f.22000.0.069   -7.725e-02  7.844e-02  -0.985  0.32469
## f.22000.0.07    -1.189e-01  7.392e-02  -1.609  0.10772
## f.22000.0.0-7   -4.175e-02  7.637e-02  -0.547  0.58459
## f.22000.0.070   -8.413e-02  7.733e-02  -1.088  0.27664
## f.22000.0.071   -1.584e-02  7.647e-02  -0.207  0.83591
## f.22000.0.072    1.856e-02  7.706e-02   0.241  0.80966
## f.22000.0.073   -8.385e-02  7.663e-02  -1.094  0.27390
## f.22000.0.074   -2.536e-02  7.705e-02  -0.329  0.74205
```

```
## f.22000.0.074   -2.556e-02  7.705e-02  -0.329  0.74203
## f.22000.0.075    6.397e-02  7.869e-02   0.813  0.41621
## f.22000.0.076    3.157e-02  7.761e-02   0.407  0.68420
## f.22000.0.077    1.539e-02  7.749e-02   0.199  0.84258
## f.22000.0.078   -8.285e-02  7.738e-02  -1.071  0.28435
## f.22000.0.079   -1.138e-01  7.587e-02  -1.500  0.13371
## f.22000.0.08    -1.722e-02  7.592e-02  -0.227  0.82061
## f.22000.0.0-8   -2.639e-03  7.706e-02  -0.034  0.97267
## f.22000.0.080    2.476e-02  7.814e-02   0.317  0.75139
## f.22000.0.081    2.479e-02  7.920e-02   0.313  0.75426
## f.22000.0.082   -6.472e-02  7.837e-02  -0.826  0.40891
## f.22000.0.083   -1.082e-01  7.711e-02  -1.404  0.16043
## f.22000.0.084   -6.476e-02  7.778e-02  -0.833  0.40512
## f.22000.0.085    2.768e-03  7.700e-02   0.036  0.97133
## f.22000.0.086   -1.475e-02  7.779e-02  -0.190  0.84956
## f.22000.0.087    3.150e-02  7.813e-02   0.403  0.68682
## f.22000.0.088    5.037e-03  7.946e-02   0.063  0.94946
## f.22000.0.089   -8.247e-03  7.887e-02  -0.105  0.91673
## f.22000.0.09    -2.960e-02  7.496e-02  -0.395  0.69295
## f.22000.0.0-9   -1.516e-02  7.582e-02  -0.200  0.84148
## f.22000.0.090   -2.048e-02  7.733e-02  -0.265  0.79116
## f.22000.0.091   -6.985e-02  8.123e-02  -0.860  0.38983
## f.22000.0.092   -1.842e-02  7.772e-02  -0.237  0.81263
## f.22000.0.093   -6.160e-02  7.796e-02  -0.790  0.42941
## f.22000.0.094    2.109e-02  9.859e-02   0.214  0.83057
## f.22000.0.095   -1.491e-02  8.445e-02  -0.177  0.85986
## f.22001.0.01     1.400e-01  1.135e-02  12.341  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.063 on 39349 degrees of freedom
##   (80388 observations deleted due to missingness)
## Multiple R-squared:  0.1951, Adjusted R-squared:  0.1925
## F-statistic: 73.96 on 129 and 39349 DF,  p-value: < 2.2e-16
```

```
# friendship satisfaction
summary(lm(selfharmscore ~  friendship + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ friendship + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.7158 -0.6240 -0.4089  0.4250  4.3047
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.814e+01  1.059e+00 -36.027  < 2e-16 ***
## friendship      1.285e-01  4.132e-03  31.090  < 2e-16 ***
## pgsfive         3.380e-02  4.119e-03   8.206 2.34e-16 ***
## f.22009.0.1     7.855e-03  4.332e-03   1.813  0.06978 .
## f.22009.0.2    -7.705e-05  4.172e-03  -0.018  0.98526
## f.22009.0.3    -4.777e-03  4.299e-03  -1.111  0.26649
## f.22009.0.4    -7.623e-03  6.002e-03  -1.270  0.20404
## f.22009.0.5     3.566e-03  5.903e-03   0.604  0.54580
## f.22009.0.6     6.789e-04  4.251e-03   0.160  0.87310
## f.22009.0.7    -5.856e-03  4.329e-03  -1.353  0.17617
## f.22009.0.8     6.103e-03  4.566e-03   1.337  0.18135
## f.22009.0.9    -1.072e-02  4.503e-03  -2.380  0.01729 *
## f.22009.0.10   -1.154e-04  5.071e-03  -0.023  0.98185
## f.22009.0.11    3.874e-03  5.968e-03   0.649  0.51632
## f.22009.0.12    1.354e-03  5.199e-03   0.261  0.79447
```

```
## f.22009.0.13   -5.510e-03  4.185e-03  -1.317  0.18792
## f.22009.0.14   -1.122e-02  4.537e-03  -2.472  0.01342 *
## f.22009.0.15   -9.888e-04  4.522e-03  -0.219  0.82689
## f.22009.0.16   -5.013e-03  4.469e-03  -1.122  0.26194
## f.22009.0.17    1.525e-04  4.141e-03   0.037  0.97061
## f.22009.0.18   -1.975e-03  4.249e-03  -0.465  0.64212
## f.22009.0.19    8.376e-04  4.103e-03   0.204  0.83824
## f.22009.0.20    2.680e-03  4.136e-03   0.648  0.51707
## f.34.0.0        1.955e-02  5.416e-04  36.105  < 2e-16 ***
## f.22000.0.0-1  -1.798e-02  5.830e-02  -0.308  0.75782
## f.22000.0.010   3.824e-02  5.812e-02   0.658  0.51056
## f.22000.0.0-10  5.263e-02  5.792e-02   0.909  0.36360
## f.22000.0.011   2.784e-02  5.663e-02   0.492  0.62303
## f.22000.0.0-11  9.446e-02  5.775e-02   1.636  0.10188
## f.22000.0.012   5.049e-02  5.937e-02   0.850  0.39512
## f.22000.0.013   3.107e-02  5.720e-02   0.543  0.58695
## f.22000.0.014  -1.329e-02  5.601e-02  -0.237  0.81251
## f.22000.0.015   9.104e-02  5.739e-02   1.586  0.11268
## f.22000.0.016   9.368e-02  5.742e-02   1.632  0.10277
## f.22000.0.017   5.592e-02  5.809e-02   0.963  0.33569
## f.22000.0.018   9.746e-03  5.821e-02   0.167  0.86703
## f.22000.0.019   6.805e-02  5.688e-02   1.196  0.23152
## f.22000.0.02    1.809e-02  5.723e-02   0.316  0.75200
## f.22000.0.0-2   1.239e-01  5.829e-02   2.126  0.03353 *
## f.22000.0.020   3.698e-02  5.851e-02   0.632  0.52729
## f.22000.0.021   2.814e-02  5.739e-02   0.490  0.62386
## f.22000.0.022   2.937e-02  5.839e-02   0.503  0.61498
## f.22000.0.023   3.477e-02  5.612e-02   0.620  0.53554
## f.22000.0.024   3.498e-02  5.698e-02   0.614  0.53929
## f.22000.0.025   7.781e-02  5.812e-02   1.339  0.18064
## f.22000.0.026   1.332e-02  5.803e-02   0.229  0.81852
## f.22000.0.027   2.948e-02  5.718e-02   0.516  0.60610
## f.22000.0.028   3.782e-02  5.827e-02   0.649  0.51634
## f.22000.0.029   2.581e-02  5.857e-02   0.441  0.65942
## f.22000.0.03    2.796e-02  5.618e-02   0.498  0.61873
## f.22000.0.0-3   5.604e-02  5.667e-02   0.989  0.32277
## f.22000.0.030   8.395e-04  5.747e-02   0.015  0.98834
## f.22000.0.031  -1.364e-02  5.739e-02  -0.238  0.81218
## f.22000.0.032   4.791e-02  5.631e-02   0.851  0.39481
## f.22000.0.033   3.144e-02  5.860e-02   0.537  0.59153
## f.22000.0.034   7.553e-02  5.682e-02   1.329  0.18373
## f.22000.0.035   7.922e-02  5.734e-02   1.382  0.16709
## f.22000.0.036   1.216e-01  5.635e-02   2.157  0.03101 *
## f.22000.0.037   1.628e-02  5.833e-02   0.279  0.78018
## f.22000.0.038   8.645e-02  5.662e-02   1.527  0.12678
## f.22000.0.039  -5.330e-03  5.854e-02  -0.091  0.92745
## f.22000.0.04    1.098e-02  5.800e-02   0.189  0.84991
## f.22000.0.0-4   9.175e-02  5.823e-02   1.575  0.11515
## f.22000.0.040   9.668e-03  5.687e-02   0.170  0.86502
## f.22000.0.041   5.648e-02  5.891e-02   0.959  0.33769
## f.22000.0.042   3.548e-02  5.580e-02   0.636  0.52492
## f.22000.0.043   5.314e-02  5.924e-02   0.897  0.36962
## f.22000.0.044   8.263e-02  5.707e-02   1.448  0.14767
## f.22000.0.045   6.320e-02  5.797e-02   1.090  0.27565
## f.22000.0.046  -3.672e-02  5.875e-02  -0.625  0.53192
## f.22000.0.047  -1.662e-02  5.788e-02  -0.287  0.77399
## f.22000.0.048   9.034e-03  5.812e-02   0.155  0.87647
## f.22000.0.049   4.998e-02  5.797e-02   0.862  0.38862
## f.22000.0.05    6.797e-02  5.574e-02   1.219  0.22269
## f.22000.0.0-5   8.896e-02  5.767e-02   1.543  0.12293
## f.22000.0.050   4.442e-02  5.703e-02   0.779  0.43604
## f.22000.0.051   1.472e-01  5.663e-02   2.599  0.00936 **
## f.22000.0.052  -1.100e-02  5.728e-02  -0.192  0.84777
## f.22000.0.053  -2.911e-02  5.742e-02  -0.507  0.61217
## f.22000.0.054   7.209e-02  5.821e-02   1.239  0.21554
## f.22000.0.055   8.097e-02  5.783e-02   1.400  0.16149
## f.22000.0.056   9.473e-02  5.930e-02   1.597  0.11017
## f.22000.0.057   7.837e-02  5.971e-02   1.313  0.18931
## f.22000.0.058   8.778e-02  5.836e-02   1.504  0.13253
## f.22000.0.059   5.601e-02  5.715e-02   0.980  0.32708
## f.22000.0.06    5.786e-02  5.700e-02   1.015  0.31006
## f.22000.0.0-6   9.306e-02  5.692e-02   1.635  0.10207
## f.22000.0.060   3.396e-02  5.803e-02   0.585  0.55837
```

```
## f.22000.0.060   3.396e-02  5.805e-02   0.585  0.55857
## f.22000.0.061   9.068e-02  6.039e-02   1.502  0.13322
## f.22000.0.062   8.304e-02  5.801e-02   1.432  0.15227
## f.22000.0.063   4.056e-02  5.780e-02   0.702  0.48284
## f.22000.0.064   3.425e-02  5.789e-02   0.592  0.55405
## f.22000.0.065   4.058e-02  5.841e-02   0.695  0.48727
## f.22000.0.066   3.688e-02  5.888e-02   0.626  0.53112
## f.22000.0.067  -2.586e-02  5.738e-02  -0.451  0.65228
## f.22000.0.068  -3.302e-02  5.924e-02  -0.557  0.57725
## f.22000.0.069   4.902e-02  5.800e-02   0.845  0.39797
## f.22000.0.07    4.334e-02  5.683e-02   0.763  0.44568
## f.22000.0.0-7   5.855e-02  5.775e-02   1.014  0.31066
## f.22000.0.070   1.965e-03  5.974e-02   0.033  0.97376
## f.22000.0.071   1.912e-02  5.778e-02   0.331  0.74071
## f.22000.0.072   3.220e-02  5.731e-02   0.562  0.57421
## f.22000.0.073   2.079e-04  5.992e-02   0.003  0.99723
## f.22000.0.074   5.675e-02  5.891e-02   0.963  0.33538
## f.22000.0.075   6.290e-02  5.794e-02   1.086  0.27768
## f.22000.0.076   1.050e-01  5.872e-02   1.788  0.07374 .
## f.22000.0.077   7.568e-02  5.785e-02   1.308  0.19086
## f.22000.0.078  -1.530e-02  5.809e-02  -0.263  0.79230
## f.22000.0.079   6.904e-03  5.812e-02   0.119  0.90543
## f.22000.0.08    1.025e-02  5.699e-02   0.180  0.85733
## f.22000.0.0-8   8.890e-02  5.772e-02   1.540  0.12355
## f.22000.0.080   9.853e-02  5.867e-02   1.679  0.09307 .
## f.22000.0.081   8.271e-02  5.985e-02   1.382  0.16694
## f.22000.0.082  -1.965e-02  5.953e-02  -0.330  0.74132
## f.22000.0.083   3.544e-02  6.024e-02   0.588  0.55632
## f.22000.0.084   8.020e-02  5.821e-02   1.378  0.16829
## f.22000.0.085   2.454e-02  5.884e-02   0.417  0.67662
## f.22000.0.086   3.050e-02  5.924e-02   0.515  0.60668
## f.22000.0.087   4.404e-02  5.809e-02   0.758  0.44831
## f.22000.0.088   2.000e-02  6.183e-02   0.324  0.74630
## f.22000.0.089   9.879e-02  5.901e-02   1.674  0.09416 .
## f.22000.0.09    2.865e-02  5.739e-02   0.499  0.61766
## f.22000.0.0-9   1.271e-01  5.771e-02   2.202  0.02766 *
## f.22000.0.090   3.965e-02  5.798e-02   0.684  0.49406
## f.22000.0.091  -2.776e-02  5.815e-02  -0.477  0.63312
## f.22000.0.092   4.429e-02  5.660e-02   0.782  0.43399
## f.22000.0.093   8.166e-02  5.821e-02   1.403  0.16067
## f.22000.0.094   4.013e-02  7.663e-02   0.524  0.60052
## f.22000.0.095   3.958e-02  6.221e-02   0.636  0.52459
## f.22001.0.01   -1.781e-01  8.334e-03 -21.366  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9759 on 56574 degrees of freedom
##   (63163 observations deleted due to missingness)
## Multiple R-squared:  0.05176,    Adjusted R-squared:  0.0496
## F-statistic: 23.94 on 129 and 56574 DF,  p-value: < 2.2e-16
```

```
# family satisfaction
summary(lm(selfharmscore ~  family + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22
009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12
+ f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ family + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.6027 -0.6221 -0.3964  0.4222  4.2877
##
## Coefficients:
```

```
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.755e+01  1.056e+00 -35.574  < 2e-16 ***
## family          1.555e-01  4.106e-03  37.878  < 2e-16 ***
## pgsfive         3.248e-02  4.109e-03   7.905 2.73e-15 ***
## f.22009.0.1     7.225e-03  4.325e-03   1.671  0.09479 .
## f.22009.0.2    -5.334e-04  4.158e-03  -0.128  0.89793
## f.22009.0.3    -2.219e-03  4.288e-03  -0.518  0.60478
## f.22009.0.4    -7.544e-03  5.987e-03  -1.260  0.20768
## f.22009.0.5     1.805e-03  5.888e-03   0.307  0.75918
## f.22009.0.6     1.513e-03  4.239e-03   0.357  0.72118
## f.22009.0.7    -5.976e-03  4.320e-03  -1.383  0.16657
## f.22009.0.8     5.501e-03  4.555e-03   1.208  0.22712
## f.22009.0.9    -1.232e-02  4.487e-03  -2.746  0.00603 **
## f.22009.0.10   -4.726e-04  5.057e-03  -0.093  0.92553
## f.22009.0.11    4.200e-03  5.950e-03   0.706  0.48029
## f.22009.0.12    7.397e-05  5.186e-03   0.014  0.98862
## f.22009.0.13   -4.630e-03  4.175e-03  -1.109  0.26743
## f.22009.0.14   -9.652e-03  4.526e-03  -2.133  0.03296 *
## f.22009.0.15    2.839e-04  4.510e-03   0.063  0.94980
## f.22009.0.16   -5.412e-03  4.452e-03  -1.215  0.22419
## f.22009.0.17   -4.418e-04  4.129e-03  -0.107  0.91477
## f.22009.0.18   -1.044e-03  4.236e-03  -0.246  0.80537
## f.22009.0.19    1.703e-03  4.090e-03   0.416  0.67706
## f.22009.0.20    4.366e-03  4.124e-03   1.059  0.28979
## f.34.0.0        1.925e-02  5.401e-04  35.641  < 2e-16 ***
## f.22000.0.0-1  -9.751e-03  5.814e-02  -0.168  0.86680
## f.22000.0.010   3.530e-02  5.802e-02   0.608  0.54295
## f.22000.0.0-10  4.411e-02  5.776e-02   0.764  0.44513
## f.22000.0.011   2.624e-02  5.644e-02   0.465  0.64204
## f.22000.0.0-11  9.423e-02  5.758e-02   1.636  0.10177
## f.22000.0.012   4.711e-02  5.924e-02   0.795  0.42643
## f.22000.0.013   2.764e-02  5.701e-02   0.485  0.62777
## f.22000.0.014  -1.196e-02  5.585e-02  -0.214  0.83043
## f.22000.0.015   1.003e-01  5.710e-02   1.756  0.07903 .
## f.22000.0.016   9.279e-02  5.712e-02   1.624  0.10428
## f.22000.0.017   5.792e-02  5.796e-02   0.999  0.31760
## f.22000.0.018   1.788e-02  5.804e-02   0.308  0.75808
## f.22000.0.019   6.891e-02  5.682e-02   1.213  0.22523
## f.22000.0.02    9.748e-03  5.713e-02   0.171  0.86450
## f.22000.0.0-2   1.199e-01  5.819e-02   2.060  0.03938 *
## f.22000.0.020   3.878e-02  5.831e-02   0.665  0.50600
## f.22000.0.021   2.383e-02  5.720e-02   0.417  0.67704
## f.22000.0.022   2.564e-02  5.823e-02   0.440  0.65972
## f.22000.0.023   3.391e-02  5.592e-02   0.606  0.54425
## f.22000.0.024   4.467e-02  5.687e-02   0.786  0.43215
## f.22000.0.025   7.839e-02  5.810e-02   1.349  0.17730
## f.22000.0.026   1.379e-02  5.793e-02   0.238  0.81185
## f.22000.0.027   3.535e-02  5.699e-02   0.620  0.53505
## f.22000.0.028   3.643e-02  5.796e-02   0.629  0.52966
## f.22000.0.029   3.831e-02  5.853e-02   0.655  0.51272
## f.22000.0.03    3.476e-02  5.599e-02   0.621  0.53479
## f.22000.0.0-3   6.405e-02  5.646e-02   1.134  0.25666
## f.22000.0.030   5.855e-03  5.737e-02   0.102  0.91870
## f.22000.0.031  -3.017e-03  5.707e-02  -0.053  0.95784
## f.22000.0.032   5.360e-02  5.605e-02   0.956  0.33898
## f.22000.0.033   3.153e-02  5.834e-02   0.540  0.58891
## f.22000.0.034   7.376e-02  5.671e-02   1.301  0.19338
## f.22000.0.035   7.539e-02  5.715e-02   1.319  0.18712
## f.22000.0.036   1.049e-01  5.620e-02   1.866  0.06198 .
## f.22000.0.037   1.435e-02  5.819e-02   0.247  0.80528
## f.22000.0.038   8.756e-02  5.643e-02   1.552  0.12078
## f.22000.0.039  -1.072e-02  5.828e-02  -0.184  0.85405
## f.22000.0.04    1.401e-02  5.790e-02   0.242  0.80879
## f.22000.0.0-4   9.741e-02  5.810e-02   1.677  0.09363 .
## f.22000.0.040   3.382e-03  5.666e-02   0.060  0.95240
## f.22000.0.041   6.833e-02  5.875e-02   1.163  0.24479
## f.22000.0.042   2.001e-02  5.556e-02   0.360  0.71869
## f.22000.0.043   4.245e-02  5.921e-02   0.717  0.47339
## f.22000.0.044   9.057e-02  5.686e-02   1.593  0.11120
## f.22000.0.045   7.170e-02  5.781e-02   1.240  0.21488
## f.22000.0.046  -3.305e-02  5.868e-02  -0.563  0.57330
## f.22000.0.047  -6.638e-03  5.764e-02  -0.115  0.90831
## f.22000.0.048   5.108e-03  5.784e-02   0.088  0.92963
```

```
## f.22000.0.048   5.108e-03  5.784e-02   0.088  0.92965
## f.22000.0.049   4.130e-02  5.787e-02   0.714  0.47538
## f.22000.0.05    6.287e-02  5.543e-02   1.134  0.25665
## f.22000.0.0-5   7.622e-02  5.748e-02   1.326  0.18484
## f.22000.0.050   5.220e-02  5.694e-02   0.917  0.35929
## f.22000.0.051   1.563e-01  5.622e-02   2.780  0.00544 **
## f.22000.0.052  -1.246e-02  5.712e-02  -0.218  0.82730
## f.22000.0.053  -1.326e-02  5.731e-02  -0.231  0.81700
## f.22000.0.054   6.812e-02  5.796e-02   1.175  0.23988
## f.22000.0.055   7.870e-02  5.759e-02   1.367  0.17174
## f.22000.0.056   8.876e-02  5.914e-02   1.501  0.13340
## f.22000.0.057   8.927e-02  5.954e-02   1.499  0.13380
## f.22000.0.058   8.251e-02  5.816e-02   1.419  0.15604
## f.22000.0.059   5.152e-02  5.696e-02   0.904  0.36577
## f.22000.0.06    5.991e-02  5.669e-02   1.057  0.29054
## f.22000.0.0-6   1.085e-01  5.673e-02   1.913  0.05572 .
## f.22000.0.060   3.795e-02  5.787e-02   0.656  0.51198
## f.22000.0.061   8.775e-02  6.019e-02   1.458  0.14486
## f.22000.0.062   9.235e-02  5.790e-02   1.595  0.11073
## f.22000.0.063   3.880e-02  5.769e-02   0.672  0.50127
## f.22000.0.064   3.971e-02  5.767e-02   0.689  0.49108
## f.22000.0.065   3.006e-02  5.828e-02   0.516  0.60599
## f.22000.0.066   3.932e-02  5.863e-02   0.671  0.50238
## f.22000.0.067  -1.687e-02  5.722e-02  -0.295  0.76808
## f.22000.0.068  -2.682e-02  5.914e-02  -0.453  0.65022
## f.22000.0.069   5.447e-02  5.798e-02   0.939  0.34752
## f.22000.0.07    4.055e-02  5.657e-02   0.717  0.47350
## f.22000.0.0-7   5.778e-02  5.767e-02   1.002  0.31643
## f.22000.0.070  -2.559e-03  5.958e-02  -0.043  0.96574
## f.22000.0.071   3.093e-02  5.765e-02   0.537  0.59154
## f.22000.0.072   3.941e-02  5.707e-02   0.690  0.48991
## f.22000.0.073   2.063e-03  5.983e-02   0.034  0.97249
## f.22000.0.074   4.637e-02  5.868e-02   0.790  0.42944
## f.22000.0.075   5.695e-02  5.767e-02   0.988  0.32340
## f.22000.0.076   1.020e-01  5.862e-02   1.740  0.08184 .
## f.22000.0.077   8.004e-02  5.772e-02   1.387  0.16554
## f.22000.0.078  -3.593e-03  5.790e-02  -0.062  0.95052
## f.22000.0.079   1.095e-02  5.795e-02   0.189  0.85014
## f.22000.0.08    5.531e-03  5.678e-02   0.097  0.92240
## f.22000.0.0-8   8.934e-02  5.753e-02   1.553  0.12048
## f.22000.0.080   9.504e-02  5.860e-02   1.622  0.10483
## f.22000.0.081   8.366e-02  5.961e-02   1.403  0.16051
## f.22000.0.082  -2.317e-02  5.930e-02  -0.391  0.69599
## f.22000.0.083   2.634e-02  6.001e-02   0.439  0.66075
## f.22000.0.084   8.264e-02  5.805e-02   1.424  0.15454
## f.22000.0.085   1.881e-02  5.856e-02   0.321  0.74799
## f.22000.0.086   4.303e-02  5.898e-02   0.730  0.46563
## f.22000.0.087   4.256e-02  5.784e-02   0.736  0.46180
## f.22000.0.088   1.414e-02  6.136e-02   0.230  0.81771
## f.22000.0.089   8.600e-02  5.876e-02   1.464  0.14328
## f.22000.0.09    2.708e-02  5.726e-02   0.473  0.63621
## f.22000.0.0-9   1.191e-01  5.755e-02   2.069  0.03856 *
## f.22000.0.090   3.213e-02  5.782e-02   0.556  0.57847
## f.22000.0.091  -3.059e-02  5.802e-02  -0.527  0.59798
## f.22000.0.092   4.318e-02  5.637e-02   0.766  0.44366
## f.22000.0.093   8.646e-02  5.811e-02   1.488  0.13679
## f.22000.0.094   3.377e-02  7.644e-02   0.442  0.65864
## f.22000.0.095   4.529e-02  6.204e-02   0.730  0.46537
## f.22001.0.01   -1.515e-01  8.273e-03 -18.313  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9739 on 56644 degrees of freedom
##   (63093 observations deleted due to missingness)
## Multiple R-squared:  0.05917,    Adjusted R-squared:  0.05703
## F-statistic: 27.62 on 129 and 56644 DF,  p-value: < 2.2e-16
```

```
# jobsatisfaction
summary(lm(selfharmscore ~  f.4537.0.0 + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ f.4537.0.0 + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.5275 -0.6609 -0.4417  0.4418  4.3042
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.142e+01  1.530e+00 -20.542  < 2e-16 ***
## f.4537.0.0      1.191e-01  5.824e-03  20.446  < 2e-16 ***
## pgsfive         3.708e-02  5.792e-03   6.402 1.55e-10 ***
## f.22009.0.1     8.163e-03  6.045e-03   1.350  0.17692
## f.22009.0.2    -1.294e-03  5.841e-03  -0.221  0.82472
## f.22009.0.3    -4.547e-04  5.991e-03  -0.076  0.93950
## f.22009.0.4    -1.483e-02  8.356e-03  -1.775  0.07591 .
## f.22009.0.5     8.095e-03  8.315e-03   0.974  0.33028
## f.22009.0.6    -3.926e-03  5.919e-03  -0.663  0.50713
## f.22009.0.7    -1.071e-02  6.041e-03  -1.774  0.07612 .
## f.22009.0.8     9.477e-03  6.383e-03   1.485  0.13765
## f.22009.0.9    -9.613e-03  6.537e-03  -1.471  0.14141
## f.22009.0.10    6.119e-03  7.078e-03   0.865  0.38732
## f.22009.0.11    3.542e-03  8.466e-03   0.418  0.67569
## f.22009.0.12    3.221e-03  7.305e-03   0.441  0.65921
## f.22009.0.13   -6.086e-03  5.849e-03  -1.040  0.29815
## f.22009.0.14   -1.686e-02  6.523e-03  -2.585  0.00975 **
## f.22009.0.15    2.185e-03  6.317e-03   0.346  0.72936
## f.22009.0.16   -1.240e-02  6.365e-03  -1.948  0.05141 .
## f.22009.0.17    4.388e-03  5.762e-03   0.761  0.44637
## f.22009.0.18   -3.518e-03  6.058e-03  -0.581  0.56140
## f.22009.0.19   -2.144e-03  5.757e-03  -0.372  0.70957
## f.22009.0.20    1.418e-03  5.830e-03   0.243  0.80784
## f.34.0.0        1.611e-02  7.817e-04  20.606  < 2e-16 ***
## f.22000.0.0-1   1.395e-02  8.203e-02   0.170  0.86500
## f.22000.0.010   6.662e-02  8.026e-02   0.830  0.40648
## f.22000.0.0-10  7.459e-02  8.153e-02   0.915  0.36026
## f.22000.0.011   4.790e-02  7.892e-02   0.607  0.54385
## f.22000.0.0-11  1.525e-01  7.851e-02   1.943  0.05204 .
## f.22000.0.012   3.480e-02  8.349e-02   0.417  0.67678
## f.22000.0.013   4.475e-02  8.010e-02   0.559  0.57641
## f.22000.0.014   1.376e-03  7.717e-02   0.018  0.98578
## f.22000.0.015   1.394e-01  7.904e-02   1.764  0.07772 .
## f.22000.0.016   1.451e-01  8.018e-02   1.809  0.07041 .
## f.22000.0.017   9.050e-02  8.195e-02   1.104  0.26943
## f.22000.0.018   2.504e-02  8.229e-02   0.304  0.76094
## f.22000.0.019   5.188e-02  7.905e-02   0.656  0.51162
## f.22000.0.02    5.243e-02  7.826e-02   0.670  0.50292
## f.22000.0.0-2   2.924e-02  8.160e-02   0.358  0.72008
## f.22000.0.020   3.345e-02  8.153e-02   0.410  0.68162
## f.22000.0.021   8.024e-02  8.128e-02   0.987  0.32351
## f.22000.0.022  -3.800e-03  8.180e-02  -0.046  0.96295
## f.22000.0.023   7.318e-02  7.727e-02   0.947  0.34364
## f.22000.0.024   1.001e-01  7.838e-02   1.277  0.20174
## f.22000.0.025  -2.466e-02  8.089e-02  -0.305  0.76044
## f.22000.0.026  -1.764e-02  8.012e-02  -0.220  0.82571
## f.22000.0.027   2.905e-02  7.918e-02   0.367  0.71373
## f.22000.0.028   2.295e-02  8.194e-02   0.280  0.77943
## f.22000.0.029   9.177e-02  8.229e-02   1.115  0.26476
## f.22000.0.03    1.180e-02  7.751e-02   0.152  0.87900
```

```
## f.22000.0.03    1.180e-02  7.751e-02   0.152  0.87900
## f.22000.0.0-3   3.031e-02  7.870e-02   0.385  0.70013
## f.22000.0.030   2.926e-02  8.203e-02   0.357  0.72133
## f.22000.0.031   1.840e-02  7.974e-02   0.231  0.81746
## f.22000.0.032  -7.079e-03  7.818e-02  -0.091  0.92786
## f.22000.0.033   4.772e-02  8.213e-02   0.581  0.56120
## f.22000.0.034   2.352e-02  7.904e-02   0.298  0.76605
## f.22000.0.035   8.453e-02  7.938e-02   1.065  0.28695
## f.22000.0.036   1.499e-01  7.660e-02   1.957  0.05038 .
## f.22000.0.037  -2.387e-02  8.080e-02  -0.295  0.76769
## f.22000.0.038   7.936e-02  7.769e-02   1.022  0.30702
## f.22000.0.039   2.082e-02  8.152e-02   0.255  0.79841
## f.22000.0.04    1.241e-02  8.136e-02   0.153  0.87877
## f.22000.0.0-4   1.386e-01  8.169e-02   1.697  0.08971 .
## f.22000.0.040   1.459e-02  7.782e-02   0.187  0.85130
## f.22000.0.041   4.540e-02  7.946e-02   0.571  0.56778
## f.22000.0.042   6.991e-02  7.727e-02   0.905  0.36564
## f.22000.0.043   8.686e-02  8.194e-02   1.060  0.28913
## f.22000.0.044   1.160e-01  7.897e-02   1.469  0.14181
## f.22000.0.045   8.040e-02  7.975e-02   1.008  0.31337
## f.22000.0.046  -8.365e-02  8.111e-02  -1.031  0.30239
## f.22000.0.047   3.317e-02  7.939e-02   0.418  0.67613
## f.22000.0.048   1.770e-02  8.178e-02   0.216  0.82861
## f.22000.0.049  -5.552e-03  8.025e-02  -0.069  0.94484
## f.22000.0.05    8.387e-02  7.540e-02   1.112  0.26597
## f.22000.0.0-5   5.624e-02  7.939e-02   0.708  0.47869
## f.22000.0.050   4.543e-02  7.844e-02   0.579  0.56245
## f.22000.0.051   1.362e-01  7.688e-02   1.771  0.07653 .
## f.22000.0.052   2.121e-02  7.870e-02   0.269  0.78755
## f.22000.0.053  -1.678e-02  8.128e-02  -0.206  0.83642
## f.22000.0.054   3.198e-02  7.981e-02   0.401  0.68860
## f.22000.0.055   8.503e-02  7.864e-02   1.081  0.27960
## f.22000.0.056   1.535e-01  8.460e-02   1.815  0.06954 .
## f.22000.0.057   1.371e-01  8.255e-02   1.661  0.09667 .
## f.22000.0.058   6.888e-02  8.064e-02   0.854  0.39301
## f.22000.0.059   5.607e-02  7.704e-02   0.728  0.46670
## f.22000.0.06    6.769e-02  7.794e-02   0.869  0.38511
## f.22000.0.0-6   9.414e-02  7.825e-02   1.203  0.22894
## f.22000.0.060   3.440e-02  7.925e-02   0.434  0.66422
## f.22000.0.061   1.035e-01  8.349e-02   1.240  0.21502
## f.22000.0.062  -4.778e-02  8.096e-02  -0.590  0.55510
## f.22000.0.063   4.936e-02  7.966e-02   0.620  0.53549
## f.22000.0.064   4.401e-02  8.071e-02   0.545  0.58560
## f.22000.0.065   6.805e-02  8.161e-02   0.834  0.40436
## f.22000.0.066   3.914e-02  8.034e-02   0.487  0.62616
## f.22000.0.067  -3.642e-02  7.967e-02  -0.457  0.64754
## f.22000.0.068  -4.837e-02  8.248e-02  -0.586  0.55759
## f.22000.0.069  -5.257e-03  8.072e-02  -0.065  0.94808
## f.22000.0.07    1.104e-01  7.833e-02   1.410  0.15856
## f.22000.0.0-7   8.215e-02  7.997e-02   1.027  0.30426
## f.22000.0.070   6.703e-02  8.338e-02   0.804  0.42149
## f.22000.0.071   2.100e-03  7.933e-02   0.026  0.97888
## f.22000.0.072   1.304e-01  7.898e-02   1.651  0.09866 .
## f.22000.0.073   2.899e-02  8.419e-02   0.344  0.73057
## f.22000.0.074   7.900e-02  8.048e-02   0.982  0.32628
## f.22000.0.075   1.359e-01  7.890e-02   1.722  0.08510 .
## f.22000.0.076   2.097e-01  8.169e-02   2.567  0.01026 *
## f.22000.0.077   2.722e-03  7.995e-02   0.034  0.97284
## f.22000.0.078   1.813e-02  7.919e-02   0.229  0.81896
## f.22000.0.079   3.647e-03  8.065e-02   0.045  0.96393
## f.22000.0.08   -7.994e-03  7.865e-02  -0.102  0.91904
## f.22000.0.0-8   9.857e-02  8.104e-02   1.216  0.22385
## f.22000.0.080   1.347e-01  8.196e-02   1.643  0.10036
## f.22000.0.081   1.295e-01  8.479e-02   1.527  0.12667
## f.22000.0.082   2.280e-02  8.399e-02   0.272  0.78601
## f.22000.0.083   1.552e-02  8.359e-02   0.186  0.85267
## f.22000.0.084  -8.694e-03  8.026e-02  -0.108  0.91374
## f.22000.0.085   3.454e-02  8.211e-02   0.421  0.67401
## f.22000.0.086   1.031e-02  8.311e-02   0.124  0.90132
## f.22000.0.087   3.228e-02  7.982e-02   0.404  0.68592
## f.22000.0.088   1.084e-01  8.707e-02   1.245  0.21314
## f.22000.0.089   9.852e-02  8.321e-02   1.184  0.23641
## f.22000.0.09    2.215e-02  8.040e-02   0.275  0.78295
```

```
## f.22000.0.0-9   1.385e-01  8.033e-02   1.724  0.08474 .
## f.22000.0.090   4.518e-02  7.961e-02   0.567  0.57040
## f.22000.0.091  -6.422e-02  7.897e-02  -0.813  0.41614
## f.22000.0.092   1.026e-01  7.618e-02   1.346  0.17816
## f.22000.0.093   1.702e-01  7.982e-02   2.133  0.03296 *
## f.22000.0.094   5.360e-02  1.054e-01   0.508  0.61111
## f.22000.0.095   8.663e-02  8.378e-02   1.034  0.30114
## f.22001.0.01   -1.729e-01  1.160e-02 -14.904  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.001 on 30403 degrees of freedom
##   (89334 observations deleted due to missingness)
## Multiple R-squared:  0.04584,    Adjusted R-squared:  0.04179
## F-statistic: 11.32 on 129 and 30403 DF,  p-value: < 2.2e-16
```

```
#socfreq
summary(lm(selfharmscore ~  socfreq + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22
009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12
+ f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ socfreq + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1906 -0.6221 -0.4302  0.4467  4.2361
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.872e+01  7.467e-01 -51.858  < 2e-16 ***
## socfreq         4.728e-02  2.921e-03  16.188  < 2e-16 ***
## pgsfive         3.571e-02  2.866e-03  12.460  < 2e-16 ***
## f.22009.0.1     9.839e-03  3.029e-03   3.248  0.00116 **
## f.22009.0.2    -3.585e-03  2.916e-03  -1.230  0.21888
## f.22009.0.3    -1.536e-03  2.991e-03  -0.513  0.60768
## f.22009.0.4    -6.741e-03  4.186e-03  -1.610  0.10731
## f.22009.0.5     2.068e-03  4.063e-03   0.509  0.61075
## f.22009.0.6    -9.368e-05  2.959e-03  -0.032  0.97474
## f.22009.0.7    -8.509e-03  3.032e-03  -2.806  0.00502 **
## f.22009.0.8     6.706e-03  3.198e-03   2.097  0.03598 *
## f.22009.0.9    -8.362e-03  3.051e-03  -2.741  0.00613 **
## f.22009.0.10    3.130e-03  3.541e-03   0.884  0.37677
## f.22009.0.11    9.533e-04  4.120e-03   0.231  0.81703
## f.22009.0.12    2.357e-03  3.619e-03   0.651  0.51491
## f.22009.0.13   -2.630e-03  2.911e-03  -0.903  0.36630
## f.22009.0.14   -1.593e-02  3.076e-03  -5.178 2.24e-07 ***
## f.22009.0.15   -8.340e-04  3.154e-03  -0.264  0.79144
## f.22009.0.16   -9.839e-03  3.089e-03  -3.185  0.00145 **
## f.22009.0.17   -1.226e-04  2.869e-03  -0.043  0.96591
## f.22009.0.18    5.265e-04  2.877e-03   0.183  0.85481
## f.22009.0.19    1.870e-03  2.864e-03   0.653  0.51367
## f.22009.0.20    4.078e-03  2.870e-03   1.421  0.15533
## f.34.0.0        1.987e-02  3.821e-04  52.008  < 2e-16 ***
## f.22000.0.0-1   3.737e-02  4.044e-02   0.924  0.35551
## f.22000.0.010  -3.865e-02  4.085e-02  -0.946  0.34399
## f.22000.0.0-10  7.578e-02  4.111e-02   1.843  0.06528 .
## f.22000.0.011   5.738e-02  4.023e-02   1.426  0.15382
## f.22000.0.0-11  2.740e-02  4.071e-02   0.673  0.50093
## f.22000.0.012  -1.052e-02  4.050e-02  -0.260  0.79497
## f.22000.0.013  -1.728e-02  4.029e-02  -0.429  0.66804
## f.22000.0.014   1.344e-02  4.009e-02   0.335  0.73749
## f.22000.0.015   3.027e-02  4.038e-02   0.750  0.45348
## f.22000.0.016   4.578e-02  4.054e-02   1.129  0.25878
```

```
## f.22000.0.016   4.578e-02  4.054e-02   1.129  0.25878
## f.22000.0.017   1.737e-02  4.018e-02   0.432  0.66558
## f.22000.0.018  -3.329e-02  4.060e-02  -0.820  0.41226
## f.22000.0.019  -8.319e-04  3.977e-02  -0.021  0.98331
## f.22000.0.02   -1.717e-02  3.993e-02  -0.430  0.66711
## f.22000.0.0-2   7.934e-02  4.065e-02   1.952  0.05098 .
## f.22000.0.020  -1.456e-02  4.049e-02  -0.360  0.71907
## f.22000.0.021   3.044e-02  4.031e-02   0.755  0.45016
## f.22000.0.022   3.869e-04  4.038e-02   0.010  0.99236
## f.22000.0.023  -9.336e-04  4.037e-02  -0.023  0.98155
## f.22000.0.024   1.057e-02  3.984e-02   0.265  0.79076
## f.22000.0.025   2.884e-02  4.085e-02   0.706  0.48019
## f.22000.0.026  -5.360e-02  4.061e-02  -1.320  0.18688
## f.22000.0.027  -2.327e-02  4.002e-02  -0.581  0.56091
## f.22000.0.028   4.542e-03  4.042e-02   0.112  0.91051
## f.22000.0.029  -3.310e-03  4.006e-02  -0.083  0.93416
## f.22000.0.03    4.551e-03  4.005e-02   0.114  0.90952
## f.22000.0.0-3   2.761e-03  4.022e-02   0.069  0.94526
## f.22000.0.030  -3.792e-02  4.009e-02  -0.946  0.34415
## f.22000.0.031  -2.402e-02  4.026e-02  -0.597  0.55065
## f.22000.0.032  -1.930e-02  4.034e-02  -0.479  0.63228
## f.22000.0.033  -2.618e-03  4.113e-02  -0.064  0.94923
## f.22000.0.034   3.515e-02  4.015e-02   0.875  0.38132
## f.22000.0.035   5.076e-02  4.026e-02   1.261  0.20739
## f.22000.0.036   6.997e-03  3.997e-02   0.175  0.86104
## f.22000.0.037  -2.135e-02  4.055e-02  -0.526  0.59856
## f.22000.0.038   3.962e-02  4.042e-02   0.980  0.32694
## f.22000.0.039   1.173e-02  4.085e-02   0.287  0.77406
## f.22000.0.04   -8.786e-03  4.077e-02  -0.216  0.82937
## f.22000.0.0-4   5.754e-02  4.094e-02   1.406  0.15986
## f.22000.0.040   4.135e-03  4.041e-02   0.102  0.91849
## f.22000.0.041   3.765e-03  4.095e-02   0.092  0.92674
## f.22000.0.042  -3.444e-02  4.022e-02  -0.856  0.39179
## f.22000.0.043  -3.523e-02  4.098e-02  -0.860  0.38995
## f.22000.0.044   5.723e-02  4.062e-02   1.409  0.15881
## f.22000.0.045  -6.443e-03  4.053e-02  -0.159  0.87371
## f.22000.0.046  -4.244e-02  4.074e-02  -1.042  0.29754
## f.22000.0.047  -2.178e-02  4.083e-02  -0.533  0.59373
## f.22000.0.048  -1.428e-02  4.080e-02  -0.350  0.72636
## f.22000.0.049   4.722e-02  4.071e-02   1.160  0.24616
## f.22000.0.05   -7.230e-03  4.007e-02  -0.180  0.85682
## f.22000.0.0-5   7.670e-02  4.049e-02   1.894  0.05817 .
## f.22000.0.050  -3.859e-03  4.072e-02  -0.095  0.92450
## f.22000.0.051   7.203e-02  4.018e-02   1.792  0.07307 .
## f.22000.0.052   4.243e-03  4.099e-02   0.103  0.91757
## f.22000.0.053  -1.535e-02  4.064e-02  -0.378  0.70562
## f.22000.0.054   6.082e-02  4.070e-02   1.494  0.13513
## f.22000.0.055   5.689e-02  4.114e-02   1.383  0.16663
## f.22000.0.056   3.351e-02  4.077e-02   0.822  0.41106
## f.22000.0.057   4.340e-02  4.091e-02   1.061  0.28871
## f.22000.0.058   4.679e-03  4.079e-02   0.115  0.90868
## f.22000.0.059   1.165e-02  4.059e-02   0.287  0.77416
## f.22000.0.06    7.879e-03  3.990e-02   0.197  0.84348
## f.22000.0.0-6   4.121e-02  4.087e-02   1.009  0.31320
## f.22000.0.060  -2.959e-02  4.101e-02  -0.721  0.47070
## f.22000.0.061   1.773e-02  4.118e-02   0.430  0.66687
## f.22000.0.062   2.866e-02  4.105e-02   0.698  0.48515
## f.22000.0.063   2.306e-03  4.105e-02   0.056  0.95520
## f.22000.0.064  -1.485e-02  4.075e-02  -0.365  0.71548
## f.22000.0.065  -2.101e-02  4.099e-02  -0.513  0.60824
## f.22000.0.066  -1.034e-02  4.132e-02  -0.250  0.80241
## f.22000.0.067  -2.578e-02  4.094e-02  -0.630  0.52885
## f.22000.0.068   2.074e-03  4.084e-02   0.051  0.95949
## f.22000.0.069  -1.105e-03  4.101e-02  -0.027  0.97851
## f.22000.0.07   -3.690e-02  4.023e-02  -0.917  0.35897
## f.22000.0.0-7   4.985e-02  4.052e-02   1.230  0.21860
## f.22000.0.070  -2.297e-02  4.108e-02  -0.559  0.57594
## f.22000.0.071  -1.422e-02  4.083e-02  -0.348  0.72766
## f.22000.0.072  -2.690e-03  4.112e-02  -0.065  0.94783
## f.22000.0.073  -2.760e-03  4.114e-02  -0.067  0.94651
## f.22000.0.074   3.603e-02  4.124e-02   0.874  0.38229
## f.22000.0.075   5.902e-02  4.082e-02   1.446  0.14815
## f.22000.0.076   3.643e-02  4.123e-02   0.884  0.37693
```

```
## f.22000.0.077   8.527e-03  4.100e-02   0.208  0.83525
## f.22000.0.078  -4.934e-02  4.090e-02  -1.206  0.22768
## f.22000.0.079  -1.800e-02  4.070e-02  -0.442  0.65823
## f.22000.0.08   -1.227e-02  4.011e-02  -0.306  0.75973
## f.22000.0.0-8   2.190e-02  4.084e-02   0.536  0.59169
## f.22000.0.080   3.344e-02  4.117e-02   0.812  0.41660
## f.22000.0.081  -3.154e-03  4.168e-02  -0.076  0.93968
## f.22000.0.082  -4.329e-02  4.113e-02  -1.052  0.29265
## f.22000.0.083  -9.990e-04  4.118e-02  -0.024  0.98065
## f.22000.0.084   1.816e-02  4.122e-02   0.441  0.65948
## f.22000.0.085   3.182e-02  4.105e-02   0.775  0.43827
## f.22000.0.086  -2.297e-02  4.113e-02  -0.558  0.57651
## f.22000.0.087   3.996e-02  4.108e-02   0.973  0.33068
## f.22000.0.088   3.184e-03  4.195e-02   0.076  0.93950
## f.22000.0.089   2.322e-03  4.155e-02   0.056  0.95543
## f.22000.0.09   -1.018e-02  3.991e-02  -0.255  0.79871
## f.22000.0.0-9   6.731e-02  4.085e-02   1.648  0.09936 .
## f.22000.0.090  -3.303e-03  4.122e-02  -0.080  0.93612
## f.22000.0.091  -3.605e-02  4.255e-02  -0.847  0.39685
## f.22000.0.092   1.805e-02  4.120e-02   0.438  0.66124
## f.22000.0.093   9.201e-03  4.116e-02   0.224  0.82311
## f.22000.0.094   6.967e-04  5.261e-02   0.013  0.98943
## f.22000.0.095  -1.793e-02  4.388e-02  -0.409  0.68275
## f.22001.0.01   -1.628e-01  5.846e-03 -27.846  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9816 on 117486 degrees of freedom
##   (2251 observations deleted due to missingness)
## Multiple R-squared:  0.03737,    Adjusted R-squared:  0.03631
## F-statistic: 35.35 on 129 and 117486 DF,  p-value: < 2.2e-16
```

```
# confiding
summary(lm(selfharmscore ~  f.20522.0.0 + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 +
f.22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.
0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ f.20522.0.0 + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.3518 -0.6238 -0.4119  0.4377  4.2884
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.071e+01  7.467e-01 -54.520  < 2e-16 ***
## f.20522.0.0    -1.077e-01  2.890e-03 -37.244  < 2e-16 ***
## pgsfive         3.597e-02  2.884e-03  12.471  < 2e-16 ***
## f.22009.0.1     8.575e-03  3.048e-03   2.813 0.004905 **
## f.22009.0.2    -2.829e-03  2.936e-03  -0.964 0.335187
## f.22009.0.3    -8.998e-04  3.011e-03  -0.299 0.765076
## f.22009.0.4    -8.488e-03  4.215e-03  -2.014 0.044032 *
## f.22009.0.5     1.635e-03  4.091e-03   0.400 0.689394
## f.22009.0.6     7.407e-04  2.979e-03   0.249 0.803635
## f.22009.0.7    -8.290e-03  3.054e-03  -2.715 0.006634 **
## f.22009.0.8     7.065e-03  3.217e-03   2.196 0.028063 *
## f.22009.0.9    -1.033e-02  3.073e-03  -3.362 0.000775 ***
## f.22009.0.10    3.122e-03  3.564e-03   0.876 0.381036
## f.22009.0.11   -1.966e-03  4.146e-03  -0.474 0.635342
## f.22009.0.12    3.582e-03  3.644e-03   0.983 0.325640
## f.22009.0.13   -2.250e-03  2.931e-03  -0.768 0.442757
## f.22009.0.14   -1.474e-02  3.097e-03  -4.759 1.95e-06 ***
## f.22009.0.15   -1.840e-03  3.174e-03  -0.580 0.562026
```

```
## f.22009.0.15   -1.840e-03  3.174e-03  -0.580 0.562026
## f.22009.0.16   -9.077e-03  3.109e-03  -2.920 0.003504 **
## f.22009.0.17    5.733e-04  2.887e-03   0.199 0.842610
## f.22009.0.18   -9.841e-04  2.897e-03  -0.340 0.734060
## f.22009.0.19    3.081e-03  2.883e-03   1.069 0.285179
## f.22009.0.20    1.611e-03  2.889e-03   0.558 0.576989
## f.34.0.0        2.089e-02  3.821e-04  54.665  < 2e-16 ***
## f.22000.0.0-1   2.852e-02  4.065e-02   0.702 0.482991
## f.22000.0.010  -3.150e-02  4.113e-02  -0.766 0.443681
## f.22000.0.0-10  7.934e-02  4.128e-02   1.922 0.054577 .
## f.22000.0.011   6.202e-02  4.030e-02   1.539 0.123791
## f.22000.0.0-11  2.562e-02  4.088e-02   0.627 0.530926
## f.22000.0.012   3.673e-03  4.067e-02   0.090 0.928040
## f.22000.0.013  -1.993e-02  4.045e-02  -0.493 0.622225
## f.22000.0.014   1.264e-02  4.024e-02   0.314 0.753374
## f.22000.0.015   2.413e-02  4.065e-02   0.594 0.552809
## f.22000.0.016   4.641e-02  4.064e-02   1.142 0.253395
## f.22000.0.017   2.105e-02  4.034e-02   0.522 0.601693
## f.22000.0.018  -2.765e-02  4.067e-02  -0.680 0.496617
## f.22000.0.019   1.022e-02  3.991e-02   0.256 0.797898
## f.22000.0.02   -1.875e-02  4.012e-02  -0.467 0.640265
## f.22000.0.0-2   7.610e-02  4.081e-02   1.865 0.062225 .
## f.22000.0.020   1.577e-03  4.073e-02   0.039 0.969118
## f.22000.0.021   2.899e-02  4.044e-02   0.717 0.473419
## f.22000.0.022   3.561e-03  4.051e-02   0.088 0.929960
## f.22000.0.023  -1.069e-03  4.045e-02  -0.026 0.978920
## f.22000.0.024   1.509e-02  3.998e-02   0.377 0.705886
## f.22000.0.025   2.235e-02  4.101e-02   0.545 0.585757
## f.22000.0.026  -5.045e-02  4.083e-02  -1.236 0.216627
## f.22000.0.027  -1.174e-02  4.023e-02  -0.292 0.770391
## f.22000.0.028  -8.042e-04  4.056e-02  -0.020 0.984183
## f.22000.0.029   3.180e-03  4.032e-02   0.079 0.937141
## f.22000.0.03   -3.530e-03  4.011e-02  -0.088 0.929861
## f.22000.0.0-3  -4.484e-03  4.030e-02  -0.111 0.911404
## f.22000.0.030  -4.409e-02  4.022e-02  -1.096 0.273017
## f.22000.0.031  -2.378e-02  4.046e-02  -0.588 0.556683
## f.22000.0.032  -2.335e-02  4.049e-02  -0.577 0.564173
## f.22000.0.033   4.340e-03  4.135e-02   0.105 0.916398
## f.22000.0.034   3.178e-02  4.022e-02   0.790 0.429366
## f.22000.0.035   4.299e-02  4.048e-02   1.062 0.288205
## f.22000.0.036  -5.746e-04  4.011e-02  -0.014 0.988570
## f.22000.0.037  -1.877e-02  4.077e-02  -0.460 0.645186
## f.22000.0.038   3.951e-02  4.055e-02   0.975 0.329776
## f.22000.0.039   1.398e-02  4.092e-02   0.342 0.732575
## f.22000.0.04   -1.014e-02  4.079e-02  -0.249 0.803598
## f.22000.0.0-4   5.383e-02  4.103e-02   1.312 0.189524
## f.22000.0.040   7.283e-03  4.056e-02   0.180 0.857519
## f.22000.0.041   6.349e-03  4.109e-02   0.155 0.877204
## f.22000.0.042  -2.456e-02  4.040e-02  -0.608 0.543213
## f.22000.0.043  -3.344e-02  4.117e-02  -0.812 0.416709
## f.22000.0.044   6.112e-02  4.074e-02   1.500 0.133585
## f.22000.0.045   3.789e-03  4.081e-02   0.093 0.926028
## f.22000.0.046  -3.536e-02  4.088e-02  -0.865 0.387097
## f.22000.0.047  -1.663e-02  4.090e-02  -0.407 0.684301
## f.22000.0.048  -7.499e-03  4.091e-02  -0.183 0.854553
## f.22000.0.049   5.170e-02  4.088e-02   1.265 0.206011
## f.22000.0.05   -9.266e-03  4.028e-02  -0.230 0.818069
## f.22000.0.0-5   7.705e-02  4.065e-02   1.895 0.058033 .
## f.22000.0.050   5.704e-03  4.087e-02   0.140 0.889002
## f.22000.0.051   7.597e-02  4.044e-02   1.879 0.060280 .
## f.22000.0.052   6.420e-03  4.106e-02   0.156 0.875745
## f.22000.0.053  -1.818e-02  4.079e-02  -0.446 0.655825
## f.22000.0.054   5.322e-02  4.084e-02   1.303 0.192511
## f.22000.0.055   5.803e-02  4.123e-02   1.408 0.159280
## f.22000.0.056   3.324e-02  4.090e-02   0.813 0.416386
## f.22000.0.057   4.735e-02  4.108e-02   1.153 0.249073
## f.22000.0.058   1.439e-02  4.089e-02   0.352 0.724900
## f.22000.0.059   1.352e-02  4.081e-02   0.331 0.740457
## f.22000.0.06    6.679e-03  3.999e-02   0.167 0.867344
## f.22000.0.0-6   3.225e-02  4.093e-02   0.788 0.430799
## f.22000.0.060  -2.892e-02  4.112e-02  -0.703 0.481824
## f.22000.0.061   2.026e-02  4.132e-02   0.490 0.624020
## f.22000.0.062   2.694e-02  4.125e-02   0.653 0.513749
```

```
## f.22000.0.063  -7.611e-03  4.121e-02  -0.185 0.853476
## f.22000.0.064  -1.644e-02  4.094e-02  -0.402 0.687911
## f.22000.0.065  -8.606e-03  4.120e-02  -0.209 0.834539
## f.22000.0.066  -4.635e-03  4.152e-02  -0.112 0.911116
## f.22000.0.067  -1.981e-02  4.109e-02  -0.482 0.629751
## f.22000.0.068   5.092e-03  4.101e-02   0.124 0.901172
## f.22000.0.069   4.034e-03  4.121e-02   0.098 0.922017
## f.22000.0.07   -3.306e-02  4.036e-02  -0.819 0.412679
## f.22000.0.0-7   5.016e-02  4.061e-02   1.235 0.216798
## f.22000.0.070  -1.983e-02  4.127e-02  -0.480 0.630903
## f.22000.0.071  -9.353e-03  4.090e-02  -0.229 0.819111
## f.22000.0.072   1.213e-04  4.121e-02   0.003 0.997651
## f.22000.0.073  -6.397e-04  4.125e-02  -0.016 0.987628
## f.22000.0.074   3.199e-02  4.143e-02   0.772 0.440061
## f.22000.0.075   6.037e-02  4.088e-02   1.477 0.139760
## f.22000.0.076   3.062e-02  4.139e-02   0.740 0.459471
## f.22000.0.077   1.368e-03  4.118e-02   0.033 0.973499
## f.22000.0.078  -4.079e-02  4.103e-02  -0.994 0.320078
## f.22000.0.079  -8.766e-03  4.092e-02  -0.214 0.830359
## f.22000.0.08   -1.432e-02  4.031e-02  -0.355 0.722471
## f.22000.0.0-8   1.423e-02  4.116e-02   0.346 0.729506
## f.22000.0.080   4.167e-02  4.136e-02   1.007 0.313729
## f.22000.0.081   7.704e-03  4.184e-02   0.184 0.853918
## f.22000.0.082  -3.590e-02  4.138e-02  -0.868 0.385564
## f.22000.0.083  -9.338e-03  4.142e-02  -0.225 0.821640
## f.22000.0.084   3.026e-02  4.134e-02   0.732 0.464099
## f.22000.0.085   4.114e-02  4.118e-02   0.999 0.317799
## f.22000.0.086  -3.470e-02  4.132e-02  -0.840 0.400973
## f.22000.0.087   3.843e-02  4.124e-02   0.932 0.351431
## f.22000.0.088  -1.994e-03  4.210e-02  -0.047 0.962230
## f.22000.0.089  -1.624e-03  4.182e-02  -0.039 0.969017
## f.22000.0.09   -8.391e-03  4.004e-02  -0.210 0.833992
## f.22000.0.0-9   6.482e-02  4.112e-02   1.576 0.114935
## f.22000.0.090   1.788e-03  4.125e-02   0.043 0.965438
## f.22000.0.091  -3.785e-02  4.270e-02  -0.886 0.375388
## f.22000.0.092   2.287e-02  4.140e-02   0.552 0.580704
## f.22000.0.093   6.037e-03  4.148e-02   0.146 0.884278
## f.22000.0.094   9.815e-03  5.294e-02   0.185 0.852926
## f.22000.0.095  -2.440e-02  4.410e-02  -0.553 0.580124
## f.22001.0.01   -1.491e-01  5.819e-03 -25.628  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9787 on 115272 degrees of freedom
##   (4465 observations deleted due to missingness)
## Multiple R-squared:  0.04656,    Adjusted R-squared:  0.04549
## F-statistic: 43.64 on 129 and 115272 DF,  p-value: < 2.2e-16
```

```
# education
summary(lm(selfharmscore ~  edu + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.
0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f
.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ edu + pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1789 -0.6318 -0.4418  0.4547  4.2039
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.834e+01  7.777e-01 -49.297  < 2e-16 ***
## edu            -2.014e-02  3.019e-03  -6.672 2.54e-11 ***
## pgsfive         3.594e-02  3.001e-03  11.978  < 2e-16 ***
```

```
## pgsitve          3.594e-02  3.001e-03  11.978  < 2e-16 ***
## f.22009.0.1      1.073e-02  3.170e-03   3.384 0.000715 ***
## f.22009.0.2     -2.843e-03  3.047e-03  -0.933 0.350703
## f.22009.0.3     -1.655e-03  3.125e-03  -0.530 0.596339
## f.22009.0.4     -7.142e-03  4.373e-03  -1.633 0.102468
## f.22009.0.5      2.731e-03  4.262e-03   0.641 0.521603
## f.22009.0.6     -8.328e-04  3.093e-03  -0.269 0.787724
## f.22009.0.7     -1.031e-02  3.169e-03  -3.252 0.001145 **
## f.22009.0.8      6.412e-03  3.339e-03   1.920 0.054822 .
## f.22009.0.9     -8.775e-03  3.167e-03  -2.771 0.005596 **
## f.22009.0.10     4.460e-03  3.699e-03   1.206 0.227918
## f.22009.0.11    -1.276e-03  4.310e-03  -0.296 0.767127
## f.22009.0.12     3.426e-03  3.781e-03   0.906 0.364891
## f.22009.0.13    -3.099e-03  3.044e-03  -1.018 0.308647
## f.22009.0.14    -1.841e-02  3.219e-03  -5.719 1.07e-08 ***
## f.22009.0.15    -2.141e-03  3.296e-03  -0.650 0.515819
## f.22009.0.16    -1.070e-02  3.224e-03  -3.320 0.000901 ***
## f.22009.0.17    -5.115e-04  2.998e-03  -0.171 0.864503
## f.22009.0.18     3.257e-04  3.009e-03   0.108 0.913785
## f.22009.0.19     1.655e-03  2.993e-03   0.553 0.580395
## f.22009.0.20     3.075e-03  3.002e-03   1.024 0.305711
## f.34.0.0         1.967e-02  3.979e-04  49.445  < 2e-16 ***
## f.22000.0.0-1    3.753e-02  4.282e-02   0.876 0.380774
## f.22000.0.010   -3.272e-02  4.278e-02  -0.765 0.444398
## f.22000.0.0-10   9.252e-02  4.305e-02   2.149 0.031613 *
## f.22000.0.011    6.958e-02  4.207e-02   1.654 0.098145 .
## f.22000.0.0-11   3.549e-02  4.297e-02   0.826 0.408773
## f.22000.0.012   -1.251e-02  4.235e-02  -0.296 0.767578
## f.22000.0.013   -1.162e-02  4.219e-02  -0.275 0.782994
## f.22000.0.014    1.360e-02  4.178e-02   0.326 0.744800
## f.22000.0.015    4.359e-02  4.241e-02   1.028 0.304019
## f.22000.0.016    5.270e-02  4.231e-02   1.245 0.212998
## f.22000.0.017    2.997e-02  4.197e-02   0.714 0.475113
## f.22000.0.018   -2.923e-02  4.245e-02  -0.688 0.491210
## f.22000.0.019    5.270e-03  4.156e-02   0.127 0.899112
## f.22000.0.02    -1.688e-02  4.188e-02  -0.403 0.686985
## f.22000.0.0-2    7.572e-02  4.270e-02   1.774 0.076128 .
## f.22000.0.020   -1.904e-02  4.232e-02  -0.450 0.652790
## f.22000.0.021    4.383e-02  4.197e-02   1.044 0.296371
## f.22000.0.022    1.310e-02  4.224e-02   0.310 0.756454
## f.22000.0.023    3.066e-03  4.228e-02   0.073 0.942201
## f.22000.0.024    7.180e-03  4.172e-02   0.172 0.863364
## f.22000.0.025    1.982e-02  4.272e-02   0.464 0.642583
## f.22000.0.026   -5.211e-02  4.251e-02  -1.226 0.220285
## f.22000.0.027   -2.536e-02  4.179e-02  -0.607 0.543879
## f.22000.0.028    1.354e-02  4.220e-02   0.321 0.748370
## f.22000.0.029    3.758e-03  4.196e-02   0.090 0.928633
## f.22000.0.03     2.705e-04  4.199e-02   0.006 0.994860
## f.22000.0.0-3   -3.831e-03  4.221e-02  -0.091 0.927689
## f.22000.0.030   -3.067e-02  4.181e-02  -0.734 0.463226
## f.22000.0.031   -3.258e-02  4.206e-02  -0.775 0.438503
## f.22000.0.032   -1.058e-02  4.203e-02  -0.252 0.801190
## f.22000.0.033   -3.243e-03  4.296e-02  -0.075 0.939830
## f.22000.0.034    2.699e-02  4.198e-02   0.643 0.520244
## f.22000.0.035    5.159e-02  4.207e-02   1.226 0.220111
## f.22000.0.036    1.404e-02  4.177e-02   0.336 0.736690
## f.22000.0.037   -1.369e-02  4.248e-02  -0.322 0.747257
## f.22000.0.038    5.536e-02  4.220e-02   1.312 0.189656
## f.22000.0.039    6.476e-03  4.265e-02   0.152 0.879320
## f.22000.0.04    -1.619e-02  4.271e-02  -0.379 0.704707
## f.22000.0.0-4    5.413e-02  4.316e-02   1.254 0.209816
## f.22000.0.040    1.362e-02  4.220e-02   0.323 0.746989
## f.22000.0.041   -1.251e-02  4.288e-02  -0.292 0.770446
## f.22000.0.042   -2.306e-02  4.210e-02  -0.548 0.583884
## f.22000.0.043   -4.665e-02  4.290e-02  -1.087 0.276864
## f.22000.0.044    6.093e-02  4.245e-02   1.435 0.151218
## f.22000.0.045    1.596e-02  4.220e-02   0.378 0.705221
## f.22000.0.046   -3.547e-02  4.264e-02  -0.832 0.405509
## f.22000.0.047   -1.384e-02  4.254e-02  -0.325 0.744938
## f.22000.0.048   -1.370e-02  4.276e-02  -0.320 0.748628
## f.22000.0.049    5.562e-02  4.249e-02   1.309 0.190536
## f.22000.0.05    -4.400e-03  4.197e-02  -0.105 0.916491
## f.22000.0.0-5    9.790e-02  4.250e-02   2.303 0.021254 *
```

```
## f.22000.0.050   1.400e-02  4.272e-02   0.328 0.743155
## f.22000.0.051   7.098e-02  4.195e-02   1.692 0.090637 .
## f.22000.0.052   1.984e-02  4.275e-02   0.464 0.642651
## f.22000.0.053  -1.071e-02  4.241e-02  -0.252 0.800657
## f.22000.0.054   6.749e-02  4.262e-02   1.584 0.113291
## f.22000.0.055   5.727e-02  4.291e-02   1.335 0.181986
## f.22000.0.056   2.961e-02  4.267e-02   0.694 0.487746
## f.22000.0.057   6.335e-02  4.274e-02   1.482 0.138278
## f.22000.0.058   2.538e-02  4.248e-02   0.597 0.550208
## f.22000.0.059   1.435e-02  4.241e-02   0.338 0.735104
## f.22000.0.06    3.183e-03  4.163e-02   0.076 0.939046
## f.22000.0.0-6   2.259e-02  4.300e-02   0.525 0.599250
## f.22000.0.060  -1.989e-02  4.294e-02  -0.463 0.643220
## f.22000.0.061   1.368e-02  4.316e-02   0.317 0.751210
## f.22000.0.062   2.675e-02  4.293e-02   0.623 0.533198
## f.22000.0.063   1.699e-02  4.305e-02   0.395 0.693202
## f.22000.0.064  -8.033e-03  4.266e-02  -0.188 0.850644
## f.22000.0.065  -2.296e-02  4.284e-02  -0.536 0.591957
## f.22000.0.066  -3.492e-03  4.326e-02  -0.081 0.935679
## f.22000.0.067  -1.407e-02  4.288e-02  -0.328 0.742752
## f.22000.0.068  -2.191e-03  4.260e-02  -0.051 0.958981
## f.22000.0.069   7.488e-03  4.269e-02   0.175 0.860779
## f.22000.0.07   -2.100e-02  4.193e-02  -0.501 0.616449
## f.22000.0.0-7   5.000e-02  4.259e-02   1.174 0.240407
## f.22000.0.070  -8.416e-03  4.294e-02  -0.196 0.844614
## f.22000.0.071   1.631e-03  4.261e-02   0.038 0.969471
## f.22000.0.072   4.992e-03  4.310e-02   0.116 0.907788
## f.22000.0.073  -4.878e-05  4.316e-02  -0.001 0.999098
## f.22000.0.074   4.672e-02  4.302e-02   1.086 0.277498
## f.22000.0.075   6.661e-02  4.264e-02   1.562 0.118246
## f.22000.0.076   5.139e-02  4.323e-02   1.189 0.234505
## f.22000.0.077   9.083e-03  4.275e-02   0.212 0.831749
## f.22000.0.078  -5.452e-02  4.271e-02  -1.276 0.201786
## f.22000.0.079  -8.031e-03  4.260e-02  -0.189 0.850461
## f.22000.0.08   -8.937e-03  4.196e-02  -0.213 0.831323
## f.22000.0.0-8   2.780e-02  4.299e-02   0.647 0.517854
## f.22000.0.080   3.380e-02  4.299e-02   0.786 0.431658
## f.22000.0.081   1.533e-02  4.359e-02   0.352 0.725164
## f.22000.0.082  -3.298e-02  4.305e-02  -0.766 0.443619
## f.22000.0.083  -2.728e-02  4.315e-02  -0.632 0.527268
## f.22000.0.084   1.104e-02  4.312e-02   0.256 0.797881
## f.22000.0.085   3.361e-02  4.294e-02   0.783 0.433778
## f.22000.0.086  -2.162e-02  4.292e-02  -0.504 0.614393
## f.22000.0.087   4.340e-02  4.304e-02   1.008 0.313312
## f.22000.0.088  -2.523e-03  4.359e-02  -0.058 0.953856
## f.22000.0.089   1.639e-02  4.335e-02   0.378 0.705367
## f.22000.0.09   -5.604e-03  4.179e-02  -0.134 0.893330
## f.22000.0.0-9   7.231e-02  4.297e-02   1.683 0.092430 .
## f.22000.0.090   3.393e-03  4.299e-02   0.079 0.937085
## f.22000.0.091  -4.113e-02  4.430e-02  -0.928 0.353202
## f.22000.0.092   1.683e-02  4.302e-02   0.391 0.695623
## f.22000.0.093  -1.610e-02  4.310e-02  -0.374 0.708744
## f.22000.0.094  -6.310e-04  5.529e-02  -0.011 0.990894
## f.22000.0.095  -4.119e-03  4.590e-02  -0.090 0.928491
## f.22001.0.01   -1.574e-01  6.050e-03 -26.015  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9889 on 109056 degrees of freedom
##   (10681 observations deleted due to missingness)
## Multiple R-squared:  0.03445,    Adjusted R-squared:  0.03331
## F-statistic: 30.16 on 129 and 109056 DF,  p-value: < 2.2e-16
```

```
# cognition
summary(lm(selfharmscore ~  cognition + pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.
22009.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.
12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ cognition + pgsfive + f.22009.0.1 +
```

```
## lm(formula = selfharmscore ~ cognition + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 +
##     f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 +
##     f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0.14 +
##     f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
##     f.22009.0.19 + f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0,
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1548 -0.6210 -0.4348  0.4571  4.2009
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.958e+01  1.072e+00 -36.916  < 2e-16 ***
## cognition       1.104e-02  4.169e-03   2.649  0.00807 **
## pgsfive         3.636e-02  4.171e-03   8.718  < 2e-16 ***
## f.22009.0.1     1.014e-02  4.393e-03   2.308  0.02101 *
## f.22009.0.2     4.314e-04  4.236e-03   0.102  0.91890
## f.22009.0.3    -4.400e-03  4.342e-03  -1.014  0.31082
## f.22009.0.4    -1.360e-02  6.062e-03  -2.244  0.02483 *
## f.22009.0.5     5.184e-03  5.978e-03   0.867  0.38578
## f.22009.0.6    -6.472e-04  4.293e-03  -0.151  0.88016
## f.22009.0.7    -8.608e-03  4.395e-03  -1.958  0.05018 .
## f.22009.0.8     9.820e-03  4.644e-03   2.115  0.03445 *
## f.22009.0.9    -9.485e-03  4.573e-03  -2.074  0.03805 *
## f.22009.0.10    5.793e-03  5.112e-03   1.133  0.25709
## f.22009.0.11   -2.424e-04  6.033e-03  -0.040  0.96796
## f.22009.0.12    1.386e-03  5.250e-03   0.264  0.79175
## f.22009.0.13   -5.163e-03  4.219e-03  -1.224  0.22110
## f.22009.0.14   -8.293e-03  4.604e-03  -1.801  0.07165 .
## f.22009.0.15    3.728e-03  4.582e-03   0.813  0.41594
## f.22009.0.16   -1.309e-02  4.542e-03  -2.881  0.00396 **
## f.22009.0.17    8.629e-04  4.174e-03   0.207  0.83622
## f.22009.0.18   -1.765e-04  4.296e-03  -0.041  0.96723
## f.22009.0.19    2.487e-03  4.151e-03   0.599  0.54916
## f.22009.0.20    2.345e-03  4.191e-03   0.559  0.57589
## f.34.0.0        2.030e-02  5.486e-04  36.995  < 2e-16 ***
## f.22000.0.0-1   1.028e-02  5.860e-02   0.175  0.86081
## f.22000.0.010   2.427e-03  5.901e-02   0.041  0.96719
## f.22000.0.0-10  8.343e-02  5.854e-02   1.425  0.15415
## f.22000.0.011   7.804e-02  5.784e-02   1.349  0.17728
## f.22000.0.0-11  8.012e-02  5.814e-02   1.378  0.16819
## f.22000.0.012   1.955e-02  6.021e-02   0.325  0.74541
## f.22000.0.013   3.186e-02  5.842e-02   0.545  0.58548
## f.22000.0.014  -2.256e-02  5.693e-02  -0.396  0.69195
## f.22000.0.015   7.679e-02  5.776e-02   1.329  0.18369
## f.22000.0.016   4.947e-02  5.787e-02   0.855  0.39258
## f.22000.0.017   2.624e-02  5.877e-02   0.446  0.65528
## f.22000.0.018  -2.528e-02  5.886e-02  -0.429  0.66758
## f.22000.0.019   4.026e-02  5.746e-02   0.701  0.48351
## f.22000.0.02    4.989e-02  5.771e-02   0.865  0.38728
## f.22000.0.0-2   1.014e-01  5.850e-02   1.734  0.08301 .
## f.22000.0.020   1.981e-03  5.883e-02   0.034  0.97313
## f.22000.0.021   4.084e-02  5.871e-02   0.696  0.48670
## f.22000.0.022   3.282e-02  5.932e-02   0.553  0.58005
## f.22000.0.023   1.115e-02  5.705e-02   0.195  0.84510
## f.22000.0.024   3.975e-02  5.801e-02   0.685  0.49321
## f.22000.0.025   3.833e-02  5.920e-02   0.647  0.51732
## f.22000.0.026  -2.040e-02  5.871e-02  -0.348  0.72820
## f.22000.0.027   4.518e-02  5.753e-02   0.785  0.43227
## f.22000.0.028   3.422e-02  5.817e-02   0.588  0.55631
## f.22000.0.029   2.885e-02  5.932e-02   0.486  0.62668
## f.22000.0.03    1.612e-02  5.698e-02   0.283  0.77723
## f.22000.0.0-3   2.700e-02  5.730e-02   0.471  0.63742
## f.22000.0.030  -7.953e-03  5.910e-02  -0.135  0.89296
## f.22000.0.031  -2.635e-02  5.819e-02  -0.453  0.65069
## f.22000.0.032   1.772e-02  5.703e-02   0.311  0.75601
## f.22000.0.033   2.940e-02  5.990e-02   0.491  0.62355
## f.22000.0.034   4.496e-02  5.768e-02   0.779  0.43569
## f.22000.0.035   5.091e-02  5.781e-02   0.881  0.37852
## f.22000.0.036   4.477e-02  5.676e-02   0.789  0.43032
## f.22000.0.037   1.901e-02  5.898e-02   0.322  0.74723
```

```
## f.22000.0.038   7.289e-02  5.725e-02   1.273  0.20294
## f.22000.0.039   1.705e-02  5.883e-02   0.290  0.77200
## f.22000.0.04    9.815e-03  5.904e-02   0.166  0.86797
## f.22000.0.0-4   7.850e-02  5.871e-02   1.337  0.18116
## f.22000.0.040  -9.043e-03  5.753e-02  -0.157  0.87509
## f.22000.0.041   3.941e-02  5.916e-02   0.666  0.50535
## f.22000.0.042   6.905e-03  5.684e-02   0.121  0.90330
## f.22000.0.043  -1.629e-02  6.004e-02  -0.271  0.78618
## f.22000.0.044   1.542e-02  5.836e-02   0.264  0.79164
## f.22000.0.045   6.847e-02  5.836e-02   1.173  0.24069
## f.22000.0.046  -5.513e-02  5.830e-02  -0.946  0.34438
## f.22000.0.047  -3.338e-03  5.859e-02  -0.057  0.95457
## f.22000.0.048  -2.615e-02  5.951e-02  -0.439  0.66034
## f.22000.0.049   2.926e-02  5.820e-02   0.503  0.61510
## f.22000.0.05   -6.658e-03  5.605e-02  -0.119  0.90544
## f.22000.0.0-5   6.233e-02  5.768e-02   1.081  0.27985
## f.22000.0.050   3.106e-02  5.787e-02   0.537  0.59145
## f.22000.0.051   1.593e-01  5.656e-02   2.817  0.00485 **
## f.22000.0.052   1.301e-02  5.778e-02   0.225  0.82182
## f.22000.0.053  -4.336e-02  5.836e-02  -0.743  0.45751
## f.22000.0.054  -1.020e-03  5.865e-02  -0.017  0.98613
## f.22000.0.055   3.474e-02  5.874e-02   0.591  0.55423
## f.22000.0.056   9.921e-02  6.011e-02   1.650  0.09886 .
## f.22000.0.057   7.941e-02  6.063e-02   1.310  0.19029
## f.22000.0.058   8.075e-02  5.910e-02   1.366  0.17184
## f.22000.0.059   5.484e-02  5.702e-02   0.962  0.33623
## f.22000.0.06    3.981e-02  5.766e-02   0.690  0.48992
## f.22000.0.0-6   7.825e-02  5.734e-02   1.364  0.17242
## f.22000.0.060   2.980e-02  5.871e-02   0.508  0.61171
## f.22000.0.061   5.340e-02  5.954e-02   0.897  0.36981
## f.22000.0.062   3.426e-02  5.948e-02   0.576  0.56466
## f.22000.0.063   1.391e-02  5.895e-02   0.236  0.81351
## f.22000.0.064   1.275e-02  5.877e-02   0.217  0.82824
## f.22000.0.065   3.606e-02  5.984e-02   0.603  0.54673
## f.22000.0.066   4.750e-03  5.916e-02   0.080  0.93601
## f.22000.0.067  -1.147e-02  5.879e-02  -0.195  0.84535
## f.22000.0.068  -6.251e-03  5.987e-02  -0.104  0.91684
## f.22000.0.069   1.224e-02  5.853e-02   0.209  0.83431
## f.22000.0.07    4.928e-02  5.774e-02   0.853  0.39346
## f.22000.0.0-7   5.292e-02  5.848e-02   0.905  0.36555
## f.22000.0.070  -8.325e-03  5.973e-02  -0.139  0.88916
## f.22000.0.071   1.864e-02  5.869e-02   0.318  0.75083
## f.22000.0.072   3.099e-02  5.825e-02   0.532  0.59471
## f.22000.0.073   3.808e-02  5.955e-02   0.639  0.52253
## f.22000.0.074   3.083e-02  5.925e-02   0.520  0.60286
## f.22000.0.075   7.013e-02  5.859e-02   1.197  0.23136
## f.22000.0.076   7.104e-02  5.907e-02   1.203  0.22915
## f.22000.0.077   4.099e-02  5.856e-02   0.700  0.48398
## f.22000.0.078  -2.012e-02  5.801e-02  -0.347  0.72870
## f.22000.0.079  -3.248e-04  5.892e-02  -0.006  0.99560
## f.22000.0.08   -3.275e-02  5.779e-02  -0.567  0.57092
## f.22000.0.0-8   8.315e-02  5.851e-02   1.421  0.15525
## f.22000.0.080   1.031e-01  5.988e-02   1.723  0.08498 .
## f.22000.0.081   4.513e-02  6.108e-02   0.739  0.45993
## f.22000.0.082   6.482e-03  5.939e-02   0.109  0.91308
## f.22000.0.083   3.272e-02  6.138e-02   0.533  0.59398
## f.22000.0.084   3.205e-02  5.910e-02   0.542  0.58761
## f.22000.0.085   2.022e-02  5.986e-02   0.338  0.73549
## f.22000.0.086   2.391e-02  6.067e-02   0.394  0.69356
## f.22000.0.087   3.712e-02  5.895e-02   0.630  0.52893
## f.22000.0.088   2.925e-02  6.154e-02   0.475  0.63463
## f.22000.0.089   8.889e-02  6.050e-02   1.469  0.14180
## f.22000.0.09    4.921e-02  5.820e-02   0.846  0.39780
## f.22000.0.0-9   7.183e-02  5.847e-02   1.228  0.21932
## f.22000.0.090   5.142e-03  5.851e-02   0.088  0.92998
## f.22000.0.091  -5.267e-02  5.919e-02  -0.890  0.37358
## f.22000.0.092   2.063e-02  5.668e-02   0.364  0.71585
## f.22000.0.093   5.233e-02  5.895e-02   0.888  0.37467
## f.22000.0.094   8.106e-02  7.865e-02   1.031  0.30269
## f.22000.0.095   2.697e-02  6.312e-02   0.427  0.66917
## f.22001.0.01   -1.538e-01  8.398e-03 -18.310  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 0.9838 on 56153 degrees of freedom
##   (63584 observations deleted due to missingness)
## Multiple R-squared:  0.03546,    Adjusted R-squared:  0.03324
## F-statistic:    16 on 129 and 56153 DF,  p-value: < 2.2e-16
```

effect of PGS on mediating variable

```
summary(lm(anxietyscore ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.5 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = anxietyscore ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.8977 -0.5701  0.2367  0.8022  1.5623
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.860e+01  1.511e+00 -25.543  < 2e-16 ***
## pgsfive         1.241e-02  5.839e-03   2.126  0.03352 *
## f.22009.0.1    -8.812e-03  6.131e-03  -1.437  0.15061
## f.22009.0.2     5.136e-04  5.920e-03   0.087  0.93087
## f.22009.0.3     5.620e-03  6.049e-03   0.929  0.35282
## f.22009.0.4     8.862e-03  8.478e-03   1.045  0.29593
## f.22009.0.5     8.920e-03  8.170e-03   1.092  0.27490
## f.22009.0.6    -8.035e-03  6.012e-03  -1.336  0.18144
## f.22009.0.7     1.486e-02  6.073e-03   2.447  0.01441 *
## f.22009.0.8     6.709e-03  6.498e-03   1.032  0.30186
## f.22009.0.9     1.171e-02  6.243e-03   1.875  0.06074 .
## f.22009.0.10   -9.315e-03  7.220e-03  -1.290  0.19700
## f.22009.0.11    2.189e-02  8.418e-03   2.601  0.00931 **
## f.22009.0.12    4.203e-03  7.308e-03   0.575  0.56524
## f.22009.0.13    2.089e-03  5.881e-03   0.355  0.72250
## f.22009.0.14   -8.559e-03  6.299e-03  -1.359  0.17422
## f.22009.0.15   -1.124e-02  6.412e-03  -1.754  0.07948 .
## f.22009.0.16    2.808e-03  6.297e-03   0.446  0.65561
## f.22009.0.17   -9.533e-03  5.827e-03  -1.636  0.10185
## f.22009.0.18    1.564e-02  5.879e-03   2.660  0.00781 **
## f.22009.0.19   -9.931e-03  5.833e-03  -1.703  0.08866 .
## f.22009.0.20   -4.693e-04  5.827e-03  -0.081  0.93582
## f.34.0.0        1.982e-02  7.728e-04  25.644  < 2e-16 ***
## f.22000.0.0-1   4.415e-02  8.280e-02   0.533  0.59393
## f.22000.0.010   8.316e-02  8.324e-02   0.999  0.31779
## f.22000.0.0-10 -2.246e-02  8.224e-02  -0.273  0.78474
## f.22000.0.011   1.107e-02  7.981e-02   0.139  0.88971
## f.22000.0.0-11  4.099e-02  8.272e-02   0.496  0.62020
## f.22000.0.012   7.544e-02  8.149e-02   0.926  0.35456
## f.22000.0.013  -7.850e-02  8.095e-02  -0.970  0.33216
## f.22000.0.014  -5.247e-02  8.010e-02  -0.655  0.51245
## f.22000.0.015  -5.806e-03  8.112e-02  -0.072  0.94294
## f.22000.0.016  -6.955e-04  8.067e-02  -0.009  0.99312
## f.22000.0.017   4.699e-02  8.306e-02   0.566  0.57153
## f.22000.0.018  -8.142e-02  8.167e-02  -0.997  0.31881
## f.22000.0.019  -8.313e-02  8.113e-02  -1.025  0.30548
## f.22000.0.02    1.274e-02  7.983e-02   0.160  0.87325
## f.22000.0.0-2   7.908e-02  7.950e-02   0.995  0.31991
## f.22000.0.020  -7.295e-02  8.058e-02  -0.905  0.36531
## f.22000.0.021  -1.765e-01  8.135e-02  -2.169  0.03009 *
## f.22000.0.022   3.734e-02  8.081e-02   0.462  0.64403
## f.22000.0.023  -9.164e-03  8.074e-02  -0.113  0.90964
```

```
## f.22000.0.024   4.722e-02  8.030e-02   0.588  0.55649
## f.22000.0.025   9.285e-02  8.240e-02   1.127  0.25982
## f.22000.0.026  -3.209e-02  8.213e-02  -0.391  0.69599
## f.22000.0.027  -7.515e-02  8.065e-02  -0.932  0.35145
## f.22000.0.028  -5.160e-02  7.996e-02  -0.645  0.51867
## f.22000.0.029  -7.515e-02  7.910e-02  -0.950  0.34209
## f.22000.0.03   -1.399e-01  8.182e-02  -1.710  0.08733 .
## f.22000.0.0-3  -6.022e-02  8.205e-02  -0.734  0.46303
## f.22000.0.030   4.564e-03  7.975e-02   0.057  0.95437
## f.22000.0.031   1.707e-02  7.955e-02   0.215  0.83012
## f.22000.0.032   6.194e-03  8.111e-02   0.076  0.93913
## f.22000.0.033  -1.387e-01  8.256e-02  -1.680  0.09287 .
## f.22000.0.034  -2.429e-02  8.089e-02  -0.300  0.76396
## f.22000.0.035  -6.110e-02  8.134e-02  -0.751  0.45253
## f.22000.0.036  -8.760e-02  8.181e-02  -1.071  0.28428
## f.22000.0.037  -1.694e-02  8.361e-02  -0.203  0.83946
## f.22000.0.038  -4.540e-02  8.247e-02  -0.550  0.58201
## f.22000.0.039   6.270e-02  8.142e-02   0.770  0.44121
## f.22000.0.04    2.859e-02  8.297e-02   0.345  0.73041
## f.22000.0.0-4  -2.762e-02  8.299e-02  -0.333  0.73924
## f.22000.0.040   1.532e-02  8.059e-02   0.190  0.84920
## f.22000.0.041   5.920e-02  8.272e-02   0.716  0.47423
## f.22000.0.042  -1.490e-01  8.111e-02  -1.837  0.06623 .
## f.22000.0.043  -8.019e-02  8.380e-02  -0.957  0.33860
## f.22000.0.044   2.720e-02  7.942e-02   0.342  0.73202
## f.22000.0.045  -1.975e-02  8.237e-02  -0.240  0.81054
## f.22000.0.046  -2.224e-02  8.229e-02  -0.270  0.78693
## f.22000.0.047   4.699e-02  8.132e-02   0.578  0.56335
## f.22000.0.048   1.549e-02  8.096e-02   0.191  0.84828
## f.22000.0.049  -7.442e-02  8.164e-02  -0.912  0.36202
## f.22000.0.05   -1.185e-01  8.016e-02  -1.479  0.13928
## f.22000.0.0-5  -2.311e-02  8.189e-02  -0.282  0.77776
## f.22000.0.050  -1.141e-01  8.427e-02  -1.355  0.17557
## f.22000.0.051  -7.195e-02  8.067e-02  -0.892  0.37245
## f.22000.0.052  -6.049e-02  8.181e-02  -0.739  0.45964
## f.22000.0.053  -6.139e-02  8.378e-02  -0.733  0.46367
## f.22000.0.054  -2.984e-02  8.096e-02  -0.369  0.71241
## f.22000.0.055  -9.214e-02  8.088e-02  -1.139  0.25459
## f.22000.0.056  -7.897e-02  8.280e-02  -0.954  0.34025
## f.22000.0.057  -1.210e-01  8.003e-02  -1.512  0.13045
## f.22000.0.058  -1.024e-01  8.280e-02  -1.237  0.21609
## f.22000.0.059  -1.024e-02  8.317e-02  -0.123  0.90202
## f.22000.0.06   -1.084e-01  7.950e-02  -1.364  0.17259
## f.22000.0.0-6  -9.685e-02  8.039e-02  -1.205  0.22832
## f.22000.0.060  -1.954e-02  7.982e-02  -0.245  0.80665
## f.22000.0.061  -1.283e-01  8.265e-02  -1.553  0.12046
## f.22000.0.062  -5.957e-02  8.351e-02  -0.713  0.47563
## f.22000.0.063  -2.688e-02  8.332e-02  -0.323  0.74702
## f.22000.0.064   5.960e-03  8.117e-02   0.073  0.94148
## f.22000.0.065  -8.072e-03  8.264e-02  -0.098  0.92219
## f.22000.0.066  -5.013e-02  8.272e-02  -0.606  0.54452
## f.22000.0.067   9.499e-02  8.206e-02   1.158  0.24704
## f.22000.0.068  -2.699e-02  8.094e-02  -0.333  0.73878
## f.22000.0.069  -2.532e-02  8.090e-02  -0.313  0.75431
## f.22000.0.07   -5.447e-02  7.921e-02  -0.688  0.49172
## f.22000.0.0-7  -1.481e-03  8.204e-02  -0.018  0.98560
## f.22000.0.070  -1.195e-01  8.289e-02  -1.442  0.14924
## f.22000.0.071  -7.620e-03  8.220e-02  -0.093  0.92614
## f.22000.0.072  -7.047e-02  8.229e-02  -0.856  0.39181
## f.22000.0.073   3.581e-02  8.369e-02   0.428  0.66876
## f.22000.0.074  -2.359e-02  8.281e-02  -0.285  0.77579
## f.22000.0.075  -9.128e-02  8.102e-02  -1.127  0.25994
## f.22000.0.076  -1.150e-02  8.343e-02  -0.138  0.89040
## f.22000.0.077   3.963e-02  8.406e-02   0.471  0.63729
## f.22000.0.078  -1.674e-01  8.165e-02  -2.050  0.04038 *
## f.22000.0.079   3.931e-02  8.080e-02   0.487  0.62661
## f.22000.0.08   -1.520e-01  8.181e-02  -1.857  0.06327 .
## f.22000.0.0-8  -8.755e-02  8.181e-02  -1.070  0.28452
## f.22000.0.080  -8.467e-02  8.126e-02  -1.042  0.29746
## f.22000.0.081  -9.784e-02  8.279e-02  -1.182  0.23730
## f.22000.0.082  -1.537e-01  8.426e-02  -1.824  0.06813 .
## f.22000.0.083  -1.293e-02  8.254e-02  -0.157  0.87547
## f.22000.0.084  -6.050e-03  8.080e-02  -0.075  0.94031
```

```
## f.22000.0.085  -4.744e-02  8.281e-02  -0.573  0.56673
## f.22000.0.086  -7.328e-03  8.150e-02  -0.090  0.92835
## f.22000.0.087  -1.125e-01  8.270e-02  -1.360  0.17387
## f.22000.0.088   1.038e-02  8.388e-02   0.124  0.90151
## f.22000.0.089  -1.318e-01  8.298e-02  -1.589  0.11216
## f.22000.0.09   -4.353e-02  8.181e-02  -0.532  0.59467
## f.22000.0.0-9   2.198e-02  8.016e-02   0.274  0.78394
## f.22000.0.090  -4.693e-02  8.230e-02  -0.570  0.56849
## f.22000.0.091  -5.263e-02  8.505e-02  -0.619  0.53610
## f.22000.0.092  -5.407e-02  8.377e-02  -0.645  0.51862
## f.22000.0.093  -1.735e-01  8.465e-02  -2.049  0.04045 *
## f.22000.0.094   7.891e-03  1.088e-01   0.073  0.94220
## f.22000.0.095   1.677e-02  8.929e-02   0.188  0.85097
## f.22001.0.01   -1.934e-01  1.206e-02 -16.031  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 28616 degrees of freedom
##   (91122 observations deleted due to missingness)
## Multiple R-squared:  0.03846,    Adjusted R-squared:  0.03416
## F-statistic: 8.943 on 128 and 28616 DF,  p-value: < 2.2e-16
```

```
summary(lm(depressionscore ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.4 + f.22009.0.
5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.2
2009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = depressionscore ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.4 + f.22009.0.5 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.1744 -0.6086  0.1573  0.7450  1.9792
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.877e+01  1.251e+00 -38.986  < 2e-16 ***
## pgsfive         1.736e-02  4.817e-03   3.604 0.000314 ***
## f.22009.0.1    -4.746e-03  5.073e-03  -0.935 0.349606
## f.22009.0.2     4.376e-03  4.877e-03   0.897 0.369608
## f.22009.0.3    -4.709e-03  5.015e-03  -0.939 0.347679
## f.22009.0.4     7.036e-03  6.985e-03   1.007 0.313804
## f.22009.0.5     2.060e-02  6.755e-03   3.049 0.002295 **
## f.22009.0.6    -4.019e-04  4.973e-03  -0.081 0.935590
## f.22009.0.7    -4.161e-03  5.088e-03  -0.818 0.413450
## f.22009.0.8     5.429e-03  5.378e-03   1.010 0.312699
## f.22009.0.9     6.638e-03  5.149e-03   1.289 0.197371
## f.22009.0.10   -3.350e-03  5.968e-03  -0.561 0.574562
## f.22009.0.11    1.826e-02  6.962e-03   2.623 0.008713 **
## f.22009.0.12   -1.047e-03  6.049e-03  -0.173 0.862621
## f.22009.0.13   -7.199e-04  4.884e-03  -0.147 0.882813
## f.22009.0.14   -1.733e-02  5.184e-03  -3.343 0.000828 ***
## f.22009.0.15   -3.537e-03  5.313e-03  -0.666 0.505565
## f.22009.0.16   -1.132e-02  5.244e-03  -2.159 0.030832 *
## f.22009.0.17   -7.514e-03  4.830e-03  -1.556 0.119833
## f.22009.0.18    2.485e-03  4.866e-03   0.511 0.609500
## f.22009.0.19   -5.746e-03  4.810e-03  -1.195 0.232280
## f.22009.0.20    1.286e-02  4.839e-03   2.657 0.007886 **
## f.34.0.0        2.503e-02  6.399e-04  39.112  < 2e-16 ***
## f.22000.0.0-1   4.265e-02  6.803e-02   0.627 0.530733
## f.22000.0.010   1.740e-02  6.848e-02   0.254 0.799423
## f.22000.0.0-10  5.821e-02  6.879e-02   0.846 0.397448
## f.22000.0.011   9.036e-02  6.816e-02   1.326 0.184902
## f.22000.0.0-11  1.752e-01  6.869e-02   2.551 0.010749 *
## f.22000.0.012   3.400e-02  6.803e-02   0.500 0.617225
```

```
## f.22000.0.013   3.437e-02  6.795e-02   0.506 0.612978
## f.22000.0.014   5.461e-02  6.811e-02   0.802 0.422745
## f.22000.0.015   3.320e-02  6.774e-02   0.490 0.624116
## f.22000.0.016   6.249e-02  6.790e-02   0.920 0.357421
## f.22000.0.017   7.421e-02  6.834e-02   1.086 0.277544
## f.22000.0.018   6.481e-02  6.813e-02   0.951 0.341468
## f.22000.0.019   3.268e-02  6.710e-02   0.487 0.626293
## f.22000.0.02   -3.209e-02  6.676e-02  -0.481 0.630793
## f.22000.0.0-2   1.005e-01  6.838e-02   1.469 0.141841
## f.22000.0.020   7.351e-02  6.935e-02   1.060 0.289167
## f.22000.0.021   2.699e-02  6.897e-02   0.391 0.695548
## f.22000.0.022   6.663e-02  6.897e-02   0.966 0.334024
## f.22000.0.023  -2.285e-02  6.887e-02  -0.332 0.740045
## f.22000.0.024   3.824e-02  6.741e-02   0.567 0.570507
## f.22000.0.025  -2.434e-03  6.804e-02  -0.036 0.971462
## f.22000.0.026  -7.867e-02  6.902e-02  -1.140 0.254376
## f.22000.0.027  -4.101e-02  6.761e-02  -0.607 0.544171
## f.22000.0.028   4.170e-02  6.709e-02   0.621 0.534277
## f.22000.0.029   5.011e-02  6.765e-02   0.741 0.458869
## f.22000.0.03    8.209e-02  6.742e-02   1.218 0.223344
## f.22000.0.0-3   7.283e-02  6.829e-02   1.067 0.286199
## f.22000.0.030   7.466e-02  6.770e-02   1.103 0.270123
## f.22000.0.031   3.185e-02  6.861e-02   0.464 0.642443
## f.22000.0.032   1.222e-02  6.912e-02   0.177 0.859715
## f.22000.0.033   2.833e-02  6.985e-02   0.406 0.685084
## f.22000.0.034   4.216e-02  6.847e-02   0.616 0.538071
## f.22000.0.035  -1.022e-03  6.799e-02  -0.015 0.988005
## f.22000.0.036   1.049e-02  6.717e-02   0.156 0.875946
## f.22000.0.037  -2.762e-02  6.912e-02  -0.400 0.689443
## f.22000.0.038   3.168e-02  6.935e-02   0.457 0.647797
## f.22000.0.039   1.449e-01  6.866e-02   2.110 0.034827 *
## f.22000.0.04    4.882e-02  6.980e-02   0.699 0.484268
## f.22000.0.0-4   4.037e-02  6.794e-02   0.594 0.552415
## f.22000.0.040  -2.858e-02  6.812e-02  -0.420 0.674803
## f.22000.0.041   2.494e-02  6.912e-02   0.361 0.718244
## f.22000.0.042  -2.367e-02  7.022e-02  -0.337 0.736049
## f.22000.0.043   6.694e-02  6.931e-02   0.966 0.334154
## f.22000.0.044   1.167e-01  6.880e-02   1.696 0.089891 .
## f.22000.0.045   3.871e-02  6.898e-02   0.561 0.574649
## f.22000.0.046  -1.658e-02  7.099e-02  -0.234 0.815368
## f.22000.0.047  -6.084e-03  6.901e-02  -0.088 0.929747
## f.22000.0.048   4.601e-02  6.808e-02   0.676 0.499110
## f.22000.0.049   7.949e-02  6.851e-02   1.160 0.245967
## f.22000.0.05   -1.877e-02  6.811e-02  -0.276 0.782872
## f.22000.0.0-5   1.179e-01  6.737e-02   1.750 0.080127 .
## f.22000.0.050  -2.070e-02  6.960e-02  -0.297 0.766122
## f.22000.0.051   1.604e-02  6.816e-02   0.235 0.813919
## f.22000.0.052  -4.730e-02  7.006e-02  -0.675 0.499580
## f.22000.0.053   5.750e-02  6.986e-02   0.823 0.410407
## f.22000.0.054   4.576e-02  6.839e-02   0.669 0.503460
## f.22000.0.055   9.071e-02  6.817e-02   1.331 0.183300
## f.22000.0.056  -2.083e-02  7.071e-02  -0.295 0.768327
## f.22000.0.057   4.187e-02  6.799e-02   0.616 0.538027
## f.22000.0.058  -2.727e-02  6.951e-02  -0.392 0.694785
## f.22000.0.059  -1.572e-02  6.931e-02  -0.227 0.820580
## f.22000.0.06    7.776e-02  6.711e-02   1.159 0.246580
## f.22000.0.0-6   8.974e-02  6.730e-02   1.333 0.182380
## f.22000.0.060   6.161e-02  6.897e-02   0.893 0.371761
## f.22000.0.061  -1.151e-02  6.902e-02  -0.167 0.867535
## f.22000.0.062   4.820e-02  7.039e-02   0.685 0.493500
## f.22000.0.063  -3.375e-02  6.897e-02  -0.489 0.624593
## f.22000.0.064   7.452e-02  6.883e-02   1.083 0.278942
## f.22000.0.065  -1.460e-02  7.001e-02  -0.209 0.834828
## f.22000.0.066  -3.519e-03  6.955e-02  -0.051 0.959646
## f.22000.0.067   8.711e-02  6.971e-02   1.250 0.211418
## f.22000.0.068   2.568e-02  6.941e-02   0.370 0.711415
## f.22000.0.069   2.699e-02  7.060e-02   0.382 0.702183
## f.22000.0.07    4.714e-02  6.643e-02   0.710 0.477937
## f.22000.0.0-7   6.678e-02  6.860e-02   0.973 0.330370
## f.22000.0.070   1.420e-02  6.945e-02   0.204 0.837964
## f.22000.0.071  -8.448e-03  6.860e-02  -0.123 0.901991
## f.22000.0.072  -2.065e-02  6.898e-02  -0.299 0.764612
## f.22000.0.073  -8.296e-02  6.870e-02  -1.208 0.227188
```

```
## f.22000.0.074   4.158e-02  6.935e-02   0.600 0.548805
## f.22000.0.075  -3.083e-02  7.060e-02  -0.437 0.662387
## f.22000.0.076   8.090e-02  6.975e-02   1.160 0.246106
## f.22000.0.077  -7.830e-03  6.940e-02  -0.113 0.910161
## f.22000.0.078  -1.305e-02  6.931e-02  -0.188 0.850647
## f.22000.0.079   8.674e-02  6.807e-02   1.274 0.202592
## f.22000.0.08   -1.367e-02  6.833e-02  -0.200 0.841473
## f.22000.0.0-8   5.481e-02  6.902e-02   0.794 0.427139
## f.22000.0.080   5.339e-02  6.996e-02   0.763 0.445382
## f.22000.0.081  -5.674e-02  7.077e-02  -0.802 0.422700
## f.22000.0.082  -2.500e-02  7.032e-02  -0.355 0.722236
## f.22000.0.083   9.210e-02  6.916e-02   1.332 0.182987
## f.22000.0.084   7.123e-02  6.971e-02   1.022 0.306842
## f.22000.0.085   7.715e-02  6.931e-02   1.113 0.265672
## f.22000.0.086   2.959e-02  6.996e-02   0.423 0.672283
## f.22000.0.087  -1.924e-02  7.017e-02  -0.274 0.783957
## f.22000.0.088   5.136e-02  7.128e-02   0.720 0.471224
## f.22000.0.089   8.954e-02  7.093e-02   1.262 0.206823
## f.22000.0.09   -4.126e-03  6.735e-02  -0.061 0.951150
## f.22000.0.0-9   1.004e-01  6.794e-02   1.478 0.139368
## f.22000.0.090  -2.816e-03  6.926e-02  -0.041 0.967573
## f.22000.0.091  -4.131e-02  7.290e-02  -0.567 0.570937
## f.22000.0.092   5.230e-02  6.985e-02   0.749 0.454001
## f.22000.0.093  -4.558e-02  6.991e-02  -0.652 0.514420
## f.22000.0.094   6.089e-02  8.842e-02   0.689 0.491024
## f.22000.0.095  -6.301e-02  7.582e-02  -0.831 0.406002
## f.22001.0.01   -3.826e-01  1.001e-02 -38.223  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9619 on 39977 degrees of freedom
##   (79761 observations deleted due to missingness)
## Multiple R-squared:  0.07779,    Adjusted R-squared:  0.07483
## F-statistic: 26.34 on 128 and 39977 DF,  p-value: < 2.2e-16
```

```
summary(lm(friendship ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f
.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.
0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = friendship ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.0246 -0.4244 -0.2513  0.9432  5.3304
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.385e+01  1.069e+00 -12.954  < 2e-16 ***
## pgsfive         1.384e-02  4.164e-03   3.323 0.000892 ***
## f.22009.0.1     2.129e-03  4.382e-03   0.486 0.627181
## f.22009.0.2    -5.542e-03  4.223e-03  -1.312 0.189415
## f.22009.0.3     7.707e-03  4.347e-03   1.773 0.076233 .
## f.22009.0.5    -1.069e-03  5.974e-03  -0.179 0.858042
## f.22009.0.4    -1.216e-02  6.072e-03  -2.003 0.045187 *
## f.22009.0.6     1.796e-04  4.304e-03   0.042 0.966723
## f.22009.0.7    -6.240e-04  4.378e-03  -0.143 0.886657
## f.22009.0.8    -2.583e-03  4.620e-03  -0.559 0.576024
## f.22009.0.9    -1.989e-04  4.559e-03  -0.044 0.965210
## f.22009.0.10   -3.897e-03  5.130e-03  -0.760 0.447381
## f.22009.0.11   -4.606e-03  6.040e-03  -0.763 0.445727
## f.22009.0.12    3.269e-03  5.262e-03   0.621 0.534367
## f.22009.0.13   -3.223e-03  4.235e-03  -0.761 0.446688
## f.22009.0.14    5.071e-03  4.592e-03   1.104 0.269516
```

```
## f.22009.0.15    5.261e-03  4.576e-03   1.150 0.250295
## f.22009.0.16   -4.342e-04  4.522e-03  -0.096 0.923503
## f.22009.0.17    4.006e-04  4.187e-03   0.096 0.923781
## f.22009.0.18   -3.005e-04  4.298e-03  -0.070 0.944259
## f.22009.0.19    2.243e-03  4.152e-03   0.540 0.589023
## f.22009.0.20   -6.802e-03  4.183e-03  -1.626 0.103950
## f.34.0.0        7.043e-03  5.471e-04  12.873  < 2e-16 ***
## f.22000.0.0-1   3.566e-02  5.892e-02   0.605 0.545053
## f.22000.0.010  -6.905e-02  5.878e-02  -1.175 0.240100
## f.22000.0.0-10 -3.025e-02  5.869e-02  -0.515 0.606322
## f.22000.0.011  -8.136e-03  5.729e-02  -0.142 0.887068
## f.22000.0.0-11  4.228e-02  5.837e-02   0.724 0.468847
## f.22000.0.012   7.994e-02  6.025e-02   1.327 0.184576
## f.22000.0.013   3.844e-02  5.786e-02   0.664 0.506397
## f.22000.0.014   8.776e-02  5.672e-02   1.547 0.121782
## f.22000.0.015   4.009e-02  5.802e-02   0.691 0.489611
## f.22000.0.016   8.976e-02  5.810e-02   1.545 0.122382
## f.22000.0.017   5.602e-02  5.866e-02   0.955 0.339522
## f.22000.0.018  -3.078e-03  5.889e-02  -0.052 0.958316
## f.22000.0.019   4.197e-02  5.756e-02   0.729 0.465942
## f.22000.0.02   -3.047e-02  5.794e-02  -0.526 0.599013
## f.22000.0.0-2  -3.583e-02  5.892e-02  -0.608 0.543088
## f.22000.0.020  -1.829e-02  5.907e-02  -0.310 0.756827
## f.22000.0.021  -3.944e-02  5.821e-02  -0.677 0.498118
## f.22000.0.022   4.350e-02  5.904e-02   0.737 0.461294
## f.22000.0.023   8.547e-03  5.676e-02   0.151 0.880300
## f.22000.0.024  -5.814e-03  5.758e-02  -0.101 0.919584
## f.22000.0.025   1.723e-02  5.875e-02   0.293 0.769335
## f.22000.0.026   4.728e-02  5.860e-02   0.807 0.419733
## f.22000.0.027   4.039e-02  5.763e-02   0.701 0.483422
## f.22000.0.028   1.136e-01  5.878e-02   1.932 0.053366 .
## f.22000.0.029   4.134e-02  5.922e-02   0.698 0.485133
## f.22000.0.03   -9.048e-03  5.684e-02  -0.159 0.873515
## f.22000.0.0-3   3.363e-02  5.743e-02   0.586 0.558129
## f.22000.0.030  -1.904e-02  5.816e-02  -0.327 0.743380
## f.22000.0.031   1.842e-02  5.805e-02   0.317 0.751048
## f.22000.0.032   5.358e-02  5.701e-02   0.940 0.347338
## f.22000.0.033   2.920e-02  5.937e-02   0.492 0.622862
## f.22000.0.034  -4.539e-03  5.745e-02  -0.079 0.937025
## f.22000.0.035  -7.169e-03  5.791e-02  -0.124 0.901481
## f.22000.0.036   1.559e-02  5.704e-02   0.273 0.784633
## f.22000.0.037   1.057e-01  5.895e-02   1.794 0.072861 .
## f.22000.0.038   3.048e-02  5.728e-02   0.532 0.594612
## f.22000.0.039  -2.005e-03  5.922e-02  -0.034 0.972997
## f.22000.0.04   -3.026e-02  5.874e-02  -0.515 0.606507
## f.22000.0.0-4  -4.316e-02  5.886e-02  -0.733 0.463410
## f.22000.0.040  -4.743e-02  5.741e-02  -0.826 0.408670
## f.22000.0.041  -6.290e-02  5.957e-02  -1.056 0.290984
## f.22000.0.042  -1.497e-02  5.651e-02  -0.265 0.791071
## f.22000.0.043   3.260e-02  5.998e-02   0.544 0.586775
## f.22000.0.044   8.285e-03  5.763e-02   0.144 0.885683
## f.22000.0.045   9.258e-02  5.869e-02   1.578 0.114676
## f.22000.0.046  -6.042e-03  5.953e-02  -0.101 0.919157
## f.22000.0.047   4.564e-02  5.854e-02   0.780 0.435637
## f.22000.0.048   1.860e-02  5.875e-02   0.317 0.751596
## f.22000.0.049  -4.778e-03  5.863e-02  -0.082 0.935041
## f.22000.0.05   -2.282e-02  5.640e-02  -0.405 0.685793
## f.22000.0.0-5  -5.464e-02  5.844e-02  -0.935 0.349771
## f.22000.0.050   1.320e-01  5.781e-02   2.283 0.022423 *
## f.22000.0.051   6.399e-02  5.721e-02   1.118 0.263366
## f.22000.0.052  -3.173e-02  5.794e-02  -0.548 0.583966
## f.22000.0.053   6.512e-02  5.816e-02   1.120 0.262834
## f.22000.0.054  -1.544e-02  5.898e-02  -0.262 0.793510
## f.22000.0.055   3.886e-02  5.841e-02   0.665 0.505781
## f.22000.0.056   7.611e-02  5.998e-02   1.269 0.204518
## f.22000.0.057   1.781e-02  6.042e-02   0.295 0.768169
## f.22000.0.058  -1.717e-02  5.901e-02  -0.291 0.771139
## f.22000.0.059  -6.182e-02  5.773e-02  -1.071 0.284228
## f.22000.0.06   -5.339e-02  5.763e-02  -0.926 0.354228
## f.22000.0.0-6   3.105e-02  5.748e-02   0.540 0.589055
## f.22000.0.060   1.328e-02  5.872e-02   0.226 0.821127
## f.22000.0.061   6.721e-02  6.107e-02   1.101 0.271104
## f.22000.0.062  -1.737e-02  5.881e-02  -0.295 0.767715
```

```
## f.22000.0.063   3.376e-02  5.857e-02   0.576 0.564336
## f.22000.0.064   1.056e-02  5.857e-02   0.180 0.856934
## f.22000.0.065   2.663e-02  5.913e-02   0.450 0.652420
## f.22000.0.066  -1.488e-02  5.957e-02  -0.250 0.802704
## f.22000.0.067   3.414e-02  5.802e-02   0.588 0.556271
## f.22000.0.068   4.546e-02  5.995e-02   0.758 0.448249
## f.22000.0.069  -1.311e-03  5.871e-02  -0.022 0.982180
## f.22000.0.07    3.427e-02  5.744e-02   0.597 0.550691
## f.22000.0.0-7   4.883e-02  5.852e-02   0.834 0.404043
## f.22000.0.070   2.356e-02  6.022e-02   0.391 0.695652
## f.22000.0.071  -1.091e-02  5.852e-02  -0.186 0.852165
## f.22000.0.072  -1.207e-02  5.797e-02  -0.208 0.835016
## f.22000.0.073   4.332e-02  6.039e-02   0.717 0.473217
## f.22000.0.074   6.663e-02  5.959e-02   1.118 0.263485
## f.22000.0.075   1.039e-01  5.863e-02   1.772 0.076389 .
## f.22000.0.076   2.177e-02  5.944e-02   0.366 0.714128
## f.22000.0.077   7.053e-03  5.863e-02   0.120 0.904240
## f.22000.0.078  -8.086e-03  5.869e-02  -0.138 0.890417
## f.22000.0.079   2.317e-03  5.877e-02   0.039 0.968557
## f.22000.0.08    1.180e-02  5.768e-02   0.205 0.837842
## f.22000.0.0-8   2.375e-02  5.819e-02   0.408 0.683192
## f.22000.0.080   1.549e-02  5.929e-02   0.261 0.793843
## f.22000.0.081  -2.475e-03  6.042e-02  -0.041 0.967328
## f.22000.0.082   4.687e-02  6.005e-02   0.780 0.435130
## f.22000.0.083  -6.381e-03  6.103e-02  -0.105 0.916739
## f.22000.0.084  -2.597e-02  5.895e-02  -0.440 0.659591
## f.22000.0.085   7.235e-02  5.956e-02   1.215 0.224437
## f.22000.0.086   6.634e-02  5.995e-02   1.107 0.268452
## f.22000.0.087   5.188e-02  5.889e-02   0.881 0.378343
## f.22000.0.088   3.878e-02  6.246e-02   0.621 0.534617
## f.22000.0.089  -2.025e-02  5.989e-02  -0.338 0.735263
## f.22000.0.09    1.862e-02  5.813e-02   0.320 0.748765
## f.22000.0.0-9  -4.636e-02  5.821e-02  -0.796 0.425767
## f.22000.0.090   7.294e-02  5.861e-02   1.245 0.213299
## f.22000.0.091  -4.097e-02  5.875e-02  -0.697 0.485566
## f.22000.0.092   4.280e-04  5.726e-02   0.007 0.994037
## f.22000.0.093   2.051e-02  5.895e-02   0.348 0.727948
## f.22000.0.094   1.674e-02  7.766e-02   0.216 0.829323
## f.22000.0.095   4.093e-02  6.283e-02   0.651 0.514772
## f.22001.0.01    1.937e-01  8.393e-03  23.075  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9943 on 57382 degrees of freedom
##   (62356 observations deleted due to missingness)
## Multiple R-squared:  0.01356,    Adjusted R-squared:  0.01136
## F-statistic: 6.162 on 128 and 57382 DF,  p-value: < 2.2e-16
```

```
summary(lm(family ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.220
09.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13
+ f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = family ~ pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.6762 -0.3342 -0.1996  0.8753  4.6286
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.481e+01  1.072e+00 -13.810  < 2e-16 ***
## pgsfive         1.913e-02  4.177e-03   4.579 4.68e-06 ***
## f.22009.0.1    -3.484e-03  4.400e-03  -0.792 0.428499
```

```
## f.22009.0.2    -5.042e-03  4.232e-03  -1.191 0.233523
## f.22009.0.3     1.410e-03  4.361e-03   0.323 0.746474
## f.22009.0.5     7.369e-03  5.992e-03   1.230 0.218740
## f.22009.0.4    -1.269e-02  6.092e-03  -2.082 0.037314 *
## f.22009.0.6    -9.494e-05  4.316e-03  -0.022 0.982450
## f.22009.0.7    -1.108e-03  4.393e-03  -0.252 0.800894
## f.22009.0.8     2.163e-03  4.635e-03   0.467 0.640745
## f.22009.0.9     1.473e-03  4.569e-03   0.322 0.747239
## f.22009.0.10    3.517e-03  5.143e-03   0.684 0.494049
## f.22009.0.11   -6.092e-03  6.056e-03  -1.006 0.314414
## f.22009.0.12    7.470e-03  5.278e-03   1.415 0.156985
## f.22009.0.13   -9.443e-03  4.249e-03  -2.222 0.026268 *
## f.22009.0.14   -7.232e-03  4.606e-03  -1.570 0.116377
## f.22009.0.15    3.709e-03  4.589e-03   0.808 0.418896
## f.22009.0.16   -3.163e-03  4.531e-03  -0.698 0.485132
## f.22009.0.17    2.209e-03  4.199e-03   0.526 0.598750
## f.22009.0.18   -2.033e-03  4.309e-03  -0.472 0.637109
## f.22009.0.19    2.721e-03  4.163e-03   0.654 0.513317
## f.22009.0.20   -1.412e-02  4.195e-03  -3.366 0.000763 ***
## f.34.0.0        7.588e-03  5.485e-04  13.832  < 2e-16 ***
## f.22000.0.0-1  -1.926e-02  5.910e-02  -0.326 0.744486
## f.22000.0.010  -2.607e-02  5.901e-02  -0.442 0.658618
## f.22000.0.0-10  5.680e-02  5.887e-02   0.965 0.334557
## f.22000.0.011  -3.769e-02  5.745e-02  -0.656 0.511746
## f.22000.0.0-11 -5.405e-03  5.854e-02  -0.092 0.926436
## f.22000.0.012   7.694e-02  6.047e-02   1.272 0.203226
## f.22000.0.013   3.059e-02  5.800e-02   0.527 0.597903
## f.22000.0.014   6.480e-02  5.686e-02   1.140 0.254432
## f.22000.0.015  -2.925e-02  5.806e-02  -0.504 0.614395
## f.22000.0.016   8.736e-02  5.813e-02   1.503 0.132937
## f.22000.0.017  -2.098e-03  5.883e-02  -0.036 0.971549
## f.22000.0.018   5.234e-03  5.906e-02   0.089 0.929385
## f.22000.0.019  -6.599e-04  5.783e-02  -0.011 0.990896
## f.22000.0.02    1.881e-02  5.817e-02   0.323 0.746467
## f.22000.0.0-2   3.330e-02  5.915e-02   0.563 0.573438
## f.22000.0.020  -4.359e-02  5.921e-02  -0.736 0.461660
## f.22000.0.021  -4.710e-03  5.835e-02  -0.081 0.935670
## f.22000.0.022   8.046e-03  5.922e-02   0.136 0.891917
## f.22000.0.023  -4.410e-02  5.688e-02  -0.775 0.438151
## f.22000.0.024  -7.212e-02  5.780e-02  -1.248 0.212133
## f.22000.0.025  -6.159e-02  5.906e-02  -1.043 0.297086
## f.22000.0.026  -5.779e-03  5.883e-02  -0.098 0.921749
## f.22000.0.027  -3.679e-02  5.777e-02  -0.637 0.524206
## f.22000.0.028   5.673e-02  5.880e-02   0.965 0.334728
## f.22000.0.029  -4.719e-02  5.958e-02  -0.792 0.428375
## f.22000.0.03   -9.002e-02  5.700e-02  -1.579 0.114254
## f.22000.0.0-3  -9.754e-02  5.755e-02  -1.695 0.090073 .
## f.22000.0.030  -4.404e-02  5.835e-02  -0.755 0.450443
## f.22000.0.031  -8.693e-04  5.809e-02  -0.015 0.988059
## f.22000.0.032   1.044e-02  5.706e-02   0.183 0.854859
## f.22000.0.033   1.493e-02  5.942e-02   0.251 0.801614
## f.22000.0.034  -1.508e-03  5.767e-02  -0.026 0.979140
## f.22000.0.035   2.093e-02  5.806e-02   0.360 0.718477
## f.22000.0.036   5.072e-02  5.720e-02   0.887 0.375310
## f.22000.0.037   7.425e-02  5.915e-02   1.255 0.209405
## f.22000.0.038  -4.127e-02  5.742e-02  -0.719 0.472242
## f.22000.0.039  -2.479e-02  5.928e-02  -0.418 0.675770
## f.22000.0.04   -3.140e-02  5.897e-02  -0.532 0.594482
## f.22000.0.0-4   2.070e-03  5.906e-02   0.035 0.972045
## f.22000.0.040  -6.397e-02  5.752e-02  -1.112 0.266096
## f.22000.0.041  -8.728e-02  5.974e-02  -1.461 0.144025
## f.22000.0.042   3.003e-02  5.658e-02   0.531 0.595600
## f.22000.0.043   7.583e-02  6.030e-02   1.258 0.208538
## f.22000.0.044  -6.152e-02  5.774e-02  -1.065 0.286672
## f.22000.0.045   7.154e-02  5.886e-02   1.215 0.224188
## f.22000.0.046  -7.964e-02  5.980e-02  -1.332 0.182932
## f.22000.0.047  -3.496e-02  5.862e-02  -0.596 0.550957
## f.22000.0.048   1.678e-02  5.877e-02   0.285 0.775276
## f.22000.0.049   2.339e-02  5.886e-02   0.397 0.691113
## f.22000.0.05   -3.813e-02  5.640e-02  -0.676 0.499054
## f.22000.0.0-5   4.195e-02  5.858e-02   0.716 0.473876
## f.22000.0.050   4.622e-03  5.806e-02   0.080 0.936551
## f.22000.0.051   4.025e-02  5.711e-02   0.705 0.481011
```

```
## f.22000.0.052  -2.769e-02  5.811e-02  -0.476 0.633759
## f.22000.0.053  -7.070e-02  5.838e-02  -1.211 0.225872
## f.22000.0.054   1.952e-02  5.906e-02   0.330 0.741042
## f.22000.0.055  -5.126e-03  5.847e-02  -0.088 0.930137
## f.22000.0.056   4.623e-02  6.010e-02   0.769 0.441765
## f.22000.0.057  -2.547e-02  6.060e-02  -0.420 0.674316
## f.22000.0.058  -1.870e-04  5.915e-02  -0.003 0.997478
## f.22000.0.059  -6.001e-02  5.787e-02  -1.037 0.299792
## f.22000.0.06   -5.198e-02  5.765e-02  -0.902 0.367250
## f.22000.0.0-6  -2.844e-03  5.762e-02  -0.049 0.960627
## f.22000.0.060   9.179e-03  5.889e-02   0.156 0.876138
## f.22000.0.061  -2.284e-02  6.122e-02  -0.373 0.709060
## f.22000.0.062  -6.572e-02  5.901e-02  -1.114 0.265406
## f.22000.0.063   2.189e-02  5.880e-02   0.372 0.709691
## f.22000.0.064   1.814e-02  5.872e-02   0.309 0.757339
## f.22000.0.065   8.815e-02  5.930e-02   1.486 0.137180
## f.22000.0.066  -3.447e-02  5.962e-02  -0.578 0.563088
## f.22000.0.067  -1.704e-02  5.818e-02  -0.293 0.769582
## f.22000.0.068  -5.093e-03  6.020e-02  -0.085 0.932574
## f.22000.0.069   2.080e-02  5.903e-02   0.352 0.724584
## f.22000.0.07    3.862e-02  5.750e-02   0.672 0.501788
## f.22000.0.0-7   3.931e-02  5.877e-02   0.669 0.503641
## f.22000.0.070   2.867e-02  6.040e-02   0.475 0.635030
## f.22000.0.071  -3.752e-02  5.872e-02  -0.639 0.522845
## f.22000.0.072  -6.225e-05  5.806e-02  -0.001 0.999145
## f.22000.0.073  -1.882e-02  6.064e-02  -0.310 0.756249
## f.22000.0.074   4.492e-02  5.970e-02   0.752 0.451763
## f.22000.0.075   7.792e-02  5.869e-02   1.328 0.184246
## f.22000.0.076   1.231e-02  5.968e-02   0.206 0.836605
## f.22000.0.077  -5.796e-02  5.883e-02  -0.985 0.324471
## f.22000.0.078  -5.349e-02  5.883e-02  -0.909 0.363259
## f.22000.0.079  -4.576e-02  5.894e-02  -0.776 0.437556
## f.22000.0.08   -3.481e-02  5.779e-02  -0.602 0.546963
## f.22000.0.0-8  -1.520e-03  5.836e-02  -0.026 0.979223
## f.22000.0.080   2.450e-02  5.955e-02   0.411 0.680848
## f.22000.0.081  -5.087e-02  6.053e-02  -0.840 0.400672
## f.22000.0.082   4.278e-02  6.016e-02   0.711 0.477056
## f.22000.0.083   8.749e-03  6.114e-02   0.143 0.886214
## f.22000.0.084  -4.499e-02  5.912e-02  -0.761 0.446658
## f.22000.0.085   7.286e-02  5.961e-02   1.222 0.221577
## f.22000.0.086  -3.009e-02  6.000e-02  -0.502 0.616012
## f.22000.0.087   4.405e-02  5.897e-02   0.747 0.455136
## f.22000.0.088  -2.992e-03  6.231e-02  -0.048 0.961700
## f.22000.0.089  -2.246e-02  5.997e-02  -0.374 0.708037
## f.22000.0.09   -3.842e-02  5.833e-02  -0.659 0.510079
## f.22000.0.0-9  -3.782e-02  5.837e-02  -0.648 0.517021
## f.22000.0.090   5.650e-02  5.878e-02   0.961 0.336489
## f.22000.0.091  -1.974e-02  5.895e-02  -0.335 0.737754
## f.22000.0.092   2.020e-02  5.738e-02   0.352 0.724752
## f.22000.0.093  -1.972e-02  5.919e-02  -0.333 0.738974
## f.22000.0.094  -8.317e-05  7.791e-02  -0.001 0.999148
## f.22000.0.095  -7.424e-03  6.302e-02  -0.118 0.906233
## f.22001.0.01   -5.332e-03  8.419e-03  -0.633 0.526481
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.998 on 57460 degrees of freedom
##   (62278 observations deleted due to missingness)
## Multiple R-squared:  0.006245,   Adjusted R-squared:  0.004031
## F-statistic: 2.821 on 128 and 57460 DF,  p-value: < 2.2e-16
```

```
summary(lm(socfreq ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22
009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.1
3 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = socfreq ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
```

```
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.2398 -0.7163  0.0253  0.4474  4.2523
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.185e+01  7.352e-01 -43.320  < 2e-16 ***
## pgsfive         1.451e-02  2.843e-03   5.105 3.31e-07 ***
## f.22009.0.1    -7.396e-04  3.007e-03  -0.246 0.805698
## f.22009.0.2     5.755e-04  2.894e-03   0.199 0.842389
## f.22009.0.3     2.553e-03  2.969e-03   0.860 0.389879
## f.22009.0.5     2.580e-03  4.032e-03   0.640 0.522314
## f.22009.0.4    -1.350e-02  4.154e-03  -3.249 0.001158 **
## f.22009.0.6     5.594e-03  2.938e-03   1.904 0.056956 .
## f.22009.0.7     2.437e-03  3.009e-03   0.810 0.417897
## f.22009.0.8     7.265e-03  3.174e-03   2.289 0.022074 *
## f.22009.0.9    -1.232e-02  3.030e-03  -4.067 4.77e-05 ***
## f.22009.0.10   -1.320e-02  3.514e-03  -3.755 0.000173 ***
## f.22009.0.11   -1.764e-02  4.088e-03  -4.316 1.59e-05 ***
## f.22009.0.12    7.865e-03  3.591e-03   2.190 0.028539 *
## f.22009.0.13   -3.620e-03  2.889e-03  -1.253 0.210318
## f.22009.0.14   -1.254e-02  3.054e-03  -4.106 4.03e-05 ***
## f.22009.0.15   -1.243e-03  3.131e-03  -0.397 0.691414
## f.22009.0.16   -4.755e-03  3.066e-03  -1.551 0.120944
## f.22009.0.17    2.794e-03  2.847e-03   0.982 0.326310
## f.22009.0.18   -1.955e-02  2.854e-03  -6.848 7.54e-12 ***
## f.22009.0.19    1.049e-02  2.842e-03   3.692 0.000223 ***
## f.22009.0.20   -2.243e-02  2.848e-03  -7.877 3.39e-15 ***
## f.34.0.0        1.624e-02  3.762e-04  43.171  < 2e-16 ***
## f.22000.0.0-1  -2.874e-02  4.012e-02  -0.716 0.473715
## f.22000.0.010   6.783e-03  4.058e-02   0.167 0.867262
## f.22000.0.0-10  5.617e-02  4.083e-02   1.376 0.168938
## f.22000.0.011   5.886e-03  3.996e-02   0.147 0.882912
## f.22000.0.0-11  7.986e-03  4.041e-02   0.198 0.843331
## f.22000.0.012  -8.804e-03  4.020e-02  -0.219 0.826618
## f.22000.0.013   7.227e-03  4.004e-02   0.181 0.856754
## f.22000.0.014   6.032e-03  3.981e-02   0.152 0.879556
## f.22000.0.015   5.198e-02  4.004e-02   1.298 0.194249
## f.22000.0.016   1.698e-02  4.026e-02   0.422 0.673190
## f.22000.0.017   6.667e-02  3.990e-02   1.671 0.094740 .
## f.22000.0.018   3.838e-02  4.034e-02   0.952 0.341312
## f.22000.0.019  -1.247e-02  3.950e-02  -0.316 0.752235
## f.22000.0.02   -2.132e-02  3.966e-02  -0.538 0.590920
## f.22000.0.0-2  -3.149e-03  4.037e-02  -0.078 0.937829
## f.22000.0.020   3.829e-02  4.019e-02   0.953 0.340762
## f.22000.0.021   5.857e-02  4.008e-02   1.461 0.143909
## f.22000.0.022   4.822e-02  4.009e-02   1.203 0.229088
## f.22000.0.023  -1.602e-03  4.005e-02  -0.040 0.968095
## f.22000.0.024  -4.583e-02  3.953e-02  -1.159 0.246279
## f.22000.0.025  -2.694e-03  4.053e-02  -0.066 0.947007
## f.22000.0.026   2.429e-02  4.027e-02   0.603 0.546392
## f.22000.0.027   3.225e-02  3.966e-02   0.813 0.416047
## f.22000.0.028  -2.813e-02  4.004e-02  -0.703 0.482287
## f.22000.0.029   5.072e-02  3.977e-02   1.275 0.202199
## f.22000.0.03    2.194e-02  3.973e-02   0.552 0.580859
## f.22000.0.0-3  -3.684e-02  3.999e-02  -0.921 0.357022
## f.22000.0.030  -4.314e-03  3.980e-02  -0.108 0.913669
## f.22000.0.031   2.217e-02  3.993e-02   0.555 0.578619
## f.22000.0.032  -6.849e-03  4.011e-02  -0.171 0.864405
## f.22000.0.033   5.467e-02  4.087e-02   1.338 0.181018
## f.22000.0.034   1.679e-02  3.990e-02   0.421 0.673777
## f.22000.0.035   1.686e-02  3.992e-02   0.422 0.672873
## f.22000.0.036  -4.481e-03  3.965e-02  -0.113 0.910015
## f.22000.0.037   2.848e-02  4.024e-02   0.708 0.479132
## f.22000.0.038   7.680e-02  4.013e-02   1.914 0.055656 .
## f.22000.0.039   4.310e-02  4.056e-02   1.062 0.288039
## f.22000.0.04    2.416e-02  4.049e-02   0.597 0.550660
## f.22000.0.0-4  -9.706e-03  4.063e-02  -0.239 0.811206
## f.22000.0.040   4.686e-02  4.005e-02   1.170 0.242072
```

```
## f.22000.0.041   1.862e-02  4.068e-02   0.458 0.647219
## f.22000.0.042  -9.168e-03  3.998e-02  -0.229 0.818631
## f.22000.0.043   1.291e-02  4.069e-02   0.317 0.750987
## f.22000.0.044   5.948e-03  4.024e-02   0.148 0.882485
## f.22000.0.045   9.076e-02  4.030e-02   2.252 0.024293 *
## f.22000.0.046   8.996e-02  4.051e-02   2.221 0.026363 *
## f.22000.0.047   5.085e-02  4.052e-02   1.255 0.209462
## f.22000.0.048  -2.311e-03  4.044e-02  -0.057 0.954433
## f.22000.0.049  -7.028e-04  4.046e-02  -0.017 0.986142
## f.22000.0.05   -3.570e-02  3.977e-02  -0.898 0.369423
## f.22000.0.0-5   1.291e-02  4.020e-02   0.321 0.748107
## f.22000.0.050   8.910e-02  4.054e-02   2.198 0.027949 *
## f.22000.0.051   3.508e-04  3.989e-02   0.009 0.992983
## f.22000.0.052  -1.157e-02  4.062e-02  -0.285 0.775706
## f.22000.0.053  -6.341e-03  4.037e-02  -0.157 0.875182
## f.22000.0.054  -6.193e-02  4.045e-02  -1.531 0.125814
## f.22000.0.055   4.222e-03  4.078e-02   0.104 0.917534
## f.22000.0.056   9.794e-02  4.044e-02   2.422 0.015446 *
## f.22000.0.057   3.830e-02  4.063e-02   0.942 0.345941
## f.22000.0.058   3.607e-02  4.046e-02   0.892 0.372618
## f.22000.0.059   2.178e-02  4.029e-02   0.540 0.588888
## f.22000.0.06    2.211e-02  3.963e-02   0.558 0.576883
## f.22000.0.0-6  -1.445e-02  4.054e-02  -0.356 0.721538
## f.22000.0.060  -3.493e-02  4.072e-02  -0.858 0.390925
## f.22000.0.061   9.456e-03  4.096e-02   0.231 0.817407
## f.22000.0.062  -1.549e-02  4.078e-02  -0.380 0.703997
## f.22000.0.063  -4.308e-03  4.079e-02  -0.106 0.915874
## f.22000.0.064  -2.782e-03  4.043e-02  -0.069 0.945143
## f.22000.0.065   4.352e-02  4.070e-02   1.069 0.284946
## f.22000.0.066   8.029e-03  4.108e-02   0.195 0.845055
## f.22000.0.067   2.599e-02  4.066e-02   0.639 0.522758
## f.22000.0.068   2.837e-02  4.059e-02   0.699 0.484613
## f.22000.0.069   1.270e-02  4.071e-02   0.312 0.755144
## f.22000.0.07    4.096e-02  3.993e-02   1.026 0.305054
## f.22000.0.0-7  -2.857e-02  4.027e-02  -0.710 0.477961
## f.22000.0.070   5.533e-02  4.071e-02   1.359 0.174138
## f.22000.0.071   2.961e-02  4.052e-02   0.731 0.464901
## f.22000.0.072  -3.534e-02  4.079e-02  -0.866 0.386223
## f.22000.0.073   1.316e-02  4.072e-02   0.323 0.746607
## f.22000.0.074   2.990e-02  4.094e-02   0.730 0.465159
## f.22000.0.075   3.547e-02  4.054e-02   0.875 0.381501
## f.22000.0.076   4.622e-04  4.097e-02   0.011 0.990999
## f.22000.0.077  -5.767e-03  4.070e-02  -0.142 0.887319
## f.22000.0.078  -2.135e-02  4.050e-02  -0.527 0.598041
## f.22000.0.079  -2.734e-02  4.039e-02  -0.677 0.498453
## f.22000.0.08   -1.090e-02  3.988e-02  -0.273 0.784537
## f.22000.0.0-8   3.597e-02  4.044e-02   0.889 0.373741
## f.22000.0.080   7.852e-03  4.083e-02   0.192 0.847503
## f.22000.0.081   9.133e-02  4.130e-02   2.211 0.027027 *
## f.22000.0.082  -6.184e-03  4.080e-02  -0.152 0.879517
## f.22000.0.083  -3.439e-02  4.090e-02  -0.841 0.400457
## f.22000.0.084  -2.010e-03  4.094e-02  -0.049 0.960847
## f.22000.0.085   9.681e-02  4.078e-02   2.374 0.017586 *
## f.22000.0.086  -2.792e-04  4.086e-02  -0.007 0.994547
## f.22000.0.087   7.636e-03  4.086e-02   0.187 0.851750
## f.22000.0.088   1.124e-02  4.159e-02   0.270 0.787002
## f.22000.0.089   3.210e-02  4.127e-02   0.778 0.436700
## f.22000.0.09    5.485e-02  3.969e-02   1.382 0.166981
## f.22000.0.0-9   2.043e-03  4.045e-02   0.051 0.959723
## f.22000.0.090   3.371e-02  4.088e-02   0.825 0.409549
## f.22000.0.091  -4.580e-02  4.225e-02  -1.084 0.278304
## f.22000.0.092   7.289e-02  4.095e-02   1.780 0.075097 .
## f.22000.0.093   5.619e-02  4.087e-02   1.375 0.169212
## f.22000.0.094   1.138e-01  5.228e-02   2.177 0.029501 *
## f.22000.0.095   2.376e-02  4.356e-02   0.545 0.585434
## f.22001.0.01    2.917e-01  5.741e-03  50.818  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9815 on 119266 degrees of freedom
##   (472 observations deleted due to missingness)
## Multiple R-squared:  0.03768,    Adjusted R-squared:  0.03665
## F-statistic: 36.49 on 128 and 119266 DF,  p-value: < 2.2e-16
```

```
## F-statistic: 50.49 on 126 and 119200 DF,  p-value: < 2.2e-16
```

```
summary(lm( f.4537.0.0 ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.4537.0.0 ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.2843 -0.6550  0.2168  0.5487  4.2857
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.337e+01  1.478e+00 -29.343  < 2e-16 ***
## pgsfive         1.135e-02  5.666e-03   2.003  0.04520 *
## f.22009.0.1    -3.604e-03  5.921e-03  -0.609  0.54270
## f.22009.0.2     4.508e-03  5.721e-03   0.788  0.43070
## f.22009.0.3    -4.564e-03  5.867e-03  -0.778  0.43657
## f.22009.0.5    -3.774e-03  8.148e-03  -0.463  0.64322
## f.22009.0.4     1.111e-02  8.180e-03   1.358  0.17453
## f.22009.0.6    -7.651e-04  5.804e-03  -0.132  0.89513
## f.22009.0.7     2.047e-03  5.913e-03   0.346  0.72915
## f.22009.0.8     5.602e-04  6.252e-03   0.090  0.92860
## f.22009.0.9    -8.320e-04  6.399e-03  -0.130  0.89656
## f.22009.0.10   -1.960e-03  6.933e-03  -0.283  0.77740
## f.22009.0.11    2.263e-03  8.299e-03   0.273  0.78504
## f.22009.0.12    9.724e-03  7.161e-03   1.358  0.17449
## f.22009.0.13   -5.331e-03  5.729e-03  -0.930  0.35215
## f.22009.0.14    2.809e-03  6.393e-03   0.439  0.66035
## f.22009.0.15   -1.367e-03  6.190e-03  -0.221  0.82527
## f.22009.0.16   -1.327e-02  6.233e-03  -2.129  0.03326 *
## f.22009.0.17   -7.630e-03  5.641e-03  -1.353  0.17621
## f.22009.0.18   -9.375e-03  5.930e-03  -1.581  0.11389
## f.22009.0.19   -5.801e-03  5.640e-03  -1.029  0.30372
## f.22009.0.20   -9.654e-04  5.710e-03  -0.169  0.86576
## f.34.0.0        2.215e-02  7.554e-04  29.315  < 2e-16 ***
## f.22000.0.0-1   1.400e-01  8.037e-02   1.742  0.08152 .
## f.22000.0.010   1.136e-01  7.866e-02   1.444  0.14863
## f.22000.0.0-10 -8.803e-04  7.997e-02  -0.011  0.99122
## f.22000.0.011   1.363e-01  7.756e-02   1.757  0.07887 .
## f.22000.0.0-11  1.806e-01  7.685e-02   2.350  0.01880 *
## f.22000.0.012   1.093e-02  8.205e-02   0.133  0.89402
## f.22000.0.013   9.255e-02  7.851e-02   1.179  0.23846
## f.22000.0.014   7.883e-02  7.568e-02   1.042  0.29757
## f.22000.0.015   6.812e-02  7.742e-02   0.880  0.37899
## f.22000.0.016  -3.090e-02  7.873e-02  -0.392  0.69475
## f.22000.0.017   3.023e-02  8.037e-02   0.376  0.70682
## f.22000.0.018   9.006e-02  8.071e-02   1.116  0.26448
## f.22000.0.019   2.179e-02  7.743e-02   0.281  0.77838
## f.22000.0.02    2.678e-02  7.686e-02   0.348  0.72751
## f.22000.0.0-2   4.335e-02  7.987e-02   0.543  0.58732
## f.22000.0.020   7.603e-02  7.957e-02   0.956  0.33933
## f.22000.0.021  -3.106e-02  7.996e-02  -0.388  0.69771
## f.22000.0.022   1.723e-01  8.014e-02   2.150  0.03157 *
## f.22000.0.023   6.823e-02  7.572e-02   0.901  0.36752
## f.22000.0.024  -1.303e-03  7.673e-02  -0.017  0.98645
## f.22000.0.025   2.088e-01  7.934e-02   2.632  0.00848 **
## f.22000.0.026   1.341e-01  7.845e-02   1.709  0.08741 .
## f.22000.0.027   1.044e-01  7.742e-02   1.348  0.17756
## f.22000.0.028  -1.070e-02  7.996e-02  -0.134  0.89353
## f.22000.0.029   6.785e-02  8.070e-02   0.841  0.40050
## f.22000.0.03    9.469e-02  7.607e-02   1.245  0.21324
## f.22000.0.0-3   5.633e-02  7.729e-02   0.729  0.46616
```

```
## f.22000.0.030   1.144e-01  8.037e-02   1.423  0.15480
## f.22000.0.031   7.920e-02  7.816e-02   1.013  0.31092
## f.22000.0.032   1.142e-01  7.678e-02   1.488  0.13678
## f.22000.0.033   1.645e-01  8.046e-02   2.044  0.04093 *
## f.22000.0.034   1.582e-01  7.742e-02   2.043  0.04102 *
## f.22000.0.035   4.104e-02  7.781e-02   0.527  0.59789
## f.22000.0.036   9.059e-02  7.523e-02   1.204  0.22851
## f.22000.0.037   3.223e-02  7.934e-02   0.406  0.68454
## f.22000.0.038   9.523e-02  7.630e-02   1.248  0.21198
## f.22000.0.039   8.739e-02  7.988e-02   1.094  0.27395
## f.22000.0.04    1.209e-01  7.980e-02   1.515  0.12975
## f.22000.0.0-4   1.659e-01  8.020e-02   2.069  0.03859 *
## f.22000.0.040   1.278e-01  7.625e-02   1.677  0.09361 .
## f.22000.0.041   2.327e-02  7.796e-02   0.298  0.76538
## f.22000.0.042   3.268e-05  7.589e-02   0.000  0.99966
## f.22000.0.043   9.906e-02  8.036e-02   1.233  0.21771
## f.22000.0.044   1.247e-02  7.735e-02   0.161  0.87192
## f.22000.0.045   2.009e-01  7.803e-02   2.575  0.01003 *
## f.22000.0.046   1.291e-01  7.972e-02   1.620  0.10535
## f.22000.0.047   9.181e-02  7.776e-02   1.181  0.23773
## f.22000.0.048   9.732e-02  8.021e-02   1.213  0.22503
## f.22000.0.049  -2.257e-02  7.881e-02  -0.286  0.77461
## f.22000.0.05    6.095e-02  7.396e-02   0.824  0.40988
## f.22000.0.0-5   1.517e-01  7.796e-02   1.946  0.05168 .
## f.22000.0.050   3.412e-02  7.703e-02   0.443  0.65785
## f.22000.0.051   2.901e-02  7.530e-02   0.385  0.70006
## f.22000.0.052   9.997e-02  7.709e-02   1.297  0.19473
## f.22000.0.053   9.923e-02  7.980e-02   1.243  0.21370
## f.22000.0.054   9.306e-02  7.830e-02   1.188  0.23467
## f.22000.0.055   6.743e-02  7.691e-02   0.877  0.38066
## f.22000.0.056   1.080e-01  8.274e-02   1.306  0.19166
## f.22000.0.057   4.946e-02  8.079e-02   0.612  0.54038
## f.22000.0.058   8.129e-02  7.888e-02   1.031  0.30276
## f.22000.0.059   5.275e-02  7.528e-02   0.701  0.48351
## f.22000.0.06    1.482e-02  7.643e-02   0.194  0.84620
## f.22000.0.0-6   2.956e-02  7.672e-02   0.385  0.70005
## f.22000.0.060   1.653e-01  7.768e-02   2.128  0.03336 *
## f.22000.0.061   1.467e-01  8.186e-02   1.792  0.07322 .
## f.22000.0.062   1.274e-01  7.933e-02   1.606  0.10818
## f.22000.0.063   1.014e-02  7.830e-02   0.130  0.89696
## f.22000.0.064   9.049e-02  7.925e-02   1.142  0.25356
## f.22000.0.065   1.452e-02  8.005e-02   0.181  0.85608
## f.22000.0.066   4.814e-02  7.896e-02   0.610  0.54211
## f.22000.0.067   8.758e-02  7.795e-02   1.124  0.26122
## f.22000.0.068   7.340e-02  8.106e-02   0.905  0.36522
## f.22000.0.069   8.963e-02  7.926e-02   1.131  0.25813
## f.22000.0.07    6.356e-02  7.662e-02   0.830  0.40679
## f.22000.0.0-7   2.876e-02  7.845e-02   0.367  0.71390
## f.22000.0.070  -5.917e-03  8.140e-02  -0.073  0.94205
## f.22000.0.071  -7.763e-03  7.790e-02  -0.100  0.92062
## f.22000.0.072   1.266e-01  7.743e-02   1.635  0.10199
## f.22000.0.073   1.458e-01  8.216e-02   1.775  0.07591 .
## f.22000.0.074   3.374e-02  7.910e-02   0.427  0.66969
## f.22000.0.075  -2.877e-02  7.742e-02  -0.372  0.71021
## f.22000.0.076   1.116e-01  8.005e-02   1.394  0.16332
## f.22000.0.077   3.606e-02  7.851e-02   0.459  0.64599
## f.22000.0.078   4.535e-02  7.777e-02   0.583  0.55979
## f.22000.0.079   3.645e-02  7.911e-02   0.461  0.64499
## f.22000.0.08    4.055e-02  7.698e-02   0.527  0.59831
## f.22000.0.0-8   4.526e-02  7.918e-02   0.572  0.56758
## f.22000.0.080   1.051e-01  8.030e-02   1.309  0.19069
## f.22000.0.081   4.556e-02  8.282e-02   0.550  0.58228
## f.22000.0.082   1.332e-01  8.215e-02   1.621  0.10503
## f.22000.0.083   8.588e-02  8.206e-02   1.047  0.29531
## f.22000.0.084   1.396e-01  7.896e-02   1.768  0.07711 .
## f.22000.0.085   2.164e-02  8.062e-02   0.268  0.78833
## f.22000.0.086   1.310e-02  8.159e-02   0.161  0.87247
## f.22000.0.087   4.825e-02  7.838e-02   0.616  0.53819
## f.22000.0.088   1.881e-02  8.521e-02   0.221  0.82528
## f.22000.0.089   5.741e-02  8.178e-02   0.702  0.48265
## f.22000.0.09    9.801e-02  7.903e-02   1.240  0.21488
## f.22000.0.0-9   1.355e-02  7.866e-02   0.172  0.86320
## f.22000.0.090   7.887e-02  7.797e-02   1.012  0.31176
```

```
## f.22000.0.090   7.887e-02  7.797e-02   1.012  0.31170
## f.22000.0.091   8.189e-02  7.729e-02   1.060  0.28937
## f.22000.0.092   3.742e-02  7.477e-02   0.500  0.61676
## f.22000.0.093   5.809e-02  7.838e-02   0.741  0.45862
## f.22000.0.094   2.230e-02  1.035e-01   0.216  0.82937
## f.22000.0.095  -4.762e-02  8.205e-02  -0.580  0.56170
## f.22001.0.01    5.187e-02  1.136e-02   4.564 5.03e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9863 on 30790 degrees of freedom
##   (88948 observations deleted due to missingness)
## Multiple R-squared:  0.03121,    Adjusted R-squared:  0.02718
## F-statistic: 7.749 on 128 and 30790 DF,  p-value: < 2.2e-16
```

```
summary(lm( f.20522.0.0 ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20522.0.0 ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.5311 -0.7714  0.6929  0.7817  1.0376
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.8125711  0.7568076  -6.359 2.04e-10 ***
## pgsfive        -0.0071775  0.0029235  -2.455  0.01409 *
## f.22009.0.1    -0.0021885  0.0030906  -0.708  0.47887
## f.22009.0.2     0.0012815  0.0029763   0.431  0.66680
## f.22009.0.3     0.0038154  0.0030525   1.250  0.21133
## f.22009.0.5    -0.0161866  0.0041468  -3.903 9.49e-05 ***
## f.22009.0.4    -0.0075037  0.0042730  -1.756  0.07908 .
## f.22009.0.6     0.0003069  0.0030220   0.102  0.91912
## f.22009.0.7    -0.0006101  0.0030955  -0.197  0.84376
## f.22009.0.8    -0.0012603  0.0032618  -0.386  0.69923
## f.22009.0.9    -0.0091980  0.0031166  -2.951  0.00316 **
## f.22009.0.10    0.0001344  0.0036132   0.037  0.97032
## f.22009.0.11   -0.0133570  0.0042024  -3.178  0.00148 **
## f.22009.0.12    0.0025541  0.0036938   0.691  0.48928
## f.22009.0.13    0.0069175  0.0029715   2.328  0.01992 *
## f.22009.0.14    0.0148478  0.0031413   4.727 2.29e-06 ***
## f.22009.0.15   -0.0070498  0.0032185  -2.190  0.02849 *
## f.22009.0.16    0.0077150  0.0031519   2.448  0.01438 *
## f.22009.0.17   -0.0007691  0.0029268  -0.263  0.79271
## f.22009.0.18   -0.0089465  0.0029362  -3.047  0.00231 **
## f.22009.0.19    0.0070342  0.0029227   2.407  0.01610 *
## f.22009.0.20   -0.0090916  0.0029285  -3.104  0.00191 **
## f.34.0.0        0.0024768  0.0003873   6.395 1.61e-10 ***
## f.22000.0.0-1  -0.0513888  0.0411803  -1.248  0.21207
## f.22000.0.010   0.0106644  0.0417464   0.255  0.79837
## f.22000.0.0-10 -0.0655257  0.0418729  -1.565  0.11762
## f.22000.0.011  -0.0206782  0.0408930  -0.506  0.61309
## f.22000.0.0-11 -0.0561612  0.0414375  -1.355  0.17532
## f.22000.0.012   0.0299706  0.0412435   0.727  0.46743
## f.22000.0.013  -0.0313125  0.0410660  -0.762  0.44577
## f.22000.0.014  -0.0090207  0.0408160  -0.221  0.82509
## f.22000.0.015  -0.0671760  0.0411784  -1.631  0.10282
## f.22000.0.016   0.0155063  0.0412244   0.376  0.70681
## f.22000.0.017  -0.0588940  0.0409298  -1.439  0.15018
## f.22000.0.018  -0.0086016  0.0412962  -0.208  0.83500
## f.22000.0.019   0.0508272  0.0404914   1.255  0.20939
## f.22000.0.02   -0.0328000  0.0407275  -0.805  0.42062
```

```
## f.22000.0.0-2  -0.0708881  0.0413964  -1.712  0.08682 .
## f.22000.0.020   0.0237310  0.0413002   0.575  0.56556
## f.22000.0.021  -0.0763008  0.0410749  -1.858  0.06323 .
## f.22000.0.022  -0.0583577  0.0410958  -1.420  0.15560
## f.22000.0.023  -0.0305346  0.0410384  -0.744  0.45685
## f.22000.0.024   0.0330394  0.0405498   0.815  0.41520
## f.22000.0.025  -0.0048566  0.0415542  -0.117  0.90696
## f.22000.0.026  -0.0496153  0.0413780  -1.199  0.23050
## f.22000.0.027   0.0181742  0.0407633   0.446  0.65571
## f.22000.0.028  -0.0176153  0.0410674  -0.429  0.66797
## f.22000.0.029  -0.0431634  0.0409047  -1.055  0.29133
## f.22000.0.03   -0.0091536  0.0406756  -0.225  0.82195
## f.22000.0.0-3  -0.0537822  0.0409299  -1.314  0.18885
## f.22000.0.030  -0.0447112  0.0407807  -1.096  0.27292
## f.22000.0.031  -0.0292601  0.0410320  -0.713  0.47578
## f.22000.0.032  -0.0595589  0.0411130  -1.449  0.14743
## f.22000.0.033  -0.0407666  0.0419560  -0.972  0.33123
## f.22000.0.034  -0.0425387  0.0408122  -1.042  0.29727
## f.22000.0.035  -0.0275401  0.0410116  -0.672  0.50189
## f.22000.0.036  -0.0404149  0.0406577  -0.994  0.32021
## f.22000.0.037  -0.0316038  0.0413211  -0.765  0.44437
## f.22000.0.038  -0.0411715  0.0411409  -1.001  0.31695
## f.22000.0.039   0.0066987  0.0414940   0.161  0.87175
## f.22000.0.04   -0.0559596  0.0413790  -1.352  0.17626
## f.22000.0.0-4  -0.0652437  0.0416257  -1.567  0.11703
## f.22000.0.040  -0.0282728  0.0410860  -0.688  0.49137
## f.22000.0.041   0.0256447  0.0416947   0.615  0.53852
## f.22000.0.042   0.0138580  0.0410394   0.338  0.73561
## f.22000.0.043  -0.0478439  0.0417681  -1.145  0.25202
## f.22000.0.044   0.0094823  0.0412722   0.230  0.81829
## f.22000.0.045  -0.0065886  0.0414370  -0.159  0.87367
## f.22000.0.046  -0.0337890  0.0415347  -0.814  0.41593
## f.22000.0.047  -0.0179581  0.0414845  -0.433  0.66510
## f.22000.0.048  -0.0245549  0.0414383  -0.593  0.55347
## f.22000.0.049  -0.0336800  0.0415056  -0.811  0.41710
## f.22000.0.05    0.0254762  0.0408575   0.624  0.53293
## f.22000.0.0-5  -0.0639993  0.0412349  -1.552  0.12065
## f.22000.0.050  -0.0283603  0.0415535  -0.683  0.49492
## f.22000.0.051  -0.0575015  0.0409862  -1.403  0.16064
## f.22000.0.052   0.0017370  0.0415548   0.042  0.96666
## f.22000.0.053  -0.0235934  0.0413867  -0.570  0.56863
## f.22000.0.054  -0.0597741  0.0414560  -1.442  0.14934
## f.22000.0.055  -0.0411595  0.0417777  -0.985  0.32453
## f.22000.0.056  -0.0523619  0.0414367  -1.264  0.20635
## f.22000.0.057  -0.0184925  0.0416970  -0.443  0.65741
## f.22000.0.058  -0.0163858  0.0414360  -0.395  0.69251
## f.22000.0.059  -0.0072294  0.0413859  -0.175  0.86133
## f.22000.0.06    0.0091059  0.0405635   0.224  0.82238
## f.22000.0.0-6  -0.1146852  0.0414952  -2.764  0.00571 **
## f.22000.0.060  -0.0638430  0.0416951  -1.531  0.12573
## f.22000.0.061  -0.0375235  0.0419744  -0.894  0.37134
## f.22000.0.062  -0.0481808  0.0418500  -1.151  0.24962
## f.22000.0.063  -0.0794823  0.0418381  -1.900  0.05747 .
## f.22000.0.064  -0.0520559  0.0414835  -1.255  0.20953
## f.22000.0.065   0.0054346  0.0418093   0.130  0.89658
## f.22000.0.066   0.0002790  0.0421705   0.007  0.99472
## f.22000.0.067  -0.0239173  0.0416940  -0.574  0.56621
## f.22000.0.068  -0.0328038  0.0416333  -0.788  0.43074
## f.22000.0.069   0.0512666  0.0418276   1.226  0.22033
## f.22000.0.07    0.0009580  0.0409428   0.023  0.98133
## f.22000.0.0-7  -0.0489512  0.0412354  -1.187  0.23518
## f.22000.0.070  -0.0426317  0.0417888  -1.020  0.30765
## f.22000.0.071  -0.0490352  0.0414763  -1.182  0.23711
## f.22000.0.072   0.0220541  0.0417574   0.528  0.59740
## f.22000.0.073   0.0008142  0.0417174   0.020  0.98443
## f.22000.0.074  -0.0632454  0.0420391  -1.504  0.13247
## f.22000.0.075  -0.0438667  0.0414657  -1.058  0.29010
## f.22000.0.076  -0.0372752  0.0420293  -0.887  0.37514
## f.22000.0.077  -0.0473623  0.0417559  -1.134  0.25669
## f.22000.0.078  -0.0067928  0.0414862  -0.164  0.86994
## f.22000.0.079  -0.0203026  0.0414947  -0.489  0.62464
## f.22000.0.08   -0.0256903  0.0409482  -0.627  0.53041
## f.22000.0.0-8  -0.1064036  0.0416349  -2.556  0.01060 *
```

```
## f.22000.0.0 -0   0.1004050  0.0410549   2.550  0.01080
## f.22000.0.080  -0.0082660  0.0419142  -0.197  0.84366
## f.22000.0.081  -0.0188532  0.0423810  -0.445  0.65643
## f.22000.0.082   0.0257700  0.0419219   0.615  0.53874
## f.22000.0.083  -0.0115959  0.0420425  -0.276  0.78269
## f.22000.0.084   0.0399893  0.0419559   0.953  0.34053
## f.22000.0.085  -0.0286029  0.0417657  -0.685  0.49345
## f.22000.0.086  -0.0742841  0.0419228  -1.772  0.07641 .
## f.22000.0.087  -0.0355633  0.0418806  -0.849  0.39579
## f.22000.0.088  -0.0214279  0.0426470  -0.502  0.61535
## f.22000.0.089  -0.0307389  0.0424520  -0.724  0.46901
## f.22000.0.09   -0.0252320  0.0406669  -0.620  0.53496
## f.22000.0.0-9  -0.0391482  0.0415938  -0.941  0.34660
## f.22000.0.090  -0.0271749  0.0417892  -0.650  0.51551
## f.22000.0.091  -0.0337255  0.0432997  -0.779  0.43605
## f.22000.0.092   0.0163031  0.0420517   0.388  0.69825
## f.22000.0.093   0.0023421  0.0420642   0.056  0.95560
## f.22000.0.094  -0.0267977  0.0537200  -0.499  0.61789
## f.22000.0.095  -0.0725538  0.0447510  -1.621  0.10496
## f.22001.0.01    0.0099601  0.0059005   1.688  0.09141 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9993 on 116901 degrees of freedom
##   (2837 observations deleted due to missingness)
## Multiple R-squared:  0.00256,    Adjusted R-squared:  0.001468
## F-statistic: 2.344 on 128 and 116901 DF,  p-value: 8.135e-16
```

```
summary(lm(cognition ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.
22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0
.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = cognition ~ pgsfive + f.22009.0.1 + f.22009.0.2 +
##     f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 +
##     f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 +
##     f.22009.0.12 + f.22009.0.13 + f.22009.0.14 + f.22009.0.15 +
##     f.22009.0.16 + f.22009.0.17 + f.22009.0.18 + f.22009.0.19 +
##     f.22009.0.20 + f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.5664 -0.7739  0.0458  0.6153  3.2705
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.529e+01  1.076e+00 -14.218  < 2e-16 ***
## pgsfive         9.068e-03  4.189e-03   2.165 0.030386 *
## f.22009.0.1    -7.407e-03  4.415e-03  -1.678 0.093387 .
## f.22009.0.2    -1.102e-03  4.257e-03  -0.259 0.795786
## f.22009.0.3     4.846e-03  4.364e-03   1.110 0.266871
## f.22009.0.5    -6.756e-04  6.008e-03  -0.112 0.910466
## f.22009.0.4    -1.630e-02  6.091e-03  -2.676 0.007452 **
## f.22009.0.6    -1.117e-03  4.319e-03  -0.259 0.795871
## f.22009.0.7     1.041e-04  4.416e-03   0.024 0.981189
## f.22009.0.8     2.885e-03  4.668e-03   0.618 0.536576
## f.22009.0.9     6.833e-03  4.598e-03   1.486 0.137253
## f.22009.0.10   -7.180e-03  5.139e-03  -1.397 0.162342
## f.22009.0.11   -6.459e-03  6.066e-03  -1.065 0.286963
## f.22009.0.12    9.182e-03  5.279e-03   1.739 0.082021 .
## f.22009.0.13    8.146e-03  4.241e-03   1.921 0.054769 .
## f.22009.0.14    2.564e-02  4.627e-03   5.541 3.03e-08 ***
## f.22009.0.15   -2.612e-03  4.608e-03  -0.567 0.570863
## f.22009.0.16    1.598e-02  4.563e-03   3.501 0.000464 ***
## f.22009.0.17    9.039e-03  4.194e-03   2.155 0.031132 *
## f.22009.0.18   -1.088e-02  4.318e-03  -2.521 0.011717 *
## f.22009.0.19    1.233e-02  4.173e-03   2.956 0.003123 **
## f.22009.0.20   -1.832e-02  4.213e-03  -4.349 1.37e-05 ***
## f.34.0.0        7.816e-03  5.504e-04  14.201  < 2e-16 ***
## f.22000.0.0-1  -7.412e-02  5.900e-02  -1.256 0.209018
```

```
## f.22000.0.010  -2.317e-02  5.944e-02  -0.390 0.696628
## f.22000.0.0-10 -7.161e-02  5.900e-02  -1.214 0.224871
## f.22000.0.011   1.445e-02  5.825e-02   0.248 0.804010
## f.22000.0.0-11 -1.286e-02  5.846e-02  -0.220 0.825886
## f.22000.0.012   8.929e-02  6.073e-02   1.470 0.141513
## f.22000.0.013  -7.489e-02  5.876e-02  -1.274 0.202494
## f.22000.0.014   6.399e-02  5.727e-02   1.117 0.263832
## f.22000.0.015   9.291e-02  5.801e-02   1.602 0.109237
## f.22000.0.016  -4.371e-03  5.830e-02  -0.075 0.940236
## f.22000.0.017  -3.094e-02  5.911e-02  -0.523 0.600649
## f.22000.0.018  -5.922e-02  5.920e-02  -1.000 0.317156
## f.22000.0.019   2.011e-02  5.786e-02   0.348 0.728163
## f.22000.0.02    7.046e-03  5.819e-02   0.121 0.903623
## f.22000.0.0-2   8.955e-02  5.879e-02   1.523 0.127690
## f.22000.0.020  -3.022e-03  5.917e-02  -0.051 0.959266
## f.22000.0.021  -5.160e-02  5.916e-02  -0.872 0.383096
## f.22000.0.022  -1.226e-01  5.971e-02  -2.053 0.040123 *
## f.22000.0.023  -3.885e-02  5.743e-02  -0.676 0.498775
## f.22000.0.024  -1.918e-02  5.825e-02  -0.329 0.741904
## f.22000.0.025  -2.417e-02  5.959e-02  -0.406 0.685008
## f.22000.0.026   4.984e-03  5.893e-02   0.085 0.932605
## f.22000.0.027  -8.900e-02  5.770e-02  -1.542 0.123005
## f.22000.0.028  -6.022e-02  5.838e-02  -1.032 0.302288
## f.22000.0.029  -5.326e-02  5.968e-02  -0.892 0.372226
## f.22000.0.03   -6.963e-03  5.737e-02  -0.121 0.903386
## f.22000.0.0-3  -2.622e-02  5.778e-02  -0.454 0.649999
## f.22000.0.030   2.855e-02  5.947e-02   0.480 0.631141
## f.22000.0.031   3.100e-02  5.860e-02   0.529 0.596818
## f.22000.0.032   4.664e-02  5.746e-02   0.812 0.416911
## f.22000.0.033  -3.300e-02  6.036e-02  -0.547 0.584492
## f.22000.0.034  -6.558e-02  5.808e-02  -1.129 0.258883
## f.22000.0.035  -7.734e-03  5.806e-02  -0.133 0.894026
## f.22000.0.036  -1.853e-02  5.710e-02  -0.325 0.745511
## f.22000.0.037   3.892e-02  5.932e-02   0.656 0.511797
## f.22000.0.038   6.954e-02  5.763e-02   1.207 0.227564
## f.22000.0.039  -5.643e-02  5.920e-02  -0.953 0.340416
## f.22000.0.04   -4.251e-03  5.952e-02  -0.071 0.943062
## f.22000.0.0-4  -9.197e-02  5.902e-02  -1.558 0.119166
## f.22000.0.040  -1.432e-02  5.788e-02  -0.247 0.804535
## f.22000.0.041  -3.101e-02  5.952e-02  -0.521 0.602455
## f.22000.0.042  -3.175e-02  5.727e-02  -0.554 0.579296
## f.22000.0.043   5.731e-02  6.046e-02   0.948 0.343184
## f.22000.0.044  -1.191e-03  5.865e-02  -0.020 0.983797
## f.22000.0.045   9.636e-02  5.873e-02   1.641 0.100884
## f.22000.0.046   2.630e-03  5.887e-02   0.045 0.964366
## f.22000.0.047   1.691e-02  5.893e-02   0.287 0.774215
## f.22000.0.048  -3.994e-02  5.981e-02  -0.668 0.504293
## f.22000.0.049   9.590e-02  5.860e-02   1.637 0.101719
## f.22000.0.05   -9.328e-03  5.646e-02  -0.165 0.868770
## f.22000.0.0-5  -1.894e-03  5.811e-02  -0.033 0.974003
## f.22000.0.050  -5.535e-02  5.838e-02  -0.948 0.343043
## f.22000.0.051  -3.958e-02  5.690e-02  -0.696 0.486649
## f.22000.0.052  -2.307e-02  5.813e-02  -0.397 0.691523
## f.22000.0.053   5.794e-02  5.882e-02   0.985 0.324588
## f.22000.0.054   1.609e-02  5.902e-02   0.273 0.785201
## f.22000.0.055  -3.159e-02  5.902e-02  -0.535 0.592441
## f.22000.0.056   3.193e-02  6.046e-02   0.528 0.597450
## f.22000.0.057   2.248e-02  6.109e-02   0.368 0.712861
## f.22000.0.058   1.850e-02  5.937e-02   0.312 0.755297
## f.22000.0.059   2.409e-02  5.731e-02   0.420 0.674204
## f.22000.0.06    4.061e-02  5.809e-02   0.699 0.484435
## f.22000.0.0-6  -1.302e-02  5.765e-02  -0.226 0.821326
## f.22000.0.060  -9.715e-03  5.899e-02  -0.165 0.869192
## f.22000.0.061  -9.635e-02  5.996e-02  -1.607 0.108127
## f.22000.0.062   4.281e-02  5.990e-02   0.715 0.474820
## f.22000.0.063   1.642e-02  5.937e-02   0.277 0.782105
## f.22000.0.064   2.735e-02  5.919e-02   0.462 0.644056
## f.22000.0.065   5.110e-02  6.019e-02   0.849 0.395916
## f.22000.0.066  -5.640e-02  5.959e-02  -0.946 0.343910
## f.22000.0.067  -6.212e-02  5.916e-02  -1.050 0.293733
## f.22000.0.068   1.498e-02  6.036e-02   0.248 0.804004
## f.22000.0.069   1.481e-02  5.902e-02   0.251 0.801820
## f.22000.0.07   -1.055e-01  5.804e-02  -1.818 0.069029
```

```
## f.22000.0.07    1.055e-01  5.004e-02   1.818 0.069029 .
## f.22000.0.0-7   5.809e-02  5.888e-02   0.987 0.323823
## f.22000.0.070  -4.429e-02  5.999e-02  -0.738 0.460410
## f.22000.0.071  -2.346e-02  5.902e-02  -0.398 0.690976
## f.22000.0.072   5.630e-02  5.865e-02   0.960 0.337137
## f.22000.0.073  -8.190e-03  5.972e-02  -0.137 0.890912
## f.22000.0.074  -5.569e-03  5.961e-02  -0.093 0.925572
## f.22000.0.075   3.088e-02  5.899e-02   0.523 0.600694
## f.22000.0.076  -2.698e-02  5.953e-02  -0.453 0.650331
## f.22000.0.077  -3.591e-02  5.902e-02  -0.608 0.542925
## f.22000.0.078   8.762e-02  5.827e-02   1.504 0.132671
## f.22000.0.079   3.617e-02  5.929e-02   0.610 0.541757
## f.22000.0.08   -5.401e-03  5.819e-02  -0.093 0.926052
## f.22000.0.0-8  -9.172e-02  5.865e-02  -1.564 0.117876
## f.22000.0.080   6.571e-02  6.016e-02   1.092 0.274787
## f.22000.0.081   4.448e-03  6.127e-02   0.073 0.942130
## f.22000.0.082   4.442e-02  5.959e-02   0.745 0.455977
## f.22000.0.083   5.758e-03  6.179e-02   0.093 0.925758
## f.22000.0.084  -3.137e-03  5.956e-02  -0.053 0.957995
## f.22000.0.085   1.169e-02  6.022e-02   0.194 0.846115
## f.22000.0.086   4.267e-02  6.112e-02   0.698 0.485079
## f.22000.0.087  -2.515e-02  5.946e-02  -0.423 0.672291
## f.22000.0.088  -1.949e-02  6.176e-02  -0.316 0.752333
## f.22000.0.089   1.792e-02  6.106e-02   0.293 0.769198
## f.22000.0.09   -3.041e-02  5.868e-02  -0.518 0.604309
## f.22000.0.0-9  -2.269e-02  5.879e-02  -0.386 0.699520
## f.22000.0.090   4.615e-02  5.891e-02   0.783 0.433386
## f.22000.0.091  -3.150e-02  5.946e-02  -0.530 0.596314
## f.22000.0.092  -1.210e-02  5.711e-02  -0.212 0.832198
## f.22000.0.093   1.144e-01  5.934e-02   1.928 0.053890 .
## f.22000.0.094  -1.204e-01  7.913e-02  -1.521 0.128155
## f.22000.0.095   3.881e-02  6.347e-02   0.612 0.540832
## f.22001.0.01    9.184e-02  8.435e-03  10.888  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 56992 degrees of freedom
##   (62746 observations deleted due to missingness)
## Multiple R-squared:  0.009611,   Adjusted R-squared:  0.007387
## F-statistic: 4.321 on 128 and 56992 DF,  p-value: < 2.2e-16
```

```
summary(lm(edu ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.4 + f.22009.
0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 +
f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged))
```

```
##
## Call:
## lm(formula = edu ~ pgsfive + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 +
##     f.22009.0.5 + f.22009.0.4 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 +
##     f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 +
##     f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 +
##     f.22009.0.17 + f.22009.0.18 + f.22009.0.19 + f.22009.0.20 +
##     f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.2703 -0.8026 -0.2643  0.5292  2.9650
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)     2.415e+01  7.715e-01  31.301  < 2e-16 ***
## pgsfive        -1.453e-02  2.989e-03  -4.860 1.18e-06 ***
## f.22009.0.1     4.360e-03  3.160e-03   1.380 0.167599
## f.22009.0.2     4.286e-03  3.037e-03   1.411 0.158225
## f.22009.0.3    -6.051e-03  3.115e-03  -1.943 0.052074 .
## f.22009.0.5    -6.045e-03  4.248e-03  -1.423 0.154686
## f.22009.0.4     2.832e-02  4.357e-03   6.499 8.11e-11 ***
## f.22009.0.6     6.511e-06  3.085e-03   0.002 0.998316
## f.22009.0.7     3.116e-03  3.158e-03   0.987 0.323776
## f.22009.0.8    -6.655e-04  3.329e-03  -0.200 0.841558
## f.22009.0.9     1.932e-02  3.158e-03   6.117 9.57e-10 ***
```

```
## f.22009.0.10    1.050e-02  3.687e-03   2.848 0.004400 **
## f.22009.0.11    2.125e-02  4.294e-03   4.948 7.49e-07 ***
## f.22009.0.12   -4.957e-03  3.768e-03  -1.316 0.188304
## f.22009.0.13    9.819e-04  3.034e-03   0.324 0.746188
## f.22009.0.14   -3.495e-02  3.208e-03 -10.896  < 2e-16 ***
## f.22009.0.15   -5.493e-03  3.285e-03  -1.672 0.094464 .
## f.22009.0.16   -1.455e-02  3.213e-03  -4.528 5.96e-06 ***
## f.22009.0.17   -4.770e-03  2.987e-03  -1.597 0.110237
## f.22009.0.18    2.333e-02  2.997e-03   7.784 7.09e-15 ***
## f.22009.0.19   -7.820e-03  2.984e-03  -2.621 0.008777 **
## f.22009.0.20    3.184e-02  2.991e-03  10.646  < 2e-16 ***
## f.34.0.0       -1.236e-02  3.947e-04 -31.314  < 2e-16 ***
## f.22000.0.0-1   6.449e-02  4.267e-02   1.511 0.130673
## f.22000.0.010  -3.717e-02  4.270e-02  -0.871 0.384006
## f.22000.0.0-10  6.694e-02  4.293e-02   1.559 0.118970
## f.22000.0.011  -1.604e-02  4.199e-02  -0.382 0.702563
## f.22000.0.0-11  1.064e-01  4.283e-02   2.485 0.012974 *
## f.22000.0.012  -3.315e-02  4.222e-02  -0.785 0.432372
## f.22000.0.013   2.795e-02  4.210e-02   0.664 0.506765
## f.22000.0.014  -1.037e-01  4.165e-02  -2.490 0.012791 *
## f.22000.0.015  -1.061e-01  4.221e-02  -2.513 0.011979 *
## f.22000.0.016  -3.279e-02  4.219e-02  -0.777 0.437006
## f.22000.0.017  -1.299e-02  4.185e-02  -0.310 0.756253
## f.22000.0.018   4.006e-02  4.237e-02   0.946 0.344385
## f.22000.0.019  -3.956e-02  4.145e-02  -0.954 0.339882
## f.22000.0.02    7.808e-03  4.177e-02   0.187 0.851741
## f.22000.0.0-2   5.452e-02  4.257e-02   1.281 0.200228
## f.22000.0.020  -3.600e-03  4.219e-02  -0.085 0.931996
## f.22000.0.021  -7.253e-04  4.193e-02  -0.017 0.986198
## f.22000.0.022  -1.220e-02  4.211e-02  -0.290 0.772103
## f.22000.0.023  -2.201e-02  4.212e-02  -0.522 0.601340
## f.22000.0.024   4.533e-02  4.157e-02   1.090 0.275517
## f.22000.0.025   4.643e-02  4.256e-02   1.091 0.275309
## f.22000.0.026  -8.649e-03  4.234e-02  -0.204 0.838122
## f.22000.0.027  -2.308e-02  4.158e-02  -0.555 0.578912
## f.22000.0.028   1.107e-02  4.199e-02   0.264 0.792055
## f.22000.0.029  -4.149e-02  4.182e-02  -0.992 0.321184
## f.22000.0.03   -5.322e-02  4.183e-02  -1.272 0.203250
## f.22000.0.0-3   5.628e-02  4.216e-02   1.335 0.181972
## f.22000.0.030   1.150e-02  4.169e-02   0.276 0.782647
## f.22000.0.031  -5.352e-02  4.190e-02  -1.277 0.201467
## f.22000.0.032  -1.258e-02  4.196e-02  -0.300 0.764265
## f.22000.0.033  -8.354e-02  4.286e-02  -1.949 0.051300 .
## f.22000.0.034   2.712e-02  4.189e-02   0.647 0.517325
## f.22000.0.035  -3.635e-02  4.191e-02  -0.867 0.385780
## f.22000.0.036  -7.016e-02  4.160e-02  -1.687 0.091670 .
## f.22000.0.037  -2.720e-02  4.237e-02  -0.642 0.520892
## f.22000.0.038  -5.214e-02  4.210e-02  -1.238 0.215568
## f.22000.0.039  -4.955e-03  4.251e-02  -0.117 0.907220
## f.22000.0.04   -2.957e-02  4.259e-02  -0.694 0.487426
## f.22000.0.0-4   1.507e-01  4.306e-02   3.501 0.000464 ***
## f.22000.0.040   2.473e-02  4.201e-02   0.589 0.556018
## f.22000.0.041  -3.470e-02  4.280e-02  -0.811 0.417479
## f.22000.0.042  -1.470e-02  4.204e-02  -0.350 0.726562
## f.22000.0.043   3.026e-02  4.276e-02   0.708 0.479125
## f.22000.0.044   6.788e-03  4.224e-02   0.161 0.872348
## f.22000.0.045  -5.446e-02  4.213e-02  -1.293 0.196160
## f.22000.0.046  -4.156e-02  4.258e-02  -0.976 0.329052
## f.22000.0.047   3.132e-02  4.242e-02   0.738 0.460235
## f.22000.0.048   6.255e-03  4.258e-02   0.147 0.883210
## f.22000.0.049  -8.483e-02  4.240e-02  -2.001 0.045414 *
## f.22000.0.05   -4.896e-02  4.181e-02  -1.171 0.241577
## f.22000.0.0-5   3.431e-02  4.238e-02   0.810 0.418091
## f.22000.0.050  -1.942e-02  4.271e-02  -0.455 0.649322
## f.22000.0.051   2.599e-02  4.181e-02   0.622 0.534189
## f.22000.0.052   5.724e-03  4.261e-02   0.134 0.893142
## f.22000.0.053   1.520e-02  4.230e-02   0.359 0.719434
## f.22000.0.054   4.208e-03  4.254e-02   0.099 0.921207
## f.22000.0.055  -1.045e-02  4.273e-02  -0.245 0.806803
## f.22000.0.056  -4.105e-02  4.248e-02  -0.966 0.333879
## f.22000.0.057  -6.026e-02  4.267e-02  -1.412 0.157856
## f.22000.0.058   1.522e-02  4.233e-02   0.360 0.719204
## f.22000.0.059  -6.785e-02  4.227e-02  -1.605 0.108467
```

```
## f.22000.0.06   -4.802e-02  4.153e-02  -1.156 0.247647
## f.22000.0.0-6   7.805e-02  4.284e-02   1.822 0.068475 .
## f.22000.0.060  -1.751e-02  4.282e-02  -0.409 0.682541
## f.22000.0.061  -2.248e-02  4.308e-02  -0.522 0.601824
## f.22000.0.062   5.863e-04  4.283e-02   0.014 0.989079
## f.22000.0.063  -1.405e-02  4.296e-02  -0.327 0.743685
## f.22000.0.064  -3.010e-02  4.251e-02  -0.708 0.478988
## f.22000.0.065  -5.189e-02  4.271e-02  -1.215 0.224338
## f.22000.0.066  -6.683e-02  4.320e-02  -1.547 0.121811
## f.22000.0.067  -4.892e-02  4.279e-02  -1.143 0.253013
## f.22000.0.068  -3.290e-02  4.252e-02  -0.774 0.439058
## f.22000.0.069  -3.931e-02  4.257e-02  -0.924 0.355717
## f.22000.0.07    5.009e-02  4.180e-02   1.198 0.230739
## f.22000.0.0-7   9.606e-02  4.252e-02   2.260 0.023854 *
## f.22000.0.070  -2.015e-02  4.274e-02  -0.472 0.637259
## f.22000.0.071   2.617e-02  4.245e-02   0.616 0.537604
## f.22000.0.072  -1.181e-03  4.293e-02  -0.028 0.978053
## f.22000.0.073  -8.926e-02  4.292e-02  -2.080 0.037567 *
## f.22000.0.074  -2.443e-02  4.291e-02  -0.569 0.569176
## f.22000.0.075  -5.619e-02  4.252e-02  -1.321 0.186403
## f.22000.0.076   4.773e-02  4.313e-02   1.107 0.268394
## f.22000.0.077  -2.703e-02  4.262e-02  -0.634 0.525969
## f.22000.0.078   3.555e-04  4.253e-02   0.008 0.993330
## f.22000.0.079   2.262e-02  4.245e-02   0.533 0.594065
## f.22000.0.08    1.273e-02  4.188e-02   0.304 0.761102
## f.22000.0.0-8   8.350e-02  4.273e-02   1.954 0.050687 .
## f.22000.0.080  -9.553e-02  4.281e-02  -2.232 0.025646 *
## f.22000.0.081  -2.900e-02  4.337e-02  -0.669 0.503789
## f.22000.0.082   6.605e-03  4.287e-02   0.154 0.877560
## f.22000.0.083   9.298e-03  4.304e-02   0.216 0.828954
## f.22000.0.084  -3.399e-02  4.301e-02  -0.790 0.429432
## f.22000.0.085  -2.138e-02  4.281e-02  -0.499 0.617432
## f.22000.0.086  -1.163e-02  4.283e-02  -0.272 0.785980
## f.22000.0.087  -9.939e-02  4.296e-02  -2.313 0.020709 *
## f.22000.0.088   6.073e-02  4.341e-02   1.399 0.161858
## f.22000.0.089   2.536e-02  4.325e-02   0.587 0.557530
## f.22000.0.09   -4.218e-02  4.173e-02  -1.011 0.312150
## f.22000.0.0-9   1.161e-02  4.276e-02   0.272 0.785957
## f.22000.0.090   2.165e-02  4.283e-02   0.506 0.613166
## f.22000.0.091  -3.920e-02  4.418e-02  -0.887 0.374973
## f.22000.0.092  -8.346e-02  4.294e-02  -1.943 0.051969 .
## f.22000.0.093  -1.178e-02  4.298e-02  -0.274 0.784110
## f.22000.0.094  -1.865e-02  5.518e-02  -0.338 0.735428
## f.22000.0.095   3.001e-02  4.577e-02   0.656 0.512061
## f.22001.0.01   -1.985e-02  6.031e-03  -3.291 0.000999 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9928 on 110649 degrees of freedom
##   (9089 observations deleted due to missingness)
## Multiple R-squared:  0.01549,    Adjusted R-squared:  0.01435
## F-statistic:  13.6 on 128 and 110649 DF,  p-value: < 2.2e-16
```

Mediation effect of depression on SSBI

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$depressionscore),]


outfit = lm(selfharmideation ~  pgsfive + depressionscore + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.220
09.0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12
+ f.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(depressionscore ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.220
09.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13
+ f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationdepression = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "depressionscore", s
ims = 1000)


summary(selfharmmediationdepression)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME            0.00893      0.00388         0.01  <2e-16 ***
## ADE             0.02955      0.01802         0.04  <2e-16 ***
## Total Effect    0.03848      0.02617         0.05  <2e-16 ***
## Prop. Mediated  0.23165      0.11182         0.37  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 39551
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$depressionscore),]

outfit = lm(selfharmscore ~  pgsfive + depressionscore + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.
0.5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f
.22009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(depressionscore ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.220
09.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13
+ f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscoredepression = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "depressionscore", sims
= 1000)

summary(selfharmscoredepression)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME            0.00888      0.00418         0.01   0.002 **
## ADE             0.03363      0.02343         0.04  <2e-16 ***
## Total Effect    0.04251      0.03110         0.05  <2e-16 ***
## Prop. Mediated  0.20942      0.10607         0.31   0.002 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 39479
##
##
## Simulations: 1000
```

Mediation effect of social (friendship and family) on SSBI

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$family),]


outfit = lm(selfharmideation ~  pgsfive + family + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(family ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 +
f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.2200
9.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationfamily = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "family", sims = 1000)


summary(selfharmmediationfamily)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME            0.00298      0.00178         0.00  <2e-16 ***
## ADE             0.02923      0.02081         0.04  <2e-16 ***
## Total Effect    0.03222      0.02370         0.04  <2e-16 ***
## Prop. Mediated  0.09179      0.05652         0.14  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56842
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$family),]

outfit = lm(selfharmscore ~  pgsfive + family + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.2
2009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.
13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(family ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 +
f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.2200
9.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscorefamily = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "family", sims = 1000)

summary(selfharmscorefamily)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME            0.00287      0.00157         0.00  <2e-16 ***
## ADE             0.03244      0.02471         0.04  <2e-16 ***
## Total Effect    0.03531      0.02720         0.04  <2e-16 ***
## Prop. Mediated  0.08133      0.04473         0.13  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56774
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$friendship),]



outfit = lm(selfharmideation ~  pgsfive + friendship + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.
5 + f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.2
2009.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(friendship ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.
6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.
22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationfriendship = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "friendship", sims =
1000)


summary(selfharmmediationfriendship)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.001766     0.000687         0.00  <2e-16 ***
## ADE            0.030325     0.022430         0.04  <2e-16 ***
## Total Effect   0.032090     0.024486         0.04  <2e-16 ***
## Prop. Mediated 0.055374     0.021366         0.09  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56771
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$friendship),]

outfit = lm(selfharmscore ~  pgsfive + friendship + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(friendship ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.
6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.
22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscorefriendship = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "friendship", sims = 100
0)

summary(selfharmscorefriendship)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.001656     0.000609         0.00   0.002 **
## ADE            0.033702     0.025942         0.04  <2e-16 ***
## Total Effect   0.035359     0.027482         0.04  <2e-16 ***
## Prop. Mediated 0.046759     0.016686         0.08   0.002 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56704
##
##
## Simulations: 1000
```

Mediation effect of socfreq on SSBI

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$socfreq),]


outfit = lm(selfharmideation ~  pgsfive + socfreq + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(socfreq ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 +
f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.2200
9.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationsocfreq= mediate(mediatefit, outfit, treat = "pgsfive", mediator = "socfreq", sims = 1000)


summary(selfharmmediationsocfreq)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.000730     0.000437         0.00  <2e-16 ***
## ADE            0.032428     0.026674         0.04  <2e-16 ***
## Total Effect   0.033158     0.027387         0.04  <2e-16 ***
## Prop. Mediated 0.022064     0.012726         0.03  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 117772
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$socfreq),]

outfit = lm(selfharmscore ~  pgsfive + socfreq + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.
22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0
.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(socfreq ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 +
f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.2200
9.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscoresocfreq = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "socfreq", sims = 1000)

summary(selfharmscoresocfreq)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.000688     0.000419         0.00  <2e-16 ***
## ADE            0.035655     0.030356         0.04  <2e-16 ***
## Total Effect   0.036342     0.031171         0.04  <2e-16 ***
## Prop. Mediated 0.018985     0.011295         0.03  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 117616
##
##
## Simulations: 1000
```

Mediation effect of cognition on SSBI

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$cognition),]


outfit = lm(selfharmideation ~  pgsfive + cognition + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5
+ f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.220
09.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(cognition ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6
+ f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22
009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationcognition = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "cognition", sims = 1
000)


summary(selfharmmediationcognition)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.000118     0.000006         0.00    0.03 *
## ADE            0.033218     0.024951         0.04  <2e-16 ***
## Total Effect   0.033336     0.025194         0.04  <2e-16 ***
## Prop. Mediated 0.003280     0.000177         0.01    0.03 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56357
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$cognition),]

outfit = lm(selfharmscore ~  pgsfive + cognition + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 +
f.22009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009
.0.13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(cognition ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6
+ f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22
009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscorecognition = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "cognition", sims = 1000)

summary(selfharmscorecognition)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           1.01e-04     7.26e-06         0.00   0.028 *
## ADE            3.64e-02     2.86e-02         0.04  <2e-16 ***
## Total Effect   3.65e-02     2.87e-02         0.04  <2e-16 ***
## Prop. Mediated 2.62e-03     2.13e-04         0.01   0.028 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 56283
##
##
## Simulations: 1000
```

Mediation effect of edu on SSBI

```
merged2 = merged[!is.na(merged$selfharmideation),]
merged2 = merged2[!is.na(merged2$edu),]


outfit = lm(selfharmideation ~  pgsfive + edu + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.2
2009.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.
13 + f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
             f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(edu ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 + f.2
2009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0
.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
                 f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmmediationedu = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "edu", sims = 1000)


summary(selfharmmediationedu)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.000372     0.000200         0.00  <2e-16 ***
## ADE            0.032518     0.026628         0.04  <2e-16 ***
## Total Effect   0.032890     0.026982         0.04  <2e-16 ***
## Prop. Mediated 0.011233     0.006286         0.02  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 109331
##
##
## Simulations: 1000
```

```
cat("\n")
```

```
merged2 = merged[!is.na(merged$selfharmscore),]
merged2 = merged2[!is.na(merged2$edu),]

outfit = lm(selfharmscore ~  pgsfive + edu + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.2200
9.0.6 + f.22009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13
+ f.22009.0.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
              f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

mediatefit = lm(edu ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + f.22009.0.6 + f.2
2009.0.7 + f.22009.0.8 + f.22009.0.9 + f.22009.0.10 + f.22009.0.11 + f.22009.0.12 + f.22009.0.13 + f.22009.0
.14 + f.22009.0.15 + f.22009.0.16 + f.22009.0.17 + f.22009.0.18 +
                  f.22009.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0 + f.22001.0.0, data = merged2)

selfharmscoreedu = mediate(mediatefit, outfit, treat = "pgsfive", mediator = "edu", sims = 1000)

summary(selfharmscoreedu)
```

```
##
## Causal Mediation Analysis
##
## Quasi-Bayesian Confidence Intervals
##
##                Estimate 95% CI Lower 95% CI Upper p-value
## ACME           0.000295     0.000164         0.00  <2e-16 ***
## ADE            0.036118     0.030398         0.04  <2e-16 ***
## Total Effect   0.036413     0.030720         0.04  <2e-16 ***
## Prop. Mediated 0.007962     0.004469         0.01  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 109186
##
##
## Simulations: 1000
```

Let's look at centile effects

```
merged$percentile100 = ntile(merged$`1.000000`, 100)
merged$percentile75 = ntile(merged$pgsfive, 100)
```

Average scores for childhood traumatic experiences by percentile

```
childtraumasumaverage <- ddply(merged, "percentile100", summarise,
               N    = sum(!is.na(childtraumasum)),
               mean = mean(childtraumasum, na.rm = TRUE),
               sd   = sd(childtraumasum, na.rm = TRUE),
               se   = sd / sqrt(N)
)


felthatedaverage <- ddply(merged, "percentile100", summarise,
               N    = sum(!is.na(f.20487.0.0)),
               mean = mean(f.20487.0.0, na.rm = TRUE),
               sd   = sd(f.20487.0.0, na.rm = TRUE),
               se   = sd / sqrt(N)
)

feltlovedaverage <- ddply(merged, "percentile100", summarise,
               N    = sum(!is.na(f.20489.0.0)),
               mean = mean(f.20489.0.0, na.rm = TRUE),
               sd   = sd(f.20489.0.0, na.rm = TRUE),
               se   = sd / sqrt(N)
)

physicalabuseaverage <- ddply(merged, "percentile100", summarise,
               N    = sum(!is.na(f.20488.0.0)),
               mean = mean(f.20488.0.0, na.rm = TRUE),
               sd   = sd(f.20488.0.0, na.rm = TRUE),
               se   = sd / sqrt(N)
)


childtraumasumaverage
```

```
##     percentile100    N          mean        sd         se
## 1               1 1196 -0.0955538168 0.8963292 0.02591803
## 2               2 1196 -0.0893851399 0.9161216 0.02649034
## 3               3 1197 -0.0116014260 0.9974740 0.02883066
## 4               4 1194 -0.0457977761 0.9200764 0.02662697
## 5               5 1197 -0.0395185614 0.9614980 0.02779082
## 6               6 1195 -0.0474539271 0.9431282 0.02728267
## 7               7 1196 -0.0560017122 0.9446078 0.02731404
## 8               8 1197 -0.0279166350 0.9421705 0.02723218
## 9               9 1194 -0.0541576127 0.9289841 0.02688476
## 10             10 1195 -0.0736019508 0.9514372 0.02752303
## 11             11 1194 -0.0556114973 0.9480193 0.02743563
## 12             12 1197 -0.0221156718 1.0046603 0.02903837
## 13             13 1194  0.0316215801 1.0923733 0.03161323
## 14             14 1197 -0.0435067236 0.9250657 0.02673779
## 15             15 1196 -0.0625332524 0.9456962 0.02734551
## 16             16 1195 -0.0485434281 0.9005488 0.02605093
## 17             17 1196 -0.0081037507 0.9954410 0.02878392
## 18             18 1196 -0.0487444453 0.9469570 0.02738197
## 19             19 1197 -0.0532958490 0.9256556 0.02675484
## 20             20 1197 -0.0826632253 0.9418032 0.02722157
## 21             21 1198 -0.0009652171 0.9938441 0.02871375
## 22             22 1191 -0.0451852769 0.9532409 0.02762147
## 23             23 1197 -0.0518456082 0.9344301 0.02700845
## 24             24 1196 -0.0345927749 0.9369642 0.02709302
## 25             25 1197 -0.0358929594 0.9652920 0.02790048
## 26             26 1196  0.0002421062 0.9776107 0.02826834
## 27             27 1195  0.0110159592 1.0109462 0.02924449
## 28             28 1194 -0.0061794201 1.0040067 0.02905591
## 29             29 1193 -0.0397735388 0.9161199 0.02652358
## 30             30 1197 -0.0315422370 0.9780858 0.02827027
## 31             31 1193  0.0242510066 1.0771865 0.03118679
## 32             32 1198 -0.0194403528 0.9349887 0.02701332
## 33             33 1196 -0.0745077428 0.8904627 0.02574839
## 34             34 1197 -0.0449569644 0.9424794 0.02724111
## 35             35 1196 -0.0280612347 0.9328025 0.02697268
## 36             36 1194 -0.0646982762 0.9231603 0.02671622
## 37             37 1194 -0.0567019108 0.8716919 0.02522672
## 38             38 1195  0.0680331776 1.1125180 0.03218275
## 39             39 1195 -0.0179161321 1.0699545 0.03095148
```

```
## 39             39 1195  0.0179161321 1.0099545 0.03095148
## 40             40 1196 -0.0171753343 0.9873998 0.02855140
## 41             41 1198 -0.0284967918 0.9903586 0.02861305
## 42             42 1193 -0.0201296442 1.0023938 0.02902139
## 43             43 1193 -0.0037597320 1.0031464 0.02904318
## 44             44 1194  0.0112671953 1.0425401 0.03017106
## 45             45 1196  0.0350769873 1.0328282 0.02986500
## 46             46 1193  0.0260698857 0.9959213 0.02883399
## 47             47 1196  0.0183852734 1.0459390 0.03024411
## 48             48 1198 -0.0042255351 0.9891528 0.02857821
## 49             49 1195 -0.0347430823 1.0111724 0.02925104
## 50             50 1197  0.0431451643 1.0266448 0.02967380
## 51             51 1192 -0.0078894422 0.9706645 0.02811454
## 52             52 1194  0.0512490225 1.0736987 0.03107279
## 53             53 1192 -0.0472101909 0.9651182 0.02795390
## 54             54 1195  0.0004841163 0.9962017 0.02881797
## 55             55 1195  0.0495116608 1.0504361 0.03038685
## 56             56 1195 -0.0405537542 0.9631165 0.02786088
## 57             57 1197  0.0474958867 1.0295179 0.02975684
## 58             58 1194  0.0552472052 1.0992477 0.03181218
## 59             59 1198  0.0073667069 0.9919450 0.02865888
## 60             60 1197 -0.0079758240 0.9731111 0.02812648
## 61             61 1192  0.0325235496 1.0215370 0.02958803
## 62             62 1195  0.0462431578 1.0229697 0.02959231
## 63             63 1198 -0.0009652171 0.9748219 0.02816417
## 64             64 1193 -0.0048510595 1.0615322 0.03073357
## 65             65 1195  0.0110159592 0.9803694 0.02835997
## 66             66 1196  0.0231024969 0.9811283 0.02837006
## 67             67 1194  0.0181731473 1.0430253 0.03018510
## 68             68 1192  0.0041252311 0.9634154 0.02790458
## 69             69 1197  0.0913656710 1.1088435 0.03204964
## 70             70 1196 -0.0124581108 1.0496507 0.03035143
## 71             71 1198  0.0291021606 0.9837467 0.02842201
## 72             72 1197 -0.0358929594 0.9758384 0.02820531
## 73             73 1195 -0.0354694163 0.9699554 0.02805872
## 74             74 1197  0.0224792329 1.0726675 0.03100402
## 75             75 1197 -0.0105137454 1.0349110 0.02991272
## 76             76 1195  0.0052052873 0.9907651 0.02866070
## 77             77 1197  0.0282801961 1.0286634 0.02973214
## 78             78 1195  0.0164634641 1.0442622 0.03020825
## 79             79 1194  0.0203539742 1.0303457 0.02981816
## 80             80 1194  0.0010900030 0.9551416 0.02764175
## 81             81 1193 -0.0259500574 1.0161399 0.02941936
## 82             82 1194  0.0825075419 1.0403150 0.03010667
## 83             83 1197  0.0029009821 0.9836058 0.02842981
## 84             84 1195  0.0113791262 0.9988291 0.02889397
## 85             85 1193  0.0679041056 1.0630650 0.03077794
## 86             86 1194 -0.0058159490 0.9298563 0.02691000
## 87             87 1195 -0.0071423906 0.9505543 0.02749748
## 88             88 1196  0.0720890484 1.0864472 0.03141543
## 89             89 1194  0.0396179455 0.9856380 0.02852432
## 90             90 1197  0.0264673951 1.0188409 0.02944824
## 91             91 1192  0.0700238933 1.0731382 0.03108261
## 92             92 1198  0.0819917648 1.0583478 0.03057736
## 93             93 1198  0.0551847051 1.0935859 0.03159545
## 94             94 1192  0.0674753262 1.0206109 0.02956120
## 95             95 1197  0.0728751008 1.0405764 0.03007647
## 96             96 1196  0.0728147751 1.1004767 0.03182111
## 97             97 1193  0.0246147824 1.0086741 0.02920321
## 98             98 1193  0.0468051077 1.1184422 0.03238123
## 99             99 1197  0.1236335289 1.1118496 0.03213653
## 100           100 1198  0.0856143404 1.0881689 0.03143894
```

```
cat("\n")
```

```
felthatedaverage
```

```
##     percentile100    N          mean        sd         se
## 1               1 1199 -0.1144999428 0.8036400 0.02320876
## 2               2 1199 -0.0700474461 0.9035045 0.02609280
## 3               3 1199 -0.0027987973 0.9864142 0.02848720
```

```
## 4               4 1198 -0.0766446297 0.8510036 0.02458686
## 5               5 1199 -0.0027987973 1.0266843 0.02965018
## 6               6 1199 -0.0518105244 0.9025095 0.02606407
## 7               7 1198 -0.0538294491 0.9375317 0.02708679
## 8               8 1199 -0.0153366810 0.9901625 0.02859545
## 9               9 1199 -0.0347134103 0.9512095 0.02747050
## 10             10 1197 -0.0604185952 0.9114642 0.02634466
## 11             11 1199 -0.0415522559 0.9453587 0.02730153
## 12             12 1199 -0.0050784125 1.0013635 0.02891893
## 13             13 1197  0.0274932325 1.0933919 0.03160304
## 14             14 1199 -0.0540901396 0.9118901 0.02633498
## 15             15 1199 -0.0404124483 0.9156396 0.02644326
## 16             16 1197 -0.0786859880 0.9054053 0.02616953
## 17             17 1199 -0.0255949494 0.9594208 0.02770764
## 18             18 1199 -0.0438318712 0.9640945 0.02784261
## 19             19 1198 -0.0389995816 0.9531393 0.02753772
## 20             20 1199 -0.0780260994 0.8807830 0.02543662
## 21             21 1199 -0.0221755266 0.9573844 0.02764883
## 22             22 1196 -0.0258827604 0.9616911 0.02780802
## 23             23 1199 -0.0415522559 0.9134886 0.02638114
## 24             24 1199 -0.0267347570 0.9654934 0.02788301
## 25             25 1198 -0.0298735094 0.9400462 0.02715944
## 26             26 1199 -0.0119172581 0.9722491 0.02807812
## 27             27 1199  0.0029002408 1.0177767 0.02939293
## 28             28 1197  0.0115092638 1.0178784 0.02942042
## 29             29 1199 -0.0335736027 0.9532672 0.02752993
## 30             30 1199 -0.0244551418 0.9598273 0.02771938
## 31             31 1198  0.0283052013 1.0270688 0.02967366
## 32             32 1199 -0.0210357190 0.9545267 0.02756630
## 33             33 1199 -0.0586493701 0.8909765 0.02573100
## 34             34 1198 -0.0024952926 0.9692207 0.02800234
## 35             35 1199 -0.0461114864 0.9218878 0.02662370
## 36             36 1199 -0.0404124483 0.8932312 0.02579612
## 37             37 1197 -0.0158918254 0.9778087 0.02826226
## 38             38 1198  0.0271644423 1.0581788 0.03057248
## 39             39 1199  0.0097390864 1.0691187 0.03087567
## 40             40 1198 -0.0002137745 0.9922351 0.02866726
## 41             41 1199  0.0029002408 1.0100889 0.02917091
## 42             42 1198  0.0020677435 0.9976650 0.02882414
## 43             43 1197  0.0103675517 1.0067347 0.02909832
## 44             44 1199  0.0017604331 1.0386547 0.02999588
## 45             45 1199  0.0177177397 1.0207083 0.02947759
## 46             46 1197  0.0252098084 1.0295048 0.02975646
## 47             47 1199  0.0142983168 1.0718747 0.03095526
## 48             48 1199 -0.0050784125 0.9840889 0.02842004
## 49             49 1198 -0.0218881962 0.9495518 0.02743407
## 50             50 1199  0.0302556233 1.0424072 0.03010425
## 51             51 1199 -0.0050784125 0.9584065 0.02767835
## 52             52 1198  0.0351497555 1.0749493 0.03105700
## 53             53 1199 -0.0518105244 0.9496458 0.02742534
## 54             54 1198  0.0340089965 1.0422179 0.03011134
## 55             55 1197  0.0263515204 1.0448816 0.03020091
## 56             56 1199 -0.0198959114 0.9384621 0.02710236
## 57             57 1199  0.0085992788 1.0133840 0.02926607
## 58             58 1198  0.0830616349 1.1272703 0.03256864
## 59             59 1199  0.0131585092 1.0070502 0.02908316
## 60             60 1199  0.0154381244 1.0367125 0.02993979
## 61             61 1197 -0.0204586736 0.9810282 0.02835531
## 62             62 1198  0.0340089965 1.0210435 0.02949958
## 63             63 1199  0.0245565853 1.0211642 0.02949076
## 64             64 1197 -0.0101832651 1.0018009 0.02895572
## 65             65 1199 -0.0084978353 0.9733999 0.02811135
## 66             66 1199 -0.0073580277 0.9608874 0.02774999
## 67             67 1198  0.0351497555 1.0499837 0.03033571
## 68             68 1198 -0.0127621239 0.9527614 0.02752680
## 69             69 1199  0.0667294668 1.1136802 0.03216258
## 70             70 1198  0.0146160929 1.0352484 0.02990998
## 71             71 1199  0.0063196636 0.9734400 0.02811251
## 72             72 1199 -0.0107774505 0.9662015 0.02790346
## 73             73 1198 -0.0093398468 0.9845264 0.02844454
## 74             74 1199  0.0085992788 1.0210471 0.02948738
## 75             75 1199 -0.0244551418 0.9996090 0.02886826
## 76             76 1198  0.0168976110 1.0037839 0.02900092
```

```
## 77             77 1199  0.0222769701 1.0266007 0.02964777
## 78             78 1199  0.0564711983 1.1042876 0.03189133
## 79             79 1198  0.0317274784 1.0520291 0.03039480
## 80             80 1199 -0.0198959114 0.9217002 0.02661829
## 81             81 1199 -0.0449716788 0.9357606 0.02702434
## 82             82 1198  0.0556834181 1.0582373 0.03057417
## 83             83 1199 -0.0335736027 0.9499907 0.02743530
## 84             84 1199  0.0587508135 1.0587061 0.03057496
## 85             85 1198  0.0750763217 1.1172345 0.03227869
## 86             86 1197 -0.0021912808 0.9483996 0.02741222
## 87             87 1198 -0.0081990878 0.9833185 0.02840965
## 88             88 1198  0.0362905145 1.0398383 0.03004259
## 89             89 1199  0.0017604331 1.0004268 0.02889188
## 90             90 1199  0.0085992788 1.0451913 0.03018465
## 91             91 1198  0.0716540446 1.1038384 0.03189166
## 92             92 1199  0.0838265809 1.0990994 0.03174149
## 93             93 1198  0.0693725265 1.1187763 0.03232324
## 94             94 1197  0.0548943216 1.0860004 0.03138939
## 95             95 1198  0.0682317675 1.1171273 0.03227559
## 96             96 1198  0.0340089965 1.0688259 0.03088009
## 97             97 1198  0.0226014061 1.0375487 0.02997644
## 98             98 1198  0.0511203820 1.0717580 0.03096480
## 99             99 1199  0.0906654265 1.0919961 0.03153635
## 100           100 1198  0.0796393578 1.0985048 0.03173756
```

```
cat("\n")
```

```
feltlovedaverage
```

```
##     percentile100    N          mean        sd         se
## 1               1 1196 -1.001870e-01 0.9448633 0.02732143
## 2               2 1196 -1.063239e-01 0.9232554 0.02669662
## 3               3 1197 -4.207077e-02 1.0121331 0.02925436
## 4               4 1194 -5.688515e-02 0.9330271 0.02700176
## 5               5 1197 -4.557463e-02 0.9777953 0.02826187
## 6               6 1195 -3.205031e-02 0.9847167 0.02848573
## 7               7 1196 -5.459869e-02 0.9591908 0.02773572
## 8               8 1197 -2.192356e-02 0.9684555 0.02799191
## 9               9 1194 -2.702749e-02 0.9829088 0.02844534
## 10             10 1195 -8.996079e-02 0.9549766 0.02762541
## 11             11 1194 -3.054016e-02 0.9523285 0.02756034
## 12             12 1197 -2.542742e-02 0.9664702 0.02793453
## 13             13 1194 -1.297683e-02 1.0181865 0.02946627
## 14             14 1197 -1.841970e-02 0.9541847 0.02757944
## 15             15 1196 -2.829775e-02 0.9928229 0.02870821
## 16             16 1195 -4.784408e-02 0.9493126 0.02746157
## 17             17 1196 -8.133697e-03 1.0135893 0.02930869
## 18             18 1196 -3.180454e-02 1.0101725 0.02920989
## 19             19 1197 -5.345832e-02 0.9460949 0.02734561
## 20             20 1197 -8.937291e-02 0.9667277 0.02794197
## 21             21 1198  1.944936e-02 0.9927144 0.02868111
## 22             22 1191 -5.680773e-02 0.9669228 0.02801792
## 23             23 1197 -5.083042e-02 0.9723515 0.02810452
## 24             24 1196 -1.251719e-02 1.0119559 0.02926146
## 25             25 1197 -1.053601e-02 0.9899980 0.02861457
## 26             26 1196 -1.251719e-02 0.9749121 0.02819031
## 27             27 1195  3.902165e-02 1.0290349 0.02976776
## 28             28 1194  1.073834e-03 1.0263782 0.02970334
## 29             29 1193 -2.369033e-05 1.0024647 0.02902344
## 30             30 1197 -1.228794e-02 1.0115638 0.02923790
## 31             31 1193  1.228095e-02 1.0478234 0.03033667
## 32             32 1198  6.320841e-03 0.9972725 0.02881280
## 33             33 1196 -5.635208e-02 0.9528342 0.02755191
## 34             34 1197 -2.017163e-02 0.9960996 0.02879093
## 35             35 1196 -1.777737e-02 0.9800086 0.02833768
## 36             36 1194 -7.093581e-02 0.9458079 0.02737164
## 37             37 1194 -1.034233e-02 0.9539654 0.02760771
## 38             38 1195  4.779596e-02 1.0165063 0.02940533
## 39             39 1195  2.673760e-02 1.0387800 0.03004966
## 40             40 1196  3.263376e-03 1.0133870 0.02930284
## 41             41 1198 -2.781330e-02 0.9855618 0.02847446
```

```
## 41             41 1196 -2.781550e-02 0.9855618 0.02847446
## 42             42 1193 -7.933813e-03 1.0035847 0.02905586
## 43             43 1193 -4.133211e-02 0.9667121 0.02798833
## 44             44 1194 -7.707831e-03 1.0123389 0.02929704
## 45             45 1196  2.781092e-02 1.0157253 0.02937046
## 46             46 1193  7.007530e-03 1.0106853 0.02926144
## 47             47 1196 -3.531133e-02 0.9719946 0.02810595
## 48             48 1198 -3.043900e-02 0.9683263 0.02797650
## 49             49 1195 -4.696665e-02 0.9918102 0.02869093
## 50             50 1197  3.851806e-02 1.0122552 0.02925789
## 51             51 1192 -6.400895e-03 0.9736476 0.02820095
## 52             52 1194  2.478433e-02 1.0361284 0.02998551
## 53             53 1192 -4.641615e-03 1.0021565 0.02902668
## 54             54 1195 -1.713397e-02 0.9735680 0.02816322
## 55             55 1195  4.340880e-02 1.0223490 0.02957435
## 56             56 1195 -4.345692e-02 0.9826433 0.02842575
## 57             57 1197  4.202192e-02 1.0020744 0.02896362
## 58             58 1194  4.586499e-03 1.0173493 0.02944204
## 59             59 1198  2.820170e-02 1.0040030 0.02900725
## 60             60 1197  1.661892e-02 1.0076252 0.02912406
## 61             61 1192  1.207154e-02 1.0078313 0.02919105
## 62             62 1195  3.112476e-02 0.9884639 0.02859413
## 63             63 1198  1.944670e-03 0.9947558 0.02874009
## 64             64 1193  1.491765e-02 1.0239708 0.02964608
## 65             65 1195  1.533099e-02 1.0222623 0.02957184
## 66             66 1196  2.781092e-02 1.0130044 0.02929178
## 67             67 1194  1.073834e-03 1.0009221 0.02896664
## 68             68 1192  3.054398e-02 1.0262728 0.02972519
## 69             69 1197  8.231633e-02 1.0519842 0.03040620
## 70             70 1196 -1.164049e-02 1.0153697 0.02936017
## 71             71 1198  5.008256e-02 1.0192659 0.02944822
## 72             72 1197 -1.141198e-02 0.9920755 0.02867462
## 73             73 1195 -3.468260e-02 0.9626401 0.02784710
## 74             74 1197  3.479437e-03 1.0220251 0.02954027
## 75             75 1197 -2.104760e-02 0.9786251 0.02828585
## 76             76 1195  3.924384e-03 1.0135533 0.02931991
## 77             77 1197  4.355403e-03 0.9935166 0.02871627
## 78             78 1195  4.801815e-03 1.0349007 0.02993745
## 79             79 1194 -1.122050e-02 0.9892863 0.02862990
## 80             80 1194  1.424633e-02 0.9871428 0.02856787
## 81             81 1193 -2.375406e-02 0.9899195 0.02866023
## 82             82 1194  3.971316e-02 0.9796431 0.02835083
## 83             83 1197  8.735230e-03 1.0015501 0.02894847
## 84             84 1195 -4.849932e-03 0.9993709 0.02890964
## 85             85 1193  5.095266e-02 1.0270760 0.02973599
## 86             86 1194  3.708333e-03 0.9797451 0.02835378
## 87             87 1195  9.188973e-03 0.9760303 0.02823445
## 88             88 1196  9.005647e-02 1.0515446 0.03040620
## 89             89 1194  3.268783e-02 0.9966890 0.02884414
## 90             90 1197  3.851806e-02 1.0113467 0.02923163
## 91             91 1192  4.901642e-02 1.0333975 0.02993155
## 92             92 1198  1.087233e-01 1.0652322 0.03077626
## 93             93 1198  1.244748e-02 1.0165971 0.02937112
## 94             94 1192  7.892417e-02 1.0139354 0.02936785
## 95             95 1197  7.968844e-02 1.0361205 0.02994768
## 96             96 1196  9.443996e-02 1.0596578 0.03064080
## 97             97 1193  5.358936e-02 1.0369958 0.03002319
## 98             98 1193  3.249570e-02 1.0307428 0.02984215
## 99             99 1197  1.068434e-01 1.0901488 0.03150930
## 100           100 1198  6.496154e-02 1.0752327 0.03106519
```

```
cat("\n")
```

```
physicalabuseaverage
```

```
##     percentile100    N         mean        sd         se
## 1               1 1199 -0.052932766 0.9370365 0.02706119
## 2               2 1199 -0.032181806 0.9460337 0.02732103
## 3               3 1199 -0.015321651 0.9964364 0.02877663
## 4               4 1198 -0.014990380 0.9638148 0.02784615
## 5               5 1199 -0.030884871 0.9401592 0.02715137
```

```
## 6               6 1199 -0.021806326 0.9837266 0.02840958
## 7               7 1198 -0.012394345 0.9937164 0.02871006
## 8               8 1199 -0.055526636 0.9444611 0.02727561
## 9               9 1199 -0.054229701 0.9146480 0.02641462
## 10             10 1197 -0.049734309 0.9126506 0.02637895
## 11             11 1199 -0.056823571 0.9309624 0.02688578
## 12             12 1199 -0.036072611 0.9357997 0.02702547
## 13             13 1197  0.072381277 1.1257071 0.03253706
## 14             14 1199 -0.059417441 0.9469888 0.02734861
## 15             15 1199 -0.059417441 0.9575867 0.02765467
## 16             16 1197 -0.008163046 0.9561713 0.02763686
## 17             17 1199  0.005429310 1.0061323 0.02905665
## 18             18 1199 -0.030884871 0.9529536 0.02752087
## 19             19 1198 -0.050036855 0.9233344 0.02667661
## 20             20 1199 -0.072386791 0.9016255 0.02603854
## 21             21 1199 -0.038666481 0.9475503 0.02736483
## 22             22 1196 -0.031228623 0.9908838 0.02865215
## 23             23 1199 -0.030884871 0.9508332 0.02745963
## 24             24 1199 -0.039963416 0.9784450 0.02825705
## 25             25 1198 -0.007202274 1.0295900 0.02974650
## 26             26 1199 -0.004946170 0.9840670 0.02841941
## 27             27 1199 -0.007540040 1.0054176 0.02903601
## 28             28 1197 -0.015957658 0.9719920 0.02809413
## 29             29 1199 -0.032181806 0.9309787 0.02688625
## 30             30 1199 -0.043854221 0.9431822 0.02723868
## 31             31 1198 -0.013692362 0.9809422 0.02834099
## 32             32 1199 -0.047745026 0.9263544 0.02675270
## 33             33 1199 -0.029587936 0.9211916 0.02660360
## 34             34 1198 -0.059122978 0.9213846 0.02662028
## 35             35 1199 -0.016618586 0.9481808 0.02738303
## 36             36 1199 -0.008836975 0.9846451 0.02843611
## 37             37 1197 -0.070519941 0.8593022 0.02483698
## 38             38 1198  0.049910500 1.0882209 0.03144044
## 39             39 1199 -0.004946170 1.0418532 0.03008825
## 40             40 1198 -0.003308222 0.9869438 0.02851439
## 41             41 1199 -0.023103261 0.9645616 0.02785611
## 42             42 1198 -0.024076503 1.0033867 0.02898945
## 43             43 1197  0.004827974 0.9881166 0.02856019
## 44             44 1199 -0.008836975 1.0069418 0.02908003
## 45             45 1199 -0.015321651 0.9821543 0.02836417
## 46             46 1197  0.013921688 0.9974892 0.02883109
## 47             47 1199  0.006726245 1.0185560 0.02941544
## 48             48 1199 -0.001055365 1.0017743 0.02893079
## 49             49 1198 -0.005904257 0.9839184 0.02842698
## 50             50 1199  0.011913985 0.9943206 0.02871553
## 51             51 1199 -0.034775676 0.9123352 0.02634783
## 52             52 1198  0.009671954 1.0178364 0.02940692
## 53             53 1199 -0.023103261 0.9412615 0.02718321
## 54             54 1198 -0.033162626 0.9458187 0.02732621
## 55             55 1197  0.024314504 1.0329014 0.02985464
## 56             56 1199 -0.024400196 0.9785844 0.02826108
## 57             57 1199  0.019695595 1.0425768 0.03010915
## 58             58 1198  0.061592658 1.1243615 0.03248460
## 59             59 1199 -0.036072611 0.9592325 0.02770220
## 60             60 1199 -0.007540040 0.9871841 0.02850943
## 61             61 1197  0.061988461 1.0426588 0.03013666
## 62             62 1198  0.039526359 1.0099456 0.02917894
## 63             63 1199 -0.029587936 0.9342459 0.02698060
## 64             64 1197 -0.004265740 1.0170683 0.02939700
## 65             65 1199  0.015804790 1.0451475 0.03018339
## 66             66 1199  0.036555750 1.0422264 0.03009903
## 67             67 1198  0.039526359 1.0587714 0.03058960
## 68             68 1198  0.022652130 1.0262278 0.02964936
## 69             69 1199  0.054712840 1.0874879 0.03140616
## 70             70 1198  0.005777902 1.0516313 0.03038331
## 71             71 1199 -0.002352300 0.9829887 0.02838827
## 72             72 1199 -0.047745026 0.9241729 0.02668970
## 73             73 1198 -0.020182450 0.9784076 0.02826776
## 74             74 1199  0.022289465 1.0179757 0.02939868
## 75             75 1199  0.026180270 1.0543222 0.03044835
## 76             76 1198  0.001883849 0.9970072 0.02880513
## 77             77 1199  0.044337360 1.0172412 0.02937747
## 78             78 1199  0.020992530 1.0602802 0.03062041
```

```
## 79             79 1198 -0.005904257 1.0202060 0.02947538
## 80             80 1199  0.015804790 1.0017592 0.02893035
## 81             81 1199  0.002835440 0.9930788 0.02867967
## 82             82 1198  0.091447063 1.1284357 0.03260231
## 83             83 1199  0.023586400 1.0302353 0.02975273
## 84             84 1199  0.033961880 1.0394639 0.03001925
## 85             85 1198  0.083658957 1.0618979 0.03067993
## 86             86 1197 -0.038042392 0.9200826 0.02659376
## 87             87 1198 -0.013692362 0.9559102 0.02761777
## 88             88 1198  0.022652130 1.0321164 0.02981950
## 89             89 1199  0.040446555 1.0298169 0.02974065
## 90             90 1199  0.005429310 1.0000958 0.02888232
## 91             91 1198  0.060294640 1.0874707 0.03141877
## 92             92 1199  0.070276060 1.0806676 0.03120919
## 93             93 1198  0.066784728 1.0874156 0.03141718
## 94             94 1197  0.085372297 1.1200210 0.03237271
## 95             95 1198  0.038228341 1.0254092 0.02962571
## 96             96 1198  0.062890676 1.0732421 0.03100768
## 97             97 1198  0.023950148 1.0227178 0.02954795
## 98             98 1198  0.049910500 1.1139069 0.03218255
## 99             99 1199  0.101402500 1.1179653 0.03228633
## 100           100 1198  0.068082746 1.0633547 0.03072202
```

Average scores for adult self-harm experiences by percentile

```
selfharmscoreaverage <- ddply(merged, "percentile75", summarise,
               N    = sum(!is.na(selfharmscore)),
               mean = mean(selfharmscore, na.rm = TRUE),
               sd   = sd(selfharmscore, na.rm = TRUE),
               se   = sd / sqrt(N)
)


selfharmideationaverage <- ddply(merged, "percentile75", summarise,
               N    = sum(!is.na(selfharmideation)),
               mean = mean(selfharmideation, na.rm = TRUE),
               sd   = sd(selfharmideation, na.rm = TRUE),
               se   = sd / sqrt(N)
)

lifenotworthlivingaverage <- ddply(merged, "percentile75", summarise,
               N    = sum(!is.na(lifenotworthliving)),
               mean = mean(lifenotworthliving, na.rm = TRUE),
               sd   = sd(lifenotworthliving, na.rm = TRUE),
               se   = sd / sqrt(N)
)

contemplateselfharmaverage <- ddply(merged, "percentile75", summarise,
               N    = sum(!is.na(contemplateselfharm)),
               mean = mean(contemplateselfharm, na.rm = TRUE),
               sd   = sd(contemplateselfharm, na.rm = TRUE),
               se   = sd / sqrt(N)
)


attemptselfharmaverage <- ddply(merged, "percentile75", summarise,
               N    = sum(!is.na(f.20480.0.0)),
               mean = mean(f.20480.0.0, na.rm = TRUE),
               sd   = sd(f.20480.0.0, na.rm = TRUE),
               se   = sd / sqrt(N)
)

cat("\n")
```

```
selfharmscoreaverage
```

```
##     percentile75    N         mean        sd         se
## 1              1 1180 -0.050601893 0.9607354 0.02796809
## 2              2 1175 -0.107273188 0.8886846 0.02592559
## 3              3 1179 -0.013204509 1.0107143 0.02943551
```

```
## 3              3 1179  0.013204509 1.0107145 0.02945551
## 4              4 1184 -0.113715984 0.8907266 0.02588622
## 5              5 1183 -0.047230211 0.9698580 0.02819784
## 6              6 1187 -0.056561798 0.9409519 0.02731128
## 7              7 1185 -0.059444212 0.9711134 0.02821050
## 8              8 1183 -0.040621265 0.9840363 0.02861006
## 9              9 1184 -0.028815588 0.9522926 0.02767544
## 10            10 1180 -0.055334571 0.9506279 0.02767385
## 11            11 1179 -0.035940629 0.9612984 0.02799634
## 12            12 1177 -0.055888660 0.9591776 0.02795830
## 13            13 1184 -0.043908992 0.9375891 0.02724813
## 14            14 1183 -0.058559832 0.9385460 0.02728746
## 15            15 1183 -0.084051481 0.9109945 0.02648643
## 16            16 1183 -0.084051481 0.9179193 0.02668776
## 17            17 1182 -0.014649561 1.0233443 0.02976549
## 18            18 1180 -0.082784100 0.9335933 0.02717795
## 19            19 1180 -0.059120713 0.9460325 0.02754007
## 20            20 1178 -0.019358187 0.9693148 0.02824179
## 21            21 1187 -0.014218887 0.9851372 0.02859377
## 22            22 1182  0.029762333 1.0342972 0.03008407
## 23            23 1183 -0.034012319 0.9689947 0.02817274
## 24            24 1175  0.008695534 1.0455313 0.03050128
## 25            25 1186 -0.061768777 0.9263578 0.02689902
## 26            26 1183 -0.006632400 0.9999787 0.02907357
## 27            27 1187 -0.038683680 0.9689297 0.02812334
## 28            28 1180 -0.040190003 0.9443059 0.02748981
## 29            29 1185 -0.012317129 1.0078785 0.02927851
## 30            30 1179 -0.008467818 0.9862576 0.02872324
## 31            31 1179 -0.021730554 0.9723215 0.02831738
## 32            32 1185 -0.071697254 0.9147029 0.02657180
## 33            33 1185 -0.032110504 0.9695529 0.02816517
## 34            34 1179 -0.038782644 0.9926936 0.02891068
## 35            35 1184  0.027784675 1.0110861 0.02938409
## 36            36 1181 -0.044432181 0.9693804 0.02820781
## 37            37 1182 -0.040162776 0.9560182 0.02780721
## 38            38 1184 -0.042022317 0.9532424 0.02770304
## 39            39 1179 -0.010362494 1.0283380 0.02994877
## 40            40 1176 -0.011752085 0.9708929 0.02831181
## 41            41 1176 -0.020299880 1.0074554 0.02937800
## 42            42 1172 -0.013615939 0.9937019 0.02902634
## 43            43 1185  0.024441996 0.9983696 0.02900228
## 44            44 1182  0.006138985 1.0010211 0.02911619
## 45            45 1182 -0.002365420 0.9927662 0.02887608
## 46            46 1169  0.003131202 1.0301334 0.03012910
## 47            47 1179  0.039846436 1.0468692 0.03048846
## 48            48 1181  0.004745988 1.0243183 0.02980643
## 49            49 1176 -0.021249635 0.9872326 0.02878829
## 50            50 1180  0.005243700 1.0297602 0.02997748
## 51            51 1183 -0.061392238 0.9518377 0.02767391
## 52            52 1184 -0.002402132 1.0027646 0.02914225
## 53            53 1176  0.038584930 1.0160129 0.02962754
## 54            54 1181  0.028389338 1.0509005 0.03057994
## 55            55 1173 -0.001722575 0.9856846 0.02877988
## 56            56 1174  0.003490917 1.0066235 0.02937873
## 57            57 1181 -0.038757777 0.9803270 0.02852634
## 58            58 1180  0.020388268 1.0157640 0.02957003
## 59            59 1181  0.043521082 1.0276460 0.02990326
## 60            60 1184  0.025898000 1.0153441 0.02950784
## 61            61 1178  0.039426648 1.0462019 0.03048196
## 62            62 1185  0.003706079 0.9928156 0.02884094
## 63            63 1180  0.005243700 0.9888755 0.02878728
## 64            64 1180 -0.007061261 0.9773269 0.02845109
## 65            65 1178  0.006241660 1.0272587 0.02993003
## 66            66 1179  0.052161835 1.0510932 0.03061148
## 67            67 1185  0.039522663 1.0163559 0.02952478
## 68            68 1182 -0.024098900 0.9649507 0.02806702
## 69            69 1177  0.011486653 1.0253312 0.02988656
## 70            70 1178  0.023308226 0.9747118 0.02839903
## 71            71 1182  0.017478192 0.9974419 0.02901208
## 72            72 1181  0.057707093 1.0439729 0.03037836
## 73            73 1183  0.011306168 1.0037188 0.02918231
## 74            74 1183 -0.010408940 0.9894277 0.02876681
## 75            75 1184  0.050424781 1.0252152 0.02979471
```

```
## 76            76 1186  0.012629231 1.0519765 0.03054666
## 77            77 1185  0.027269621 1.0283819 0.02987413
## 78            78 1182  0.037321804 1.0410028 0.03027911
## 79            79 1179  0.022794347 1.0568295 0.03077854
## 80            80 1181  0.092699251 1.0547632 0.03069234
## 81            81 1182 -0.013704627 1.0035315 0.02918920
## 82            82 1179  0.019952332 1.0119071 0.02947024
## 83            83 1185  0.048005538 1.0383576 0.03016392
## 84            84 1182  0.029762333 0.9883401 0.02874734
## 85            85 1176  0.042383950 1.0476718 0.03055073
## 86            86 1182  0.082678631 1.0821823 0.03147688
## 87            87 1182  0.066614755 1.0120765 0.02943775
## 88            88 1186  0.070075794 1.0633486 0.03087687
## 89            89 1183  0.046239168 1.0289002 0.02991444
## 90            90 1175  0.056223699 1.0530940 0.03072191
## 91            91 1181 -0.016060161 0.9921944 0.02887167
## 92            92 1179  0.019004994 0.9982509 0.02907253
## 93            93 1177  0.004844016 0.9713559 0.02831328
## 94            94 1173  0.029699498 1.0163874 0.02967633
## 95            95 1178  0.063130211 1.0586024 0.03084326
## 96            96 1180  0.089485359 1.0544387 0.03069590
## 97            97 1181  0.058652827 1.0479414 0.03049384
## 98            98 1181  0.096482187 1.0878952 0.03165644
## 99            99 1175  0.099949610 1.0447785 0.03047932
## 100          100 1175  0.132268763 1.0961308 0.03197742
```

```
cat("\n")
```

```
selfharmideationaverage
```

```
##     percentile75    N         mean        sd         se
## 1              1 1180 -0.047533882 0.9583790 0.02789949
## 2              2 1175 -0.093110876 0.9075052 0.02647465
## 3              3 1180 -0.023435860 0.9828277 0.02861122
## 4              4 1186 -0.116858116 0.8710171 0.02529207
## 5              5 1184 -0.046660350 0.9693168 0.02817020
## 6              6 1187 -0.051188722 0.9579884 0.02780577
## 7              7 1186 -0.053353827 0.9862855 0.02863916
## 8              8 1184 -0.045362155 0.9660503 0.02807527
## 9              9 1186 -0.024193694 0.9565916 0.02777693
## 10            10 1182 -0.041894810 0.9786304 0.02846492
## 11            11 1183 -0.031286670 0.9613190 0.02794957
## 12            12 1177 -0.046887011 0.9754348 0.02843217
## 13            13 1185 -0.026337846 0.9666065 0.02807958
## 14            14 1184 -0.056396814 0.9391668 0.02729398
## 15            15 1186 -0.072793915 0.9200309 0.02671530
## 16            16 1185 -0.093787023 0.8893665 0.02583578
## 17            17 1182 -0.019788151 1.0155962 0.02954012
## 18            18 1182 -0.061400686 0.9841068 0.02862421
## 19            19 1181 -0.045362705 0.9931503 0.02889948
## 20            20 1180 -0.031902733 0.9629839 0.02803354
## 21            21 1190 -0.002736628 0.9959840 0.02887213
## 22            22 1184  0.018249404 1.0063678 0.02924697
## 23            23 1184 -0.028485619 0.9683157 0.02814110
## 24            24 1175  0.007615806 1.0469472 0.03054259
## 25            25 1187 -0.054426007 0.9437338 0.02739203
## 26            26 1183  0.001195642 1.0147800 0.02950391
## 27            27 1189 -0.035881182 0.9567807 0.02774735
## 28            28 1181 -0.040156734 0.9523147 0.02771121
## 29            29 1185 -0.004287153 1.0227827 0.02971147
## 30            30 1179 -0.007990323 0.9898707 0.02882847
## 31            31 1181 -0.016729863 0.9996104 0.02908746
## 32            32 1187 -0.062842948 0.9277347 0.02692765
## 33            33 1186 -0.052057821 0.9342163 0.02712721
## 34            34 1181 -0.032998523 1.0084973 0.02934606
## 35            35 1188  0.038952775 1.0267022 0.02978765
## 36            36 1182 -0.038643831 0.9663575 0.02810794
## 37            37 1183 -0.037133486 0.9538192 0.02773152
## 38            38 1186 -0.017065662 0.9816976 0.02850594
## 39            39 1181 -0.008270160 1.0195812 0.02966859
## 40            40 1176 -0.014430670 0.9674040 0.02821007
```

```
## 41            41 1180 -0.007804711 1.0238100 0.02980426
## 42            42 1173 -0.009765823 0.9796072 0.02860243
## 43            43 1187  0.023916294 0.9991649 0.02900092
## 44            44 1184  0.022143990 1.0436258 0.03032976
## 45            45 1185 -0.002341504 1.0007616 0.02907177
## 46            46 1171  0.006264658 1.0110379 0.02954534
## 47            47 1182  0.030276929 1.0161466 0.02955613
## 48            48 1181  0.006046261 1.0181432 0.02962674
## 49            49 1176 -0.017044723 0.9827765 0.02865834
## 50            50 1182 -0.003533255 1.0184208 0.02962228
## 51            51 1185 -0.058765335 0.9391224 0.02728117
## 52            52 1186 -0.017065662 0.9709768 0.02819464
## 53            53 1177  0.042568227 1.0390137 0.03028538
## 54            54 1183  0.032378661 1.0539739 0.03064344
## 55            55 1175 -0.008735928 0.9714816 0.02834103
## 56            56 1179  0.008305935 1.0219505 0.02976274
## 57            57 1184 -0.043414863 0.9595668 0.02788684
## 58            58 1183  0.003794227 0.9954333 0.02894142
## 59            59 1182  0.032227517 1.0093326 0.02935794
## 60            60 1185  0.028140336 1.0198294 0.02962568
## 61            61 1178  0.038796813 1.0403559 0.03031163
## 62            62 1185  0.014520791 1.0316552 0.02996922
## 63            63 1180 -0.007804711 0.9787813 0.02849343
## 64            64 1182 -0.021738739 0.9544643 0.02776201
## 65            65 1180  0.013036821 1.0401587 0.03028019
## 66            66 1181  0.037932834 1.0301432 0.02997593
## 67            67 1187  0.044634919 1.0350838 0.03004347
## 68            68 1185 -0.010772651 0.9996740 0.02904017
## 69            69 1181  0.006697007 1.0091392 0.02936474
## 70            70 1179  0.014172587 0.9899716 0.02883141
## 71            71 1182  0.004919291 0.9639571 0.02803812
## 72            72 1183  0.073306374 1.0608108 0.03084222
## 73            73 1185  0.010629492 1.0202045 0.02963658
## 74            74 1186 -0.023545691 0.9791505 0.02843198
## 75            75 1186  0.054862666 1.0419196 0.03025463
## 76            76 1187  0.003845126 1.0356551 0.03006006
## 77            77 1185  0.046299731 1.0388908 0.03017941
## 78            78 1183  0.020035383 1.0103694 0.02937567
## 79            79 1179  0.012868887 1.0357545 0.03016476
## 80            80 1181  0.088691053 1.0739122 0.03124955
## 81            81 1186 -0.028081712 0.9623829 0.02794509
## 82            82 1180  0.022806289 1.0354614 0.03014345
## 83            83 1187  0.031038321 1.0272441 0.02981593
## 84            84 1183  0.024582907 0.9864555 0.02868039
## 85            85 1177  0.045833017 1.0565506 0.03079655
## 86            86 1184  0.062388038 1.0543893 0.03064257
## 87            87 1184  0.076668184 1.0510935 0.03054678
## 88            88 1187  0.060821345 1.0610516 0.03079719
## 89            89 1186  0.060694692 1.0661755 0.03095896
## 90            90 1178  0.052497290 1.0451775 0.03045211
## 91            91 1181 -0.024538820 0.9661949 0.02811511
## 92            92 1180  0.024108885 1.0102321 0.02940899
## 93            93 1180 -0.002594328 0.9603096 0.02795569
## 94            94 1175  0.043589620 1.0293901 0.03003039
## 95            95 1178  0.055759308 1.0323858 0.03007941
## 96            96 1181  0.072422393 1.0219711 0.02973813
## 97            97 1182  0.047182022 1.0273210 0.02988116
## 98            98 1184  0.090299232 1.0805977 0.03140423
## 99            99 1176  0.097973597 1.0423784 0.03039637
## 100          100 1180  0.117244482 1.0730504 0.03123771
```

```
cat("\n")
```

```
lifenotworthlivingaverage
```

```
##     percentile75    N         mean        sd         se
## 1              1 1192 -0.042533475 0.9811902 0.02841941
## 2              2 1188 -0.069732031 0.9677175 0.02807633
## 3              3 1191 -0.010982317 0.9956616 0.02885067
## 4              4 1193 -0.094077619 0.9548365 0.02764450
## 5              5 1191 -0.058443051 0.9734240 0.02820630
```

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## 5               5 1191 -0.038445051 0.9754240 0.02820050
## 6               6 1192 -0.053476764 0.9758826 0.02826568
## 7               7 1196 -0.059143607 0.9730729 0.02813713
## 8               8 1192 -0.048005120 0.9785553 0.02834309
## 9               9 1199 -0.000812377 1.0000663 0.02888146
## 10             10 1191 -0.036538097 0.9840347 0.02851376
## 11             11 1191 -0.025585620 0.9891153 0.02866098
## 12             12 1186 -0.054070371 0.9755924 0.02832866
## 13             13 1191 -0.027411032 0.9882788 0.02863674
## 14             14 1195 -0.044085682 0.9804456 0.02836217
## 15             15 1191 -0.056617638 0.9743315 0.02823260
## 16             16 1194 -0.069060716 0.9680595 0.02801560
## 17             17 1195 -0.044085682 0.9804456 0.02836217
## 18             18 1194 -0.090910633 0.9565564 0.02768270
## 19             19 1193 -0.059452919 0.9729194 0.02816804
## 20             20 1189 -0.008060735 0.9969411 0.02891203
## 21             21 1196 -0.011881287 0.9952643 0.02877881
## 22             22 1191  0.032827592 1.0137847 0.02937581
## 23             23 1192 -0.026118542 0.9888711 0.02864188
## 24             24 1190 -0.015917067 0.9934787 0.02879951
## 25             25 1191 -0.025585620 0.9891153 0.02866098
## 26             26 1189 -0.022688602 0.9904352 0.02872335
## 27             27 1195 -0.031350564 0.9864581 0.02853610
## 28             28 1188 -0.022151446 0.9906791 0.02874251
## 29             29 1192 -0.026118542 0.9888711 0.02864188
## 30             30 1189  0.010224098 1.0047145 0.02913746
## 31             31 1192 -0.027942424 0.9880341 0.02861764
## 32             32 1192 -0.031590187 0.9863479 0.02856880
## 33             33 1193 -0.037584687 0.9835407 0.02847555
## 34             34 1194 -0.052673279 0.9762767 0.02825340
## 35             35 1191  0.034653004 1.0144917 0.02939630
## 36             36 1189 -0.035487985 0.9845289 0.02855207
## 37             37 1193 -0.041229392 0.9818123 0.02842551
## 38             38 1194 -0.021719230 0.9908726 0.02867581
## 39             39 1194 -0.049031626 0.9780561 0.02830490
## 40             40 1189  0.006567132 1.0031913 0.02909329
## 41             41 1191 -0.027411032 0.9882788 0.02863674
## 42             42 1187 -0.012455565 0.9950142 0.02888045
## 43             43 1194  0.034726388 1.0145190 0.02936013
## 44             44 1190  0.002352401 1.0014160 0.02902960
## 45             45 1193 -0.008427045 0.9967799 0.02885885
## 46             46 1189 -0.017203152 0.9929052 0.02879498
## 47             47 1194  0.032905562 1.0138139 0.02933973
## 48             48 1196  0.002660965 1.0015445 0.02896041
## 49             49 1185 -0.024203851 0.9897479 0.02875182
## 50             50 1194 -0.018077577 0.9925121 0.02872326
## 51             51 1193 -0.032117629 0.9861023 0.02854971
## 52             52 1195 -0.007699629 0.9970963 0.02884385
## 53             53 1193  0.042598829 1.0175246 0.02945946
## 54             54 1192  0.003063561 1.0017162 0.02901393
## 55             55 1186  0.004589101 1.0023620 0.02910598
## 56             56 1192  0.008535206 1.0040119 0.02908042
## 57             57 1191 -0.045665161 0.9796871 0.02838779
## 58             58 1193  0.022552950 1.0097336 0.02923389
## 59             59 1194  0.032905562 1.0138139 0.02933973
## 60             60 1191  0.014573463 1.0065050 0.02916487
## 61             61 1188  0.014449003 1.0064551 0.02920023
## 62             62 1192 -0.007879727 0.9970189 0.02887788
## 63             63 1193  0.009796482 1.0045358 0.02908340
## 64             64 1188  0.005298891 1.0026598 0.02909011
## 65             65 1189 -0.015374668 0.9937204 0.02881863
## 66             66 1192  0.030421783 1.0128467 0.02933632
## 67             67 1192  0.043188954 1.0177475 0.02947826
## 68             68 1196 -0.028241321 0.9878952 0.02856573
## 69             69 1190  0.006006294 1.0029560 0.02907424
## 70             70 1190  0.051679965 1.0209060 0.02959459
## 71             71 1191  0.025525940 1.0109187 0.02929276
## 72             72 1195  0.074168992 1.0288822 0.02976334
## 73             73 1194  0.007413992 1.0035436 0.02904251
## 74             74 1195 -0.029531261 0.9873006 0.02856048
## 75             75 1194  0.052934652 1.0213644 0.02955824
## 76             76 1195 -0.014976839 0.9938951 0.02875124
## 77             77 1191  0.023700527 1.0101927 0.02927173
```

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## 78            78 1187  0.024175719 1.0103835 0.02932654
## 79            79 1190 -0.006782333 0.9974971 0.02891600
## 80            80 1192  0.081490464 1.0313614 0.02987258
## 81            81 1191 -0.023760207 0.9899477 0.02868510
## 82            82 1192  0.028597902 1.0121315 0.02931560
## 83            83 1191  0.009097225 1.0042461 0.02909942
## 84            84 1191  0.047430894 1.0193355 0.02953665
## 85            85 1191  0.051081720 1.0206858 0.02957578
## 86            86 1192  0.074194938 1.0288922 0.02980106
## 87            87 1191  0.074812087 1.0291037 0.02981970
## 88            88 1193  0.037131771 1.0154450 0.02939925
## 89            89 1192  0.035893428 1.0149696 0.02939781
## 90            90 1192  0.048660598 1.0197916 0.02953747
## 91            91 1190 -0.023224855 0.9901914 0.02870422
## 92            92 1190  0.044372177 1.0181931 0.02951594
## 93            93 1191  0.020049702 1.0087292 0.02922932
## 94            94 1190  0.037064390 1.0154202 0.02943556
## 95            95 1193  0.057177650 1.0229067 0.02961528
## 96            96 1192  0.092433753 1.0349577 0.02997675
## 97            97 1189  0.050450732 1.0204542 0.02959393
## 98            98 1190  0.071776380 1.0280616 0.02980202
## 99            99 1191  0.114971170 1.0419631 0.03019232
## 100          100 1190  0.144854252 1.0504337 0.03045055
```

```
cat("\n")
```

```
contemplateselfharmaverage
```

```
##     percentile75    N          mean        sd         se
## 1              1 1196 -0.0596687501 0.9359776 0.02706449
## 2              2 1192 -0.0943512744 0.8945703 0.02591053
## 3              3 1197 -0.0242533262 0.9751774 0.02818620
## 4              4 1196 -0.1001716704 0.8872977 0.02565687
## 5              5 1198 -0.0317108765 0.9671625 0.02794287
## 6              6 1196 -0.0453736018 0.9521534 0.02753223
## 7              7 1196 -0.0429910770 0.9548019 0.02760881
## 8              8 1196 -0.0644337995 0.9304744 0.02690536
## 9              9 1196 -0.0191658298 0.9805750 0.02835406
## 10            10 1190 -0.0531138039 0.9434583 0.02734949
## 11            11 1195 -0.0379150034 0.9604009 0.02778233
## 12            12 1196 -0.0286959287 0.9704182 0.02806037
## 13            13 1192 -0.0584934778 0.9373276 0.02714896
## 14            14 1192 -0.0632745174 0.9318198 0.02698944
## 15            15 1195 -0.0736827805 0.9196283 0.02660286
## 16            16 1195 -0.0808363359 0.9110863 0.02635576
## 17            17 1195  0.0145444028 1.0149694 0.02936088
## 18            18 1195 -0.0498375958 0.9471553 0.02739916
## 19            19 1197 -0.0266338605 0.9726324 0.02811264
## 20            20 1193 -0.0038521671 0.9964890 0.02885043
## 21            21 1196 -0.0167833051 0.9830834 0.02842659
## 22            22 1195  0.0026218105 1.0030694 0.02901663
## 23            23 1197 -0.0456781350 0.9518136 0.02751090
## 24            24 1192  0.0395178328 1.0390115 0.03009416
## 25            25 1197 -0.0647224095 0.9301389 0.02688442
## 26            26 1193 -0.0086291991 0.9915779 0.02870824
## 27            27 1198 -0.0317108765 0.9671625 0.02794287
## 28            28 1192 -0.0489313987 0.9481748 0.02746315
## 29            29 1197 -0.0171117233 0.9827380 0.02840473
## 30            30 1193 -0.0325143589 0.9662933 0.02797620
## 31            31 1196 -0.0120182556 0.9880638 0.02857060
## 32            32 1197 -0.0790056153 0.9132847 0.02639727
## 33            33 1195 -0.0093007818 0.9908829 0.02866411
## 34            34 1194 -0.0208978495 0.9787445 0.02832482
## 35            35 1196  0.0070419421 1.0075137 0.02913301
## 36            36 1191 -0.0605909532 0.9349186 0.02709056
## 37            37 1193  0.0057018968 1.0061714 0.02913075
## 38            38 1198 -0.0459821598 0.9514741 0.02748961
## 39            39 1196  0.0332497141 1.0330854 0.02987243
## 40            40 1192 -0.0035115231 0.9968378 0.02887263
## 41            41 1192  0.0036600362 1.0041179 0.02908350
## 42            42 1194 -0.0137383028 0.9862722 0.02854267
```

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## 43            43 1195  0.0002372920 1.0006553 0.02894680
## 44            44 1197  0.0114546884 1.0119118 0.02924796
## 45            45 1194  0.0148998838 1.0153203 0.02938332
## 46            46 1191  0.0327175969 1.0325809 0.02992046
## 47            47 1196  0.0284846646 1.0285330 0.02974080
## 48            48 1196  0.0094244669 1.0098933 0.02920182
## 49            49 1194 -0.0137383028 0.9862722 0.02854267
## 50            50 1195  0.0193134398 1.0196515 0.02949632
## 51            51 1196 -0.0858765220 0.9049851 0.02616832
## 52            52 1194  0.0101268527 1.0105933 0.02924652
## 53            53 1193  0.0415296366 1.0408976 0.03013615
## 54            54 1196  0.0141895163 1.0146189 0.02933846
## 55            55 1194  0.0005807905 1.0010042 0.02896901
## 56            56 1192  0.0036600362 1.0041179 0.02908350
## 57            57 1197 -0.0361559978 0.9623265 0.02781476
## 58            58 1197 -0.0028285174 0.9975339 0.02883239
## 59            59 1194  0.0411515549 1.0405433 0.03011327
## 60            60 1195  0.0193134398 1.0196515 0.02949632
## 61            61 1192  0.0419083526 1.0412523 0.03015906
## 62            62 1194  0.0220594305 1.0223279 0.02958612
## 63            63 1194  0.0316054927 1.0315200 0.02985214
## 64            64 1193 -0.0253488110 0.9740091 0.02819959
## 65            65 1195  0.0002372920 1.0006553 0.02894680
## 66            66 1195  0.0598502537 1.0577447 0.03059827
## 67            67 1193  0.0080904128 1.0085633 0.02920001
## 68            68 1197  0.0376405658 1.0372428 0.02998012
## 69            69 1193 -0.0062406831 0.9940393 0.02877951
## 70            70 1190  0.0067496324 1.0072231 0.02919794
## 71            71 1196  0.0046594174 1.0051228 0.02906388
## 72            72 1194  0.0244459460 1.0246420 0.02965309
## 73            73 1196  0.0141895163 1.0146189 0.02933846
## 74            74 1197  0.0162157571 1.0166146 0.02938389
## 75            75 1199  0.0487768602 1.0476308 0.03025510
## 76            76 1194 -0.0065787561 0.9936913 0.02875738
## 77            77 1198  0.0111029734 1.0115623 0.02922565
## 78            78 1196  0.0189545658 1.0193003 0.02947383
## 79            79 1192  0.0275652340 1.0276512 0.02976512
## 80            80 1196  0.0761351591 1.0722350 0.03100448
## 81            81 1194  0.0148998838 1.0153203 0.02938332
## 82            82 1189 -0.0192620125 0.9804759 0.02843453
## 83            83 1198  0.0634310123 1.0609683 0.03065307
## 84            84 1197  0.0233573600 1.0235867 0.02958541
## 85            85 1194  0.0125133683 1.0129624 0.02931508
## 86            86 1195  0.0693883276 1.0662860 0.03084535
## 87            87 1193  0.0606377644 1.0584565 0.03064452
## 88            88 1196  0.0666050602 1.0638091 0.03076084
## 89            89 1195  0.0574657353 1.0555851 0.03053580
## 90            90 1192  0.0514704317 1.0501129 0.03041570
## 91            91 1191 -0.0055628339 0.9947365 0.02882386
## 92            92 1196 -0.0024881567 0.9978817 0.02885449
## 93            93 1195 -0.0069162634 0.9933436 0.02873529
## 94            94 1188  0.0362338865 1.0359179 0.03005503
## 95            95 1193  0.0224215087 1.0226801 0.02960872
## 96            96 1192  0.0801566690 1.0757469 0.03115817
## 97            97 1193  0.0224215087 1.0226801 0.02960872
## 98            98 1194  0.1127470214 1.1032415 0.03192776
## 99            99 1192  0.0992808271 1.0920832 0.03163134
## 100          100 1192  0.0849377085 1.0798859 0.03127806
```

```
cat("\n")
```

```
attemptselfharmaverage
```

```
##     percentile75    N         mean        sd         se
## 1              1 1198 -0.048369710 0.8805950 0.02544180
## 2              2 1197 -0.077608702 0.7980836 0.02306754
## 3              3 1198  0.001940410 1.0048735 0.02903240
## 4              4 1195 -0.064781896 0.8354114 0.02416665
## 5              5 1198 -0.010637120 0.9755331 0.02818471
## 6              6 1199 -0.035935544 0.9131437 0.02637118
## 7              7 1196 -0.039704255 0.9034212 0.02612310
```

```
## 7              7 1196  0.039704259 0.9054212 0.02612510
## 8              8 1197  0.031487623 1.0700600 0.03092866
## 9              9 1197 -0.056628639 0.8581943 0.02480496
## 10            10 1193 -0.056122163 0.8595883 0.02488687
## 11            11 1195 -0.018548509 0.9565331 0.02767044
## 12            12 1199 -0.048502583 0.8802395 0.02542092
## 13            13 1195 -0.035360650 0.9146178 0.02645792
## 14            14 1197 -0.044040602 0.8920821 0.02578444
## 15            15 1195 -0.085797071 0.7732022 0.02236707
## 16            16 1195 -0.026954579 0.9358479 0.02707206
## 17            17 1198 -0.002252100 0.9952072 0.02875313
## 18            18 1196 -0.052302817 0.8700094 0.02515697
## 19            19 1196 -0.073300422 0.8108357 0.02344592
## 20            20 1195 -0.026954579 0.9358479 0.02707206
## 21            21 1194 -0.056249101 0.8592392 0.02486634
## 22            22 1194  0.048914781 1.1063395 0.03201741
## 23            23 1198 -0.019022140 0.9553805 0.02760247
## 24            24 1195  0.002466666 1.0060801 0.02910373
## 25            25 1196 -0.060701859 0.8468988 0.02448871
## 26            26 1196  0.002290954 1.0056774 0.02907991
## 27            27 1197 -0.023060539 0.9454950 0.02732827
## 28            28 1194 -0.043629435 0.8931653 0.02584816
## 29            29 1198 -0.006444610 0.9854282 0.02847060
## 30            30 1198 -0.023214650 0.9451151 0.02730589
## 31            31 1196 -0.043903775 0.8924427 0.02580565
## 32            32 1194 -0.047835990 0.8820217 0.02552567
## 33            33 1198 -0.031599670 0.9241852 0.02670119
## 34            34 1194 -0.035216324 0.9149874 0.02647969
## 35            35 1195 -0.001736369 0.9964033 0.02882380
## 36            36 1194 -0.043629435 0.8931653 0.02584816
## 37            37 1196 -0.027105692 0.9354709 0.02704984
## 38            38 1196 -0.027105692 0.9354709 0.02704984
## 39            39 1196  0.023288559 1.0524599 0.03043266
## 40            40 1194 -0.031009769 0.9256769 0.02678905
## 41            41 1191 -0.026347592 0.9373607 0.02716132
## 42            42 1197  0.039879648 1.0877157 0.03143897
## 43            43 1195 -0.026954579 0.9358479 0.02707206
## 44            44 1197 -0.027256552 0.9350943 0.02702765
## 45            45 1195 -0.010142439 0.9767079 0.02825405
## 46            46 1194  0.044708225 1.0977178 0.03176790
## 47            47 1196  0.035887121 1.0793605 0.03121051
## 48            48 1199  0.014332616 1.0328165 0.02982727
## 49            49 1197  0.006311548 1.0148355 0.02933247
## 50            50 1196 -0.006108087 0.9862180 0.02851723
## 51            51 1196 -0.018706650 0.9561484 0.02764774
## 52            52 1194  0.015262339 1.0348783 0.02994933
## 53            53 1197 -0.031452564 0.9245574 0.02672310
## 54            54 1195  0.031887912 1.0709110 0.03097914
## 55            55 1195  0.010872737 1.0251079 0.02965416
## 56            56 1192  0.019850025 1.0449727 0.03026682
## 57            57 1195  0.015075772 1.0344650 0.02992484
## 58            58 1194  0.023675449 1.0532992 0.03048243
## 59            59 1198  0.060635550 1.1299311 0.03264552
## 60            60 1197  0.014703573 1.0336398 0.02987598
## 61            61 1196  0.035887121 1.0793605 0.03121051
## 62            62 1199 -0.040124557 0.9023284 0.02605884
## 63            63 1198  0.035480490 1.0785043 0.03115971
## 64            64 1195  0.002466666 1.0060801 0.02910373
## 65            65 1196  0.027488080 1.0615191 0.03069462
## 66            66 1195  0.057106123 1.1228928 0.03248287
## 67            67 1195  0.023481842 1.0528793 0.03045753
## 68            68 1196 -0.048103296 0.8813075 0.02548366
## 69            69 1192  0.007209185 1.0168686 0.02945281
## 70            70 1191 -0.047433348 0.8830962 0.02558893
## 71            71 1198  0.022902960 1.0516226 0.03038306
## 72            72 1197  0.006311548 1.0148355 0.02933247
## 73            73 1195  0.027684877 1.0619417 0.03071968
## 74            74 1196  0.002290954 1.0056774 0.02907991
## 75            75 1196  0.006490475 1.0152412 0.02935646
## 76            76 1196  0.035887121 1.0793605 0.03121051
## 77            77 1197  0.027291611 1.0610970 0.03066959
## 78            78 1196  0.040086642 1.0881471 0.03146459
## 79            79 1195  0.044497018 1.0972823 0.03174201
```

```
## 80            80 1197  0.023095598 1.0520410 0.03040784
## 81            81 1192  0.019850025 1.0449727 0.03026682
## 82            82 1196  0.010689996 1.0246984 0.02962992
## 83            83 1197  0.060859711 1.1303767 0.03267203
## 84            84 1196  0.002290954 1.0056774 0.02907991
## 85            85 1196  0.023288559 1.0524599 0.03043266
## 86            86 1195  0.082324334 1.1720295 0.03390429
## 87            87 1196 -0.001908567 0.9960041 0.02880020
## 88            88 1196  0.065283767 1.1391197 0.03293850
## 89            89 1193  0.028079462 1.0627884 0.03076994
## 90            90 1193  0.040709706 1.0894445 0.03154168
## 91            91 1196 -0.001908567 0.9960041 0.02880020
## 92            92 1198 -0.031599670 0.9241852 0.02670119
## 93            93 1193 -0.001391107 0.9972031 0.02887110
## 94            94 1191  0.032692524 1.0726191 0.03108062
## 95            95 1196  0.086281372 1.1795045 0.03410625
## 96            96 1194  0.036295115 1.0802187 0.03126148
## 97            97 1196  0.077882330 1.1635643 0.03364533
## 98            98 1194  0.044708225 1.0977178 0.03176790
## 99            99 1197  0.060859711 1.1303767 0.03267203
## 100          100 1192  0.104122289 1.2124775 0.03511847
```

Plots based on percentile for each score item

```
multiplot <- function(..., plotlist=NULL, file, cols=1, layout=NULL) {
  library(grid)

  # Make a list from the ... arguments and plotlist
  plots <- c(list(...), plotlist)

  numPlots = length(plots)

  # If layout is NULL, then use 'cols' to determine layout
  if (is.null(layout)) {
    # Make the panel
    # ncol: Number of columns of plots
    # nrow: Number of rows needed, calculated from # of cols
    layout <- matrix(seq(1, cols * ceiling(numPlots/cols)),
                     ncol = cols, nrow = ceiling(numPlots/cols))
  }

 if (numPlots==1) {
    print(plots[[1]])

  } else {
    # Set up the page
    grid.newpage()
    pushViewport(viewport(layout = grid.layout(nrow(layout), ncol(layout))))

    # Make each plot, in the correct location
    for (i in 1:numPlots) {
      # Get the i,j matrix positions of the regions that contain this subplot
      matchidx <- as.data.frame(which(layout == i, arr.ind = TRUE))

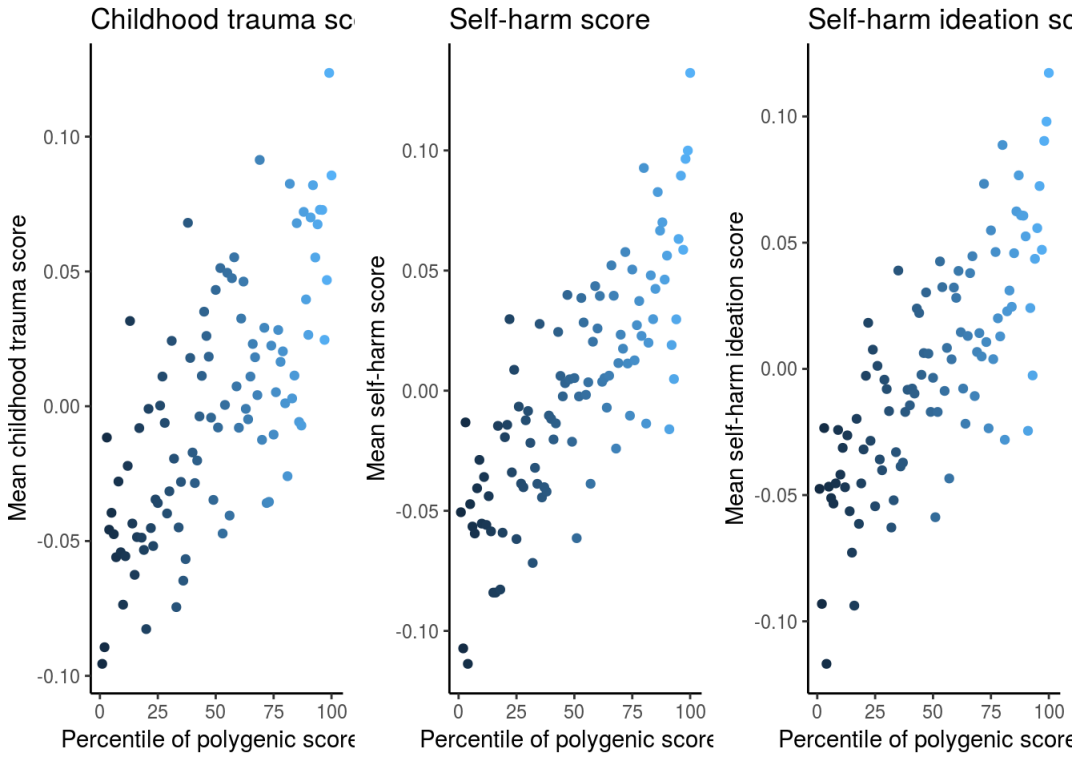
      print(plots[[i]], vp = viewport(layout.pos.row = matchidx$row,
                                      layout.pos.col = matchidx$col))
    }
  }
}

childtraumaplot = ggplot(na.omit(childtraumasumaverage), aes(x=percentile100, y=mean)) + geom_point(aes(col
= percentile100))  + xlab ("Percentile of polygenic scores") + ylab ("Mean childhood trauma score") + theme_
classic()+ guides(colour = FALSE) + ggtitle("Childhood trauma score")

selfharmscoreplot = ggplot(na.omit(selfharmscoreaverage), aes(x=percentile75, y=mean)) + geom_point(aes(col
= percentile75))  + xlab ("Percentile of polygenic scores") + ylab ("Mean self-harm score") + theme_classic(
)+ guides(colour = FALSE) + ggtitle ("Self-harm score")

selfharmideationplot = ggplot(na.omit(selfharmideationaverage), aes(x=percentile75, y=mean)) + geom_point(ae
s(col = percentile75))  + xlab ("Percentile of polygenic scores") + ylab ("Mean self-harm ideation score") +
theme_classic() + guides(colour = FALSE) + ggtitle("Self-harm ideation score")

multiplot(childtraumaplot, selfharmscoreplot, selfharmideationplot, cols = 3)
```



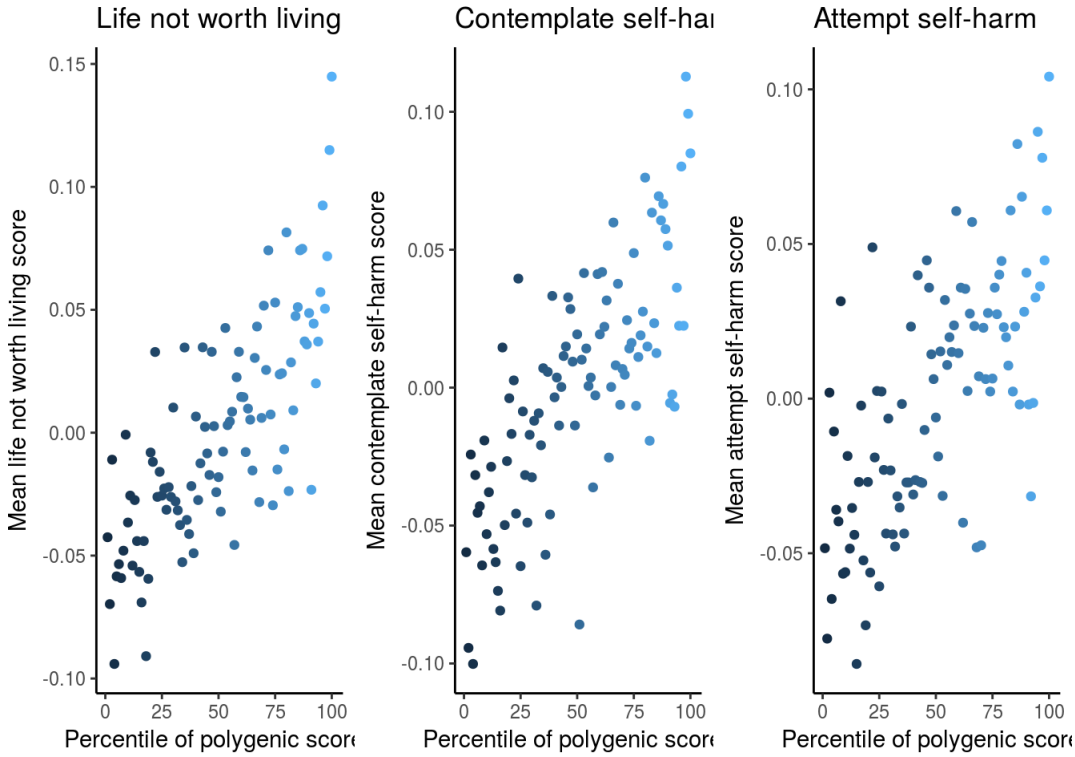
Plots based on percentile for each individual item

```
lifenotlivingplot = ggplot(na.omit(lifenotworthlivingaverage), aes(x=percentile75, y=mean)) + geom_point(aes
(col = percentile75))  + xlab ("Percentile of polygenic scores") + ylab ("Mean life not worth living score")
+ theme_classic()+ guides(colour = FALSE) + ggtitle("Life not worth living")

contemplateselfharmplot = ggplot(na.omit(contemplateselfharmaverage), aes(x=percentile75, y=mean)) + geom_po
int(aes(col = percentile75))  + xlab ("Percentile of polygenic scores") + ylab ("Mean contemplate self-harm
score") + theme_classic()+ guides(colour = FALSE) + ggtitle ("Contemplate self-harm")

attemptselfharmplot = ggplot(na.omit(attemptselfharmaverage), aes(x=percentile75, y=mean)) + geom_point(aes(
col = percentile75))  + xlab ("Percentile of polygenic scores") + ylab ("Mean attempt self-harm score") + th
eme_classic() + guides(colour = FALSE) + ggtitle("Attempt self-harm")

multiplot(lifenotlivingplot, contemplateselfharmplot, attemptselfharmplot, cols = 3)
```



```
cat("\n")
```

```
felthatedplot = ggplot(na.omit(felthatedaverage), aes(x=percentile100, y=mean)) + geom_point(aes(col = perce
ntile100))  + xlab ("Percentile of polygenic scores") + ylab ("Mean felt hated score") + theme_classic()+ gu
ides(colour = FALSE) + ggtitle("Felt hated")

feltlovedplot = ggplot(na.omit(feltlovedaverage), aes(x=percentile100, y=mean)) + geom_point(aes(col = perce
ntile100))  + xlab ("Percentile of polygenic scores") + ylab ("Mean felt loved (inv.) score") + theme_classi
c()+ guides(colour = FALSE) + ggtitle ("Felt loved (inv.)")

physicalabuseplot = ggplot(na.omit(physicalabuseaverage), aes(x=percentile100, y=mean)) + geom_point(aes(col
= percentile100))  + xlab ("Percentile of polygenic scores") + ylab ("Mean physical abuse score") + theme_cl
assic() + guides(colour = FALSE) + ggtitle("Physical abuse")

multiplot(felthatedplot, feltlovedplot, physicalabuseplot, cols = 3)
```