Autism_PGS_vulnerability

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08/10/2018

R Markdown

Read the file and the required packages

```
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/autismpgsanxietydataset.RData")

merged = merged3
rm(merged3)
```

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 srs satisfaction scale
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 satsifaction
merged$family[merged$family<0]<- NA #family satisfaction

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)
```

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.22009.0.5 + 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.22009.0.5 + 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
## -1.1636 -0.6968 -0.2960  0.2401  7.9886
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.0586072  0.7460754 -12.142  < 2e-16 ***
## f.22009.0.1     0.0028120  0.0030101   0.934 0.350195
## f.22009.0.2    -0.0058472  0.0029371  -1.991 0.046501 *
## f.22009.0.3     0.0032742  0.0029710   1.102 0.270437
## f.22009.0.5     0.0370044  0.0031506  11.745  < 2e-16 ***
## f.22009.0.6     0.0002046  0.0029822   0.069 0.945300
## f.22009.0.7    -0.0096372  0.0030281  -3.183 0.001460 **
## f.22009.0.8     0.0084503  0.0032202   2.624 0.008687 **
## f.22009.0.9     0.0075912  0.0030583   2.482 0.013061 *
## f.22009.0.10   -0.0045342  0.0035085  -1.292 0.196239
## f.22009.0.11    0.0158405  0.0040840   3.879 0.000105 ***
## f.22009.0.12   -0.0051569  0.0035992  -1.433 0.151916
## f.22009.0.13   -0.0037439  0.0029291  -1.278 0.201195
## f.22009.0.14   -0.0405381  0.0030953 -13.097  < 2e-16 ***
## f.22009.0.15    0.0016896  0.0031715   0.533 0.594211
## f.22009.0.16   -0.0173118  0.0031107  -5.565 2.62e-08 ***
## f.22009.0.17   -0.0050655  0.0028893  -1.753 0.079570 .
## f.22009.0.18    0.0086446  0.0028962   2.985 0.002838 **
## f.22009.0.19   -0.0008336  0.0028845  -0.289 0.772577
## f.22009.0.20    0.0045869  0.0028897   1.587 0.112441
## f.22001.0.01   -0.0719294  0.0058261 -12.346  < 2e-16 ***
## f.34.0.0        0.0046579  0.0003818  12.200  < 2e-16 ***
## f.22000.0.0-1   0.1104125  0.0407565   2.709 0.006748 **
## f.22000.0.010  -0.0763124  0.0411948  -1.852 0.063960 .
## f.22000.0.0-10  0.0303447  0.0414234   0.733 0.463834
## f.22000.0.011  -0.0280244  0.0405142  -0.692 0.489116
## f.22000.0.0-11  0.1002943  0.0410614   2.443 0.014586 *
## f.22000.0.012  -0.0460163  0.0408001  -1.128 0.259386
## f.22000.0.013  -0.0214736  0.0406642  -0.528 0.597451
## f.22000.0.014  -0.0237068  0.0403972  -0.587 0.557311
## f.22000.0.015   0.0184858  0.0406565   0.455 0.649338
## f.22000.0.016   0.0154292  0.0408816   0.377 0.705869
## f.22000.0.017   0.0088512  0.0404722   0.219 0.826885
## f.22000.0.018   0.0155944  0.0409145   0.381 0.703096
## f.22000.0.019  -0.0032772  0.0401405  -0.082 0.934931
## f.22000.0.02   -0.0043810  0.0402777  -0.109 0.913385
## f.22000.0.0-2   0.0562990  0.0409931   1.373 0.169638
## f.22000.0.020  -0.0119987  0.0407804  -0.294 0.768586
## f.22000.0.021  -0.0127264  0.0407088  -0.313 0.754569
## f.22000.0.022   0.0334914  0.0406579   0.824 0.410091
## f.22000.0.023   0.0251608  0.0406463   0.619 0.535905
## f.22000.0.024  -0.0271725  0.0401079  -0.677 0.498099
## f.22000.0.025  -0.0426294  0.0411553  -1.036 0.300289
## f.22000.0.026  -0.0279192  0.0409012  -0.683 0.494861
## f.22000.0.027  -0.0495197  0.0402296  -1.231 0.218353
## f.22000.0.028   0.0213772  0.0406302   0.526 0.598791
## f.22000.0.029   0.0196718  0.0403800   0.487 0.626142
## f.22000.0.03    0.0046684  0.0402860   0.116 0.907746
```

```
## f.22000.0.05    0.0046684  0.0402860   0.116 0.907746
## f.22000.0.0-3   0.0444915  0.0405944   1.096 0.273081
## f.22000.0.030  -0.0389577  0.0403799  -0.965 0.334658
## f.22000.0.031   0.0302170  0.0405091   0.746 0.455710
## f.22000.0.032   0.0151084  0.0407011   0.371 0.710485
## f.22000.0.033   0.0167578  0.0414223   0.405 0.685803
## f.22000.0.034   0.0616951  0.0404616   1.525 0.127317
## f.22000.0.035  -0.0028263  0.0405498  -0.070 0.944433
## f.22000.0.036   0.0132588  0.0402529   0.329 0.741864
## f.22000.0.037  -0.0264930  0.0408558  -0.648 0.516695
## f.22000.0.038   0.0264143  0.0407275   0.649 0.516623
## f.22000.0.039  -0.0134513  0.0411737  -0.327 0.743898
## f.22000.0.04   -0.0183003  0.0410328  -0.446 0.655603
## f.22000.0.0-4   0.1063945  0.0412349   2.580 0.009875 **
## f.22000.0.040   0.0215738  0.0406573   0.531 0.595679
## f.22000.0.041  -0.0350147  0.0412621  -0.849 0.396110
## f.22000.0.042  -0.0298448  0.0405852  -0.735 0.462120
## f.22000.0.043  -0.0136198  0.0413131  -0.330 0.741648
## f.22000.0.044  -0.0484324  0.0408544  -1.185 0.235826
## f.22000.0.045  -0.0054813  0.0408830  -0.134 0.893346
## f.22000.0.046  -0.0246593  0.0411074  -0.600 0.548591
## f.22000.0.047  -0.0430758  0.0411355  -1.047 0.295023
## f.22000.0.048   0.0187566  0.0410529   0.457 0.647751
## f.22000.0.049  -0.0245746  0.0410704  -0.598 0.549605
## f.22000.0.05   -0.0693615  0.0403689  -1.718 0.085764 .
## f.22000.0.0-5   0.0848744  0.0407906   2.081 0.037460 *
## f.22000.0.050   0.0407691  0.0411548   0.991 0.321869
## f.22000.0.051   0.0238786  0.0405170   0.589 0.555629
## f.22000.0.052  -0.0328370  0.0412438  -0.796 0.425936
## f.22000.0.053  -0.0449266  0.0409554  -1.097 0.272659
## f.22000.0.054  -0.0121091  0.0410606  -0.295 0.768064
## f.22000.0.055   0.0045196  0.0414018   0.109 0.913073
## f.22000.0.056  -0.0476694  0.0410414  -1.161 0.245443
## f.22000.0.057  -0.0078695  0.0412547  -0.191 0.848718
## f.22000.0.058  -0.0470737  0.0410504  -1.147 0.251496
## f.22000.0.059   0.0075716  0.0408902   0.185 0.853097
## f.22000.0.06   -0.0135479  0.0402196  -0.337 0.736232
## f.22000.0.0-6   0.0547639  0.0411175   1.332 0.182900
## f.22000.0.060  -0.0450382  0.0413013  -1.090 0.275505
## f.22000.0.061   0.0447855  0.0415317   1.078 0.280882
## f.22000.0.062  -0.0086978  0.0414018  -0.210 0.833604
## f.22000.0.063   0.0046122  0.0414000   0.111 0.911294
## f.22000.0.064  -0.0033302  0.0410398  -0.081 0.935326
## f.22000.0.065   0.0015529  0.0412834   0.038 0.969994
## f.22000.0.066  -0.0021946  0.0416990  -0.053 0.958027
## f.22000.0.067  -0.0157892  0.0412611  -0.383 0.701969
## f.22000.0.068   0.0207319  0.0412417   0.503 0.615181
## f.22000.0.069  -0.0052613  0.0413006  -0.127 0.898632
## f.22000.0.07    0.0099233  0.0405352   0.245 0.806606
## f.22000.0.0-7   0.0096872  0.0409018   0.237 0.812782
## f.22000.0.070   0.0299551  0.0412931   0.725 0.468192
## f.22000.0.071  -0.0239822  0.0410890  -0.584 0.559447
## f.22000.0.072  -0.0014331  0.0413420  -0.035 0.972347
## f.22000.0.073   0.0075200  0.0413726   0.182 0.855769
## f.22000.0.074  -0.0300835  0.0415117  -0.725 0.468638
## f.22000.0.075   0.0136286  0.0411358   0.331 0.740412
## f.22000.0.076  -0.0419072  0.0415537  -1.009 0.313214
## f.22000.0.077  -0.0595124  0.0413203  -1.440 0.149793
## f.22000.0.078  -0.0326918  0.0410800  -0.796 0.426145
## f.22000.0.079  -0.0346335  0.0409935  -0.845 0.398195
## f.22000.0.08    0.0022532  0.0404977   0.056 0.955630
## f.22000.0.0-8   0.0518224  0.0410512   1.262 0.206813
## f.22000.0.080  -0.0086413  0.0414630  -0.208 0.834909
## f.22000.0.081  -0.0065943  0.0419121  -0.157 0.874980
## f.22000.0.082  -0.0405024  0.0414203  -0.978 0.328156
## f.22000.0.083  -0.0317237  0.0415245  -0.764 0.444883
## f.22000.0.084   0.0106195  0.0415340   0.256 0.798197
## f.22000.0.085   0.0507759  0.0413696   1.227 0.219686
## f.22000.0.086   0.0056913  0.0414920   0.137 0.890900
## f.22000.0.087  -0.0910911  0.0414818  -2.196 0.028099 *
## f.22000.0.088  -0.0222125  0.0421906  -0.526 0.598556
## f.22000.0.089   0.0006102  0.0419145   0.015 0.988385
## f.22000.0.09   -0.0260277  0.0402787  -0.646 0.518158
```

```
## f.22000.0.0-9   0.0612620  0.0410693   1.492 0.135787
## f.22000.0.090   0.0162003  0.0414532   0.391 0.695938
## f.22000.0.091   0.0083649  0.0428556   0.195 0.845247
## f.22000.0.092  -0.0050677  0.0416053  -0.122 0.903054
## f.22000.0.093   0.0073754  0.0415461   0.178 0.859098
## f.22000.0.094   0.0240753  0.0531166   0.453 0.650366
## f.22000.0.095  -0.0208334  0.0442845  -0.470 0.638038
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9967 on 119408 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.007651,   Adjusted R-squared:  0.006604
## F-statistic: 7.306 on 126 and 119408 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1637 -0.6952 -0.2970  0.2452  7.9686
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.045e+00  7.458e-01 -12.128  < 2e-16 ***
## `1.000000`      2.864e-02  2.884e-03   9.931  < 2e-16 ***
## f.22009.0.1     2.597e-03  3.009e-03   0.863 0.388156
## f.22009.0.2    -5.736e-03  2.936e-03  -1.954 0.050714 .
## f.22009.0.3     3.385e-03  2.970e-03   1.140 0.254407
## f.22009.0.5     3.626e-02  3.150e-03  11.511  < 2e-16 ***
## f.22009.0.6     6.216e-05  2.981e-03   0.021 0.983363
## f.22009.0.7    -9.370e-03  3.027e-03  -3.096 0.001965 **
## f.22009.0.8     8.542e-03  3.219e-03   2.654 0.007964 **
## f.22009.0.9     7.613e-03  3.057e-03   2.490 0.012770 *
## f.22009.0.10   -4.496e-03  3.507e-03  -1.282 0.199863
## f.22009.0.11    1.543e-02  4.083e-03   3.779 0.000157 ***
## f.22009.0.12   -5.226e-03  3.598e-03  -1.453 0.146306
## f.22009.0.13   -3.764e-03  2.928e-03  -1.286 0.198578
## f.22009.0.14   -4.019e-02  3.094e-03 -12.988  < 2e-16 ***
## f.22009.0.15    1.710e-03  3.170e-03   0.539 0.589648
## f.22009.0.16   -1.737e-02  3.109e-03  -5.586 2.33e-08 ***
## f.22009.0.17   -4.963e-03  2.888e-03  -1.718 0.085740 .
## f.22009.0.18    8.775e-03  2.895e-03   3.031 0.002437 **
## f.22009.0.19   -9.290e-04  2.883e-03  -0.322 0.747309
## f.22009.0.20    4.334e-03  2.889e-03   1.500 0.133548
## f.22001.0.01   -7.141e-02  5.824e-03 -12.261  < 2e-16 ***
## f.34.0.0        4.651e-03  3.816e-04  12.187  < 2e-16 ***
## f.22000.0.0-1   1.112e-01  4.074e-02   2.729 0.006358 **
## f.22000.0.010  -7.632e-02  4.118e-02  -1.853 0.063831 .
## f.22000.0.0-10  3.169e-02  4.141e-02   0.765 0.444019
## f.22000.0.011  -2.810e-02  4.050e-02  -0.694 0.487737
## f.22000.0.0-11  9.988e-02  4.104e-02   2.434 0.014953 *
## f.22000.0.012  -4.597e-02  4.078e-02  -1.127 0.259719
## f.22000.0.013  -2.001e-02  4.065e-02  -0.492 0.622560
## f.22000.0.014  -2.307e-02  4.038e-02  -0.571 0.567789
## f.22000.0.015   1.880e-02  4.064e-02   0.463 0.643718
## f.22000.0.016   1.605e-02  4.086e-02   0.393 0.694482
## f.22000.0.017   8.358e-03  4.046e-02   0.207 0.836321
## f.22000.0.018   1.535e-02  4.090e-02   0.375 0.707451
## f.22000.0.019  -1.830e-03  4.012e-02  -0.046 0.963629
```

```
## f.22000.0.019  -1.850e-03  4.012e-02  -0.046 0.963029
## f.22000.0.02   -4.689e-03  4.026e-02  -0.116 0.907281
## f.22000.0.0-2   5.595e-02  4.098e-02   1.365 0.172119
## f.22000.0.020  -1.141e-02  4.076e-02  -0.280 0.779642
## f.22000.0.021  -1.260e-02  4.069e-02  -0.310 0.756847
## f.22000.0.022   3.400e-02  4.064e-02   0.837 0.402792
## f.22000.0.023   2.524e-02  4.063e-02   0.621 0.534384
## f.22000.0.024  -2.695e-02  4.009e-02  -0.672 0.501527
## f.22000.0.025  -4.305e-02  4.114e-02  -1.047 0.295327
## f.22000.0.026  -2.608e-02  4.088e-02  -0.638 0.523570
## f.22000.0.027  -4.961e-02  4.021e-02  -1.234 0.217319
## f.22000.0.028   2.192e-02  4.061e-02   0.540 0.589424
## f.22000.0.029   1.927e-02  4.036e-02   0.477 0.633073
## f.22000.0.03    5.125e-03  4.027e-02   0.127 0.898728
## f.22000.0.0-3   4.425e-02  4.058e-02   1.091 0.275462
## f.22000.0.030  -3.928e-02  4.036e-02  -0.973 0.330434
## f.22000.0.031   2.946e-02  4.049e-02   0.727 0.466946
## f.22000.0.032   1.476e-02  4.068e-02   0.363 0.716738
## f.22000.0.033   1.670e-02  4.141e-02   0.403 0.686645
## f.22000.0.034   6.165e-02  4.045e-02   1.524 0.127423
## f.22000.0.035  -2.629e-03  4.053e-02  -0.065 0.948288
## f.22000.0.036   1.278e-02  4.024e-02   0.318 0.750696
## f.22000.0.037  -2.584e-02  4.084e-02  -0.633 0.526968
## f.22000.0.038   2.727e-02  4.071e-02   0.670 0.502969
## f.22000.0.039  -1.437e-02  4.116e-02  -0.349 0.726981
## f.22000.0.04   -1.813e-02  4.102e-02  -0.442 0.658410
## f.22000.0.0-4   1.062e-01  4.122e-02   2.576 0.010011 *
## f.22000.0.040   2.243e-02  4.064e-02   0.552 0.581022
## f.22000.0.041  -3.382e-02  4.125e-02  -0.820 0.412279
## f.22000.0.042  -2.993e-02  4.057e-02  -0.738 0.460711
## f.22000.0.043  -1.342e-02  4.130e-02  -0.325 0.745248
## f.22000.0.044  -4.715e-02  4.084e-02  -1.155 0.248293
## f.22000.0.045  -6.575e-03  4.087e-02  -0.161 0.872179
## f.22000.0.046  -2.664e-02  4.109e-02  -0.648 0.516781
## f.22000.0.047  -4.197e-02  4.112e-02  -1.021 0.307400
## f.22000.0.048   2.085e-02  4.104e-02   0.508 0.611422
## f.22000.0.049  -2.367e-02  4.105e-02  -0.577 0.564220
## f.22000.0.05   -6.803e-02  4.035e-02  -1.686 0.091802 .
## f.22000.0.0-5   8.626e-02  4.077e-02   2.116 0.034381 *
## f.22000.0.050   4.166e-02  4.114e-02   1.013 0.311198
## f.22000.0.051   2.461e-02  4.050e-02   0.608 0.543411
## f.22000.0.052  -3.218e-02  4.123e-02  -0.781 0.435079
## f.22000.0.053  -4.418e-02  4.094e-02  -1.079 0.280505
## f.22000.0.054  -1.225e-02  4.104e-02  -0.298 0.765354
## f.22000.0.055   3.354e-03  4.139e-02   0.081 0.935414
## f.22000.0.056  -4.641e-02  4.102e-02  -1.131 0.257967
## f.22000.0.057  -7.898e-03  4.124e-02  -0.192 0.848108
## f.22000.0.058  -4.622e-02  4.103e-02  -1.126 0.259967
## f.22000.0.059   7.301e-03  4.087e-02   0.179 0.858232
## f.22000.0.06   -1.385e-02  4.020e-02  -0.344 0.730524
## f.22000.0.0-6   5.472e-02  4.110e-02   1.331 0.183110
## f.22000.0.060  -4.457e-02  4.128e-02  -1.080 0.280358
## f.22000.0.061   4.425e-02  4.151e-02   1.066 0.286500
## f.22000.0.062  -9.927e-03  4.139e-02  -0.240 0.810438
## f.22000.0.063   4.581e-03  4.138e-02   0.111 0.911856
## f.22000.0.064  -2.842e-03  4.102e-02  -0.069 0.944773
## f.22000.0.065   1.645e-03  4.127e-02   0.040 0.968195
## f.22000.0.066  -1.140e-03  4.168e-02  -0.027 0.978176
## f.22000.0.067  -1.499e-02  4.124e-02  -0.364 0.716218
## f.22000.0.068   2.108e-02  4.122e-02   0.511 0.609105
## f.22000.0.069  -3.885e-03  4.128e-02  -0.094 0.925022
## f.22000.0.07    1.042e-02  4.052e-02   0.257 0.797074
## f.22000.0.0-7   1.068e-02  4.089e-02   0.261 0.793834
## f.22000.0.070   2.892e-02  4.128e-02   0.701 0.483476
## f.22000.0.071  -2.517e-02  4.107e-02  -0.613 0.540061
## f.22000.0.072  -2.924e-03  4.133e-02  -0.071 0.943592
## f.22000.0.073   8.615e-03  4.136e-02   0.208 0.834984
## f.22000.0.074  -2.999e-02  4.149e-02  -0.723 0.469857
## f.22000.0.075   1.296e-02  4.112e-02   0.315 0.752661
## f.22000.0.076  -4.317e-02  4.154e-02  -1.039 0.298613
## f.22000.0.077  -5.833e-02  4.130e-02  -1.412 0.157919
## f.22000.0.078  -3.119e-02  4.106e-02  -0.760 0.447536
## f.22000.0.079  -3.606e-02  4.098e-02  -0.880 0.378799
```

```
## f.22000.0.08    8.301e-04  4.048e-02   0.021 0.983639
## f.22000.0.0-8   5.227e-02  4.103e-02   1.274 0.202708
## f.22000.0.080  -8.602e-03  4.145e-02  -0.208 0.835577
## f.22000.0.081  -6.087e-03  4.190e-02  -0.145 0.884473
## f.22000.0.082  -4.103e-02  4.140e-02  -0.991 0.321680
## f.22000.0.083  -3.097e-02  4.151e-02  -0.746 0.455557
## f.22000.0.084   9.071e-03  4.152e-02   0.218 0.827048
## f.22000.0.085   4.929e-02  4.135e-02   1.192 0.233294
## f.22000.0.086   6.339e-03  4.148e-02   0.153 0.878530
## f.22000.0.087  -9.174e-02  4.146e-02  -2.213 0.026930 *
## f.22000.0.088  -2.235e-02  4.217e-02  -0.530 0.596206
## f.22000.0.089  -8.131e-04  4.190e-02  -0.019 0.984517
## f.22000.0.09   -2.545e-02  4.026e-02  -0.632 0.527294
## f.22000.0.0-9   6.225e-02  4.105e-02   1.516 0.129410
## f.22000.0.090   1.624e-02  4.144e-02   0.392 0.695112
## f.22000.0.091   9.933e-03  4.284e-02   0.232 0.816643
## f.22000.0.092  -5.871e-03  4.159e-02  -0.141 0.887741
## f.22000.0.093   6.987e-03  4.153e-02   0.168 0.866394
## f.22000.0.094   2.521e-02  5.309e-02   0.475 0.634984
## f.22000.0.095  -2.157e-02  4.427e-02  -0.487 0.626027
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.00847,    Adjusted R-squared:  0.007415
## F-statistic: 8.031 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1621 -0.6951 -0.2969  0.2450  7.9693
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.045e+00  7.458e-01 -12.128  < 2e-16 ***
## `0.750000`      2.851e-02  2.884e-03   9.883  < 2e-16 ***
## f.22009.0.1     2.595e-03  3.009e-03   0.863 0.388384
## f.22009.0.2    -5.738e-03  2.936e-03  -1.955 0.050639 .
## f.22009.0.3     3.385e-03  2.970e-03   1.140 0.254324
## f.22009.0.5     3.627e-02  3.150e-03  11.515  < 2e-16 ***
## f.22009.0.6     6.201e-05  2.981e-03   0.021 0.983404
## f.22009.0.7    -9.369e-03  3.027e-03  -3.095 0.001968 **
## f.22009.0.8     8.549e-03  3.219e-03   2.656 0.007908 **
## f.22009.0.9     7.603e-03  3.057e-03   2.487 0.012889 *
## f.22009.0.10   -4.491e-03  3.507e-03  -1.280 0.200385
## f.22009.0.11    1.543e-02  4.083e-03   3.778 0.000158 ***
## f.22009.0.12   -5.227e-03  3.598e-03  -1.453 0.146238
## f.22009.0.13   -3.760e-03  2.928e-03  -1.284 0.199132
## f.22009.0.14   -4.020e-02  3.094e-03 -12.991  < 2e-16 ***
## f.22009.0.15    1.710e-03  3.170e-03   0.539 0.589684
## f.22009.0.16   -1.737e-02  3.109e-03  -5.587 2.32e-08 ***
## f.22009.0.17   -4.963e-03  2.888e-03  -1.718 0.085729 .
## f.22009.0.18    8.771e-03  2.895e-03   3.030 0.002448 **
## f.22009.0.19   -9.255e-04  2.883e-03  -0.321 0.748229
## f.22009.0.20    4.339e-03  2.889e-03   1.502 0.133073
## f.22001.0.01   -7.140e-02  5.824e-03 -12.260  < 2e-16 ***
## f.34.0.0        4.651e-03  3.816e-04  12.186  < 2e-16 ***
```

```
## f.54.0.0        4.651e-03  3.810e-04  12.186  < 2e-16 ***
## f.22000.0.0-1   1.111e-01  4.074e-02   2.728 0.006374 **
## f.22000.0.010  -7.634e-02  4.118e-02  -1.854 0.063758 .
## f.22000.0.0-10  3.167e-02  4.141e-02   0.765 0.444338
## f.22000.0.011  -2.812e-02  4.050e-02  -0.694 0.487529
## f.22000.0.0-11  9.989e-02  4.104e-02   2.434 0.014944 *
## f.22000.0.012  -4.598e-02  4.078e-02  -1.127 0.259554
## f.22000.0.013  -2.004e-02  4.065e-02  -0.493 0.622028
## f.22000.0.014  -2.308e-02  4.038e-02  -0.572 0.567639
## f.22000.0.015   1.874e-02  4.064e-02   0.461 0.644745
## f.22000.0.016   1.599e-02  4.087e-02   0.391 0.695526
## f.22000.0.017   8.308e-03  4.046e-02   0.205 0.837298
## f.22000.0.018   1.533e-02  4.090e-02   0.375 0.707743
## f.22000.0.019  -1.854e-03  4.012e-02  -0.046 0.963140
## f.22000.0.02   -4.719e-03  4.026e-02  -0.117 0.906688
## f.22000.0.0-2   5.592e-02  4.098e-02   1.365 0.172341
## f.22000.0.020  -1.146e-02  4.076e-02  -0.281 0.778568
## f.22000.0.021  -1.264e-02  4.069e-02  -0.311 0.756081
## f.22000.0.022   3.396e-02  4.064e-02   0.836 0.403419
## f.22000.0.023   2.521e-02  4.063e-02   0.621 0.534870
## f.22000.0.024  -2.695e-02  4.009e-02  -0.672 0.501397
## f.22000.0.025  -4.307e-02  4.114e-02  -1.047 0.295166
## f.22000.0.026  -2.612e-02  4.089e-02  -0.639 0.522841
## f.22000.0.027  -4.965e-02  4.021e-02  -1.235 0.216992
## f.22000.0.028   2.196e-02  4.061e-02   0.541 0.588693
## f.22000.0.029   1.924e-02  4.036e-02   0.477 0.633639
## f.22000.0.03    5.093e-03  4.027e-02   0.126 0.899350
## f.22000.0.0-3   4.424e-02  4.058e-02   1.090 0.275637
## f.22000.0.030  -3.927e-02  4.036e-02  -0.973 0.330591
## f.22000.0.031   2.947e-02  4.049e-02   0.728 0.466731
## f.22000.0.032   1.472e-02  4.068e-02   0.362 0.717509
## f.22000.0.033   1.673e-02  4.141e-02   0.404 0.686263
## f.22000.0.034   6.162e-02  4.045e-02   1.524 0.127617
## f.22000.0.035  -2.624e-03  4.053e-02  -0.065 0.948392
## f.22000.0.036   1.279e-02  4.024e-02   0.318 0.750658
## f.22000.0.037  -2.587e-02  4.084e-02  -0.634 0.526377
## f.22000.0.038   2.730e-02  4.071e-02   0.671 0.502526
## f.22000.0.039  -1.439e-02  4.116e-02  -0.350 0.726664
## f.22000.0.04   -1.811e-02  4.102e-02  -0.442 0.658796
## f.22000.0.0-4   1.062e-01  4.122e-02   2.576 0.009992 **
## f.22000.0.040   2.239e-02  4.064e-02   0.551 0.581726
## f.22000.0.041  -3.383e-02  4.125e-02  -0.820 0.412065
## f.22000.0.042  -2.992e-02  4.057e-02  -0.737 0.460834
## f.22000.0.043  -1.338e-02  4.130e-02  -0.324 0.745874
## f.22000.0.044  -4.714e-02  4.084e-02  -1.154 0.248328
## f.22000.0.045  -6.581e-03  4.087e-02  -0.161 0.872060
## f.22000.0.046  -2.666e-02  4.109e-02  -0.649 0.516400
## f.22000.0.047  -4.202e-02  4.112e-02  -1.022 0.306864
## f.22000.0.048   2.079e-02  4.104e-02   0.507 0.612467
## f.22000.0.049  -2.370e-02  4.105e-02  -0.577 0.563684
## f.22000.0.05   -6.804e-02  4.035e-02  -1.686 0.091762 .
## f.22000.0.0-5   8.629e-02  4.077e-02   2.116 0.034328 *
## f.22000.0.050   4.165e-02  4.114e-02   1.012 0.311364
## f.22000.0.051   2.459e-02  4.050e-02   0.607 0.543764
## f.22000.0.052  -3.218e-02  4.123e-02  -0.781 0.435049
## f.22000.0.053  -4.420e-02  4.094e-02  -1.080 0.280268
## f.22000.0.054  -1.228e-02  4.104e-02  -0.299 0.764741
## f.22000.0.055   3.324e-03  4.139e-02   0.080 0.935988
## f.22000.0.056  -4.647e-02  4.102e-02  -1.133 0.257330
## f.22000.0.057  -7.921e-03  4.124e-02  -0.192 0.847678
## f.22000.0.058  -4.629e-02  4.103e-02  -1.128 0.259304
## f.22000.0.059   7.309e-03  4.087e-02   0.179 0.858086
## f.22000.0.06   -1.383e-02  4.020e-02  -0.344 0.730816
## f.22000.0.0-6   5.472e-02  4.110e-02   1.331 0.183096
## f.22000.0.060  -4.459e-02  4.128e-02  -1.080 0.280081
## f.22000.0.061   4.421e-02  4.151e-02   1.065 0.286964
## f.22000.0.062  -9.995e-03  4.139e-02  -0.242 0.809154
## f.22000.0.063   4.536e-03  4.138e-02   0.110 0.912711
## f.22000.0.064  -2.838e-03  4.102e-02  -0.069 0.944846
## f.22000.0.065   1.619e-03  4.127e-02   0.039 0.968701
## f.22000.0.066  -1.178e-03  4.168e-02  -0.028 0.977453
## f.22000.0.067  -1.501e-02  4.124e-02  -0.364 0.715831
## f.22000.0.068   2.105e-02  4.122e-02   0.511 0.609670
```

```
## f.22000.0.069  -3.904e-03  4.128e-02  -0.095 0.924652
## f.22000.0.07    1.045e-02  4.052e-02   0.258 0.796493
## f.22000.0.0-7   1.066e-02  4.089e-02   0.261 0.794289
## f.22000.0.070   2.890e-02  4.128e-02   0.700 0.483892
## f.22000.0.071  -2.518e-02  4.107e-02  -0.613 0.539802
## f.22000.0.072  -2.917e-03  4.133e-02  -0.071 0.943729
## f.22000.0.073   8.590e-03  4.136e-02   0.208 0.835464
## f.22000.0.074  -2.998e-02  4.149e-02  -0.722 0.470003
## f.22000.0.075   1.295e-02  4.112e-02   0.315 0.752764
## f.22000.0.076  -4.314e-02  4.154e-02  -1.039 0.299001
## f.22000.0.077  -5.838e-02  4.130e-02  -1.413 0.157560
## f.22000.0.078  -3.120e-02  4.106e-02  -0.760 0.447342
## f.22000.0.079  -3.608e-02  4.098e-02  -0.880 0.378647
## f.22000.0.08    8.191e-04  4.048e-02   0.020 0.983857
## f.22000.0.0-8   5.226e-02  4.103e-02   1.274 0.202840
## f.22000.0.080  -8.635e-03  4.145e-02  -0.208 0.834958
## f.22000.0.081  -6.129e-03  4.190e-02  -0.146 0.883694
## f.22000.0.082  -4.103e-02  4.140e-02  -0.991 0.321699
## f.22000.0.083  -3.101e-02  4.151e-02  -0.747 0.455061
## f.22000.0.084   9.087e-03  4.152e-02   0.219 0.826749
## f.22000.0.085   4.928e-02  4.135e-02   1.192 0.233376
## f.22000.0.086   6.311e-03  4.148e-02   0.152 0.879061
## f.22000.0.087  -9.175e-02  4.147e-02  -2.213 0.026914 *
## f.22000.0.088  -2.238e-02  4.217e-02  -0.531 0.595662
## f.22000.0.089  -8.646e-04  4.190e-02  -0.021 0.983536
## f.22000.0.09   -2.548e-02  4.026e-02  -0.633 0.526863
## f.22000.0.0-9   6.224e-02  4.105e-02   1.516 0.129513
## f.22000.0.090   1.624e-02  4.144e-02   0.392 0.695164
## f.22000.0.091   9.939e-03  4.284e-02   0.232 0.816539
## f.22000.0.092  -5.857e-03  4.159e-02  -0.141 0.887998
## f.22000.0.093   6.985e-03  4.153e-02   0.168 0.866438
## f.22000.0.094   2.521e-02  5.310e-02   0.475 0.634928
## f.22000.0.095  -2.159e-02  4.427e-02  -0.488 0.625756
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008462,   Adjusted R-squared:  0.007407
## F-statistic: 8.024 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1666 -0.6950 -0.2969  0.2451  7.9724
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.049e+00  7.458e-01 -12.134  < 2e-16 ***
## `0.500000`      2.870e-02  2.884e-03   9.951  < 2e-16 ***
## f.22009.0.1     2.580e-03  3.009e-03   0.857 0.391184
## f.22009.0.2    -5.739e-03  2.936e-03  -1.955 0.050605 .
## f.22009.0.3     3.373e-03  2.970e-03   1.136 0.256001
## f.22009.0.5     3.629e-02  3.150e-03  11.520  < 2e-16 ***
## f.22009.0.6     5.641e-05  2.981e-03   0.019 0.984902
## f.22009.0.7    -9.397e-03  3.027e-03  -3.105 0.001906 **
## f.22009.0.8     8.547e-03  3.219e-03   2.655 0.007927 **
## f.22009.0.9     7.626e-03  3.057e-03   2.494 0.012617 *
```

```
## f.22009.0.9     7.626e-03  3.057e-03   2.494 0.012617 *
## f.22009.0.10   -4.523e-03  3.507e-03  -1.290 0.197163
## f.22009.0.11    1.546e-02  4.082e-03   3.787 0.000152 ***
## f.22009.0.12   -5.234e-03  3.598e-03  -1.455 0.145684
## f.22009.0.13   -3.758e-03  2.928e-03  -1.284 0.199314
## f.22009.0.14   -4.024e-02  3.094e-03 -13.004  < 2e-16 ***
## f.22009.0.15    1.700e-03  3.170e-03   0.536 0.591822
## f.22009.0.16   -1.736e-02  3.109e-03  -5.583 2.36e-08 ***
## f.22009.0.17   -4.974e-03  2.888e-03  -1.722 0.085000 .
## f.22009.0.18    8.733e-03  2.895e-03   3.016 0.002558 **
## f.22009.0.19   -9.293e-04  2.883e-03  -0.322 0.747233
## f.22009.0.20    4.350e-03  2.889e-03   1.506 0.132067
## f.22001.0.01   -7.138e-02  5.824e-03 -12.257  < 2e-16 ***
## f.34.0.0        4.653e-03  3.816e-04  12.192  < 2e-16 ***
## f.22000.0.0-1   1.112e-01  4.074e-02   2.728 0.006366 **
## f.22000.0.010  -7.625e-02  4.118e-02  -1.852 0.064076 .
## f.22000.0.0-10  3.176e-02  4.141e-02   0.767 0.443101
## f.22000.0.011  -2.784e-02  4.050e-02  -0.687 0.491830
## f.22000.0.0-11  9.991e-02  4.104e-02   2.434 0.014930 *
## f.22000.0.012  -4.571e-02  4.078e-02  -1.121 0.262388
## f.22000.0.013  -1.982e-02  4.065e-02  -0.488 0.625772
## f.22000.0.014  -2.290e-02  4.038e-02  -0.567 0.570561
## f.22000.0.015   1.893e-02  4.064e-02   0.466 0.641318
## f.22000.0.016   1.611e-02  4.086e-02   0.394 0.693498
## f.22000.0.017   8.550e-03  4.046e-02   0.211 0.832619
## f.22000.0.018   1.520e-02  4.090e-02   0.372 0.710124
## f.22000.0.019  -1.787e-03  4.012e-02  -0.045 0.964471
## f.22000.0.02   -4.596e-03  4.026e-02  -0.114 0.909117
## f.22000.0.0-2   5.593e-02  4.098e-02   1.365 0.172291
## f.22000.0.020  -1.147e-02  4.076e-02  -0.281 0.778497
## f.22000.0.021  -1.253e-02  4.069e-02  -0.308 0.758190
## f.22000.0.022   3.420e-02  4.064e-02   0.841 0.400101
## f.22000.0.023   2.531e-02  4.063e-02   0.623 0.533257
## f.22000.0.024  -2.681e-02  4.009e-02  -0.669 0.503704
## f.22000.0.025  -4.297e-02  4.114e-02  -1.045 0.296245
## f.22000.0.026  -2.589e-02  4.088e-02  -0.633 0.526594
## f.22000.0.027  -4.934e-02  4.021e-02  -1.227 0.219804
## f.22000.0.028   2.196e-02  4.061e-02   0.541 0.588634
## f.22000.0.029   1.945e-02  4.036e-02   0.482 0.629880
## f.22000.0.03    5.271e-03  4.027e-02   0.131 0.895861
## f.22000.0.0-3   4.430e-02  4.058e-02   1.092 0.274924
## f.22000.0.030  -3.920e-02  4.036e-02  -0.971 0.331461
## f.22000.0.031   2.951e-02  4.049e-02   0.729 0.466079
## f.22000.0.032   1.490e-02  4.068e-02   0.366 0.714109
## f.22000.0.033   1.700e-02  4.141e-02   0.410 0.681444
## f.22000.0.034   6.168e-02  4.045e-02   1.525 0.127261
## f.22000.0.035  -2.487e-03  4.053e-02  -0.061 0.951078
## f.22000.0.036   1.291e-02  4.024e-02   0.321 0.748279
## f.22000.0.037  -2.572e-02  4.084e-02  -0.630 0.528761
## f.22000.0.038   2.749e-02  4.071e-02   0.675 0.499455
## f.22000.0.039  -1.424e-02  4.116e-02  -0.346 0.729415
## f.22000.0.04   -1.814e-02  4.102e-02  -0.442 0.658215
## f.22000.0.0-4   1.064e-01  4.122e-02   2.582 0.009829 **
## f.22000.0.040   2.253e-02  4.064e-02   0.554 0.579392
## f.22000.0.041  -3.376e-02  4.125e-02  -0.819 0.413028
## f.22000.0.042  -2.972e-02  4.057e-02  -0.733 0.463771
## f.22000.0.043  -1.322e-02  4.130e-02  -0.320 0.748921
## f.22000.0.044  -4.706e-02  4.084e-02  -1.152 0.249126
## f.22000.0.045  -6.400e-03  4.087e-02  -0.157 0.875557
## f.22000.0.046  -2.650e-02  4.109e-02  -0.645 0.519047
## f.22000.0.047  -4.200e-02  4.112e-02  -1.021 0.307069
## f.22000.0.048   2.067e-02  4.104e-02   0.504 0.614452
## f.22000.0.049  -2.364e-02  4.105e-02  -0.576 0.564761
## f.22000.0.05   -6.787e-02  4.035e-02  -1.682 0.092569 .
## f.22000.0.0-5   8.650e-02  4.077e-02   2.121 0.033893 *
## f.22000.0.050   4.181e-02  4.114e-02   1.016 0.309445
## f.22000.0.051   2.474e-02  4.050e-02   0.611 0.541289
## f.22000.0.052  -3.189e-02  4.123e-02  -0.774 0.439206
## f.22000.0.053  -4.415e-02  4.094e-02  -1.078 0.280869
## f.22000.0.054  -1.220e-02  4.104e-02  -0.297 0.766314
## f.22000.0.055   3.372e-03  4.139e-02   0.081 0.935066
## f.22000.0.056  -4.624e-02  4.102e-02  -1.127 0.259657
## f.22000.0.057  -7.887e-03  4.124e-02  -0.191 0.848326
```

```
## f.22000.0.058  -4.628e-02  4.103e-02  -1.128 0.259428
## f.22000.0.059   7.305e-03  4.087e-02   0.179 0.858147
## f.22000.0.06   -1.364e-02  4.020e-02  -0.339 0.734458
## f.22000.0.0-6   5.492e-02  4.110e-02   1.336 0.181478
## f.22000.0.060  -4.433e-02  4.128e-02  -1.074 0.282878
## f.22000.0.061   4.448e-02  4.151e-02   1.071 0.284007
## f.22000.0.062  -9.895e-03  4.139e-02  -0.239 0.811032
## f.22000.0.063   4.724e-03  4.138e-02   0.114 0.909114
## f.22000.0.064  -2.683e-03  4.102e-02  -0.065 0.947852
## f.22000.0.065   1.655e-03  4.127e-02   0.040 0.968002
## f.22000.0.066  -1.067e-03  4.168e-02  -0.026 0.979586
## f.22000.0.067  -1.488e-02  4.124e-02  -0.361 0.718292
## f.22000.0.068   2.126e-02  4.122e-02   0.516 0.606029
## f.22000.0.069  -3.786e-03  4.128e-02  -0.092 0.926936
## f.22000.0.07    1.058e-02  4.052e-02   0.261 0.793949
## f.22000.0.0-7   1.092e-02  4.089e-02   0.267 0.789444
## f.22000.0.070   2.911e-02  4.128e-02   0.705 0.480698
## f.22000.0.071  -2.513e-02  4.107e-02  -0.612 0.540651
## f.22000.0.072  -2.672e-03  4.133e-02  -0.065 0.948454
## f.22000.0.073   8.661e-03  4.136e-02   0.209 0.834119
## f.22000.0.074  -2.985e-02  4.149e-02  -0.719 0.471917
## f.22000.0.075   1.293e-02  4.112e-02   0.315 0.753117
## f.22000.0.076  -4.316e-02  4.154e-02  -1.039 0.298783
## f.22000.0.077  -5.834e-02  4.130e-02  -1.413 0.157790
## f.22000.0.078  -3.111e-02  4.106e-02  -0.758 0.448673
## f.22000.0.079  -3.595e-02  4.098e-02  -0.877 0.380344
## f.22000.0.08    8.514e-04  4.048e-02   0.021 0.983221
## f.22000.0.0-8   5.241e-02  4.103e-02   1.277 0.201563
## f.22000.0.080  -8.450e-03  4.145e-02  -0.204 0.838456
## f.22000.0.081  -5.845e-03  4.190e-02  -0.140 0.889052
## f.22000.0.082  -4.087e-02  4.140e-02  -0.987 0.323594
## f.22000.0.083  -3.094e-02  4.151e-02  -0.745 0.456072
## f.22000.0.084   9.197e-03  4.152e-02   0.222 0.824690
## f.22000.0.085   4.945e-02  4.135e-02   1.196 0.231811
## f.22000.0.086   6.475e-03  4.148e-02   0.156 0.875949
## f.22000.0.087  -9.158e-02  4.146e-02  -2.209 0.027208 *
## f.22000.0.088  -2.236e-02  4.217e-02  -0.530 0.595912
## f.22000.0.089  -8.141e-04  4.190e-02  -0.019 0.984498
## f.22000.0.09   -2.534e-02  4.026e-02  -0.629 0.529139
## f.22000.0.0-9   6.241e-02  4.105e-02   1.520 0.128448
## f.22000.0.090   1.647e-02  4.144e-02   0.397 0.691010
## f.22000.0.091   1.015e-02  4.284e-02   0.237 0.812617
## f.22000.0.092  -5.680e-03  4.159e-02  -0.137 0.891359
## f.22000.0.093   7.193e-03  4.153e-02   0.173 0.862487
## f.22000.0.094   2.524e-02  5.309e-02   0.475 0.634462
## f.22000.0.095  -2.144e-02  4.427e-02  -0.484 0.628198
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008473,   Adjusted R-squared:  0.007418
## F-statistic: 8.035 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1771 -0.6949 -0.2970  0.2450  7.9728
```

```
## -1.1771 -0.6949 -0.2970  0.2450  7.9728
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.055e+00  7.458e-01 -12.141  < 2e-16 ***
## `0.250000`      2.893e-02  2.884e-03  10.029  < 2e-16 ***
## f.22009.0.1     2.559e-03  3.009e-03   0.850 0.395121
## f.22009.0.2    -5.739e-03  2.936e-03  -1.955 0.050629 .
## f.22009.0.3     3.383e-03  2.970e-03   1.139 0.254639
## f.22009.0.5     3.621e-02  3.150e-03  11.493  < 2e-16 ***
## f.22009.0.6     5.783e-05  2.981e-03   0.019 0.984521
## f.22009.0.7    -9.397e-03  3.027e-03  -3.104 0.001908 **
## f.22009.0.8     8.522e-03  3.219e-03   2.648 0.008110 **
## f.22009.0.9     7.680e-03  3.057e-03   2.512 0.012001 *
## f.22009.0.10   -4.469e-03  3.507e-03  -1.274 0.202581
## f.22009.0.11    1.540e-02  4.083e-03   3.772 0.000162 ***
## f.22009.0.12   -5.246e-03  3.598e-03  -1.458 0.144816
## f.22009.0.13   -3.722e-03  2.928e-03  -1.271 0.203650
## f.22009.0.14   -4.027e-02  3.094e-03 -13.014  < 2e-16 ***
## f.22009.0.15    1.635e-03  3.170e-03   0.516 0.606027
## f.22009.0.16   -1.730e-02  3.109e-03  -5.563 2.66e-08 ***
## f.22009.0.17   -4.943e-03  2.888e-03  -1.712 0.086975 .
## f.22009.0.18    8.734e-03  2.895e-03   3.017 0.002555 **
## f.22009.0.19   -9.128e-04  2.883e-03  -0.317 0.751558
## f.22009.0.20    4.374e-03  2.889e-03   1.514 0.129970
## f.22001.0.01   -7.137e-02  5.824e-03 -12.255  < 2e-16 ***
## f.34.0.0        4.656e-03  3.816e-04  12.200  < 2e-16 ***
## f.22000.0.0-1   1.109e-01  4.074e-02   2.722 0.006488 **
## f.22000.0.010  -7.590e-02  4.118e-02  -1.843 0.065293 .
## f.22000.0.0-10  3.174e-02  4.141e-02   0.767 0.443340
## f.22000.0.011  -2.821e-02  4.050e-02  -0.697 0.486100
## f.22000.0.0-11  9.991e-02  4.104e-02   2.434 0.014924 *
## f.22000.0.012  -4.576e-02  4.078e-02  -1.122 0.261879
## f.22000.0.013  -2.047e-02  4.065e-02  -0.504 0.614497
## f.22000.0.014  -2.357e-02  4.038e-02  -0.584 0.559494
## f.22000.0.015   1.866e-02  4.064e-02   0.459 0.646065
## f.22000.0.016   1.539e-02  4.086e-02   0.377 0.706390
## f.22000.0.017   8.255e-03  4.046e-02   0.204 0.838312
## f.22000.0.018   1.532e-02  4.090e-02   0.375 0.707944
## f.22000.0.019  -2.087e-03  4.012e-02  -0.052 0.958515
## f.22000.0.02   -4.591e-03  4.026e-02  -0.114 0.909223
## f.22000.0.0-2   5.562e-02  4.098e-02   1.357 0.174676
## f.22000.0.020  -1.173e-02  4.076e-02  -0.288 0.773529
## f.22000.0.021  -1.254e-02  4.069e-02  -0.308 0.757927
## f.22000.0.022   3.388e-02  4.064e-02   0.834 0.404427
## f.22000.0.023   2.552e-02  4.063e-02   0.628 0.529849
## f.22000.0.024  -2.678e-02  4.009e-02  -0.668 0.504098
## f.22000.0.025  -4.349e-02  4.114e-02  -1.057 0.290425
## f.22000.0.026  -2.581e-02  4.088e-02  -0.631 0.527861
## f.22000.0.027  -4.961e-02  4.021e-02  -1.234 0.217285
## f.22000.0.028   2.169e-02  4.061e-02   0.534 0.593295
## f.22000.0.029   1.930e-02  4.036e-02   0.478 0.632480
## f.22000.0.03    4.732e-03  4.027e-02   0.118 0.906461
## f.22000.0.0-3   4.380e-02  4.058e-02   1.080 0.280353
## f.22000.0.030  -3.930e-02  4.036e-02  -0.974 0.330253
## f.22000.0.031   2.905e-02  4.049e-02   0.717 0.473090
## f.22000.0.032   1.499e-02  4.068e-02   0.368 0.712545
## f.22000.0.033   1.686e-02  4.141e-02   0.407 0.683904
## f.22000.0.034   6.106e-02  4.044e-02   1.510 0.131149
## f.22000.0.035  -2.906e-03  4.053e-02  -0.072 0.942838
## f.22000.0.036   1.265e-02  4.024e-02   0.314 0.753266
## f.22000.0.037  -2.617e-02  4.084e-02  -0.641 0.521585
## f.22000.0.038   2.765e-02  4.071e-02   0.679 0.497044
## f.22000.0.039  -1.454e-02  4.116e-02  -0.353 0.723945
## f.22000.0.04   -1.816e-02  4.102e-02  -0.443 0.657978
## f.22000.0.0-4   1.064e-01  4.122e-02   2.582 0.009828 **
## f.22000.0.040   2.249e-02  4.064e-02   0.553 0.579936
## f.22000.0.041  -3.377e-02  4.125e-02  -0.819 0.412977
## f.22000.0.042  -3.023e-02  4.057e-02  -0.745 0.456223
## f.22000.0.043  -1.327e-02  4.130e-02  -0.321 0.747960
## f.22000.0.044  -4.772e-02  4.084e-02  -1.169 0.242596
## f.22000.0.045  -6.880e-03  4.087e-02  -0.168 0.866308
## f.22000.0.046  -2.687e-02  4.109e-02  -0.654 0.513177
```

```
## f.22000.0.047  -4.201e-02  4.112e-02  -1.022 0.306948
## f.22000.0.048   2.046e-02  4.104e-02   0.499 0.617999
## f.22000.0.049  -2.395e-02  4.105e-02  -0.583 0.559664
## f.22000.0.05   -6.819e-02  4.035e-02  -1.690 0.091039 .
## f.22000.0.0-5   8.658e-02  4.077e-02   2.124 0.033714 *
## f.22000.0.050   4.198e-02  4.114e-02   1.021 0.307450
## f.22000.0.051   2.424e-02  4.050e-02   0.599 0.549443
## f.22000.0.052  -3.220e-02  4.123e-02  -0.781 0.434796
## f.22000.0.053  -4.419e-02  4.094e-02  -1.079 0.280425
## f.22000.0.054  -1.237e-02  4.104e-02  -0.301 0.763065
## f.22000.0.055   2.915e-03  4.138e-02   0.070 0.943845
## f.22000.0.056  -4.660e-02  4.102e-02  -1.136 0.255967
## f.22000.0.057  -8.104e-03  4.124e-02  -0.197 0.844202
## f.22000.0.058  -4.655e-02  4.103e-02  -1.134 0.256640
## f.22000.0.059   6.888e-03  4.087e-02   0.169 0.866182
## f.22000.0.06   -1.393e-02  4.020e-02  -0.347 0.728917
## f.22000.0.0-6   5.481e-02  4.110e-02   1.334 0.182350
## f.22000.0.060  -4.439e-02  4.128e-02  -1.075 0.282229
## f.22000.0.061   4.454e-02  4.151e-02   1.073 0.283352
## f.22000.0.062  -1.016e-02  4.138e-02  -0.245 0.806078
## f.22000.0.063   4.906e-03  4.138e-02   0.119 0.905639
## f.22000.0.064  -3.070e-03  4.102e-02  -0.075 0.940336
## f.22000.0.065   1.506e-03  4.127e-02   0.037 0.970881
## f.22000.0.066  -1.166e-03  4.168e-02  -0.028 0.977690
## f.22000.0.067  -1.513e-02  4.124e-02  -0.367 0.713816
## f.22000.0.068   2.131e-02  4.122e-02   0.517 0.605270
## f.22000.0.069  -3.870e-03  4.128e-02  -0.094 0.925314
## f.22000.0.07    1.042e-02  4.052e-02   0.257 0.796998
## f.22000.0.0-7   1.067e-02  4.088e-02   0.261 0.794174
## f.22000.0.070   2.850e-02  4.128e-02   0.690 0.489938
## f.22000.0.071  -2.532e-02  4.107e-02  -0.617 0.537523
## f.22000.0.072  -2.485e-03  4.132e-02  -0.060 0.952056
## f.22000.0.073   8.492e-03  4.136e-02   0.205 0.837304
## f.22000.0.074  -2.995e-02  4.149e-02  -0.722 0.470471
## f.22000.0.075   1.322e-02  4.112e-02   0.322 0.747802
## f.22000.0.076  -4.335e-02  4.154e-02  -1.044 0.296641
## f.22000.0.077  -5.864e-02  4.130e-02  -1.420 0.155650
## f.22000.0.078  -3.168e-02  4.106e-02  -0.772 0.440356
## f.22000.0.079  -3.616e-02  4.098e-02  -0.882 0.377580
## f.22000.0.08    7.410e-04  4.048e-02   0.018 0.985396
## f.22000.0.0-8   5.230e-02  4.103e-02   1.275 0.202430
## f.22000.0.080  -8.676e-03  4.145e-02  -0.209 0.834179
## f.22000.0.081  -6.503e-03  4.189e-02  -0.155 0.876645
## f.22000.0.082  -4.084e-02  4.140e-02  -0.986 0.323994
## f.22000.0.083  -3.132e-02  4.151e-02  -0.755 0.450490
## f.22000.0.084   8.972e-03  4.152e-02   0.216 0.828901
## f.22000.0.085   4.925e-02  4.135e-02   1.191 0.233639
## f.22000.0.086   6.250e-03  4.147e-02   0.151 0.880224
## f.22000.0.087  -9.160e-02  4.146e-02  -2.209 0.027166 *
## f.22000.0.088  -2.220e-02  4.217e-02  -0.526 0.598601
## f.22000.0.089  -8.340e-04  4.190e-02  -0.020 0.984119
## f.22000.0.09   -2.577e-02  4.026e-02  -0.640 0.522209
## f.22000.0.0-9   6.204e-02  4.105e-02   1.511 0.130754
## f.22000.0.090   1.631e-02  4.144e-02   0.394 0.693848
## f.22000.0.091   9.831e-03  4.284e-02   0.229 0.818488
## f.22000.0.092  -5.701e-03  4.159e-02  -0.137 0.890959
## f.22000.0.093   6.823e-03  4.153e-02   0.164 0.869503
## f.22000.0.094   2.526e-02  5.309e-02   0.476 0.634227
## f.22000.0.095  -2.150e-02  4.427e-02  -0.486 0.627168
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008486,   Adjusted R-squared:  0.007431
## F-statistic: 8.047 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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 -0.6952 -0.2972  0.2442  7.9750
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.058e+00  7.458e-01 -12.145  < 2e-16 ***
## `0.100000`      2.710e-02  2.885e-03   9.395  < 2e-16 ***
## f.22009.0.1     2.604e-03  3.009e-03   0.865 0.386908
## f.22009.0.2    -5.737e-03  2.936e-03  -1.954 0.050700 .
## f.22009.0.3     3.395e-03  2.970e-03   1.143 0.252988
## f.22009.0.5     3.621e-02  3.151e-03  11.494  < 2e-16 ***
## f.22009.0.6    -9.940e-06  2.981e-03  -0.003 0.997340
## f.22009.0.7    -9.394e-03  3.027e-03  -3.103 0.001915 **
## f.22009.0.8     8.529e-03  3.219e-03   2.650 0.008059 **
## f.22009.0.9     7.724e-03  3.057e-03   2.526 0.011524 *
## f.22009.0.10   -4.494e-03  3.507e-03  -1.281 0.200096
## f.22009.0.11    1.538e-02  4.083e-03   3.767 0.000165 ***
## f.22009.0.12   -5.221e-03  3.598e-03  -1.451 0.146723
## f.22009.0.13   -3.835e-03  2.928e-03  -1.310 0.190235
## f.22009.0.14   -4.016e-02  3.094e-03 -12.979  < 2e-16 ***
## f.22009.0.15    1.587e-03  3.170e-03   0.501 0.616706
## f.22009.0.16   -1.733e-02  3.110e-03  -5.574  2.5e-08 ***
## f.22009.0.17   -4.947e-03  2.888e-03  -1.713 0.086773 .
## f.22009.0.18    8.694e-03  2.895e-03   3.003 0.002675 **
## f.22009.0.19   -8.344e-04  2.883e-03  -0.289 0.772286
## f.22009.0.20    4.408e-03  2.889e-03   1.526 0.127065
## f.22001.0.01   -7.151e-02  5.824e-03 -12.278  < 2e-16 ***
## f.34.0.0        4.657e-03  3.816e-04  12.203  < 2e-16 ***
## f.22000.0.0-1   1.104e-01  4.074e-02   2.710 0.006739 **
## f.22000.0.010  -7.625e-02  4.118e-02  -1.852 0.064071 .
## f.22000.0.0-10  3.125e-02  4.141e-02   0.755 0.450383
## f.22000.0.011  -2.867e-02  4.050e-02  -0.708 0.478981
## f.22000.0.0-11  9.979e-02  4.105e-02   2.431 0.015057 *
## f.22000.0.012  -4.565e-02  4.079e-02  -1.119 0.262980
## f.22000.0.013  -2.052e-02  4.065e-02  -0.505 0.613770
## f.22000.0.014  -2.336e-02  4.038e-02  -0.578 0.563015
## f.22000.0.015   1.845e-02  4.064e-02   0.454 0.649842
## f.22000.0.016   1.513e-02  4.087e-02   0.370 0.711280
## f.22000.0.017   8.233e-03  4.046e-02   0.203 0.838751
## f.22000.0.018   1.541e-02  4.090e-02   0.377 0.706338
## f.22000.0.019  -3.051e-03  4.013e-02  -0.076 0.939400
## f.22000.0.02   -4.950e-03  4.026e-02  -0.123 0.902146
## f.22000.0.0-2   5.613e-02  4.098e-02   1.370 0.170789
## f.22000.0.020  -1.229e-02  4.077e-02  -0.302 0.762983
## f.22000.0.021  -1.285e-02  4.069e-02  -0.316 0.752224
## f.22000.0.022   3.374e-02  4.064e-02   0.830 0.406475
## f.22000.0.023   2.502e-02  4.063e-02   0.616 0.538066
## f.22000.0.024  -2.700e-02  4.009e-02  -0.673 0.500705
## f.22000.0.025  -4.372e-02  4.114e-02  -1.063 0.287950
## f.22000.0.026  -2.613e-02  4.089e-02  -0.639 0.522753
## f.22000.0.027  -4.936e-02  4.021e-02  -1.227 0.219697
## f.22000.0.028   2.200e-02  4.062e-02   0.542 0.588110
## f.22000.0.029   1.928e-02  4.037e-02   0.478 0.632899
## f.22000.0.03    4.432e-03  4.027e-02   0.110 0.912367
## f.22000.0.0-3   4.434e-02  4.058e-02   1.093 0.274540
## f.22000.0.030  -3.958e-02  4.037e-02  -0.981 0.326790
```

```
## f.22000.0.030  -3.958e-02  4.057e-02  -0.981 0.326790
## f.22000.0.031   2.897e-02  4.049e-02   0.715 0.474343
## f.22000.0.032   1.494e-02  4.069e-02   0.367 0.713500
## f.22000.0.033   1.674e-02  4.141e-02   0.404 0.686015
## f.22000.0.034   6.123e-02  4.045e-02   1.514 0.130041
## f.22000.0.035  -3.197e-03  4.053e-02  -0.079 0.937137
## f.22000.0.036   1.263e-02  4.024e-02   0.314 0.753600
## f.22000.0.037  -2.590e-02  4.084e-02  -0.634 0.525897
## f.22000.0.038   2.726e-02  4.071e-02   0.670 0.503067
## f.22000.0.039  -1.469e-02  4.116e-02  -0.357 0.721107
## f.22000.0.04   -1.832e-02  4.102e-02  -0.447 0.655213
## f.22000.0.0-4   1.058e-01  4.122e-02   2.566 0.010287 *
## f.22000.0.040   2.200e-02  4.064e-02   0.541 0.588370
## f.22000.0.041  -3.441e-02  4.125e-02  -0.834 0.404150
## f.22000.0.042  -3.026e-02  4.057e-02  -0.746 0.455710
## f.22000.0.043  -1.401e-02  4.130e-02  -0.339 0.734396
## f.22000.0.044  -4.823e-02  4.084e-02  -1.181 0.237649
## f.22000.0.045  -6.761e-03  4.087e-02  -0.165 0.868604
## f.22000.0.046  -2.662e-02  4.109e-02  -0.648 0.517139
## f.22000.0.047  -4.187e-02  4.112e-02  -1.018 0.308602
## f.22000.0.048   2.025e-02  4.104e-02   0.493 0.621780
## f.22000.0.049  -2.411e-02  4.106e-02  -0.587 0.556956
## f.22000.0.05   -6.879e-02  4.035e-02  -1.705 0.088243 .
## f.22000.0.0-5   8.642e-02  4.078e-02   2.120 0.034050 *
## f.22000.0.050   4.246e-02  4.114e-02   1.032 0.302091
## f.22000.0.051   2.403e-02  4.050e-02   0.593 0.552962
## f.22000.0.052  -3.209e-02  4.123e-02  -0.778 0.436363
## f.22000.0.053  -4.454e-02  4.094e-02  -1.088 0.276612
## f.22000.0.054  -1.267e-02  4.105e-02  -0.309 0.757533
## f.22000.0.055   3.123e-03  4.139e-02   0.075 0.939844
## f.22000.0.056  -4.667e-02  4.103e-02  -1.138 0.255288
## f.22000.0.057  -8.285e-03  4.124e-02  -0.201 0.840781
## f.22000.0.058  -4.692e-02  4.104e-02  -1.143 0.252897
## f.22000.0.059   7.143e-03  4.088e-02   0.175 0.861271
## f.22000.0.06   -1.371e-02  4.020e-02  -0.341 0.733009
## f.22000.0.0-6   5.413e-02  4.110e-02   1.317 0.187818
## f.22000.0.060  -4.483e-02  4.129e-02  -1.086 0.277568
## f.22000.0.061   4.509e-02  4.152e-02   1.086 0.277435
## f.22000.0.062  -1.008e-02  4.139e-02  -0.243 0.807623
## f.22000.0.063   4.975e-03  4.138e-02   0.120 0.904305
## f.22000.0.064  -2.581e-03  4.102e-02  -0.063 0.949845
## f.22000.0.065   2.026e-03  4.127e-02   0.049 0.960836
## f.22000.0.066  -2.296e-03  4.168e-02  -0.055 0.956074
## f.22000.0.067  -1.571e-02  4.125e-02  -0.381 0.703309
## f.22000.0.068   2.049e-02  4.123e-02   0.497 0.619233
## f.22000.0.069  -4.458e-03  4.129e-02  -0.108 0.914018
## f.22000.0.07    1.022e-02  4.052e-02   0.252 0.800792
## f.22000.0.0-7   1.034e-02  4.089e-02   0.253 0.800352
## f.22000.0.070   2.853e-02  4.128e-02   0.691 0.489496
## f.22000.0.071  -2.483e-02  4.107e-02  -0.604 0.545554
## f.22000.0.072  -2.528e-03  4.133e-02  -0.061 0.951232
## f.22000.0.073   8.701e-03  4.136e-02   0.210 0.833374
## f.22000.0.074  -2.989e-02  4.150e-02  -0.720 0.471332
## f.22000.0.075   1.344e-02  4.112e-02   0.327 0.743749
## f.22000.0.076  -4.244e-02  4.154e-02  -1.022 0.306962
## f.22000.0.077  -5.843e-02  4.131e-02  -1.415 0.157186
## f.22000.0.078  -3.142e-02  4.107e-02  -0.765 0.444198
## f.22000.0.079  -3.653e-02  4.098e-02  -0.891 0.372696
## f.22000.0.08    3.712e-04  4.048e-02   0.009 0.992684
## f.22000.0.0-8   5.270e-02  4.104e-02   1.284 0.199105
## f.22000.0.080  -8.378e-03  4.145e-02  -0.202 0.839815
## f.22000.0.081  -6.769e-03  4.190e-02  -0.162 0.871649
## f.22000.0.082  -4.110e-02  4.141e-02  -0.993 0.320912
## f.22000.0.083  -3.173e-02  4.151e-02  -0.764 0.444590
## f.22000.0.084   8.967e-03  4.152e-02   0.216 0.829004
## f.22000.0.085   4.932e-02  4.135e-02   1.193 0.233035
## f.22000.0.086   5.756e-03  4.148e-02   0.139 0.889626
## f.22000.0.087  -9.139e-02  4.147e-02  -2.204 0.027523 *
## f.22000.0.088  -2.219e-02  4.218e-02  -0.526 0.598804
## f.22000.0.089  -4.329e-04  4.190e-02  -0.010 0.991756
## f.22000.0.09   -2.554e-02  4.026e-02  -0.634 0.525905
## f.22000.0.0-9   6.222e-02  4.105e-02   1.515 0.129661
## f.22000.0.090   1.617e-02  4.144e-02   0.390 0.696315
```

```
## f.22000.0.091   9.701e-03  4.284e-02   0.226 0.820862
## f.22000.0.092  -5.866e-03  4.159e-02  -0.141 0.887832
## f.22000.0.093   6.738e-03  4.153e-02   0.162 0.871114
## f.22000.0.094   2.478e-02  5.310e-02   0.467 0.640771
## f.22000.0.095  -2.129e-02  4.427e-02  -0.481 0.630514
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9963 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008384,   Adjusted R-squared:  0.007329
## F-statistic: 7.949 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1576 -0.6957 -0.2968  0.2428  7.9862
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.0581629  0.7458848 -12.144  < 2e-16 ***
## `0.010000`      0.0227249  0.0028851   7.877 3.39e-15 ***
## f.22009.0.1     0.0027229  0.0030093   0.905 0.365556
## f.22009.0.2    -0.0057341  0.0029364  -1.953 0.050846 .
## f.22009.0.3     0.0032614  0.0029702   1.098 0.272192
## f.22009.0.5     0.0365404  0.0031504  11.599  < 2e-16 ***
## f.22009.0.6    -0.0001100  0.0029817  -0.037 0.970579
## f.22009.0.7    -0.0094993  0.0030274  -3.138 0.001703 **
## f.22009.0.8     0.0084758  0.0032194   2.633 0.008470 **
## f.22009.0.9     0.0077926  0.0030576   2.549 0.010818 *
## f.22009.0.10   -0.0044201  0.0035076  -1.260 0.207617
## f.22009.0.11    0.0156633  0.0040830   3.836 0.000125 ***
## f.22009.0.12   -0.0052122  0.0035982  -1.449 0.147465
## f.22009.0.13   -0.0038497  0.0029284  -1.315 0.188648
## f.22009.0.14   -0.0402516  0.0030947 -13.007  < 2e-16 ***
## f.22009.0.15    0.0016447  0.0031706   0.519 0.603951
## f.22009.0.16   -0.0173769  0.0031099  -5.588 2.31e-08 ***
## f.22009.0.17   -0.0048835  0.0028886  -1.691 0.090920 .
## f.22009.0.18    0.0087749  0.0028955   3.031 0.002441 **
## f.22009.0.19   -0.0006318  0.0028839  -0.219 0.826585
## f.22009.0.20    0.0042364  0.0028893   1.466 0.142587
## f.22001.0.01   -0.0715684  0.0058248 -12.287  < 2e-16 ***
## f.34.0.0        0.0046572  0.0003817  12.202  < 2e-16 ***
## f.22000.0.0-1   0.1113013  0.0407463   2.732 0.006304 **
## f.22000.0.010  -0.0763463  0.0411843  -1.854 0.063774 .
## f.22000.0.0-10  0.0319560  0.0414133   0.772 0.440332
## f.22000.0.011  -0.0276920  0.0405039  -0.684 0.494174
## f.22000.0.0-11  0.1008794  0.0410510   2.457 0.013995 *
## f.22000.0.012  -0.0450189  0.0407898  -1.104 0.269735
## f.22000.0.013  -0.0205010  0.0406540  -0.504 0.614066
## f.22000.0.014  -0.0227391  0.0403870  -0.563 0.573415
## f.22000.0.015   0.0196510  0.0406464   0.483 0.628769
## f.22000.0.016   0.0162814  0.0408713   0.398 0.690367
## f.22000.0.017   0.0087530  0.0404618   0.216 0.828733
## f.22000.0.018   0.0161147  0.0409041   0.394 0.693608
## f.22000.0.019  -0.0024538  0.0401304  -0.061 0.951243
## f.22000.0.02   -0.0041625  0.0402674  -0.103 0.917669
## f.22000.0.0-2   0.0572188  0.0409828   1.396 0.162667
```

```
## f.22000.0.0-2   0.0572188  0.0409828   1.396 0.162667
## f.22000.0.020  -0.0104246  0.0407705  -0.256 0.798190
## f.22000.0.021  -0.0114540  0.0406987  -0.281 0.778379
## f.22000.0.022   0.0350838  0.0406481   0.863 0.388078
## f.22000.0.023   0.0256906  0.0406360   0.632 0.527249
## f.22000.0.024  -0.0254550  0.0400983  -0.635 0.525550
## f.22000.0.025  -0.0433929  0.0411449  -1.055 0.291594
## f.22000.0.026  -0.0254655  0.0408920  -0.623 0.533449
## f.22000.0.027  -0.0494129  0.0402193  -1.229 0.219230
## f.22000.0.028   0.0229316  0.0406203   0.565 0.572392
## f.22000.0.029   0.0204505  0.0403698   0.507 0.612452
## f.22000.0.03    0.0054114  0.0402758   0.134 0.893120
## f.22000.0.0-3   0.0461951  0.0405846   1.138 0.255022
## f.22000.0.030  -0.0378139  0.0403699  -0.937 0.348922
## f.22000.0.031   0.0308229  0.0404988   0.761 0.446610
## f.22000.0.032   0.0155452  0.0406907   0.382 0.702437
## f.22000.0.033   0.0179846  0.0414121   0.434 0.664083
## f.22000.0.034   0.0619767  0.0404513   1.532 0.125493
## f.22000.0.035  -0.0021282  0.0405395  -0.052 0.958132
## f.22000.0.036   0.0137606  0.0402426   0.342 0.732395
## f.22000.0.037  -0.0256261  0.0408455  -0.627 0.530405
## f.22000.0.038   0.0280761  0.0407177   0.690 0.490490
## f.22000.0.039  -0.0132177  0.0411631  -0.321 0.748131
## f.22000.0.04   -0.0178389  0.0410223  -0.435 0.663666
## f.22000.0.0-4   0.1065173  0.0412243   2.584 0.009772 **
## f.22000.0.040   0.0223240  0.0406470   0.549 0.582859
## f.22000.0.041  -0.0344473  0.0412516  -0.835 0.403690
## f.22000.0.042  -0.0306054  0.0405749  -0.754 0.450674
## f.22000.0.043  -0.0135955  0.0413025  -0.329 0.742028
## f.22000.0.044  -0.0475179  0.0408441  -1.163 0.244671
## f.22000.0.045  -0.0054405  0.0408725  -0.133 0.894108
## f.22000.0.046  -0.0248116  0.0410969  -0.604 0.546021
## f.22000.0.047  -0.0407719  0.0411260  -0.991 0.321498
## f.22000.0.048   0.0196276  0.0410425   0.478 0.632490
## f.22000.0.049  -0.0231313  0.0410603  -0.563 0.573198
## f.22000.0.05   -0.0686555  0.0403586  -1.701 0.088920 .
## f.22000.0.0-5   0.0868187  0.0407809   2.129 0.033264 *
## f.22000.0.050   0.0430245  0.0411453   1.046 0.295714
## f.22000.0.051   0.0250578  0.0405069   0.619 0.536178
## f.22000.0.052  -0.0315348  0.0412336  -0.765 0.444402
## f.22000.0.053  -0.0440889  0.0409451  -1.077 0.281580
## f.22000.0.054  -0.0117045  0.0410501  -0.285 0.775547
## f.22000.0.055   0.0047492  0.0413913   0.115 0.908651
## f.22000.0.056  -0.0460665  0.0410314  -1.123 0.261562
## f.22000.0.057  -0.0070708  0.0412443  -0.171 0.863879
## f.22000.0.058  -0.0465820  0.0410400  -1.135 0.256360
## f.22000.0.059   0.0082153  0.0408798   0.201 0.840728
## f.22000.0.06   -0.0130471  0.0402094  -0.324 0.745575
## f.22000.0.0-6   0.0557869  0.0411072   1.357 0.174750
## f.22000.0.060  -0.0433607  0.0412913  -1.050 0.293667
## f.22000.0.061   0.0453199  0.0415212   1.091 0.275060
## f.22000.0.062  -0.0083420  0.0413913  -0.202 0.840277
## f.22000.0.063   0.0065043  0.0413901   0.157 0.875129
## f.22000.0.064  -0.0016027  0.0410299  -0.039 0.968840
## f.22000.0.065   0.0036700  0.0412737   0.089 0.929148
## f.22000.0.066  -0.0024500  0.0416884  -0.059 0.953137
## f.22000.0.067  -0.0151687  0.0412507  -0.368 0.713082
## f.22000.0.068   0.0217460  0.0412313   0.527 0.597907
## f.22000.0.069  -0.0043488  0.0412902  -0.105 0.916120
## f.22000.0.07    0.0114221  0.0405253   0.282 0.778059
## f.22000.0.0-7   0.0107580  0.0408915   0.263 0.792484
## f.22000.0.070   0.0303970  0.0412826   0.736 0.461540
## f.22000.0.071  -0.0246698  0.0410786  -0.601 0.548140
## f.22000.0.072  -0.0014023  0.0413315  -0.034 0.972935
## f.22000.0.073   0.0091670  0.0413626   0.222 0.824606
## f.22000.0.074  -0.0295916  0.0415011  -0.713 0.475827
## f.22000.0.075   0.0145320  0.0411255   0.353 0.723820
## f.22000.0.076  -0.0411375  0.0415432  -0.990 0.322061
## f.22000.0.077  -0.0577382  0.0413103  -1.398 0.162215
## f.22000.0.078  -0.0311777  0.0410699  -0.759 0.447772
## f.22000.0.079  -0.0349425  0.0409830  -0.853 0.393879
## f.22000.0.08    0.0021507  0.0404874   0.053 0.957636
## f.22000.0.0-8   0.0529031  0.0410409   1.289 0.197389
```

```
## f.22000.0.080  -0.0070403  0.0414529  -0.170 0.865137
## f.22000.0.081  -0.0059311  0.0419015  -0.142 0.887437
## f.22000.0.082  -0.0392217  0.0414100  -0.947 0.343562
## f.22000.0.083  -0.0305568  0.0415142  -0.736 0.461698
## f.22000.0.084   0.0105065  0.0415233   0.253 0.800248
## f.22000.0.085   0.0500245  0.0413592   1.210 0.226468
## f.22000.0.086   0.0070761  0.0414817   0.171 0.864551
## f.22000.0.087  -0.0911365  0.0414712  -2.198 0.027980 *
## f.22000.0.088  -0.0208718  0.0421802  -0.495 0.620725
## f.22000.0.089   0.0003865  0.0419038   0.009 0.992642
## f.22000.0.09   -0.0253179  0.0402685  -0.629 0.529529
## f.22000.0.0-9   0.0639730  0.0410602   1.558 0.119229
## f.22000.0.090   0.0177795  0.0414431   0.429 0.667916
## f.22000.0.091   0.0096416  0.0428450   0.225 0.821952
## f.22000.0.092  -0.0050250  0.0415947  -0.121 0.903842
## f.22000.0.093   0.0074480  0.0415355   0.179 0.857689
## f.22000.0.094   0.0252334  0.0531032   0.475 0.634662
## f.22000.0.095  -0.0196572  0.0442734  -0.444 0.657047
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9964 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.008166,   Adjusted R-squared:  0.007111
## F-statistic: 7.741 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1634 -0.6963 -0.2965  0.2403  7.9843
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -9.068e+00  7.460e-01 -12.155  < 2e-16 ***
## `0.001000`      1.307e-02  2.885e-03   4.531 5.89e-06 ***
## f.22009.0.1     2.748e-03  3.010e-03   0.913 0.361224
## f.22009.0.2    -5.783e-03  2.937e-03  -1.969 0.048935 *
## f.22009.0.3     3.210e-03  2.971e-03   1.081 0.279883
## f.22009.0.5     3.702e-02  3.150e-03  11.752  < 2e-16 ***
## f.22009.0.6     9.957e-05  2.982e-03   0.033 0.973363
## f.22009.0.7    -9.621e-03  3.028e-03  -3.178 0.001485 **
## f.22009.0.8     8.538e-03  3.220e-03   2.652 0.008012 **
## f.22009.0.9     7.589e-03  3.058e-03   2.481 0.013084 *
## f.22009.0.10   -4.446e-03  3.508e-03  -1.267 0.205050
## f.22009.0.11    1.587e-02  4.084e-03   3.887 0.000102 ***
## f.22009.0.12   -5.140e-03  3.599e-03  -1.428 0.153262
## f.22009.0.13   -3.784e-03  2.929e-03  -1.292 0.196381
## f.22009.0.14   -4.039e-02  3.095e-03 -13.048  < 2e-16 ***
## f.22009.0.15    1.727e-03  3.171e-03   0.545 0.586065
## f.22009.0.16   -1.726e-02  3.110e-03  -5.548 2.89e-08 ***
## f.22009.0.17   -5.014e-03  2.889e-03  -1.736 0.082628 .
## f.22009.0.18    8.555e-03  2.896e-03   2.954 0.003137 **
## f.22009.0.19   -8.606e-04  2.884e-03  -0.298 0.765415
## f.22009.0.20    4.368e-03  2.890e-03   1.512 0.130651
## f.22001.0.01   -7.184e-02  5.826e-03 -12.331  < 2e-16 ***
## f.34.0.0        4.663e-03  3.818e-04  12.213  < 2e-16 ***
## f.22000.0.0-1   1.112e-01  4.075e-02   2.730 0.006338 **
## f.22000.0.010  -7.654e-02  4.119e-02  -1.858 0.063152
```

```
## f.22000.0.010  -7.654e-02  4.119e-02  -1.858 0.063152 .
## f.22000.0.0-10  3.097e-02  4.142e-02   0.748 0.454648
## f.22000.0.011  -2.783e-02  4.051e-02  -0.687 0.492135
## f.22000.0.0-11  1.006e-01  4.106e-02   2.449 0.014319 *
## f.22000.0.012  -4.554e-02  4.080e-02  -1.116 0.264263
## f.22000.0.013  -2.153e-02  4.066e-02  -0.530 0.596410
## f.22000.0.014  -2.352e-02  4.039e-02  -0.582 0.560460
## f.22000.0.015   1.919e-02  4.065e-02   0.472 0.636877
## f.22000.0.016   1.549e-02  4.088e-02   0.379 0.704727
## f.22000.0.017   9.246e-03  4.047e-02   0.228 0.819272
## f.22000.0.018   1.585e-02  4.091e-02   0.387 0.698396
## f.22000.0.019  -2.831e-03  4.014e-02  -0.071 0.943761
## f.22000.0.02   -4.483e-03  4.027e-02  -0.111 0.911373
## f.22000.0.0-2   5.642e-02  4.099e-02   1.376 0.168724
## f.22000.0.020  -1.158e-02  4.078e-02  -0.284 0.776460
## f.22000.0.021  -1.204e-02  4.071e-02  -0.296 0.767317
## f.22000.0.022   3.435e-02  4.066e-02   0.845 0.398108
## f.22000.0.023   2.535e-02  4.064e-02   0.624 0.532732
## f.22000.0.024  -2.651e-02  4.010e-02  -0.661 0.508600
## f.22000.0.025  -4.322e-02  4.115e-02  -1.050 0.293571
## f.22000.0.026  -2.696e-02  4.090e-02  -0.659 0.509753
## f.22000.0.027  -4.924e-02  4.023e-02  -1.224 0.220913
## f.22000.0.028   2.221e-02  4.063e-02   0.547 0.584595
## f.22000.0.029   1.973e-02  4.038e-02   0.489 0.625147
## f.22000.0.03    5.137e-03  4.028e-02   0.128 0.898520
## f.22000.0.0-3   4.540e-02  4.059e-02   1.118 0.263416
## f.22000.0.030  -3.848e-02  4.038e-02  -0.953 0.340586
## f.22000.0.031   3.060e-02  4.051e-02   0.755 0.450014
## f.22000.0.032   1.556e-02  4.070e-02   0.382 0.702164
## f.22000.0.033   1.716e-02  4.142e-02   0.414 0.678624
## f.22000.0.034   6.186e-02  4.046e-02   1.529 0.126283
## f.22000.0.035  -2.348e-03  4.055e-02  -0.058 0.953816
## f.22000.0.036   1.276e-02  4.025e-02   0.317 0.751310
## f.22000.0.037  -2.562e-02  4.085e-02  -0.627 0.530509
## f.22000.0.038   2.714e-02  4.072e-02   0.666 0.505138
## f.22000.0.039  -1.244e-02  4.117e-02  -0.302 0.762472
## f.22000.0.04   -1.788e-02  4.103e-02  -0.436 0.663010
## f.22000.0.0-4   1.066e-01  4.123e-02   2.584 0.009758 **
## f.22000.0.040   2.198e-02  4.065e-02   0.541 0.588737
## f.22000.0.041  -3.446e-02  4.126e-02  -0.835 0.403548
## f.22000.0.042  -2.989e-02  4.058e-02  -0.737 0.461351
## f.22000.0.043  -1.393e-02  4.131e-02  -0.337 0.735970
## f.22000.0.044  -4.803e-02  4.085e-02  -1.176 0.239749
## f.22000.0.045  -5.354e-03  4.088e-02  -0.131 0.895799
## f.22000.0.046  -2.492e-02  4.110e-02  -0.606 0.544303
## f.22000.0.047  -4.205e-02  4.113e-02  -1.022 0.306600
## f.22000.0.048   1.885e-02  4.105e-02   0.459 0.646022
## f.22000.0.049  -2.385e-02  4.107e-02  -0.581 0.561328
## f.22000.0.05   -6.896e-02  4.037e-02  -1.708 0.087576 .
## f.22000.0.0-5   8.533e-02  4.079e-02   2.092 0.036438 *
## f.22000.0.050   4.158e-02  4.115e-02   1.010 0.312274
## f.22000.0.051   2.468e-02  4.051e-02   0.609 0.542445
## f.22000.0.052  -3.203e-02  4.124e-02  -0.777 0.437420
## f.22000.0.053  -4.471e-02  4.095e-02  -1.092 0.274922
## f.22000.0.054  -1.193e-02  4.106e-02  -0.291 0.771302
## f.22000.0.055   4.366e-03  4.140e-02   0.105 0.916016
## f.22000.0.056  -4.713e-02  4.104e-02  -1.148 0.250803
## f.22000.0.057  -7.636e-03  4.125e-02  -0.185 0.853150
## f.22000.0.058  -4.677e-02  4.105e-02  -1.139 0.254530
## f.22000.0.059   8.092e-03  4.089e-02   0.198 0.843106
## f.22000.0.06   -1.372e-02  4.022e-02  -0.341 0.733063
## f.22000.0.0-6   5.487e-02  4.111e-02   1.335 0.182002
## f.22000.0.060  -4.412e-02  4.130e-02  -1.068 0.285359
## f.22000.0.061   4.493e-02  4.153e-02   1.082 0.279292
## f.22000.0.062  -8.511e-03  4.140e-02  -0.206 0.837109
## f.22000.0.063   5.478e-03  4.140e-02   0.132 0.894729
## f.22000.0.064  -2.218e-03  4.104e-02  -0.054 0.956891
## f.22000.0.065   2.036e-03  4.128e-02   0.049 0.960668
## f.22000.0.066  -1.512e-03  4.170e-02  -0.036 0.971073
## f.22000.0.067  -1.492e-02  4.126e-02  -0.362 0.717558
## f.22000.0.068   2.152e-02  4.124e-02   0.522 0.601727
## f.22000.0.069  -5.005e-03  4.130e-02  -0.121 0.903541
## f.22000.0.07    1.078e-02  4.053e-02   0.266 0.790215
```

```
## f.22000.0.0-7   1.071e-02  4.090e-02   0.262 0.793478
## f.22000.0.070   3.019e-02  4.129e-02   0.731 0.464655
## f.22000.0.071  -2.377e-02  4.109e-02  -0.579 0.562845
## f.22000.0.072  -1.622e-03  4.134e-02  -0.039 0.968701
## f.22000.0.073   7.889e-03  4.137e-02   0.191 0.848762
## f.22000.0.074  -2.954e-02  4.151e-02  -0.712 0.476671
## f.22000.0.075   1.361e-02  4.113e-02   0.331 0.740665
## f.22000.0.076  -4.124e-02  4.155e-02  -0.993 0.320886
## f.22000.0.077  -5.890e-02  4.132e-02  -1.426 0.153998
## f.22000.0.078  -3.191e-02  4.108e-02  -0.777 0.437328
## f.22000.0.079  -3.457e-02  4.099e-02  -0.843 0.399085
## f.22000.0.08    2.490e-03  4.049e-02   0.061 0.950971
## f.22000.0.0-8   5.208e-02  4.105e-02   1.269 0.204495
## f.22000.0.080  -8.022e-03  4.146e-02  -0.193 0.846572
## f.22000.0.081  -6.791e-03  4.191e-02  -0.162 0.871273
## f.22000.0.082  -4.003e-02  4.142e-02  -0.966 0.333803
## f.22000.0.083  -3.118e-02  4.152e-02  -0.751 0.452708
## f.22000.0.084   1.110e-02  4.153e-02   0.267 0.789344
## f.22000.0.085   5.056e-02  4.137e-02   1.222 0.221640
## f.22000.0.086   6.189e-03  4.149e-02   0.149 0.881409
## f.22000.0.087  -9.145e-02  4.148e-02  -2.205 0.027479 *
## f.22000.0.088  -2.199e-02  4.219e-02  -0.521 0.602175
## f.22000.0.089   5.137e-04  4.191e-02   0.012 0.990221
## f.22000.0.09   -2.526e-02  4.028e-02  -0.627 0.530527
## f.22000.0.0-9   6.223e-02  4.107e-02   1.515 0.129711
## f.22000.0.090   1.667e-02  4.145e-02   0.402 0.687605
## f.22000.0.091   8.908e-03  4.285e-02   0.208 0.835319
## f.22000.0.092  -4.955e-03  4.160e-02  -0.119 0.905192
## f.22000.0.093   7.707e-03  4.154e-02   0.186 0.852825
## f.22000.0.094   2.473e-02  5.311e-02   0.466 0.641447
## f.22000.0.095  -2.083e-02  4.428e-02  -0.470 0.638066
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9966 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.007821,   Adjusted R-squared:  0.006766
## F-statistic: 7.412 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.0781 -0.5914 -0.4133  0.2719  5.1214
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.409e-01 -55.101  < 2e-16 ***
## f.22009.0.1     9.532e-03  2.989e-03   3.189  0.00143 **
## f.22009.0.2    -1.178e-03  2.916e-03  -0.404  0.68625
## f.22009.0.3    -5.422e-04  2.950e-03  -0.184  0.85418
## f.22009.0.5    -1.498e-03  3.130e-03  -0.479  0.63221
## f.22009.0.6     3.764e-04  2.960e-03   0.127  0.89881
## f.22009.0.7    -8.445e-03  3.007e-03  -2.808  0.00498 **
## f.22009.0.8     7.867e-03  3.198e-03   2.460  0.01389 *
```

```
## f.22009.0.9    -8.418e-03  3.036e-03  -2.773  0.00555 **
## f.22009.0.10   -4.159e-05  3.484e-03  -0.012  0.99047
## f.22009.0.11    7.910e-05  4.057e-03   0.019  0.98444
## f.22009.0.12    3.835e-03  3.574e-03   1.073  0.28327
## f.22009.0.13   -4.742e-03  2.908e-03  -1.631  0.10299
## f.22009.0.14   -1.685e-02  3.073e-03  -5.483 4.19e-08 ***
## f.22009.0.15   -1.942e-03  3.149e-03  -0.617  0.53743
## f.22009.0.16   -7.446e-03  3.089e-03  -2.411  0.01593 *
## f.22009.0.17   -1.968e-03  2.869e-03  -0.686  0.49286
## f.22009.0.18    6.748e-04  2.876e-03   0.235  0.81452
## f.22009.0.19    2.385e-03  2.864e-03   0.833  0.40502
## f.22009.0.20    8.523e-04  2.870e-03   0.297  0.76647
## f.22001.0.01   -1.226e-01  5.784e-03 -21.194  < 2e-16 ***
## f.34.0.0        2.093e-02  3.791e-04  55.215  < 2e-16 ***
## f.22000.0.0-1   2.903e-02  4.046e-02   0.718  0.47301
## f.22000.0.010  -3.057e-02  4.088e-02  -0.748  0.45462
## f.22000.0.0-10  8.352e-02  4.111e-02   2.032  0.04220 *
## f.22000.0.011   5.291e-02  4.021e-02   1.316  0.18818
## f.22000.0.0-11  4.823e-02  4.075e-02   1.184  0.23656
## f.22000.0.012   2.270e-02  4.048e-02   0.561  0.57491
## f.22000.0.013  -4.974e-03  4.032e-02  -0.123  0.90183
## f.22000.0.014   4.163e-02  4.006e-02   1.039  0.29874
## f.22000.0.015   4.093e-02  4.042e-02   1.012  0.31134
## f.22000.0.016   5.685e-02  4.057e-02   1.401  0.16112
## f.22000.0.017   4.426e-02  4.019e-02   1.101  0.27087
## f.22000.0.018  -2.407e-02  4.056e-02  -0.593  0.55292
## f.22000.0.019   8.328e-03  3.982e-02   0.209  0.83432
## f.22000.0.02    2.602e-03  3.996e-02   0.065  0.94808
## f.22000.0.0-2   7.934e-02  4.069e-02   1.950  0.05119 .
## f.22000.0.020   2.809e-03  4.049e-02   0.069  0.94471
## f.22000.0.021   2.500e-02  4.035e-02   0.620  0.53557
## f.22000.0.022   2.362e-02  4.036e-02   0.585  0.55835
## f.22000.0.023   1.779e-02  4.036e-02   0.441  0.65934
## f.22000.0.024   1.044e-02  3.983e-02   0.262  0.79324
## f.22000.0.025   5.241e-02  4.085e-02   1.283  0.19954
## f.22000.0.026  -3.994e-02  4.063e-02  -0.983  0.32567
## f.22000.0.027  -1.208e-03  4.000e-02  -0.030  0.97591
## f.22000.0.028   4.694e-03  4.041e-02   0.116  0.90751
## f.22000.0.029   2.126e-02  4.008e-02   0.530  0.59590
## f.22000.0.03    1.218e-02  4.003e-02   0.304  0.76096
## f.22000.0.0-3  -6.308e-03  4.024e-02  -0.157  0.87543
## f.22000.0.030  -3.065e-02  4.007e-02  -0.765  0.44440
## f.22000.0.031  -4.764e-03  4.026e-02  -0.118  0.90581
## f.22000.0.032  -1.864e-02  4.037e-02  -0.462  0.64429
## f.22000.0.033   2.031e-02  4.111e-02   0.494  0.62135
## f.22000.0.034   2.598e-02  4.016e-02   0.647  0.51773
## f.22000.0.035   6.661e-02  4.027e-02   1.654  0.09813 .
## f.22000.0.036   1.398e-02  4.000e-02   0.349  0.72680
## f.22000.0.037  -5.403e-03  4.060e-02  -0.133  0.89412
## f.22000.0.038   5.868e-02  4.040e-02   1.452  0.14639
## f.22000.0.039   2.689e-02  4.088e-02   0.658  0.51067
## f.22000.0.04   -3.249e-03  4.073e-02  -0.080  0.93642
## f.22000.0.0-4   7.634e-02  4.098e-02   1.863  0.06250 .
## f.22000.0.040   4.172e-02  4.041e-02   1.032  0.30193
## f.22000.0.041   1.089e-02  4.095e-02   0.266  0.79029
## f.22000.0.042  -1.287e-02  4.020e-02  -0.320  0.74895
## f.22000.0.043  -3.463e-02  4.101e-02  -0.844  0.39844
## f.22000.0.044   6.648e-02  4.064e-02   1.636  0.10192
## f.22000.0.045   9.196e-03  4.056e-02   0.227  0.82064
## f.22000.0.046  -2.052e-02  4.077e-02  -0.503  0.61469
## f.22000.0.047  -9.636e-03  4.080e-02  -0.236  0.81331
## f.22000.0.048   6.950e-03  4.080e-02   0.170  0.86472
## f.22000.0.049   6.050e-02  4.075e-02   1.485  0.13759
## f.22000.0.05    8.215e-03  4.008e-02   0.205  0.83761
## f.22000.0.0-5   6.405e-02  4.050e-02   1.582  0.11370
## f.22000.0.050  -1.168e-04  4.075e-02  -0.003  0.99771
## f.22000.0.051   7.274e-02  4.023e-02   1.808  0.07059 .
## f.22000.0.052   2.479e-02  4.102e-02   0.604  0.54561
## f.22000.0.053  -1.205e-02  4.061e-02  -0.297  0.76674
## f.22000.0.054   7.023e-02  4.073e-02   1.724  0.08466 .
## f.22000.0.055   6.034e-02  4.115e-02   1.466  0.14253
## f.22000.0.056   4.046e-02  4.079e-02   0.992  0.32114
## f.22000.0.057   5.184e-02  4.090e-02   1.267  0.20499
```

```
## f.22000.0.057   5.184e-02  4.090e-02   1.267  0.20499
## f.22000.0.058   2.761e-02  4.078e-02   0.677  0.49826
## f.22000.0.059   2.810e-02  4.059e-02   0.692  0.48877
## f.22000.0.06    7.780e-03  3.993e-02   0.195  0.84552
## f.22000.0.0-6   4.108e-02  4.087e-02   1.005  0.31484
## f.22000.0.060   6.396e-03  4.099e-02   0.156  0.87601
## f.22000.0.061   3.303e-02  4.119e-02   0.802  0.42262
## f.22000.0.062   4.015e-02  4.108e-02   0.977  0.32838
## f.22000.0.063   1.408e-02  4.106e-02   0.343  0.73171
## f.22000.0.064  -5.628e-03  4.076e-02  -0.138  0.89020
## f.22000.0.065  -1.744e-03  4.098e-02  -0.043  0.96606
## f.22000.0.066  -3.972e-04  4.135e-02  -0.010  0.99234
## f.22000.0.067  -1.772e-02  4.096e-02  -0.433  0.66525
## f.22000.0.068   1.218e-02  4.084e-02   0.298  0.76547
## f.22000.0.069   2.173e-02  4.101e-02   0.530  0.59611
## f.22000.0.07   -2.723e-02  4.024e-02  -0.677  0.49859
## f.22000.0.0-7   5.385e-02  4.056e-02   1.328  0.18430
## f.22000.0.070  -1.585e-02  4.109e-02  -0.386  0.69964
## f.22000.0.071  -1.925e-02  4.083e-02  -0.471  0.63731
## f.22000.0.072   2.359e-03  4.110e-02   0.057  0.95423
## f.22000.0.073   7.789e-03  4.115e-02   0.189  0.84987
## f.22000.0.074   3.968e-02  4.122e-02   0.963  0.33576
## f.22000.0.075   7.324e-02  4.079e-02   1.795  0.07259 .
## f.22000.0.076   5.261e-02  4.123e-02   1.276  0.20198
## f.22000.0.077   2.114e-02  4.103e-02   0.515  0.60641
## f.22000.0.078  -3.854e-02  4.086e-02  -0.943  0.34566
## f.22000.0.079  -8.004e-03  4.068e-02  -0.197  0.84402
## f.22000.0.08    1.244e-03  4.016e-02   0.031  0.97529
## f.22000.0.0-8   2.453e-02  4.084e-02   0.600  0.54818
## f.22000.0.080   6.620e-02  4.116e-02   1.608  0.10776
## f.22000.0.081   2.034e-03  4.169e-02   0.049  0.96109
## f.22000.0.082  -2.058e-02  4.116e-02  -0.500  0.61703
## f.22000.0.083   1.715e-02  4.119e-02   0.416  0.67721
## f.22000.0.084   2.745e-02  4.120e-02   0.666  0.50528
## f.22000.0.085   3.347e-02  4.107e-02   0.815  0.41501
## f.22000.0.086  -1.263e-02  4.115e-02  -0.307  0.75889
## f.22000.0.087   3.263e-02  4.110e-02   0.794  0.42725
## f.22000.0.088   1.095e-02  4.194e-02   0.261  0.79395
## f.22000.0.089   1.103e-02  4.157e-02   0.265  0.79068
## f.22000.0.09   -2.256e-02  3.991e-02  -0.565  0.57183
## f.22000.0.0-9   5.581e-02  4.087e-02   1.365  0.17210
## f.22000.0.090   9.582e-03  4.122e-02   0.232  0.81620
## f.22000.0.091  -4.559e-02  4.251e-02  -1.072  0.28351
## f.22000.0.092   3.885e-02  4.122e-02   0.943  0.34591
## f.22000.0.093   3.456e-02  4.117e-02   0.839  0.40131
## f.22000.0.094  -4.727e-04  5.264e-02  -0.009  0.99284
## f.22000.0.095  -8.042e-03  4.394e-02  -0.183  0.85478
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9843 on 118100 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03226,    Adjusted R-squared:  0.03123
## F-statistic: 31.25 on 126 and 118100 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.22009.0.5 + 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.22009.0.5 + 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
```

```
## -1.1158 -0.5918 -0.4114  0.2719  5.1600
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.105  < 2e-16 ***
## `1.000000`      3.075e-02  2.866e-03  10.730  < 2e-16 ***
## f.22009.0.1     9.305e-03  2.988e-03   3.114  0.00184 **
## f.22009.0.2    -1.079e-03  2.915e-03  -0.370  0.71119
## f.22009.0.3    -4.301e-04  2.949e-03  -0.146  0.88403
## f.22009.0.5    -2.292e-03  3.129e-03  -0.732  0.46397
## f.22009.0.6     2.339e-04  2.958e-03   0.079  0.93699
## f.22009.0.7    -8.150e-03  3.006e-03  -2.712  0.00670 **
## f.22009.0.8     7.952e-03  3.196e-03   2.488  0.01285 *
## f.22009.0.9    -8.372e-03  3.034e-03  -2.759  0.00579 **
## f.22009.0.10    7.411e-06  3.482e-03   0.002  0.99830
## f.22009.0.11   -3.854e-04  4.055e-03  -0.095  0.92429
## f.22009.0.12    3.756e-03  3.573e-03   1.051  0.29306
## f.22009.0.13   -4.743e-03  2.907e-03  -1.632  0.10275
## f.22009.0.14   -1.648e-02  3.072e-03  -5.366 8.08e-08 ***
## f.22009.0.15   -1.913e-03  3.147e-03  -0.608  0.54327
## f.22009.0.16   -7.491e-03  3.087e-03  -2.426  0.01525 *
## f.22009.0.17   -1.868e-03  2.868e-03  -0.651  0.51481
## f.22009.0.18    8.241e-04  2.875e-03   0.287  0.77437
## f.22009.0.19    2.283e-03  2.863e-03   0.797  0.42525
## f.22009.0.20    5.627e-04  2.868e-03   0.196  0.84448
## f.22001.0.01   -1.220e-01  5.782e-03 -21.109  < 2e-16 ***
## f.34.0.0        2.092e-02  3.789e-04  55.218  < 2e-16 ***
## f.22000.0.0-1   2.993e-02  4.044e-02   0.740  0.45923
## f.22000.0.010  -3.033e-02  4.086e-02  -0.742  0.45790
## f.22000.0.0-10  8.521e-02  4.109e-02   2.074  0.03811 *
## f.22000.0.011   5.292e-02  4.019e-02   1.317  0.18789
## f.22000.0.0-11  4.801e-02  4.073e-02   1.179  0.23846
## f.22000.0.012   2.290e-02  4.046e-02   0.566  0.57132
## f.22000.0.013  -3.254e-03  4.030e-02  -0.081  0.93566
## f.22000.0.014   4.230e-02  4.004e-02   1.056  0.29076
## f.22000.0.015   4.118e-02  4.040e-02   1.019  0.30815
## f.22000.0.016   5.762e-02  4.055e-02   1.421  0.15528
## f.22000.0.017   4.355e-02  4.017e-02   1.084  0.27834
## f.22000.0.018  -2.438e-02  4.054e-02  -0.601  0.54756
## f.22000.0.019   1.008e-02  3.980e-02   0.253  0.80010
## f.22000.0.02    2.404e-03  3.994e-02   0.060  0.95200
## f.22000.0.0-2   7.903e-02  4.067e-02   1.943  0.05200 .
## f.22000.0.020   3.571e-03  4.047e-02   0.088  0.92969
## f.22000.0.021   2.528e-02  4.033e-02   0.627  0.53070
## f.22000.0.022   2.438e-02  4.034e-02   0.604  0.54561
## f.22000.0.023   1.785e-02  4.034e-02   0.442  0.65820
## f.22000.0.024   1.099e-02  3.981e-02   0.276  0.78253
## f.22000.0.025   5.222e-02  4.083e-02   1.279  0.20095
## f.22000.0.026  -3.784e-02  4.061e-02  -0.932  0.35148
## f.22000.0.027  -1.023e-03  3.998e-02  -0.026  0.97959
## f.22000.0.028   5.475e-03  4.039e-02   0.136  0.89216
## f.22000.0.029   2.107e-02  4.006e-02   0.526  0.59894
## f.22000.0.03    1.274e-02  4.001e-02   0.318  0.75026
## f.22000.0.0-3  -6.369e-03  4.022e-02  -0.158  0.87417
## f.22000.0.030  -3.086e-02  4.005e-02  -0.770  0.44102
## f.22000.0.031  -5.584e-03  4.025e-02  -0.139  0.88965
## f.22000.0.032  -1.897e-02  4.035e-02  -0.470  0.63821
## f.22000.0.033   2.019e-02  4.109e-02   0.491  0.62320
## f.22000.0.034   2.611e-02  4.015e-02   0.650  0.51543
## f.22000.0.035   6.697e-02  4.025e-02   1.664  0.09614 .
## f.22000.0.036   1.372e-02  3.999e-02   0.343  0.73147
## f.22000.0.037  -4.538e-03  4.058e-02  -0.112  0.91096
## f.22000.0.038   5.964e-02  4.039e-02   1.477  0.13972
## f.22000.0.039   2.601e-02  4.086e-02   0.637  0.52443
## f.22000.0.04   -3.151e-03  4.071e-02  -0.077  0.93830
## f.22000.0.0-4   7.609e-02  4.096e-02   1.858  0.06324 .
## f.22000.0.040   4.286e-02  4.040e-02   1.061  0.28870
## f.22000.0.041   1.218e-02  4.093e-02   0.297  0.76609
## f.22000.0.042  -1.269e-02  4.018e-02  -0.316  0.75211
## f.22000.0.043  -3.426e-02  4.099e-02  -0.836  0.40333
## f.22000.0.044   6.807e-02  4.062e-02   1.676  0.09383 .
## f.22000.0.045   8.085e-03  4.054e-02   0.199  0.84192
## f.22000.0.046  -2.254e-02  4.075e-02  -0.553  0.58009
```

```
## f.22000.0.046  -2.254e-02  4.079e-02  -0.553  0.58009
## f.22000.0.047  -8.146e-03  4.078e-02  -0.200  0.84168
## f.22000.0.048   9.305e-03  4.078e-02   0.228  0.81950
## f.22000.0.049   6.166e-02  4.073e-02   1.514  0.13004
## f.22000.0.05    9.741e-03  4.006e-02   0.243  0.80788
## f.22000.0.0-5   6.571e-02  4.048e-02   1.623  0.10451
## f.22000.0.050   1.135e-03  4.073e-02   0.028  0.97777
## f.22000.0.051   7.372e-02  4.021e-02   1.833  0.06676 .
## f.22000.0.052   2.575e-02  4.100e-02   0.628  0.53001
## f.22000.0.053  -1.120e-02  4.059e-02  -0.276  0.78258
## f.22000.0.054   7.029e-02  4.071e-02   1.727  0.08421 .
## f.22000.0.055   5.952e-02  4.113e-02   1.447  0.14788
## f.22000.0.056   4.186e-02  4.077e-02   1.027  0.30449
## f.22000.0.057   5.218e-02  4.088e-02   1.276  0.20186
## f.22000.0.058   2.867e-02  4.076e-02   0.703  0.48184
## f.22000.0.059   2.786e-02  4.058e-02   0.687  0.49237
## f.22000.0.06    7.779e-03  3.991e-02   0.195  0.84547
## f.22000.0.0-6   4.096e-02  4.085e-02   1.003  0.31605
## f.22000.0.060   7.120e-03  4.097e-02   0.174  0.86203
## f.22000.0.061   3.264e-02  4.117e-02   0.793  0.42792
## f.22000.0.062   3.894e-02  4.106e-02   0.948  0.34291
## f.22000.0.063   1.406e-02  4.104e-02   0.343  0.73183
## f.22000.0.064  -4.820e-03  4.074e-02  -0.118  0.90583
## f.22000.0.065  -1.747e-03  4.096e-02  -0.043  0.96599
## f.22000.0.066   7.571e-04  4.133e-02   0.018  0.98538
## f.22000.0.067  -1.665e-02  4.094e-02  -0.407  0.68419
## f.22000.0.068   1.259e-02  4.082e-02   0.308  0.75779
## f.22000.0.069   2.324e-02  4.099e-02   0.567  0.57064
## f.22000.0.07   -2.660e-02  4.022e-02  -0.661  0.50845
## f.22000.0.0-7   5.497e-02  4.054e-02   1.356  0.17512
## f.22000.0.070  -1.669e-02  4.107e-02  -0.406  0.68449
## f.22000.0.071  -2.048e-02  4.081e-02  -0.502  0.61573
## f.22000.0.072   7.544e-04  4.108e-02   0.018  0.98535
## f.22000.0.073   9.011e-03  4.113e-02   0.219  0.82659
## f.22000.0.074   3.983e-02  4.120e-02   0.967  0.33366
## f.22000.0.075   7.285e-02  4.077e-02   1.787  0.07400 .
## f.22000.0.076   5.147e-02  4.121e-02   1.249  0.21168
## f.22000.0.077   2.267e-02  4.101e-02   0.553  0.58035
## f.22000.0.078  -3.697e-02  4.084e-02  -0.905  0.36535
## f.22000.0.079  -9.516e-03  4.066e-02  -0.234  0.81496
## f.22000.0.08   -1.403e-04  4.014e-02  -0.003  0.99721
## f.22000.0.0-8   2.498e-02  4.082e-02   0.612  0.54062
## f.22000.0.080   6.651e-02  4.114e-02   1.617  0.10596
## f.22000.0.081   2.825e-03  4.167e-02   0.068  0.94595
## f.22000.0.082  -2.101e-02  4.114e-02  -0.511  0.60950
## f.22000.0.083   1.817e-02  4.117e-02   0.441  0.65902
## f.22000.0.084   2.596e-02  4.118e-02   0.630  0.52839
## f.22000.0.085   3.202e-02  4.105e-02   0.780  0.43540
## f.22000.0.086  -1.169e-02  4.113e-02  -0.284  0.77633
## f.22000.0.087   3.210e-02  4.108e-02   0.781  0.43452
## f.22000.0.088   1.116e-02  4.192e-02   0.266  0.79005
## f.22000.0.089   9.621e-03  4.155e-02   0.232  0.81689
## f.22000.0.09   -2.190e-02  3.989e-02  -0.549  0.58294
## f.22000.0.0-9   5.692e-02  4.085e-02   1.393  0.16349
## f.22000.0.090   9.743e-03  4.120e-02   0.236  0.81307
## f.22000.0.091  -4.377e-02  4.249e-02  -1.030  0.30292
## f.22000.0.092   3.789e-02  4.120e-02   0.920  0.35772
## f.22000.0.093   3.410e-02  4.115e-02   0.829  0.40732
## f.22000.0.094   1.285e-03  5.262e-02   0.024  0.98052
## f.22000.0.095  -8.512e-03  4.392e-02  -0.194  0.84632
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03321,    Adjusted R-squared:  0.03217
## F-statistic: 31.94 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1156 -0.5919 -0.4114  0.2718  5.1606
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.104  < 2e-16 ***
## `0.750000`      3.097e-02  2.865e-03  10.809  < 2e-16 ***
## f.22009.0.1     9.301e-03  2.988e-03   3.113  0.00185 **
## f.22009.0.2    -1.080e-03  2.915e-03  -0.371  0.71091
## f.22009.0.3    -4.289e-04  2.949e-03  -0.145  0.88433
## f.22009.0.5    -2.291e-03  3.129e-03  -0.732  0.46412
## f.22009.0.6     2.321e-04  2.958e-03   0.078  0.93746
## f.22009.0.7    -8.146e-03  3.006e-03  -2.710  0.00673 **
## f.22009.0.8     7.961e-03  3.196e-03   2.491  0.01274 *
## f.22009.0.9    -8.382e-03  3.034e-03  -2.763  0.00573 **
## f.22009.0.10    1.385e-05  3.482e-03   0.004  0.99683
## f.22009.0.11   -3.954e-04  4.055e-03  -0.098  0.92231
## f.22009.0.12    3.754e-03  3.573e-03   1.051  0.29339
## f.22009.0.13   -4.739e-03  2.907e-03  -1.630  0.10310
## f.22009.0.14   -1.649e-02  3.072e-03  -5.368 7.99e-08 ***
## f.22009.0.15   -1.913e-03  3.147e-03  -0.608  0.54327
## f.22009.0.16   -7.493e-03  3.087e-03  -2.427  0.01522 *
## f.22009.0.17   -1.868e-03  2.868e-03  -0.651  0.51496
## f.22009.0.18    8.218e-04  2.875e-03   0.286  0.77499
## f.22009.0.19    2.285e-03  2.863e-03   0.798  0.42474
## f.22009.0.20    5.650e-04  2.868e-03   0.197  0.84384
## f.22001.0.01   -1.220e-01  5.781e-03 -21.108  < 2e-16 ***
## f.34.0.0        2.092e-02  3.789e-04  55.217  < 2e-16 ***
## f.22000.0.0-1   2.990e-02  4.044e-02   0.739  0.45974
## f.22000.0.010  -3.036e-02  4.086e-02  -0.743  0.45744
## f.22000.0.0-10  8.520e-02  4.109e-02   2.073  0.03813 *
## f.22000.0.011   5.290e-02  4.019e-02   1.316  0.18806
## f.22000.0.0-11  4.802e-02  4.073e-02   1.179  0.23840
## f.22000.0.012   2.289e-02  4.046e-02   0.566  0.57160
## f.22000.0.013  -3.266e-03  4.030e-02  -0.081  0.93541
## f.22000.0.014   4.229e-02  4.004e-02   1.056  0.29088
## f.22000.0.015   4.111e-02  4.040e-02   1.017  0.30892
## f.22000.0.016   5.756e-02  4.055e-02   1.420  0.15574
## f.22000.0.017   4.348e-02  4.017e-02   1.082  0.27911
## f.22000.0.018  -2.441e-02  4.054e-02  -0.602  0.54711
## f.22000.0.019   1.006e-02  3.980e-02   0.253  0.80040
## f.22000.0.02    2.370e-03  3.994e-02   0.059  0.95268
## f.22000.0.0-2   7.899e-02  4.067e-02   1.942  0.05211 .
## f.22000.0.020   3.514e-03  4.047e-02   0.087  0.93080
## f.22000.0.021   2.524e-02  4.033e-02   0.626  0.53138
## f.22000.0.022   2.434e-02  4.034e-02   0.603  0.54631
## f.22000.0.023   1.781e-02  4.034e-02   0.441  0.65891
## f.22000.0.024   1.098e-02  3.981e-02   0.276  0.78271
## f.22000.0.025   5.220e-02  4.083e-02   1.278  0.20113
## f.22000.0.026  -3.787e-02  4.061e-02  -0.932  0.35109
## f.22000.0.027  -1.058e-03  3.998e-02  -0.026  0.97889
## f.22000.0.028   5.523e-03  4.039e-02   0.137  0.89122
## f.22000.0.029   2.102e-02  4.006e-02   0.525  0.59975
## f.22000.0.03    1.270e-02  4.001e-02   0.317  0.75098
## f.22000.0.0-3  -6.390e-03  4.022e-02  -0.159  0.87376
## f.22000.0.030  -3.086e-02  4.005e-02  -0.770  0.44105
```

```
## f.22000.0.030  -3.086e-02  4.005e-02  -0.770  0.44105
## f.22000.0.031  -5.578e-03  4.025e-02  -0.139  0.88976
## f.22000.0.032  -1.903e-02  4.035e-02  -0.472  0.63725
## f.22000.0.033   2.021e-02  4.109e-02   0.492  0.62289
## f.22000.0.034   2.607e-02  4.015e-02   0.649  0.51603
## f.22000.0.035   6.698e-02  4.025e-02   1.664  0.09612 .
## f.22000.0.036   1.371e-02  3.999e-02   0.343  0.73162
## f.22000.0.037  -4.576e-03  4.058e-02  -0.113  0.91022
## f.22000.0.038   5.968e-02  4.039e-02   1.478  0.13948
## f.22000.0.039   2.598e-02  4.086e-02   0.636  0.52495
## f.22000.0.04   -3.135e-03  4.071e-02  -0.077  0.93861
## f.22000.0.0-4   7.612e-02  4.096e-02   1.858  0.06314 .
## f.22000.0.040   4.283e-02  4.040e-02   1.060  0.28907
## f.22000.0.041   1.217e-02  4.093e-02   0.297  0.76625
## f.22000.0.042  -1.269e-02  4.018e-02  -0.316  0.75222
## f.22000.0.043  -3.422e-02  4.099e-02  -0.835  0.40379
## f.22000.0.044   6.807e-02  4.062e-02   1.676  0.09380 .
## f.22000.0.045   8.059e-03  4.054e-02   0.199  0.84242
## f.22000.0.046  -2.260e-02  4.075e-02  -0.555  0.57914
## f.22000.0.047  -8.182e-03  4.078e-02  -0.201  0.84099
## f.22000.0.048   9.261e-03  4.078e-02   0.227  0.82034
## f.22000.0.049   6.164e-02  4.073e-02   1.513  0.13019
## f.22000.0.05    9.746e-03  4.006e-02   0.243  0.80779
## f.22000.0.0-5   6.575e-02  4.048e-02   1.625  0.10426
## f.22000.0.050   1.133e-03  4.073e-02   0.028  0.97780
## f.22000.0.051   7.369e-02  4.021e-02   1.833  0.06684 .
## f.22000.0.052   2.575e-02  4.100e-02   0.628  0.52989
## f.22000.0.053  -1.122e-02  4.059e-02  -0.276  0.78224
## f.22000.0.054   7.025e-02  4.071e-02   1.726  0.08441 .
## f.22000.0.055   5.947e-02  4.113e-02   1.446  0.14819
## f.22000.0.056   4.181e-02  4.077e-02   1.026  0.30509
## f.22000.0.057   5.215e-02  4.088e-02   1.276  0.20206
## f.22000.0.058   2.860e-02  4.076e-02   0.702  0.48279
## f.22000.0.059   2.785e-02  4.058e-02   0.686  0.49247
## f.22000.0.06    7.793e-03  3.991e-02   0.195  0.84519
## f.22000.0.0-6   4.096e-02  4.085e-02   1.003  0.31606
## f.22000.0.060   7.094e-03  4.097e-02   0.173  0.86253
## f.22000.0.061   3.258e-02  4.117e-02   0.791  0.42869
## f.22000.0.062   3.885e-02  4.106e-02   0.946  0.34403
## f.22000.0.063   1.401e-02  4.104e-02   0.341  0.73278
## f.22000.0.064  -4.810e-03  4.074e-02  -0.118  0.90603
## f.22000.0.065  -1.777e-03  4.096e-02  -0.043  0.96539
## f.22000.0.066   7.190e-04  4.133e-02   0.017  0.98612
## f.22000.0.067  -1.667e-02  4.094e-02  -0.407  0.68387
## f.22000.0.068   1.256e-02  4.082e-02   0.308  0.75841
## f.22000.0.069   2.324e-02  4.099e-02   0.567  0.57075
## f.22000.0.07   -2.656e-02  4.022e-02  -0.660  0.50899
## f.22000.0.0-7   5.495e-02  4.054e-02   1.355  0.17526
## f.22000.0.070  -1.673e-02  4.107e-02  -0.407  0.68369
## f.22000.0.071  -2.051e-02  4.081e-02  -0.503  0.61521
## f.22000.0.072   7.399e-04  4.108e-02   0.018  0.98563
## f.22000.0.073   8.989e-03  4.113e-02   0.219  0.82701
## f.22000.0.074   3.984e-02  4.120e-02   0.967  0.33354
## f.22000.0.075   7.284e-02  4.077e-02   1.786  0.07405 .
## f.22000.0.076   5.149e-02  4.121e-02   1.249  0.21155
## f.22000.0.077   2.263e-02  4.101e-02   0.552  0.58109
## f.22000.0.078  -3.698e-02  4.084e-02  -0.905  0.36530
## f.22000.0.079  -9.550e-03  4.066e-02  -0.235  0.81430
## f.22000.0.08   -1.786e-04  4.014e-02  -0.004  0.99645
## f.22000.0.0-8   2.496e-02  4.082e-02   0.612  0.54086
## f.22000.0.080   6.647e-02  4.114e-02   1.616  0.10615
## f.22000.0.081   2.788e-03  4.167e-02   0.067  0.94666
## f.22000.0.082  -2.102e-02  4.114e-02  -0.511  0.60940
## f.22000.0.083   1.814e-02  4.117e-02   0.441  0.65951
## f.22000.0.084   2.595e-02  4.118e-02   0.630  0.52857
## f.22000.0.085   3.199e-02  4.105e-02   0.779  0.43580
## f.22000.0.086  -1.171e-02  4.113e-02  -0.285  0.77579
## f.22000.0.087   3.208e-02  4.108e-02   0.781  0.43482
## f.22000.0.088   1.112e-02  4.192e-02   0.265  0.79071
## f.22000.0.089   9.545e-03  4.155e-02   0.230  0.81830
## f.22000.0.09   -2.193e-02  3.989e-02  -0.550  0.58250
## f.22000.0.0-9   5.691e-02  4.085e-02   1.393  0.16359
## f.22000.0.090   9.739e-03  4.120e-02   0.236  0.81315
```

```
## f.22000.0.091  -4.374e-02  4.249e-02  -1.030  0.30324
## f.22000.0.092   3.789e-02  4.120e-02   0.920  0.35776
## f.22000.0.093   3.409e-02  4.115e-02   0.828  0.40749
## f.22000.0.094   1.301e-03  5.262e-02   0.025  0.98027
## f.22000.0.095  -8.543e-03  4.392e-02  -0.195  0.84577
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03322,    Adjusted R-squared:  0.03218
## F-statistic: 31.95 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1152 -0.5920 -0.4114  0.2722  5.1622
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.081e+01  7.405e-01 -55.112  < 2e-16 ***
## `0.500000`      3.141e-02  2.865e-03  10.962  < 2e-16 ***
## f.22009.0.1     9.282e-03  2.988e-03   3.107  0.00189 **
## f.22009.0.2    -1.080e-03  2.915e-03  -0.370  0.71106
## f.22009.0.3    -4.398e-04  2.948e-03  -0.149  0.88142
## f.22009.0.5    -2.278e-03  3.129e-03  -0.728  0.46652
## f.22009.0.6     2.251e-04  2.958e-03   0.076  0.93934
## f.22009.0.7    -8.173e-03  3.006e-03  -2.719  0.00655 **
## f.22009.0.8     7.957e-03  3.196e-03   2.490  0.01279 *
## f.22009.0.9    -8.356e-03  3.034e-03  -2.754  0.00589 **
## f.22009.0.10   -2.306e-05  3.482e-03  -0.007  0.99472
## f.22009.0.11   -3.587e-04  4.055e-03  -0.088  0.92952
## f.22009.0.12    3.744e-03  3.573e-03   1.048  0.29470
## f.22009.0.13   -4.736e-03  2.907e-03  -1.629  0.10327
## f.22009.0.14   -1.652e-02  3.071e-03  -5.380 7.46e-08 ***
## f.22009.0.15   -1.922e-03  3.147e-03  -0.611  0.54147
## f.22009.0.16   -7.481e-03  3.087e-03  -2.423  0.01539 *
## f.22009.0.17   -1.879e-03  2.868e-03  -0.655  0.51234
## f.22009.0.18    7.816e-04  2.875e-03   0.272  0.78571
## f.22009.0.19    2.281e-03  2.863e-03   0.797  0.42546
## f.22009.0.20    5.746e-04  2.868e-03   0.200  0.84123
## f.22001.0.01   -1.220e-01  5.781e-03 -21.103  < 2e-16 ***
## f.34.0.0        2.093e-02  3.789e-04  55.224  < 2e-16 ***
## f.22000.0.0-1   2.996e-02  4.044e-02   0.741  0.45885
## f.22000.0.010  -3.026e-02  4.086e-02  -0.740  0.45903
## f.22000.0.0-10  8.533e-02  4.109e-02   2.077  0.03783 *
## f.22000.0.011   5.325e-02  4.019e-02   1.325  0.18517
## f.22000.0.0-11  4.804e-02  4.073e-02   1.180  0.23816
## f.22000.0.012   2.320e-02  4.046e-02   0.573  0.56641
## f.22000.0.013  -3.014e-03  4.030e-02  -0.075  0.94039
## f.22000.0.014   4.251e-02  4.004e-02   1.062  0.28835
## f.22000.0.015   4.134e-02  4.040e-02   1.023  0.30618
## f.22000.0.016   5.767e-02  4.055e-02   1.422  0.15492
## f.22000.0.017   4.376e-02  4.017e-02   1.089  0.27605
## f.22000.0.018  -2.455e-02  4.054e-02  -0.605  0.54490
## f.22000.0.019   1.015e-02  3.980e-02   0.255  0.79864
## f.22000.0.02    2.515e-03  3.994e-02   0.063  0.94979
## f.22000.0.0-2   7.901e-02  4.067e-02   1.943  0.05206
```

```
## f.22000.0.0-2   7.901e-02  4.067e-02   1.943  0.05206 .
## f.22000.0.020   3.517e-03  4.047e-02   0.087  0.93076
## f.22000.0.021   2.540e-02  4.033e-02   0.630  0.52890
## f.22000.0.022   2.461e-02  4.034e-02   0.610  0.54190
## f.22000.0.023   1.793e-02  4.034e-02   0.444  0.65669
## f.22000.0.024   1.113e-02  3.981e-02   0.280  0.77978
## f.22000.0.025   5.232e-02  4.083e-02   1.281  0.20011
## f.22000.0.026  -3.757e-02  4.061e-02  -0.925  0.35491
## f.22000.0.027  -7.253e-04  3.998e-02  -0.018  0.98552
## f.22000.0.028   5.541e-03  4.039e-02   0.137  0.89088
## f.22000.0.029   2.128e-02  4.006e-02   0.531  0.59530
## f.22000.0.03    1.288e-02  4.001e-02   0.322  0.74744
## f.22000.0.0-3  -6.294e-03  4.022e-02  -0.157  0.87563
## f.22000.0.030  -3.078e-02  4.005e-02  -0.769  0.44217
## f.22000.0.031  -5.538e-03  4.024e-02  -0.138  0.89056
## f.22000.0.032  -1.882e-02  4.035e-02  -0.466  0.64096
## f.22000.0.033   2.051e-02  4.109e-02   0.499  0.61775
## f.22000.0.034   2.613e-02  4.014e-02   0.651  0.51519
## f.22000.0.035   6.714e-02  4.025e-02   1.668  0.09533 .
## f.22000.0.036   1.387e-02  3.998e-02   0.347  0.72876
## f.22000.0.037  -4.391e-03  4.058e-02  -0.108  0.91382
## f.22000.0.038   5.991e-02  4.038e-02   1.483  0.13797
## f.22000.0.039   2.617e-02  4.086e-02   0.641  0.52182
## f.22000.0.04   -3.171e-03  4.071e-02  -0.078  0.93791
## f.22000.0.0-4   7.638e-02  4.096e-02   1.865  0.06221 .
## f.22000.0.040   4.300e-02  4.039e-02   1.064  0.28712
## f.22000.0.041   1.227e-02  4.093e-02   0.300  0.76427
## f.22000.0.042  -1.246e-02  4.018e-02  -0.310  0.75652
## f.22000.0.043  -3.403e-02  4.099e-02  -0.830  0.40643
## f.22000.0.044   6.818e-02  4.062e-02   1.678  0.09325 .
## f.22000.0.045   8.262e-03  4.054e-02   0.204  0.83852
## f.22000.0.046  -2.241e-02  4.075e-02  -0.550  0.58227
## f.22000.0.047  -8.116e-03  4.078e-02  -0.199  0.84225
## f.22000.0.048   9.146e-03  4.078e-02   0.224  0.82253
## f.22000.0.049   6.173e-02  4.073e-02   1.516  0.12958
## f.22000.0.05    9.949e-03  4.006e-02   0.248  0.80386
## f.22000.0.0-5   6.603e-02  4.048e-02   1.631  0.10282
## f.22000.0.050   1.346e-03  4.073e-02   0.033  0.97363
## f.22000.0.051   7.387e-02  4.021e-02   1.837  0.06618 .
## f.22000.0.052   2.611e-02  4.100e-02   0.637  0.52430
## f.22000.0.053  -1.114e-02  4.059e-02  -0.274  0.78382
## f.22000.0.054   7.036e-02  4.071e-02   1.729  0.08390 .
## f.22000.0.055   5.953e-02  4.113e-02   1.447  0.14779
## f.22000.0.056   4.211e-02  4.077e-02   1.033  0.30159
## f.22000.0.057   5.222e-02  4.088e-02   1.277  0.20148
## f.22000.0.058   2.862e-02  4.075e-02   0.702  0.48253
## f.22000.0.059   2.788e-02  4.057e-02   0.687  0.49200
## f.22000.0.06    8.052e-03  3.991e-02   0.202  0.84011
## f.22000.0.0-6   4.117e-02  4.085e-02   1.008  0.31351
## f.22000.0.060   7.388e-03  4.097e-02   0.180  0.85689
## f.22000.0.061   3.288e-02  4.117e-02   0.799  0.42443
## f.22000.0.062   3.898e-02  4.106e-02   0.949  0.34240
## f.22000.0.063   1.424e-02  4.104e-02   0.347  0.72859
## f.22000.0.064  -4.640e-03  4.074e-02  -0.114  0.90934
## f.22000.0.065  -1.731e-03  4.096e-02  -0.042  0.96629
## f.22000.0.066   8.749e-04  4.132e-02   0.021  0.98311
## f.22000.0.067  -1.649e-02  4.094e-02  -0.403  0.68714
## f.22000.0.068   1.283e-02  4.082e-02   0.314  0.75334
## f.22000.0.069   2.338e-02  4.099e-02   0.570  0.56847
## f.22000.0.07   -2.640e-02  4.022e-02  -0.656  0.51159
## f.22000.0.0-7   5.524e-02  4.054e-02   1.362  0.17305
## f.22000.0.070  -1.649e-02  4.107e-02  -0.401  0.68810
## f.22000.0.071  -2.046e-02  4.081e-02  -0.501  0.61613
## f.22000.0.072   1.023e-03  4.108e-02   0.025  0.98013
## f.22000.0.073   9.085e-03  4.113e-02   0.221  0.82518
## f.22000.0.074   3.998e-02  4.120e-02   0.970  0.33183
## f.22000.0.075   7.281e-02  4.077e-02   1.786  0.07413 .
## f.22000.0.076   5.149e-02  4.121e-02   1.249  0.21155
## f.22000.0.077   2.269e-02  4.101e-02   0.553  0.57997
## f.22000.0.078  -3.684e-02  4.084e-02  -0.902  0.36700
## f.22000.0.079  -9.393e-03  4.066e-02  -0.231  0.81730
## f.22000.0.08   -1.288e-04  4.014e-02  -0.003  0.99744
## f.22000.0.0-8   2.515e-02  4.082e-02   0.616  0.53792
```

```
## f.22000.0.080   6.669e-02  4.114e-02   1.621  0.10500
## f.22000.0.081   3.127e-03  4.167e-02   0.075  0.94017
## f.22000.0.082  -2.084e-02  4.114e-02  -0.507  0.61247
## f.22000.0.083   1.825e-02  4.117e-02   0.443  0.65758
## f.22000.0.084   2.606e-02  4.118e-02   0.633  0.52683
## f.22000.0.085   3.216e-02  4.105e-02   0.784  0.43331
## f.22000.0.086  -1.150e-02  4.113e-02  -0.280  0.77982
## f.22000.0.087   3.231e-02  4.108e-02   0.787  0.43157
## f.22000.0.088   1.115e-02  4.192e-02   0.266  0.79030
## f.22000.0.089   9.585e-03  4.155e-02   0.231  0.81757
## f.22000.0.09   -2.176e-02  3.989e-02  -0.546  0.58533
## f.22000.0.0-9   5.714e-02  4.085e-02   1.399  0.16190
## f.22000.0.090   1.002e-02  4.120e-02   0.243  0.80781
## f.22000.0.091  -4.346e-02  4.249e-02  -1.023  0.30635
## f.22000.0.092   3.810e-02  4.120e-02   0.925  0.35516
## f.22000.0.093   3.431e-02  4.115e-02   0.834  0.40437
## f.22000.0.094   1.404e-03  5.262e-02   0.027  0.97871
## f.22000.0.095  -8.356e-03  4.392e-02  -0.190  0.84911
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03325,    Adjusted R-squared:  0.03221
## F-statistic: 31.98 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1112 -0.5914 -0.4115  0.2720  5.1505
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.406e-01 -55.118  < 2e-16 ***
## `0.250000`      2.910e-02  2.866e-03  10.152  < 2e-16 ***
## f.22009.0.1     9.279e-03  2.988e-03   3.105  0.00190 **
## f.22009.0.2    -1.086e-03  2.915e-03  -0.372  0.70954
## f.22009.0.3    -4.371e-04  2.949e-03  -0.148  0.88215
## f.22009.0.5    -2.300e-03  3.130e-03  -0.735  0.46230
## f.22009.0.6     2.439e-04  2.958e-03   0.082  0.93430
## f.22009.0.7    -8.191e-03  3.006e-03  -2.725  0.00643 **
## f.22009.0.8     7.929e-03  3.196e-03   2.481  0.01311 *
## f.22009.0.9    -8.304e-03  3.034e-03  -2.737  0.00621 **
## f.22009.0.10    2.567e-05  3.482e-03   0.007  0.99412
## f.22009.0.11   -3.877e-04  4.055e-03  -0.096  0.92383
## f.22009.0.12    3.737e-03  3.573e-03   1.046  0.29554
## f.22009.0.13   -4.705e-03  2.907e-03  -1.618  0.10560
## f.22009.0.14   -1.658e-02  3.072e-03  -5.398 6.77e-08 ***
## f.22009.0.15   -1.990e-03  3.147e-03  -0.632  0.52719
## f.22009.0.16   -7.418e-03  3.087e-03  -2.403  0.01628 *
## f.22009.0.17   -1.851e-03  2.868e-03  -0.645  0.51864
## f.22009.0.18    7.691e-04  2.875e-03   0.268  0.78906
## f.22009.0.19    2.305e-03  2.863e-03   0.805  0.42070
## f.22009.0.20    6.263e-04  2.868e-03   0.218  0.82717
## f.22001.0.01   -1.220e-01  5.782e-03 -21.108  < 2e-16 ***
## f.34.0.0        2.093e-02  3.790e-04  55.231  < 2e-16 ***
## f.22000.0.0-1   2.966e-02  4.044e-02   0.733  0.46340
## f.22000.0.010  -2.992e-02  4.086e-02  -0.732  0.46400
```

```
## f.22000.0.010  -2.992e-02  4.080e-02  -0.732  0.46400
## f.22000.0.0-10  8.512e-02  4.109e-02   2.071  0.03832 *
## f.22000.0.011   5.283e-02  4.019e-02   1.314  0.18874
## f.22000.0.0-11  4.805e-02  4.073e-02   1.180  0.23812
## f.22000.0.012   2.311e-02  4.046e-02   0.571  0.56780
## f.22000.0.013  -3.782e-03  4.031e-02  -0.094  0.92523
## f.22000.0.014   4.175e-02  4.004e-02   1.043  0.29703
## f.22000.0.015   4.104e-02  4.041e-02   1.016  0.30980
## f.22000.0.016   5.689e-02  4.055e-02   1.403  0.16065
## f.22000.0.017   4.352e-02  4.018e-02   1.083  0.27872
## f.22000.0.018  -2.435e-02  4.055e-02  -0.601  0.54811
## f.22000.0.019   9.716e-03  3.980e-02   0.244  0.80715
## f.22000.0.02    2.549e-03  3.995e-02   0.064  0.94911
## f.22000.0.0-2   7.874e-02  4.067e-02   1.936  0.05288 .
## f.22000.0.020   3.203e-03  4.048e-02   0.079  0.93693
## f.22000.0.021   2.534e-02  4.033e-02   0.628  0.52980
## f.22000.0.022   2.425e-02  4.034e-02   0.601  0.54780
## f.22000.0.023   1.812e-02  4.034e-02   0.449  0.65331
## f.22000.0.024   1.116e-02  3.981e-02   0.280  0.77928
## f.22000.0.025   5.182e-02  4.083e-02   1.269  0.20448
## f.22000.0.026  -3.767e-02  4.062e-02  -0.928  0.35366
## f.22000.0.027  -1.043e-03  3.998e-02  -0.026  0.97919
## f.22000.0.028   5.159e-03  4.039e-02   0.128  0.89836
## f.22000.0.029   2.114e-02  4.007e-02   0.528  0.59784
## f.22000.0.03    1.229e-02  4.001e-02   0.307  0.75864
## f.22000.0.0-3  -6.773e-03  4.022e-02  -0.168  0.86626
## f.22000.0.030  -3.084e-02  4.006e-02  -0.770  0.44131
## f.22000.0.031  -5.880e-03  4.025e-02  -0.146  0.88385
## f.22000.0.032  -1.871e-02  4.035e-02  -0.464  0.64284
## f.22000.0.033   2.037e-02  4.109e-02   0.496  0.62016
## f.22000.0.034   2.555e-02  4.015e-02   0.637  0.52444
## f.22000.0.035   6.669e-02  4.025e-02   1.657  0.09756 .
## f.22000.0.036   1.359e-02  3.999e-02   0.340  0.73395
## f.22000.0.037  -4.911e-03  4.058e-02  -0.121  0.90368
## f.22000.0.038   6.003e-02  4.039e-02   1.486  0.13716
## f.22000.0.039   2.597e-02  4.086e-02   0.636  0.52506
## f.22000.0.04   -3.163e-03  4.071e-02  -0.078  0.93806
## f.22000.0.0-4   7.632e-02  4.096e-02   1.863  0.06243 .
## f.22000.0.040   4.285e-02  4.040e-02   1.061  0.28878
## f.22000.0.041   1.217e-02  4.093e-02   0.297  0.76620
## f.22000.0.042  -1.302e-02  4.018e-02  -0.324  0.74593
## f.22000.0.043  -3.413e-02  4.099e-02  -0.833  0.40513
## f.22000.0.044   6.746e-02  4.063e-02   1.661  0.09680 .
## f.22000.0.045   7.911e-03  4.054e-02   0.195  0.84530
## f.22000.0.046  -2.262e-02  4.075e-02  -0.555  0.57881
## f.22000.0.047  -8.209e-03  4.079e-02  -0.201  0.84049
## f.22000.0.048   8.783e-03  4.078e-02   0.215  0.82947
## f.22000.0.049   6.133e-02  4.073e-02   1.506  0.13214
## f.22000.0.05    9.530e-03  4.006e-02   0.238  0.81198
## f.22000.0.0-5   6.595e-02  4.048e-02   1.629  0.10326
## f.22000.0.050   1.423e-03  4.073e-02   0.035  0.97213
## f.22000.0.051   7.331e-02  4.021e-02   1.823  0.06829 .
## f.22000.0.052   2.565e-02  4.100e-02   0.626  0.53154
## f.22000.0.053  -1.124e-02  4.060e-02  -0.277  0.78181
## f.22000.0.054   7.018e-02  4.071e-02   1.724  0.08471 .
## f.22000.0.055   5.915e-02  4.113e-02   1.438  0.15044
## f.22000.0.056   4.163e-02  4.077e-02   1.021  0.30719
## f.22000.0.057   5.199e-02  4.089e-02   1.272  0.20355
## f.22000.0.058   2.830e-02  4.076e-02   0.694  0.48753
## f.22000.0.059   2.747e-02  4.058e-02   0.677  0.49837
## f.22000.0.06    7.775e-03  3.991e-02   0.195  0.84554
## f.22000.0.0-6   4.104e-02  4.085e-02   1.004  0.31515
## f.22000.0.060   7.234e-03  4.097e-02   0.177  0.85985
## f.22000.0.061   3.298e-02  4.117e-02   0.801  0.42310
## f.22000.0.062   3.881e-02  4.106e-02   0.945  0.34463
## f.22000.0.063   1.439e-02  4.104e-02   0.351  0.72593
## f.22000.0.064  -5.097e-03  4.075e-02  -0.125  0.90045
## f.22000.0.065  -1.851e-03  4.096e-02  -0.045  0.96396
## f.22000.0.066   7.135e-04  4.133e-02   0.017  0.98623
## f.22000.0.067  -1.685e-02  4.094e-02  -0.411  0.68072
## f.22000.0.068   1.283e-02  4.082e-02   0.314  0.75329
## f.22000.0.069   2.323e-02  4.099e-02   0.567  0.57096
## f.22000.0.07   -2.664e-02  4.022e-02  -0.662  0.50782
```

```
## f.22000.0.0-7   5.486e-02  4.054e-02   1.353  0.17601
## f.22000.0.070  -1.703e-02  4.107e-02  -0.415  0.67836
## f.22000.0.071  -2.058e-02  4.082e-02  -0.504  0.61414
## f.22000.0.072   1.309e-03  4.108e-02   0.032  0.97458
## f.22000.0.073   8.834e-03  4.113e-02   0.215  0.82995
## f.22000.0.074   3.984e-02  4.120e-02   0.967  0.33356
## f.22000.0.075   7.314e-02  4.078e-02   1.794  0.07288 .
## f.22000.0.076   5.142e-02  4.121e-02   1.248  0.21218
## f.22000.0.077   2.225e-02  4.101e-02   0.542  0.58752
## f.22000.0.078  -3.752e-02  4.085e-02  -0.919  0.35833
## f.22000.0.079  -9.428e-03  4.066e-02  -0.232  0.81665
## f.22000.0.08   -8.957e-05  4.014e-02  -0.002  0.99822
## f.22000.0.0-8   2.502e-02  4.083e-02   0.613  0.53994
## f.22000.0.080   6.652e-02  4.114e-02   1.617  0.10591
## f.22000.0.081   2.374e-03  4.167e-02   0.057  0.95456
## f.22000.0.082  -2.074e-02  4.114e-02  -0.504  0.61413
## f.22000.0.083   1.779e-02  4.117e-02   0.432  0.66561
## f.22000.0.084   2.600e-02  4.118e-02   0.631  0.52789
## f.22000.0.085   3.207e-02  4.105e-02   0.781  0.43465
## f.22000.0.086  -1.179e-02  4.113e-02  -0.287  0.77436
## f.22000.0.087   3.228e-02  4.108e-02   0.786  0.43194
## f.22000.0.088   1.135e-02  4.192e-02   0.271  0.78660
## f.22000.0.089   9.699e-03  4.155e-02   0.233  0.81545
## f.22000.0.09   -2.228e-02  3.989e-02  -0.558  0.57655
## f.22000.0.0-9   5.669e-02  4.085e-02   1.388  0.16523
## f.22000.0.090   9.836e-03  4.120e-02   0.239  0.81133
## f.22000.0.091  -4.395e-02  4.249e-02  -1.034  0.30102
## f.22000.0.092   3.815e-02  4.120e-02   0.926  0.35450
## f.22000.0.093   3.395e-02  4.115e-02   0.825  0.40948
## f.22000.0.094   1.290e-03  5.262e-02   0.025  0.98044
## f.22000.0.095  -8.468e-03  4.392e-02  -0.193  0.84712
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9838 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03311,    Adjusted R-squared:  0.03207
## F-statistic: 31.84 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1038 -0.5919 -0.4119  0.2727  5.1434
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.406e-01 -55.117  < 2e-16 ***
## `0.100000`      2.761e-02  2.866e-03   9.632  < 2e-16 ***
## f.22009.0.1     9.321e-03  2.988e-03   3.119  0.00181 **
## f.22009.0.2    -1.077e-03  2.915e-03  -0.369  0.71186
## f.22009.0.3    -4.197e-04  2.949e-03  -0.142  0.88683
## f.22009.0.5    -2.312e-03  3.130e-03  -0.739  0.46015
## f.22009.0.6     1.764e-04  2.958e-03   0.060  0.95247
## f.22009.0.7    -8.190e-03  3.006e-03  -2.725  0.00644 **
## f.22009.0.8     7.940e-03  3.196e-03   2.484  0.01299 *
## f.22009.0.9    -8.265e-03  3.035e-03  -2.724  0.00645 **
## f.22009.0.10   -2.011e-06  3.482e-03  -0.001  0.99954
## f.22009.0.11   -4.146e-04  4.055e-03  -0.102  0.91857
```

```
## f.22009.0.11   -4.146e-04  4.055e-03  -0.102  0.91857
## f.22009.0.12    3.760e-03  3.573e-03   1.052  0.29266
## f.22009.0.13   -4.821e-03  2.907e-03  -1.658  0.09730 .
## f.22009.0.14   -1.646e-02  3.072e-03  -5.359 8.37e-08 ***
## f.22009.0.15   -2.043e-03  3.147e-03  -0.649  0.51635
## f.22009.0.16   -7.456e-03  3.088e-03  -2.415  0.01575 *
## f.22009.0.17   -1.849e-03  2.868e-03  -0.645  0.51922
## f.22009.0.18    7.322e-04  2.875e-03   0.255  0.79898
## f.22009.0.19    2.387e-03  2.863e-03   0.834  0.40444
## f.22009.0.20    6.634e-04  2.869e-03   0.231  0.81712
## f.22001.0.01   -1.222e-01  5.782e-03 -21.131  < 2e-16 ***
## f.34.0.0        2.093e-02  3.790e-04  55.231  < 2e-16 ***
## f.22000.0.0-1   2.916e-02  4.044e-02   0.721  0.47095
## f.22000.0.010  -3.029e-02  4.087e-02  -0.741  0.45851
## f.22000.0.0-10  8.462e-02  4.110e-02   2.059  0.03949 *
## f.22000.0.011   5.238e-02  4.019e-02   1.303  0.19255
## f.22000.0.0-11  4.787e-02  4.073e-02   1.175  0.23992
## f.22000.0.012   2.330e-02  4.046e-02   0.576  0.56479
## f.22000.0.013  -3.808e-03  4.031e-02  -0.094  0.92474
## f.22000.0.014   4.196e-02  4.004e-02   1.048  0.29471
## f.22000.0.015   4.082e-02  4.041e-02   1.010  0.31246
## f.22000.0.016   5.669e-02  4.055e-02   1.398  0.16212
## f.22000.0.017   4.359e-02  4.018e-02   1.085  0.27792
## f.22000.0.018  -2.429e-02  4.055e-02  -0.599  0.54919
## f.22000.0.019   8.765e-03  3.980e-02   0.220  0.82571
## f.22000.0.02    2.205e-03  3.995e-02   0.055  0.95598
## f.22000.0.0-2   7.925e-02  4.067e-02   1.949  0.05135 .
## f.22000.0.020   2.713e-03  4.048e-02   0.067  0.94657
## f.22000.0.021   2.509e-02  4.033e-02   0.622  0.53391
## f.22000.0.022   2.406e-02  4.035e-02   0.596  0.55098
## f.22000.0.023   1.766e-02  4.034e-02   0.438  0.66157
## f.22000.0.024   1.092e-02  3.981e-02   0.274  0.78393
## f.22000.0.025   5.155e-02  4.084e-02   1.262  0.20683
## f.22000.0.026  -3.802e-02  4.062e-02  -0.936  0.34923
## f.22000.0.027  -7.767e-04  3.998e-02  -0.019  0.98450
## f.22000.0.028   5.437e-03  4.039e-02   0.135  0.89291
## f.22000.0.029   2.103e-02  4.007e-02   0.525  0.59967
## f.22000.0.03    1.204e-02  4.001e-02   0.301  0.76354
## f.22000.0.0-3  -6.261e-03  4.022e-02  -0.156  0.87630
## f.22000.0.030  -3.121e-02  4.006e-02  -0.779  0.43590
## f.22000.0.031  -5.958e-03  4.025e-02  -0.148  0.88233
## f.22000.0.032  -1.878e-02  4.035e-02  -0.465  0.64170
## f.22000.0.033   2.026e-02  4.109e-02   0.493  0.62196
## f.22000.0.034   2.577e-02  4.015e-02   0.642  0.52091
## f.22000.0.035   6.641e-02  4.026e-02   1.650  0.09902 .
## f.22000.0.036   1.358e-02  3.999e-02   0.340  0.73410
## f.22000.0.037  -4.634e-03  4.058e-02  -0.114  0.90910
## f.22000.0.038   5.977e-02  4.039e-02   1.480  0.13891
## f.22000.0.039   2.577e-02  4.086e-02   0.631  0.52825
## f.22000.0.04   -3.258e-03  4.071e-02  -0.080  0.93622
## f.22000.0.0-4   7.572e-02  4.097e-02   1.848  0.06453 .
## f.22000.0.040   4.236e-02  4.040e-02   1.048  0.29444
## f.22000.0.041   1.155e-02  4.093e-02   0.282  0.77790
## f.22000.0.042  -1.307e-02  4.019e-02  -0.325  0.74499
## f.22000.0.043  -3.489e-02  4.099e-02  -0.851  0.39470
## f.22000.0.044   6.691e-02  4.063e-02   1.647  0.09959 .
## f.22000.0.045   7.997e-03  4.054e-02   0.197  0.84364
## f.22000.0.046  -2.242e-02  4.075e-02  -0.550  0.58225
## f.22000.0.047  -8.067e-03  4.079e-02  -0.198  0.84322
## f.22000.0.048   8.617e-03  4.078e-02   0.211  0.83266
## f.22000.0.049   6.117e-02  4.073e-02   1.502  0.13315
## f.22000.0.05    8.894e-03  4.006e-02   0.222  0.82433
## f.22000.0.0-5   6.584e-02  4.048e-02   1.626  0.10386
## f.22000.0.050   1.898e-03  4.073e-02   0.047  0.96282
## f.22000.0.051   7.307e-02  4.021e-02   1.817  0.06922 .
## f.22000.0.052   2.573e-02  4.100e-02   0.627  0.53035
## f.22000.0.053  -1.159e-02  4.060e-02  -0.285  0.77530
## f.22000.0.054   6.988e-02  4.071e-02   1.716  0.08608 .
## f.22000.0.055   5.925e-02  4.113e-02   1.440  0.14975
## f.22000.0.056   4.164e-02  4.077e-02   1.021  0.30709
## f.22000.0.057   5.183e-02  4.089e-02   1.268  0.20489
## f.22000.0.058   2.787e-02  4.076e-02   0.684  0.49413
## f.22000.0.059   2.772e-02  4.058e-02   0.683  0.49449
```

```
## f.22000.0.06    7.963e-03  3.991e-02   0.200  0.84187
## f.22000.0.0-6   4.038e-02  4.086e-02   0.988  0.32300
## f.22000.0.060   6.800e-03  4.097e-02   0.166  0.86818
## f.22000.0.061   3.349e-02  4.117e-02   0.813  0.41604
## f.22000.0.062   3.888e-02  4.106e-02   0.947  0.34376
## f.22000.0.063   1.444e-02  4.104e-02   0.352  0.72488
## f.22000.0.064  -4.566e-03  4.075e-02  -0.112  0.91077
## f.22000.0.065  -1.242e-03  4.096e-02  -0.030  0.97582
## f.22000.0.066  -4.273e-04  4.133e-02  -0.010  0.99175
## f.22000.0.067  -1.744e-02  4.094e-02  -0.426  0.67010
## f.22000.0.068   1.200e-02  4.083e-02   0.294  0.76873
## f.22000.0.069   2.272e-02  4.099e-02   0.554  0.57942
## f.22000.0.07   -2.681e-02  4.022e-02  -0.667  0.50500
## f.22000.0.0-7   5.452e-02  4.054e-02   1.345  0.17875
## f.22000.0.070  -1.701e-02  4.107e-02  -0.414  0.67883
## f.22000.0.071  -2.001e-02  4.082e-02  -0.490  0.62396
## f.22000.0.072   1.226e-03  4.108e-02   0.030  0.97620
## f.22000.0.073   9.039e-03  4.114e-02   0.220  0.82607
## f.22000.0.074   3.992e-02  4.120e-02   0.969  0.33263
## f.22000.0.075   7.328e-02  4.078e-02   1.797  0.07231 .
## f.22000.0.076   5.239e-02  4.122e-02   1.271  0.20365
## f.22000.0.077   2.249e-02  4.101e-02   0.548  0.58343
## f.22000.0.078  -3.713e-02  4.085e-02  -0.909  0.36329
## f.22000.0.079  -9.766e-03  4.066e-02  -0.240  0.81021
## f.22000.0.08   -5.312e-04  4.014e-02  -0.013  0.98944
## f.22000.0.0-8   2.541e-02  4.083e-02   0.622  0.53374
## f.22000.0.080   6.676e-02  4.115e-02   1.623  0.10468
## f.22000.0.081   2.054e-03  4.167e-02   0.049  0.96068
## f.22000.0.082  -2.101e-02  4.114e-02  -0.511  0.60952
## f.22000.0.083   1.730e-02  4.118e-02   0.420  0.67435
## f.22000.0.084   2.599e-02  4.119e-02   0.631  0.52799
## f.22000.0.085   3.207e-02  4.105e-02   0.781  0.43463
## f.22000.0.086  -1.234e-02  4.113e-02  -0.300  0.76416
## f.22000.0.087   3.244e-02  4.108e-02   0.790  0.42974
## f.22000.0.088   1.140e-02  4.192e-02   0.272  0.78568
## f.22000.0.089   1.012e-02  4.156e-02   0.244  0.80755
## f.22000.0.09   -2.201e-02  3.989e-02  -0.552  0.58107
## f.22000.0.0-9   5.685e-02  4.086e-02   1.391  0.16411
## f.22000.0.090   9.715e-03  4.121e-02   0.236  0.81363
## f.22000.0.091  -4.407e-02  4.249e-02  -1.037  0.29966
## f.22000.0.092   3.795e-02  4.121e-02   0.921  0.35705
## f.22000.0.093   3.390e-02  4.116e-02   0.824  0.41007
## f.22000.0.094   7.932e-04  5.262e-02   0.015  0.98797
## f.22000.0.095  -8.276e-03  4.392e-02  -0.188  0.85055
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9839 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03302,    Adjusted R-squared:  0.03198
## F-statistic: 31.76 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.0947 -0.5921 -0.4124  0.2727  5.1291
##
## Coefficients:
```

```
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.082e+01  7.406e-01 -55.115  < 2e-16 ***
## `0.010000`      2.569e-02  2.865e-03   8.968  < 2e-16 ***
## f.22009.0.1     9.446e-03  2.988e-03   3.161  0.00157 **
## f.22009.0.2    -1.055e-03  2.915e-03  -0.362  0.71743
## f.22009.0.3    -5.617e-04  2.949e-03  -0.190  0.84894
## f.22009.0.5    -2.014e-03  3.129e-03  -0.643  0.51992
## f.22009.0.6     3.671e-05  2.959e-03   0.012  0.99010
## f.22009.0.7    -8.286e-03  3.006e-03  -2.756  0.00585 **
## f.22009.0.8     7.879e-03  3.197e-03   2.465  0.01371 *
## f.22009.0.9    -8.180e-03  3.035e-03  -2.696  0.00703 **
## f.22009.0.10    9.973e-05  3.482e-03   0.029  0.97715
## f.22009.0.11   -1.439e-04  4.055e-03  -0.035  0.97169
## f.22009.0.12    3.759e-03  3.573e-03   1.052  0.29280
## f.22009.0.13   -4.843e-03  2.907e-03  -1.666  0.09575 .
## f.22009.0.14   -1.653e-02  3.072e-03  -5.380 7.46e-08 ***
## f.22009.0.15   -2.002e-03  3.148e-03  -0.636  0.52482
## f.22009.0.16   -7.512e-03  3.088e-03  -2.433  0.01499 *
## f.22009.0.17   -1.772e-03  2.869e-03  -0.618  0.53675
## f.22009.0.18    8.186e-04  2.875e-03   0.285  0.77588
## f.22009.0.19    2.602e-03  2.863e-03   0.909  0.36348
## f.22009.0.20    4.557e-04  2.869e-03   0.159  0.87380
## f.22001.0.01   -1.222e-01  5.782e-03 -21.131  < 2e-16 ***
## f.34.0.0        2.093e-02  3.790e-04  55.227  < 2e-16 ***
## f.22000.0.0-1   2.996e-02  4.045e-02   0.741  0.45885
## f.22000.0.010  -3.058e-02  4.087e-02  -0.748  0.45428
## f.22000.0.0-10  8.551e-02  4.110e-02   2.081  0.03748 *
## f.22000.0.011   5.337e-02  4.020e-02   1.328  0.18426
## f.22000.0.0-11  4.896e-02  4.073e-02   1.202  0.22942
## f.22000.0.012   2.397e-02  4.046e-02   0.592  0.55365
## f.22000.0.013  -3.757e-03  4.031e-02  -0.093  0.92574
## f.22000.0.014   4.276e-02  4.004e-02   1.068  0.28565
## f.22000.0.015   4.206e-02  4.041e-02   1.041  0.29798
## f.22000.0.016   5.777e-02  4.055e-02   1.425  0.15429
## f.22000.0.017   4.412e-02  4.018e-02   1.098  0.27217
## f.22000.0.018  -2.356e-02  4.055e-02  -0.581  0.56125
## f.22000.0.019   9.445e-03  3.980e-02   0.237  0.81243
## f.22000.0.02    3.022e-03  3.995e-02   0.076  0.93971
## f.22000.0.0-2   8.043e-02  4.068e-02   1.977  0.04802 *
## f.22000.0.020   4.723e-03  4.048e-02   0.117  0.90712
## f.22000.0.021   2.647e-02  4.034e-02   0.656  0.51171
## f.22000.0.022   2.545e-02  4.035e-02   0.631  0.52828
## f.22000.0.023   1.832e-02  4.035e-02   0.454  0.64986
## f.22000.0.024   1.262e-02  3.981e-02   0.317  0.75124
## f.22000.0.025   5.170e-02  4.084e-02   1.266  0.20555
## f.22000.0.026  -3.710e-02  4.062e-02  -0.913  0.36112
## f.22000.0.027  -9.763e-04  3.999e-02  -0.024  0.98052
## f.22000.0.028   6.534e-03  4.039e-02   0.162  0.87150
## f.22000.0.029   2.224e-02  4.007e-02   0.555  0.57887
## f.22000.0.03    1.295e-02  4.002e-02   0.324  0.74622
## f.22000.0.0-3  -4.260e-03  4.022e-02  -0.106  0.91565
## f.22000.0.030  -2.935e-02  4.006e-02  -0.733  0.46382
## f.22000.0.031  -4.009e-03  4.025e-02  -0.100  0.92067
## f.22000.0.032  -1.811e-02  4.036e-02  -0.449  0.65353
## f.22000.0.033   2.168e-02  4.110e-02   0.527  0.59785
## f.22000.0.034   2.632e-02  4.015e-02   0.656  0.51206
## f.22000.0.035   6.751e-02  4.026e-02   1.677  0.09356 .
## f.22000.0.036   1.472e-02  3.999e-02   0.368  0.71277
## f.22000.0.037  -4.402e-03  4.058e-02  -0.108  0.91363
## f.22000.0.038   6.074e-02  4.039e-02   1.504  0.13267
## f.22000.0.039   2.725e-02  4.087e-02   0.667  0.50484
## f.22000.0.04   -2.819e-03  4.072e-02  -0.069  0.94479
## f.22000.0.0-4   7.654e-02  4.097e-02   1.868  0.06172 .
## f.22000.0.040   4.270e-02  4.040e-02   1.057  0.29060
## f.22000.0.041   1.150e-02  4.094e-02   0.281  0.77876
## f.22000.0.042  -1.362e-02  4.019e-02  -0.339  0.73459
## f.22000.0.043  -3.454e-02  4.100e-02  -0.842  0.39952
## f.22000.0.044   6.750e-02  4.063e-02   1.661  0.09666 .
## f.22000.0.045   9.327e-03  4.055e-02   0.230  0.81807
## f.22000.0.046  -2.054e-02  4.075e-02  -0.504  0.61423
## f.22000.0.047  -6.796e-03  4.079e-02  -0.167  0.86769
## f.22000.0.048   8.011e-03  4.078e-02   0.196  0.84427
```

```
## f.22000.0.049   6.232e-02  4.073e-02   1.530  0.12604
## f.22000.0.05    9.115e-03  4.007e-02   0.228  0.82003
## f.22000.0.0-5   6.634e-02  4.048e-02   1.639  0.10126
## f.22000.0.050   2.514e-03  4.073e-02   0.062  0.95078
## f.22000.0.051   7.414e-02  4.022e-02   1.844  0.06523 .
## f.22000.0.052   2.632e-02  4.101e-02   0.642  0.52099
## f.22000.0.053  -1.103e-02  4.060e-02  -0.272  0.78579
## f.22000.0.054   7.071e-02  4.071e-02   1.737  0.08244 .
## f.22000.0.055   6.072e-02  4.114e-02   1.476  0.13990
## f.22000.0.056   4.229e-02  4.077e-02   1.037  0.29962
## f.22000.0.057   5.301e-02  4.089e-02   1.296  0.19485
## f.22000.0.058   2.827e-02  4.076e-02   0.694  0.48793
## f.22000.0.059   2.887e-02  4.058e-02   0.711  0.47678
## f.22000.0.06    8.607e-03  3.992e-02   0.216  0.82928
## f.22000.0.0-6   4.227e-02  4.086e-02   1.034  0.30092
## f.22000.0.060   8.459e-03  4.098e-02   0.206  0.83646
## f.22000.0.061   3.368e-02  4.118e-02   0.818  0.41340
## f.22000.0.062   4.049e-02  4.107e-02   0.986  0.32417
## f.22000.0.063   1.622e-02  4.104e-02   0.395  0.69265
## f.22000.0.064  -3.499e-03  4.075e-02  -0.086  0.93157
## f.22000.0.065   6.751e-04  4.097e-02   0.016  0.98685
## f.22000.0.066  -6.348e-04  4.133e-02  -0.015  0.98775
## f.22000.0.067  -1.690e-02  4.094e-02  -0.413  0.67975
## f.22000.0.068   1.332e-02  4.083e-02   0.326  0.74424
## f.22000.0.069   2.288e-02  4.099e-02   0.558  0.57671
## f.22000.0.07   -2.543e-02  4.023e-02  -0.632  0.52720
## f.22000.0.0-7   5.510e-02  4.055e-02   1.359  0.17419
## f.22000.0.070  -1.506e-02  4.108e-02  -0.367  0.71398
## f.22000.0.071  -1.997e-02  4.082e-02  -0.489  0.62463
## f.22000.0.072   2.367e-03  4.109e-02   0.058  0.95405
## f.22000.0.073   9.570e-03  4.114e-02   0.233  0.81606
## f.22000.0.074   4.032e-02  4.121e-02   0.979  0.32782
## f.22000.0.075   7.434e-02  4.078e-02   1.823  0.06833 .
## f.22000.0.076   5.367e-02  4.122e-02   1.302  0.19289
## f.22000.0.077   2.334e-02  4.101e-02   0.569  0.56927
## f.22000.0.078  -3.683e-02  4.085e-02  -0.902  0.36728
## f.22000.0.079  -8.292e-03  4.067e-02  -0.204  0.83843
## f.22000.0.08    1.245e-03  4.014e-02   0.031  0.97527
## f.22000.0.0-8   2.564e-02  4.083e-02   0.628  0.53000
## f.22000.0.080   6.811e-02  4.115e-02   1.655  0.09786 .
## f.22000.0.081   2.847e-03  4.168e-02   0.068  0.94554
## f.22000.0.082  -1.918e-02  4.114e-02  -0.466  0.64105
## f.22000.0.083   1.861e-02  4.118e-02   0.452  0.65134
## f.22000.0.084   2.738e-02  4.119e-02   0.665  0.50617
## f.22000.0.085   3.273e-02  4.105e-02   0.797  0.42535
## f.22000.0.086  -1.108e-02  4.114e-02  -0.269  0.78768
## f.22000.0.087   3.259e-02  4.108e-02   0.793  0.42763
## f.22000.0.088   1.261e-02  4.192e-02   0.301  0.76356
## f.22000.0.089   1.086e-02  4.156e-02   0.261  0.79380
## f.22000.0.09   -2.175e-02  3.989e-02  -0.545  0.58567
## f.22000.0.0-9   5.897e-02  4.086e-02   1.443  0.14893
## f.22000.0.090   1.143e-02  4.121e-02   0.277  0.78159
## f.22000.0.091  -4.413e-02  4.250e-02  -1.039  0.29902
## f.22000.0.092   3.888e-02  4.121e-02   0.944  0.34540
## f.22000.0.093   3.458e-02  4.116e-02   0.840  0.40077
## f.22000.0.094   1.184e-03  5.262e-02   0.022  0.98206
## f.22000.0.095  -6.616e-03  4.393e-02  -0.151  0.88027
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9839 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03292,    Adjusted R-squared:  0.03188
## F-statistic: 31.66 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.0903 -0.5916 -0.4131  0.2713  5.1274
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.083e+01  7.408e-01 -55.121  < 2e-16 ***
## `0.001000`      1.508e-02  2.864e-03   5.267 1.39e-07 ***
## f.22009.0.1     9.465e-03  2.989e-03   3.167  0.00154 **
## f.22009.0.2    -1.101e-03  2.916e-03  -0.378  0.70571
## f.22009.0.3    -6.095e-04  2.950e-03  -0.207  0.83630
## f.22009.0.5    -1.477e-03  3.130e-03  -0.472  0.63702
## f.22009.0.6     2.641e-04  2.959e-03   0.089  0.92889
## f.22009.0.7    -8.427e-03  3.007e-03  -2.803  0.00507 **
## f.22009.0.8     7.975e-03  3.197e-03   2.494  0.01262 *
## f.22009.0.9    -8.423e-03  3.035e-03  -2.775  0.00552 **
## f.22009.0.10    6.693e-05  3.483e-03   0.019  0.98467
## f.22009.0.11    1.034e-04  4.056e-03   0.025  0.97966
## f.22009.0.12    3.834e-03  3.574e-03   1.073  0.28339
## f.22009.0.13   -4.779e-03  2.908e-03  -1.643  0.10033
## f.22009.0.14   -1.667e-02  3.073e-03  -5.426 5.76e-08 ***
## f.22009.0.15   -1.904e-03  3.148e-03  -0.605  0.54537
## f.22009.0.16   -7.371e-03  3.088e-03  -2.387  0.01700 *
## f.22009.0.17   -1.920e-03  2.869e-03  -0.669  0.50347
## f.22009.0.18    5.662e-04  2.876e-03   0.197  0.84394
## f.22009.0.19    2.348e-03  2.864e-03   0.820  0.41227
## f.22009.0.20    6.050e-04  2.870e-03   0.211  0.83303
## f.22001.0.01   -1.225e-01  5.783e-03 -21.177  < 2e-16 ***
## f.34.0.0        2.094e-02  3.791e-04  55.234  < 2e-16 ***
## f.22000.0.0-1   2.997e-02  4.046e-02   0.741  0.45884
## f.22000.0.010  -3.086e-02  4.088e-02  -0.755  0.45026
## f.22000.0.0-10  8.425e-02  4.111e-02   2.050  0.04041 *
## f.22000.0.011   5.320e-02  4.020e-02   1.323  0.18572
## f.22000.0.0-11  4.850e-02  4.074e-02   1.190  0.23392
## f.22000.0.012   2.331e-02  4.047e-02   0.576  0.56457
## f.22000.0.013  -5.059e-03  4.032e-02  -0.125  0.90015
## f.22000.0.014   4.179e-02  4.005e-02   1.043  0.29681
## f.22000.0.015   4.165e-02  4.042e-02   1.030  0.30280
## f.22000.0.016   5.692e-02  4.056e-02   1.403  0.16058
## f.22000.0.017   4.474e-02  4.019e-02   1.113  0.26559
## f.22000.0.018  -2.378e-02  4.056e-02  -0.586  0.55770
## f.22000.0.019   8.928e-03  3.981e-02   0.224  0.82257
## f.22000.0.02    2.580e-03  3.996e-02   0.065  0.94851
## f.22000.0.0-2   7.941e-02  4.068e-02   1.952  0.05097 .
## f.22000.0.020   3.267e-03  4.049e-02   0.081  0.93569
## f.22000.0.021   2.575e-02  4.035e-02   0.638  0.52330
## f.22000.0.022   2.458e-02  4.036e-02   0.609  0.54246
## f.22000.0.023   1.797e-02  4.035e-02   0.445  0.65612
## f.22000.0.024   1.120e-02  3.982e-02   0.281  0.77857
## f.22000.0.025   5.177e-02  4.085e-02   1.267  0.20499
## f.22000.0.026  -3.876e-02  4.063e-02  -0.954  0.34010
## f.22000.0.027  -8.871e-04  3.999e-02  -0.022  0.98230
## f.22000.0.028   5.749e-03  4.040e-02   0.142  0.88685
## f.22000.0.029   2.134e-02  4.008e-02   0.532  0.59442
## f.22000.0.03    1.271e-02  4.003e-02   0.318  0.75078
## f.22000.0.0-3  -5.216e-03  4.023e-02  -0.130  0.89685
## f.22000.0.030  -3.002e-02  4.007e-02  -0.749  0.45374
## f.22000.0.031  -4.272e-03  4.026e-02  -0.106  0.91549
## f.22000.0.032  -1.810e-02  4.036e-02  -0.448  0.65387
## f.22000.0.033   2.081e-02  4.111e-02   0.506  0.61272
## f.22000.0.034   2.617e-02  4.016e-02   0.652  0.51463
## f.22000.0.035   6.720e-02  4.027e-02   1.669  0.09512 .
## f.22000.0.036   1.348e-02  4.000e-02   0.337  0.73618
## f.22000.0.037  -4.359e-03  4.059e-02  -0.107  0.91448
```

```
## f.22000.0.038   5.955e-02  4.040e-02   1.474  0.14047
## f.22000.0.039   2.817e-02  4.088e-02   0.689  0.49077
## f.22000.0.04   -2.779e-03  4.072e-02  -0.068  0.94560
## f.22000.0.0-4   7.651e-02  4.098e-02   1.867  0.06189 .
## f.22000.0.040   4.222e-02  4.041e-02   1.045  0.29608
## f.22000.0.041   1.148e-02  4.094e-02   0.280  0.77915
## f.22000.0.042  -1.288e-02  4.020e-02  -0.320  0.74873
## f.22000.0.043  -3.496e-02  4.101e-02  -0.853  0.39393
## f.22000.0.044   6.702e-02  4.064e-02   1.649  0.09911 .
## f.22000.0.045   9.343e-03  4.056e-02   0.230  0.81779
## f.22000.0.046  -2.080e-02  4.076e-02  -0.510  0.60989
## f.22000.0.047  -8.392e-03  4.080e-02  -0.206  0.83703
## f.22000.0.048   6.998e-03  4.079e-02   0.172  0.86380
## f.22000.0.049   6.147e-02  4.074e-02   1.509  0.13136
## f.22000.0.05    8.666e-03  4.008e-02   0.216  0.82879
## f.22000.0.0-5   6.456e-02  4.049e-02   1.594  0.11084
## f.22000.0.050   8.485e-04  4.074e-02   0.021  0.98338
## f.22000.0.051   7.360e-02  4.022e-02   1.830  0.06730 .
## f.22000.0.052   2.567e-02  4.102e-02   0.626  0.53144
## f.22000.0.053  -1.187e-02  4.061e-02  -0.292  0.76998
## f.22000.0.054   7.042e-02  4.072e-02   1.729  0.08378 .
## f.22000.0.055   6.024e-02  4.115e-02   1.464  0.14315
## f.22000.0.056   4.105e-02  4.078e-02   1.007  0.31414
## f.22000.0.057   5.220e-02  4.090e-02   1.276  0.20186
## f.22000.0.058   2.811e-02  4.077e-02   0.689  0.49059
## f.22000.0.059   2.877e-02  4.059e-02   0.709  0.47853
## f.22000.0.06    7.706e-03  3.993e-02   0.193  0.84696
## f.22000.0.0-6   4.118e-02  4.087e-02   1.008  0.31358
## f.22000.0.060   7.462e-03  4.098e-02   0.182  0.85554
## f.22000.0.061   3.324e-02  4.118e-02   0.807  0.41968
## f.22000.0.062   4.034e-02  4.107e-02   0.982  0.32606
## f.22000.0.063   1.503e-02  4.105e-02   0.366  0.71420
## f.22000.0.064  -4.392e-03  4.076e-02  -0.108  0.91418
## f.22000.0.065  -1.170e-03  4.098e-02  -0.029  0.97721
## f.22000.0.066   4.142e-04  4.134e-02   0.010  0.99201
## f.22000.0.067  -1.673e-02  4.095e-02  -0.408  0.68294
## f.22000.0.068   1.308e-02  4.084e-02   0.320  0.74872
## f.22000.0.069   2.211e-02  4.100e-02   0.539  0.58967
## f.22000.0.07   -2.618e-02  4.023e-02  -0.651  0.51529
## f.22000.0.0-7   5.505e-02  4.056e-02   1.357  0.17470
## f.22000.0.070  -1.552e-02  4.108e-02  -0.378  0.70558
## f.22000.0.071  -1.899e-02  4.083e-02  -0.465  0.64192
## f.22000.0.072   2.052e-03  4.109e-02   0.050  0.96017
## f.22000.0.073   8.035e-03  4.115e-02   0.195  0.84517
## f.22000.0.074   4.036e-02  4.122e-02   0.979  0.32749
## f.22000.0.075   7.324e-02  4.079e-02   1.795  0.07258 .
## f.22000.0.076   5.344e-02  4.123e-02   1.296  0.19494
## f.22000.0.077   2.192e-02  4.102e-02   0.534  0.59316
## f.22000.0.078  -3.770e-02  4.086e-02  -0.923  0.35610
## f.22000.0.079  -7.919e-03  4.068e-02  -0.195  0.84564
## f.22000.0.08    1.506e-03  4.015e-02   0.038  0.97007
## f.22000.0.0-8   2.474e-02  4.084e-02   0.606  0.54457
## f.22000.0.080   6.695e-02  4.116e-02   1.627  0.10381
## f.22000.0.081   1.782e-03  4.168e-02   0.043  0.96591
## f.22000.0.082  -2.020e-02  4.115e-02  -0.491  0.62351
## f.22000.0.083   1.785e-02  4.119e-02   0.433  0.66473
## f.22000.0.084   2.789e-02  4.120e-02   0.677  0.49843
## f.22000.0.085   3.323e-02  4.106e-02   0.809  0.41838
## f.22000.0.086  -1.201e-02  4.114e-02  -0.292  0.77028
## f.22000.0.087   3.220e-02  4.109e-02   0.783  0.43335
## f.22000.0.088   1.130e-02  4.193e-02   0.269  0.78757
## f.22000.0.089   1.098e-02  4.157e-02   0.264  0.79165
## f.22000.0.09   -2.166e-02  3.990e-02  -0.543  0.58719
## f.22000.0.0-9   5.703e-02  4.087e-02   1.395  0.16289
## f.22000.0.090   1.013e-02  4.122e-02   0.246  0.80596
## f.22000.0.091  -4.504e-02  4.251e-02  -1.060  0.28930
## f.22000.0.092   3.889e-02  4.122e-02   0.944  0.34537
## f.22000.0.093   3.488e-02  4.117e-02   0.847  0.39682
## f.22000.0.094   4.941e-04  5.264e-02   0.009  0.99251
## f.22000.0.095  -8.093e-03  4.394e-02  -0.184  0.85385
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Residual standard error: 0.9841 on 118099 degrees of freedom
##   (1640 observations deleted due to missingness)
## Multiple R-squared:  0.03249,    Adjusted R-squared:  0.03145
## F-statistic: 31.23 on 127 and 118099 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1239 -0.6189 -0.4349  0.4558  4.2001
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.408e-01 -54.338  < 2e-16 ***
## f.22009.0.1     1.084e-02  2.989e-03   3.626 0.000288 ***
## f.22009.0.2    -3.344e-03  2.915e-03  -1.147 0.251416
## f.22009.0.3    -8.987e-04  2.949e-03  -0.305 0.760589
## f.22009.0.5    -1.222e-03  3.129e-03  -0.391 0.696135
## f.22009.0.6     2.850e-04  2.959e-03   0.096 0.923262
## f.22009.0.7    -8.321e-03  3.007e-03  -2.767 0.005657 **
## f.22009.0.8     7.139e-03  3.197e-03   2.233 0.025548 *
## f.22009.0.9    -9.663e-03  3.035e-03  -3.184 0.001454 **
## f.22009.0.10    1.450e-03  3.483e-03   0.416 0.677236
## f.22009.0.11   -8.996e-04  4.056e-03  -0.222 0.824469
## f.22009.0.12    1.779e-03  3.574e-03   0.498 0.618624
## f.22009.0.13   -3.394e-03  2.908e-03  -1.167 0.243120
## f.22009.0.14   -1.727e-02  3.072e-03  -5.622 1.89e-08 ***
## f.22009.0.15   -1.704e-03  3.148e-03  -0.541 0.588377
## f.22009.0.16   -9.813e-03  3.088e-03  -3.178 0.001485 **
## f.22009.0.17   -7.794e-05  2.869e-03  -0.027 0.978326
## f.22009.0.18   -1.177e-04  2.876e-03  -0.041 0.967352
## f.22009.0.19    2.556e-03  2.864e-03   0.892 0.372147
## f.22009.0.20    3.099e-03  2.869e-03   1.080 0.280095
## f.22001.0.01   -1.498e-01  5.783e-03 -25.905  < 2e-16 ***
## f.34.0.0        2.065e-02  3.791e-04  54.481  < 2e-16 ***
## f.22000.0.0-1   3.631e-02  4.044e-02   0.898 0.369251
## f.22000.0.010  -3.732e-02  4.085e-02  -0.914 0.360864
## f.22000.0.0-10  7.934e-02  4.108e-02   1.932 0.053420 .
## f.22000.0.011   5.813e-02  4.018e-02   1.447 0.148023
## f.22000.0.0-11  2.794e-02  4.074e-02   0.686 0.492872
## f.22000.0.012  -8.019e-03  4.049e-02  -0.198 0.843012
## f.22000.0.013  -1.856e-02  4.029e-02  -0.461 0.645071
## f.22000.0.014   1.017e-02  4.005e-02   0.254 0.799568
## f.22000.0.015   3.377e-02  4.039e-02   0.836 0.403075
## f.22000.0.016   4.637e-02  4.053e-02   1.144 0.252613
## f.22000.0.017   2.213e-02  4.017e-02   0.551 0.581661
## f.22000.0.018  -3.066e-02  4.053e-02  -0.756 0.449375
## f.22000.0.019  -4.021e-03  3.979e-02  -0.101 0.919519
## f.22000.0.02   -1.748e-02  3.995e-02  -0.438 0.661681
## f.22000.0.0-2   7.911e-02  4.067e-02   1.945 0.051794 .
## f.22000.0.020  -1.195e-02  4.048e-02  -0.295 0.767830
## f.22000.0.021   3.436e-02  4.033e-02   0.852 0.394327
## f.22000.0.022   5.617e-03  4.034e-02   0.139 0.889255
## f.22000.0.023  -3.609e-03  4.036e-02  -0.089 0.928748
## f.22000.0.024   6.865e-03  3.980e-02   0.172 0.863063
```

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## f.22000.0.024   6.865e-03  3.980e-02   0.172 0.863063
## f.22000.0.025   2.685e-02  4.085e-02   0.657 0.511014
## f.22000.0.026  -5.307e-02  4.062e-02  -1.306 0.191401
## f.22000.0.027  -2.024e-02  3.997e-02  -0.506 0.612557
## f.22000.0.028   3.004e-03  4.040e-02   0.074 0.940719
## f.22000.0.029  -1.376e-03  4.007e-02  -0.034 0.972607
## f.22000.0.03    4.948e-03  4.002e-02   0.124 0.901600
## f.22000.0.0-3   1.027e-03  4.022e-02   0.026 0.979633
## f.22000.0.030  -3.727e-02  4.006e-02  -0.930 0.352131
## f.22000.0.031  -2.323e-02  4.025e-02  -0.577 0.563805
## f.22000.0.032  -1.976e-02  4.034e-02  -0.490 0.624360
## f.22000.0.033   1.329e-03  4.109e-02   0.032 0.974203
## f.22000.0.034   3.234e-02  4.013e-02   0.806 0.420330
## f.22000.0.035   5.090e-02  4.028e-02   1.264 0.206350
## f.22000.0.036   6.553e-03  3.998e-02   0.164 0.869802
## f.22000.0.037  -2.060e-02  4.057e-02  -0.508 0.611723
## f.22000.0.038   4.127e-02  4.038e-02   1.022 0.306801
## f.22000.0.039   1.277e-02  4.085e-02   0.313 0.754602
## f.22000.0.04   -7.017e-03  4.070e-02  -0.172 0.863102
## f.22000.0.0-4   5.673e-02  4.095e-02   1.385 0.165941
## f.22000.0.040   5.780e-03  4.041e-02   0.143 0.886260
## f.22000.0.041   1.038e-03  4.092e-02   0.025 0.979770
## f.22000.0.042  -3.467e-02  4.019e-02  -0.863 0.388403
## f.22000.0.043  -3.327e-02  4.098e-02  -0.812 0.416784
## f.22000.0.044   5.681e-02  4.062e-02   1.399 0.161890
## f.22000.0.045  -1.021e-03  4.053e-02  -0.025 0.979908
## f.22000.0.046  -3.692e-02  4.073e-02  -0.907 0.364647
## f.22000.0.047  -2.029e-02  4.079e-02  -0.497 0.618839
## f.22000.0.048  -1.606e-02  4.077e-02  -0.394 0.693643
## f.22000.0.049   4.830e-02  4.071e-02   1.186 0.235520
## f.22000.0.05   -9.771e-03  4.006e-02  -0.244 0.807316
## f.22000.0.0-5   7.378e-02  4.049e-02   1.822 0.068433 .
## f.22000.0.050   7.602e-04  4.071e-02   0.019 0.985102
## f.22000.0.051   7.062e-02  4.021e-02   1.756 0.079076 .
## f.22000.0.052   1.178e-03  4.101e-02   0.029 0.977084
## f.22000.0.053  -1.634e-02  4.063e-02  -0.402 0.687472
## f.22000.0.054   6.043e-02  4.069e-02   1.485 0.137572
## f.22000.0.055   5.786e-02  4.114e-02   1.407 0.159550
## f.22000.0.056   3.611e-02  4.076e-02   0.886 0.375702
## f.22000.0.057   4.666e-02  4.088e-02   1.141 0.253721
## f.22000.0.058   1.330e-02  4.076e-02   0.326 0.744263
## f.22000.0.059   1.195e-02  4.059e-02   0.294 0.768447
## f.22000.0.06    8.317e-03  3.990e-02   0.208 0.834893
## f.22000.0.0-6   4.262e-02  4.084e-02   1.044 0.296702
## f.22000.0.060  -2.713e-02  4.097e-02  -0.662 0.507867
## f.22000.0.061   1.519e-02  4.115e-02   0.369 0.712031
## f.22000.0.062   2.926e-02  4.106e-02   0.713 0.476044
## f.22000.0.063   1.147e-04  4.103e-02   0.003 0.997770
## f.22000.0.064  -1.693e-02  4.074e-02  -0.416 0.677718
## f.22000.0.065  -1.762e-02  4.096e-02  -0.430 0.667082
## f.22000.0.066  -1.168e-02  4.132e-02  -0.283 0.777408
## f.22000.0.067  -2.315e-02  4.093e-02  -0.565 0.571776
## f.22000.0.068   7.454e-03  4.083e-02   0.183 0.855128
## f.22000.0.069   1.931e-03  4.098e-02   0.047 0.962427
## f.22000.0.07   -3.596e-02  4.021e-02  -0.894 0.371172
## f.22000.0.0-7   4.663e-02  4.055e-02   1.150 0.250076
## f.22000.0.070  -1.882e-02  4.107e-02  -0.458 0.646754
## f.22000.0.071  -9.523e-03  4.080e-02  -0.233 0.815446
## f.22000.0.072  -6.047e-03  4.108e-02  -0.147 0.882957
## f.22000.0.073  -5.301e-03  4.114e-02  -0.129 0.897464
## f.22000.0.074   3.473e-02  4.121e-02   0.843 0.399312
## f.22000.0.075   6.302e-02  4.078e-02   1.545 0.122247
## f.22000.0.076   3.645e-02  4.121e-02   0.884 0.376438
## f.22000.0.077   6.032e-03  4.102e-02   0.147 0.883095
## f.22000.0.078  -5.178e-02  4.085e-02  -1.268 0.204971
## f.22000.0.079  -1.636e-02  4.069e-02  -0.402 0.687689
## f.22000.0.08   -9.711e-03  4.013e-02  -0.242 0.808801
## f.22000.0.0-8   2.139e-02  4.086e-02   0.523 0.600696
## f.22000.0.080   3.625e-02  4.117e-02   0.880 0.378611
## f.22000.0.081   1.997e-03  4.167e-02   0.048 0.961776
## f.22000.0.082  -4.162e-02  4.112e-02  -1.012 0.311520
## f.22000.0.083  -1.457e-03  4.118e-02  -0.035 0.971780
## f.22000.0.084   2.299e-02  4.118e-02   0.558 0.576614
```

```
## f.22000.0.085   3.893e-02  4.105e-02   0.948 0.343045
## f.22000.0.086  -2.275e-02  4.114e-02  -0.553 0.580295
## f.22000.0.087   4.058e-02  4.108e-02   0.988 0.323296
## f.22000.0.088   4.678e-03  4.191e-02   0.112 0.911124
## f.22000.0.089   2.968e-03  4.154e-02   0.071 0.943028
## f.22000.0.09   -1.044e-02  3.988e-02  -0.262 0.793548
## f.22000.0.0-9   6.577e-02  4.087e-02   1.609 0.107528
## f.22000.0.090  -4.204e-03  4.119e-02  -0.102 0.918701
## f.22000.0.091  -4.118e-02  4.251e-02  -0.969 0.332769
## f.22000.0.092   2.361e-02  4.120e-02   0.573 0.566622
## f.22000.0.093   1.180e-02  4.116e-02   0.287 0.774283
## f.22000.0.094   1.875e-03  5.260e-02   0.036 0.971559
## f.22000.0.095  -1.748e-02  4.390e-02  -0.398 0.690524
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9834 on 117942 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03388,    Adjusted R-squared:  0.03285
## F-statistic: 32.82 on 126 and 117942 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1663 -0.6199 -0.4333  0.4524  4.2076
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.023e+01  7.403e-01 -54.345  < 2e-16 ***
## `1.000000`      3.367e-02  2.865e-03  11.752  < 2e-16 ***
## f.22009.0.1     1.059e-02  2.987e-03   3.545 0.000392 ***
## f.22009.0.2    -3.236e-03  2.914e-03  -1.111 0.266693
## f.22009.0.3    -7.726e-04  2.948e-03  -0.262 0.793247
## f.22009.0.5    -2.094e-03  3.128e-03  -0.669 0.503333
## f.22009.0.6     1.271e-04  2.957e-03   0.043 0.965712
## f.22009.0.7    -7.995e-03  3.005e-03  -2.660 0.007812 **
## f.22009.0.8     7.240e-03  3.195e-03   2.266 0.023462 *
## f.22009.0.9    -9.604e-03  3.033e-03  -3.166 0.001544 **
## f.22009.0.10    1.506e-03  3.481e-03   0.433 0.665354
## f.22009.0.11   -1.402e-03  4.054e-03  -0.346 0.729453
## f.22009.0.12    1.698e-03  3.572e-03   0.475 0.634512
## f.22009.0.13   -3.394e-03  2.906e-03  -1.168 0.242912
## f.22009.0.14   -1.687e-02  3.071e-03  -5.495 3.92e-08 ***
## f.22009.0.15   -1.671e-03  3.146e-03  -0.531 0.595286
## f.22009.0.16   -9.864e-03  3.086e-03  -3.196 0.001394 **
## f.22009.0.17    3.177e-05  2.867e-03   0.011 0.991159
## f.22009.0.18    4.907e-05  2.874e-03   0.017 0.986377
## f.22009.0.19    2.441e-03  2.862e-03   0.853 0.393646
## f.22009.0.20    2.778e-03  2.867e-03   0.969 0.332541
## f.22001.0.01   -1.492e-01  5.780e-03 -25.818  < 2e-16 ***
## f.34.0.0        2.064e-02  3.789e-04  54.487  < 2e-16 ***
## f.22000.0.0-1   3.727e-02  4.041e-02   0.922 0.356344
## f.22000.0.010  -3.707e-02  4.082e-02  -0.908 0.363920
## f.22000.0.0-10  8.119e-02  4.105e-02   1.978 0.047956 *
## f.22000.0.011   5.818e-02  4.016e-02   1.449 0.147427
## f.22000.0.0-11  2.769e-02  4.072e-02   0.680 0.496489
## f.22000.0.012  -7.702e-03  4.047e-02  -0.190 0.849046
## f.22000.0.013  -1.667e-02  4.027e-02  -0.414 0.678809
```

```
## f.22000.0.013  -1.667e-02  4.027e-02  -0.414 0.678809
## f.22000.0.014   1.102e-02  4.003e-02   0.275 0.783113
## f.22000.0.015   3.405e-02  4.037e-02   0.843 0.398993
## f.22000.0.016   4.722e-02  4.051e-02   1.166 0.243750
## f.22000.0.017   2.136e-02  4.014e-02   0.532 0.594685
## f.22000.0.018  -3.100e-02  4.051e-02  -0.765 0.444040
## f.22000.0.019  -2.152e-03  3.977e-02  -0.054 0.956848
## f.22000.0.02   -1.773e-02  3.992e-02  -0.444 0.656976
## f.22000.0.0-2   7.875e-02  4.065e-02   1.937 0.052710 .
## f.22000.0.020  -1.110e-02  4.046e-02  -0.274 0.783753
## f.22000.0.021   3.471e-02  4.031e-02   0.861 0.389243
## f.22000.0.022   6.512e-03  4.031e-02   0.162 0.871677
## f.22000.0.023  -3.578e-03  4.034e-02  -0.089 0.929313
## f.22000.0.024   7.455e-03  3.978e-02   0.187 0.851345
## f.22000.0.025   2.665e-02  4.082e-02   0.653 0.513838
## f.22000.0.026  -5.078e-02  4.060e-02  -1.251 0.210948
## f.22000.0.027  -2.003e-02  3.995e-02  -0.501 0.616099
## f.22000.0.028   3.905e-03  4.038e-02   0.097 0.922955
## f.22000.0.029  -1.541e-03  4.004e-02  -0.038 0.969311
## f.22000.0.03    5.619e-03  4.000e-02   0.140 0.888281
## f.22000.0.0-3   9.727e-04  4.020e-02   0.024 0.980693
## f.22000.0.030  -3.759e-02  4.003e-02  -0.939 0.347819
## f.22000.0.031  -2.416e-02  4.023e-02  -0.601 0.548098
## f.22000.0.032  -2.014e-02  4.032e-02  -0.500 0.617360
## f.22000.0.033   1.193e-03  4.106e-02   0.029 0.976819
## f.22000.0.034   3.248e-02  4.011e-02   0.810 0.418002
## f.22000.0.035   5.123e-02  4.026e-02   1.273 0.203146
## f.22000.0.036   6.281e-03  3.996e-02   0.157 0.875094
## f.22000.0.037  -1.966e-02  4.055e-02  -0.485 0.627773
## f.22000.0.038   4.233e-02  4.036e-02   1.049 0.294275
## f.22000.0.039   1.180e-02  4.082e-02   0.289 0.772507
## f.22000.0.04   -6.909e-03  4.067e-02  -0.170 0.865110
## f.22000.0.0-4   5.645e-02  4.092e-02   1.379 0.167743
## f.22000.0.040   7.035e-03  4.038e-02   0.174 0.861712
## f.22000.0.041   2.432e-03  4.090e-02   0.059 0.952582
## f.22000.0.042  -3.450e-02  4.017e-02  -0.859 0.390388
## f.22000.0.043  -3.286e-02  4.095e-02  -0.802 0.422288
## f.22000.0.044   5.864e-02  4.059e-02   1.445 0.148580
## f.22000.0.045  -2.237e-03  4.050e-02  -0.055 0.955954
## f.22000.0.046  -3.914e-02  4.071e-02  -0.961 0.336321
## f.22000.0.047  -1.862e-02  4.076e-02  -0.457 0.647917
## f.22000.0.048  -1.349e-02  4.075e-02  -0.331 0.740560
## f.22000.0.049   4.956e-02  4.069e-02   1.218 0.223192
## f.22000.0.05   -8.113e-03  4.004e-02  -0.203 0.839429
## f.22000.0.0-5   7.561e-02  4.047e-02   1.868 0.061709 .
## f.22000.0.050   2.131e-03  4.069e-02   0.052 0.958232
## f.22000.0.051   7.170e-02  4.019e-02   1.784 0.074400 .
## f.22000.0.052   2.238e-03  4.098e-02   0.055 0.956450
## f.22000.0.053  -1.539e-02  4.060e-02  -0.379 0.704685
## f.22000.0.054   6.050e-02  4.067e-02   1.488 0.136865
## f.22000.0.055   5.694e-02  4.111e-02   1.385 0.166042
## f.22000.0.056   3.768e-02  4.074e-02   0.925 0.355060
## f.22000.0.057   4.704e-02  4.085e-02   1.152 0.249523
## f.22000.0.058   1.446e-02  4.074e-02   0.355 0.722530
## f.22000.0.059   1.173e-02  4.057e-02   0.289 0.772442
## f.22000.0.06    8.320e-03  3.988e-02   0.209 0.834756
## f.22000.0.0-6   4.248e-02  4.081e-02   1.041 0.297931
## f.22000.0.060  -2.630e-02  4.095e-02  -0.642 0.520717
## f.22000.0.061   1.476e-02  4.113e-02   0.359 0.719650
## f.22000.0.062   2.794e-02  4.103e-02   0.681 0.495963
## f.22000.0.063   1.271e-04  4.101e-02   0.003 0.997527
## f.22000.0.064  -1.604e-02  4.072e-02  -0.394 0.693666
## f.22000.0.065  -1.761e-02  4.093e-02  -0.430 0.667008
## f.22000.0.066  -1.042e-02  4.130e-02  -0.252 0.800725
## f.22000.0.067  -2.198e-02  4.091e-02  -0.537 0.591022
## f.22000.0.068   7.947e-03  4.080e-02   0.195 0.845575
## f.22000.0.069   3.554e-03  4.096e-02   0.087 0.930862
## f.22000.0.07   -3.524e-02  4.019e-02  -0.877 0.380614
## f.22000.0.0-7   4.791e-02  4.052e-02   1.182 0.237046
## f.22000.0.070  -1.971e-02  4.104e-02  -0.480 0.631117
## f.22000.0.071  -1.087e-02  4.078e-02  -0.267 0.789739
## f.22000.0.072  -7.811e-03  4.105e-02  -0.190 0.849103
## f.22000.0.073  -3.991e-03  4.111e-02  -0.097 0.922677
```

```
## f.22000.0.074   3.490e-02  4.118e-02   0.847 0.396753
## f.22000.0.075   6.262e-02  4.076e-02   1.537 0.124404
## f.22000.0.076   3.517e-02  4.118e-02   0.854 0.393076
## f.22000.0.077   7.717e-03  4.100e-02   0.188 0.850702
## f.22000.0.078  -5.005e-02  4.082e-02  -1.226 0.220225
## f.22000.0.079  -1.805e-02  4.067e-02  -0.444 0.657210
## f.22000.0.08   -1.123e-02  4.011e-02  -0.280 0.779428
## f.22000.0.0-8   2.187e-02  4.083e-02   0.536 0.592171
## f.22000.0.080   3.653e-02  4.114e-02   0.888 0.374595
## f.22000.0.081   2.829e-03  4.164e-02   0.068 0.945830
## f.22000.0.082  -4.209e-02  4.110e-02  -1.024 0.305788
## f.22000.0.083  -2.747e-04  4.115e-02  -0.007 0.994674
## f.22000.0.084   2.140e-02  4.115e-02   0.520 0.602980
## f.22000.0.085   3.727e-02  4.103e-02   0.908 0.363679
## f.22000.0.086  -2.174e-02  4.111e-02  -0.529 0.596970
## f.22000.0.087   4.004e-02  4.106e-02   0.975 0.329488
## f.22000.0.088   4.933e-03  4.189e-02   0.118 0.906258
## f.22000.0.089   1.421e-03  4.151e-02   0.034 0.972693
## f.22000.0.09   -9.722e-03  3.986e-02  -0.244 0.807304
## f.22000.0.0-9   6.702e-02  4.084e-02   1.641 0.100802
## f.22000.0.090  -4.027e-03  4.116e-02  -0.098 0.922067
## f.22000.0.091  -3.916e-02  4.249e-02  -0.922 0.356703
## f.22000.0.092   2.253e-02  4.117e-02   0.547 0.584273
## f.22000.0.093   1.133e-02  4.113e-02   0.276 0.782910
## f.22000.0.094   3.799e-03  5.257e-02   0.072 0.942388
## f.22000.0.095  -1.799e-02  4.388e-02  -0.410 0.681756
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9829 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03501,    Adjusted R-squared:  0.03397
## F-statistic: 33.69 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1646 -0.6198 -0.4332  0.4521  4.2054
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.023e+01  7.403e-01 -54.344  < 2e-16 ***
## `0.750000`      3.387e-02  2.865e-03  11.824  < 2e-16 ***
## f.22009.0.1     1.059e-02  2.987e-03   3.544 0.000394 ***
## f.22009.0.2    -3.238e-03  2.914e-03  -1.111 0.266504
## f.22009.0.3    -7.716e-04  2.948e-03  -0.262 0.793502
## f.22009.0.5    -2.092e-03  3.128e-03  -0.669 0.503707
## f.22009.0.6     1.254e-04  2.957e-03   0.042 0.966185
## f.22009.0.7    -7.990e-03  3.005e-03  -2.659 0.007846 **
## f.22009.0.8     7.251e-03  3.195e-03   2.269 0.023256 *
## f.22009.0.9    -9.615e-03  3.033e-03  -3.170 0.001525 **
## f.22009.0.10    1.513e-03  3.481e-03   0.435 0.663863
## f.22009.0.11   -1.413e-03  4.054e-03  -0.348 0.727494
## f.22009.0.12    1.695e-03  3.572e-03   0.475 0.635035
## f.22009.0.13   -3.388e-03  2.906e-03  -1.166 0.243654
## f.22009.0.14   -1.688e-02  3.070e-03  -5.497 3.87e-08 ***
## f.22009.0.15   -1.671e-03  3.146e-03  -0.531 0.595306
## f.22009.0.16   -9.866e-03  3.086e-03  -3.197 0.001390 **
```

```
## f.22009.0.16   -9.866e-03  3.060e-03  -3.197 0.001390 **
## f.22009.0.17    3.245e-05  2.867e-03   0.011 0.990969
## f.22009.0.18    4.637e-05  2.874e-03   0.016 0.987126
## f.22009.0.19    2.445e-03  2.862e-03   0.854 0.393037
## f.22009.0.20    2.781e-03  2.867e-03   0.970 0.332073
## f.22001.0.01   -1.492e-01  5.780e-03 -25.816  < 2e-16 ***
## f.34.0.0        2.064e-02  3.789e-04  54.486  < 2e-16 ***
## f.22000.0.0-1   3.724e-02  4.041e-02   0.921 0.356833
## f.22000.0.010  -3.710e-02  4.082e-02  -0.909 0.363478
## f.22000.0.0-10  8.118e-02  4.105e-02   1.977 0.047992 *
## f.22000.0.011   5.816e-02  4.016e-02   1.448 0.147582
## f.22000.0.0-11  2.769e-02  4.072e-02   0.680 0.496462
## f.22000.0.012  -7.720e-03  4.047e-02  -0.191 0.848703
## f.22000.0.013  -1.669e-02  4.027e-02  -0.414 0.678516
## f.22000.0.014   1.101e-02  4.003e-02   0.275 0.783335
## f.22000.0.015   3.397e-02  4.037e-02   0.842 0.399996
## f.22000.0.016   4.715e-02  4.051e-02   1.164 0.244452
## f.22000.0.017   2.128e-02  4.014e-02   0.530 0.595976
## f.22000.0.018  -3.103e-02  4.051e-02  -0.766 0.443605
## f.22000.0.019  -2.172e-03  3.977e-02  -0.055 0.956445
## f.22000.0.02   -1.777e-02  3.992e-02  -0.445 0.656284
## f.22000.0.0-2   7.871e-02  4.065e-02   1.936 0.052836 .
## f.22000.0.020  -1.117e-02  4.045e-02  -0.276 0.782554
## f.22000.0.021   3.466e-02  4.031e-02   0.860 0.389838
## f.22000.0.022   6.465e-03  4.031e-02   0.160 0.872599
## f.22000.0.023  -3.622e-03  4.034e-02  -0.090 0.928449
## f.22000.0.024   7.443e-03  3.978e-02   0.187 0.851561
## f.22000.0.025   2.663e-02  4.082e-02   0.652 0.514185
## f.22000.0.026  -5.082e-02  4.060e-02  -1.252 0.210630
## f.22000.0.027  -2.007e-02  3.995e-02  -0.502 0.615418
## f.22000.0.028   3.959e-03  4.038e-02   0.098 0.921894
## f.22000.0.029  -1.592e-03  4.004e-02  -0.040 0.968278
## f.22000.0.03    5.578e-03  4.000e-02   0.139 0.889092
## f.22000.0.0-3   9.493e-04  4.020e-02   0.024 0.981159
## f.22000.0.030  -3.758e-02  4.003e-02  -0.939 0.347842
## f.22000.0.031  -2.415e-02  4.023e-02  -0.600 0.548209
## f.22000.0.032  -2.020e-02  4.032e-02  -0.501 0.616325
## f.22000.0.033   1.213e-03  4.106e-02   0.030 0.976434
## f.22000.0.034   3.244e-02  4.011e-02   0.809 0.418586
## f.22000.0.035   5.124e-02  4.026e-02   1.273 0.203131
## f.22000.0.036   6.272e-03  3.996e-02   0.157 0.875268
## f.22000.0.037  -1.970e-02  4.055e-02  -0.486 0.627013
## f.22000.0.038   4.236e-02  4.036e-02   1.050 0.293852
## f.22000.0.039   1.177e-02  4.082e-02   0.288 0.773149
## f.22000.0.04   -6.892e-03  4.067e-02  -0.169 0.865442
## f.22000.0.0-4   5.649e-02  4.092e-02   1.380 0.167501
## f.22000.0.040   6.993e-03  4.038e-02   0.173 0.862516
## f.22000.0.041   2.420e-03  4.090e-02   0.059 0.952819
## f.22000.0.042  -3.450e-02  4.017e-02  -0.859 0.390492
## f.22000.0.043  -3.283e-02  4.095e-02  -0.802 0.422797
## f.22000.0.044   5.864e-02  4.059e-02   1.445 0.148559
## f.22000.0.045  -2.264e-03  4.050e-02  -0.056 0.955425
## f.22000.0.046  -3.920e-02  4.071e-02  -0.963 0.335594
## f.22000.0.047  -1.865e-02  4.076e-02  -0.458 0.647229
## f.22000.0.048  -1.354e-02  4.075e-02  -0.332 0.739626
## f.22000.0.049   4.954e-02  4.069e-02   1.217 0.223458
## f.22000.0.05   -8.112e-03  4.004e-02  -0.203 0.839459
## f.22000.0.0-5   7.566e-02  4.047e-02   1.870 0.061536 .
## f.22000.0.050   2.128e-03  4.069e-02   0.052 0.958291
## f.22000.0.051   7.168e-02  4.019e-02   1.784 0.074498 .
## f.22000.0.052   2.244e-03  4.098e-02   0.055 0.956325
## f.22000.0.053  -1.541e-02  4.060e-02  -0.379 0.704348
## f.22000.0.054   6.045e-02  4.067e-02   1.486 0.137181
## f.22000.0.055   5.689e-02  4.111e-02   1.384 0.166413
## f.22000.0.056   3.761e-02  4.074e-02   0.923 0.355827
## f.22000.0.057   4.702e-02  4.085e-02   1.151 0.249799
## f.22000.0.058   1.439e-02  4.074e-02   0.353 0.723821
## f.22000.0.059   1.172e-02  4.057e-02   0.289 0.772562
## f.22000.0.06    8.335e-03  3.988e-02   0.209 0.834449
## f.22000.0.0-6   4.248e-02  4.081e-02   1.041 0.297942
## f.22000.0.060  -2.633e-02  4.095e-02  -0.643 0.520282
## f.22000.0.061   1.470e-02  4.113e-02   0.357 0.720720
## f.22000.0.062   2.784e-02  4.103e-02   0.678 0.497463
```

```
## f.22000.0.063   7.150e-05  4.101e-02   0.002 0.998609
## f.22000.0.064  -1.603e-02  4.072e-02  -0.394 0.693850
## f.22000.0.065  -1.764e-02  4.093e-02  -0.431 0.666436
## f.22000.0.066  -1.047e-02  4.130e-02  -0.253 0.799918
## f.22000.0.067  -2.200e-02  4.091e-02  -0.538 0.590661
## f.22000.0.068   7.910e-03  4.080e-02   0.194 0.846278
## f.22000.0.069   3.544e-03  4.096e-02   0.087 0.931045
## f.22000.0.07   -3.520e-02  4.019e-02  -0.876 0.381109
## f.22000.0.0-7   4.789e-02  4.052e-02   1.182 0.237229
## f.22000.0.070  -1.975e-02  4.104e-02  -0.481 0.630285
## f.22000.0.071  -1.090e-02  4.078e-02  -0.267 0.789150
## f.22000.0.072  -7.825e-03  4.105e-02  -0.191 0.848825
## f.22000.0.073  -4.014e-03  4.111e-02  -0.098 0.922229
## f.22000.0.074   3.491e-02  4.118e-02   0.848 0.396607
## f.22000.0.075   6.261e-02  4.076e-02   1.536 0.124478
## f.22000.0.076   3.519e-02  4.118e-02   0.854 0.392833
## f.22000.0.077   7.669e-03  4.100e-02   0.187 0.851631
## f.22000.0.078  -5.006e-02  4.082e-02  -1.226 0.220145
## f.22000.0.079  -1.809e-02  4.067e-02  -0.445 0.656554
## f.22000.0.08   -1.127e-02  4.011e-02  -0.281 0.778659
## f.22000.0.0-8   2.186e-02  4.083e-02   0.535 0.592479
## f.22000.0.080   3.649e-02  4.114e-02   0.887 0.375139
## f.22000.0.081   2.788e-03  4.164e-02   0.067 0.946616
## f.22000.0.082  -4.210e-02  4.110e-02  -1.024 0.305714
## f.22000.0.083  -3.049e-04  4.115e-02  -0.007 0.994090
## f.22000.0.084   2.139e-02  4.115e-02   0.520 0.603188
## f.22000.0.085   3.724e-02  4.103e-02   0.908 0.364063
## f.22000.0.086  -2.177e-02  4.111e-02  -0.530 0.596408
## f.22000.0.087   4.002e-02  4.106e-02   0.975 0.329737
## f.22000.0.088   4.892e-03  4.189e-02   0.117 0.907037
## f.22000.0.089   1.340e-03  4.151e-02   0.032 0.974252
## f.22000.0.09   -9.749e-03  3.986e-02  -0.245 0.806777
## f.22000.0.0-9   6.701e-02  4.084e-02   1.641 0.100888
## f.22000.0.090  -4.032e-03  4.116e-02  -0.098 0.921968
## f.22000.0.091  -3.913e-02  4.249e-02  -0.921 0.357055
## f.22000.0.092   2.252e-02  4.117e-02   0.547 0.584325
## f.22000.0.093   1.132e-02  4.113e-02   0.275 0.783144
## f.22000.0.094   3.814e-03  5.257e-02   0.073 0.942154
## f.22000.0.095  -1.803e-02  4.388e-02  -0.411 0.681194
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9829 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03502,    Adjusted R-squared:  0.03398
## F-statistic:  33.7 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1711 -0.6198 -0.4331  0.4527  4.2126
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.024e+01  7.403e-01 -54.352  < 2e-16 ***
## `0.500000`      3.430e-02  2.865e-03  11.975  < 2e-16 ***
## f.22009.0.1     1.057e-02  2.987e-03   3.538 0.000404 ***
## f.22009.0.2    -3.237e-03  2.914e-03  -1.111 0.266638
```

```
## f.22009.0.2    -5.257e-03  2.914e-03  -1.803 0.071414 .
## f.22009.0.3    -7.831e-04  2.948e-03  -0.266 0.790489
## f.22009.0.5    -2.077e-03  3.128e-03  -0.664 0.506761
## f.22009.0.6     1.179e-04  2.957e-03   0.040 0.968198
## f.22009.0.7    -8.021e-03  3.005e-03  -2.669 0.007609 **
## f.22009.0.8     7.246e-03  3.195e-03   2.268 0.023345 *
## f.22009.0.9    -9.587e-03  3.033e-03  -3.161 0.001575 **
## f.22009.0.10    1.472e-03  3.481e-03   0.423 0.672356
## f.22009.0.11   -1.371e-03  4.054e-03  -0.338 0.735257
## f.22009.0.12    1.684e-03  3.572e-03   0.472 0.637185
## f.22009.0.13   -3.386e-03  2.906e-03  -1.165 0.243958
## f.22009.0.14   -1.692e-02  3.070e-03  -5.511 3.59e-08 ***
## f.22009.0.15   -1.681e-03  3.146e-03  -0.534 0.593153
## f.22009.0.16   -9.852e-03  3.086e-03  -3.192 0.001412 **
## f.22009.0.17    1.979e-05  2.867e-03   0.007 0.994494
## f.22009.0.18    1.765e-06  2.874e-03   0.001 0.999510
## f.22009.0.19    2.441e-03  2.862e-03   0.853 0.393732
## f.22009.0.20    2.792e-03  2.867e-03   0.974 0.330137
## f.22001.0.01   -1.492e-01  5.780e-03 -25.811  < 2e-16 ***
## f.34.0.0        2.064e-02  3.788e-04  54.494  < 2e-16 ***
## f.22000.0.0-1   3.730e-02  4.041e-02   0.923 0.356027
## f.22000.0.010  -3.698e-02  4.082e-02  -0.906 0.364991
## f.22000.0.0-10  8.132e-02  4.105e-02   1.981 0.047596 *
## f.22000.0.011   5.854e-02  4.016e-02   1.458 0.144939
## f.22000.0.0-11  2.772e-02  4.072e-02   0.681 0.495974
## f.22000.0.012  -7.387e-03  4.046e-02  -0.183 0.855142
## f.22000.0.013  -1.642e-02  4.027e-02  -0.408 0.683485
## f.22000.0.014   1.124e-02  4.003e-02   0.281 0.778811
## f.22000.0.015   3.423e-02  4.037e-02   0.848 0.396476
## f.22000.0.016   4.727e-02  4.051e-02   1.167 0.243221
## f.22000.0.017   2.159e-02  4.014e-02   0.538 0.590740
## f.22000.0.018  -3.118e-02  4.051e-02  -0.770 0.441450
## f.22000.0.019  -2.074e-03  3.977e-02  -0.052 0.958403
## f.22000.0.02   -1.761e-02  3.992e-02  -0.441 0.659189
## f.22000.0.0-2   7.872e-02  4.065e-02   1.937 0.052801 .
## f.22000.0.020  -1.117e-02  4.045e-02  -0.276 0.782528
## f.22000.0.021   3.484e-02  4.031e-02   0.864 0.387490
## f.22000.0.022   6.760e-03  4.031e-02   0.168 0.866825
## f.22000.0.023  -3.496e-03  4.034e-02  -0.087 0.930937
## f.22000.0.024   7.611e-03  3.978e-02   0.191 0.848263
## f.22000.0.025   2.677e-02  4.082e-02   0.656 0.512006
## f.22000.0.026  -5.050e-02  4.059e-02  -1.244 0.213485
## f.22000.0.027  -1.971e-02  3.995e-02  -0.493 0.621742
## f.22000.0.028   3.974e-03  4.037e-02   0.098 0.921593
## f.22000.0.029  -1.318e-03  4.004e-02  -0.033 0.973744
## f.22000.0.03    5.784e-03  4.000e-02   0.145 0.885018
## f.22000.0.0-3   1.061e-03  4.020e-02   0.026 0.978946
## f.22000.0.030  -3.751e-02  4.003e-02  -0.937 0.348826
## f.22000.0.031  -2.411e-02  4.022e-02  -0.599 0.548919
## f.22000.0.032  -1.998e-02  4.032e-02  -0.496 0.620223
## f.22000.0.033   1.537e-03  4.106e-02   0.037 0.970133
## f.22000.0.034   3.250e-02  4.011e-02   0.810 0.417773
## f.22000.0.035   5.141e-02  4.026e-02   1.277 0.201562
## f.22000.0.036   6.444e-03  3.996e-02   0.161 0.871884
## f.22000.0.037  -1.951e-02  4.055e-02  -0.481 0.630474
## f.22000.0.038   4.261e-02  4.036e-02   1.056 0.291047
## f.22000.0.039   1.198e-02  4.082e-02   0.294 0.769112
## f.22000.0.04   -6.931e-03  4.067e-02  -0.170 0.864675
## f.22000.0.0-4   5.678e-02  4.092e-02   1.387 0.165307
## f.22000.0.040   7.180e-03  4.038e-02   0.178 0.858881
## f.22000.0.041   2.535e-03  4.090e-02   0.062 0.950583
## f.22000.0.042  -3.425e-02  4.017e-02  -0.853 0.393882
## f.22000.0.043  -3.262e-02  4.095e-02  -0.796 0.425745
## f.22000.0.044   5.877e-02  4.059e-02   1.448 0.147682
## f.22000.0.045  -2.041e-03  4.050e-02  -0.050 0.959804
## f.22000.0.046  -3.899e-02  4.071e-02  -0.958 0.338137
## f.22000.0.047  -1.858e-02  4.076e-02  -0.456 0.648570
## f.22000.0.048  -1.368e-02  4.075e-02  -0.336 0.737150
## f.22000.0.049   4.964e-02  4.069e-02   1.220 0.222468
## f.22000.0.05   -7.883e-03  4.004e-02  -0.197 0.843929
## f.22000.0.0-5   7.595e-02  4.046e-02   1.877 0.060533 .
## f.22000.0.050   2.359e-03  4.069e-02   0.058 0.953771
## f.22000.0.051   7.187e-02  4.019e-02   1.788 0.073731 .
```

```
## f.22000.0.052   2.625e-03  4.098e-02   0.064 0.948922
## f.22000.0.053  -1.531e-02  4.060e-02  -0.377 0.706179
## f.22000.0.054   6.058e-02  4.067e-02   1.490 0.136356
## f.22000.0.055   5.695e-02  4.111e-02   1.385 0.165968
## f.22000.0.056   3.794e-02  4.074e-02   0.931 0.351669
## f.22000.0.057   4.708e-02  4.085e-02   1.152 0.249138
## f.22000.0.058   1.441e-02  4.074e-02   0.354 0.723478
## f.22000.0.059   1.175e-02  4.056e-02   0.290 0.772109
## f.22000.0.06    8.619e-03  3.988e-02   0.216 0.828900
## f.22000.0.0-6   4.272e-02  4.081e-02   1.047 0.295262
## f.22000.0.060  -2.600e-02  4.095e-02  -0.635 0.525538
## f.22000.0.061   1.503e-02  4.113e-02   0.366 0.714731
## f.22000.0.062   2.799e-02  4.103e-02   0.682 0.495201
## f.22000.0.063   3.256e-04  4.101e-02   0.008 0.993665
## f.22000.0.064  -1.584e-02  4.072e-02  -0.389 0.697216
## f.22000.0.065  -1.760e-02  4.093e-02  -0.430 0.667262
## f.22000.0.066  -1.030e-02  4.130e-02  -0.249 0.803078
## f.22000.0.067  -2.181e-02  4.091e-02  -0.533 0.593881
## f.22000.0.068   8.209e-03  4.080e-02   0.201 0.840544
## f.22000.0.069   3.694e-03  4.096e-02   0.090 0.928141
## f.22000.0.07   -3.503e-02  4.019e-02  -0.872 0.383477
## f.22000.0.0-7   4.819e-02  4.052e-02   1.189 0.234313
## f.22000.0.070  -1.948e-02  4.104e-02  -0.475 0.634969
## f.22000.0.071  -1.084e-02  4.077e-02  -0.266 0.790282
## f.22000.0.072  -7.506e-03  4.105e-02  -0.183 0.854915
## f.22000.0.073  -3.914e-03  4.111e-02  -0.095 0.924155
## f.22000.0.074   3.507e-02  4.118e-02   0.852 0.394406
## f.22000.0.075   6.258e-02  4.075e-02   1.536 0.124628
## f.22000.0.076   3.519e-02  4.118e-02   0.855 0.392793
## f.22000.0.077   7.729e-03  4.100e-02   0.189 0.850470
## f.22000.0.078  -4.991e-02  4.082e-02  -1.223 0.221453
## f.22000.0.079  -1.792e-02  4.067e-02  -0.441 0.659520
## f.22000.0.08   -1.122e-02  4.011e-02  -0.280 0.779640
## f.22000.0.0-8   2.206e-02  4.083e-02   0.540 0.588988
## f.22000.0.080   3.672e-02  4.114e-02   0.893 0.372062
## f.22000.0.081   3.157e-03  4.164e-02   0.076 0.939557
## f.22000.0.082  -4.190e-02  4.110e-02  -1.019 0.307985
## f.22000.0.083  -1.923e-04  4.115e-02  -0.005 0.996272
## f.22000.0.084   2.151e-02  4.115e-02   0.523 0.601154
## f.22000.0.085   3.743e-02  4.103e-02   0.912 0.361656
## f.22000.0.086  -2.153e-02  4.111e-02  -0.524 0.600456
## f.22000.0.087   4.026e-02  4.106e-02   0.981 0.326799
## f.22000.0.088   4.922e-03  4.189e-02   0.117 0.906464
## f.22000.0.089   1.385e-03  4.151e-02   0.033 0.973387
## f.22000.0.09   -9.574e-03  3.986e-02  -0.240 0.810171
## f.22000.0.0-9   6.726e-02  4.084e-02   1.647 0.099616 .
## f.22000.0.090  -3.723e-03  4.116e-02  -0.090 0.927943
## f.22000.0.091  -3.883e-02  4.249e-02  -0.914 0.360786
## f.22000.0.092   2.275e-02  4.117e-02   0.553 0.580551
## f.22000.0.093   1.157e-02  4.113e-02   0.281 0.778540
## f.22000.0.094   3.925e-03  5.257e-02   0.075 0.940483
## f.22000.0.095  -1.782e-02  4.388e-02  -0.406 0.684624
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03505,    Adjusted R-squared:  0.03401
## F-statistic: 33.73 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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.22009.0.13 + 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
## -1.1745 -0.6196 -0.4335  0.4526  4.2049
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.404e-01 -54.360  < 2e-16 ***
## `0.250000`      3.257e-02  2.865e-03  11.369  < 2e-16 ***
## f.22009.0.1     1.055e-02  2.987e-03   3.533  0.00041 ***
## f.22009.0.2    -3.239e-03  2.914e-03  -1.112  0.26625
## f.22009.0.3    -7.771e-04  2.948e-03  -0.264  0.79206
## f.22009.0.5    -2.121e-03  3.128e-03  -0.678  0.49784
## f.22009.0.6     1.360e-04  2.957e-03   0.046  0.96332
## f.22009.0.7    -8.037e-03  3.006e-03  -2.674  0.00750 **
## f.22009.0.8     7.215e-03  3.195e-03   2.258  0.02395 *
## f.22009.0.9    -9.527e-03  3.033e-03  -3.141  0.00169 **
## f.22009.0.10    1.527e-03  3.481e-03   0.439  0.66090
## f.22009.0.11   -1.418e-03  4.054e-03  -0.350  0.72657
## f.22009.0.12    1.674e-03  3.572e-03   0.469  0.63929
## f.22009.0.13   -3.350e-03  2.906e-03  -1.153  0.24908
## f.22009.0.14   -1.697e-02  3.071e-03  -5.527 3.26e-08 ***
## f.22009.0.15   -1.755e-03  3.146e-03  -0.558  0.57701
## f.22009.0.16   -9.783e-03  3.086e-03  -3.170  0.00153 **
## f.22009.0.17    5.380e-05  2.867e-03   0.019  0.98503
## f.22009.0.18   -9.160e-06  2.874e-03  -0.003  0.99746
## f.22009.0.19    2.466e-03  2.862e-03   0.861  0.38900
## f.22009.0.20    2.842e-03  2.867e-03   0.991  0.32153
## f.22001.0.01   -1.492e-01  5.780e-03 -25.814  < 2e-16 ***
## f.34.0.0        2.065e-02  3.789e-04  54.502  < 2e-16 ***
## f.22000.0.0-1   3.700e-02  4.041e-02   0.915  0.35997
## f.22000.0.010  -3.660e-02  4.083e-02  -0.897  0.36996
## f.22000.0.0-10  8.114e-02  4.105e-02   1.976  0.04813 *
## f.22000.0.011   5.807e-02  4.016e-02   1.446  0.14823
## f.22000.0.0-11  2.773e-02  4.072e-02   0.681  0.49587
## f.22000.0.012  -7.470e-03  4.047e-02  -0.185  0.85354
## f.22000.0.013  -1.722e-02  4.027e-02  -0.428  0.66884
## f.22000.0.014   1.041e-02  4.003e-02   0.260  0.79480
## f.22000.0.015   3.390e-02  4.037e-02   0.840  0.40108
## f.22000.0.016   4.642e-02  4.051e-02   1.146  0.25191
## f.22000.0.017   2.131e-02  4.015e-02   0.531  0.59552
## f.22000.0.018  -3.098e-02  4.051e-02  -0.765  0.44446
## f.22000.0.019  -2.497e-03  3.977e-02  -0.063  0.94993
## f.22000.0.02   -1.758e-02  3.993e-02  -0.440  0.65974
## f.22000.0.0-2   7.842e-02  4.065e-02   1.929  0.05372 .
## f.22000.0.020  -1.149e-02  4.046e-02  -0.284  0.77644
## f.22000.0.021   3.478e-02  4.031e-02   0.863  0.38821
## f.22000.0.022   6.380e-03  4.032e-02   0.158  0.87427
## f.22000.0.023  -3.269e-03  4.034e-02  -0.081  0.93541
## f.22000.0.024   7.674e-03  3.978e-02   0.193  0.84702
## f.22000.0.025   2.620e-02  4.082e-02   0.642  0.52107
## f.22000.0.026  -5.054e-02  4.060e-02  -1.245  0.21313
## f.22000.0.027  -2.005e-02  3.995e-02  -0.502  0.61574
## f.22000.0.028   3.567e-03  4.038e-02   0.088  0.92961
## f.22000.0.029  -1.468e-03  4.004e-02  -0.037  0.97075
## f.22000.0.03    5.123e-03  4.000e-02   0.128  0.89808
## f.22000.0.0-3   5.063e-04  4.020e-02   0.013  0.98995
## f.22000.0.030  -3.757e-02  4.004e-02  -0.938  0.34805
## f.22000.0.031  -2.451e-02  4.023e-02  -0.609  0.54232
## f.22000.0.032  -1.987e-02  4.032e-02  -0.493  0.62218
## f.22000.0.033   1.380e-03  4.106e-02   0.034  0.97319
## f.22000.0.034   3.186e-02  4.011e-02   0.794  0.42697
## f.22000.0.035   5.093e-02  4.026e-02   1.265  0.20585
## f.22000.0.036   6.135e-03  3.996e-02   0.154  0.87797
## f.22000.0.037  -2.005e-02  4.055e-02  -0.494  0.62104
## f.22000.0.038   4.278e-02  4.036e-02   1.060  0.28909
## f.22000.0.039   1.174e-02  4.082e-02   0.288  0.77372
## f.22000.0.04   -6.921e-03  4.067e-02  -0.170  0.86489
## f.22000.0.0-4   5.671e-02  4.092e-02   1.386  0.16581
## f.22000.0.040   7.048e-03  4.039e-02   0.175  0.86145
```

```
## f.22000.0.041   2.461e-03  4.090e-02   0.060  0.95203
## f.22000.0.042  -3.486e-02  4.017e-02  -0.868  0.38550
## f.22000.0.043  -3.271e-02  4.095e-02  -0.799  0.42446
## f.22000.0.044   5.800e-02  4.060e-02   1.429  0.15306
## f.22000.0.045  -2.460e-03  4.050e-02  -0.061  0.95157
## f.22000.0.046  -3.928e-02  4.071e-02  -0.965  0.33466
## f.22000.0.047  -1.865e-02  4.077e-02  -0.457  0.64732
## f.22000.0.048  -1.402e-02  4.075e-02  -0.344  0.73090
## f.22000.0.049   4.922e-02  4.069e-02   1.210  0.22644
## f.22000.0.05   -8.299e-03  4.004e-02  -0.207  0.83580
## f.22000.0.0-5   7.589e-02  4.047e-02   1.875  0.06074 .
## f.22000.0.050   2.484e-03  4.069e-02   0.061  0.95132
## f.22000.0.051   7.127e-02  4.019e-02   1.773  0.07619 .
## f.22000.0.052   2.141e-03  4.098e-02   0.052  0.95834
## f.22000.0.053  -1.540e-02  4.060e-02  -0.379  0.70451
## f.22000.0.054   6.038e-02  4.067e-02   1.485  0.13767
## f.22000.0.055   5.650e-02  4.111e-02   1.374  0.16938
## f.22000.0.056   3.744e-02  4.074e-02   0.919  0.35814
## f.22000.0.057   4.683e-02  4.086e-02   1.146  0.25169
## f.22000.0.058   1.407e-02  4.074e-02   0.345  0.72974
## f.22000.0.059   1.130e-02  4.057e-02   0.279  0.78056
## f.22000.0.06    8.321e-03  3.988e-02   0.209  0.83473
## f.22000.0.0-6   4.257e-02  4.082e-02   1.043  0.29699
## f.22000.0.060  -2.616e-02  4.095e-02  -0.639  0.52303
## f.22000.0.061   1.514e-02  4.113e-02   0.368  0.71286
## f.22000.0.062   2.776e-02  4.103e-02   0.677  0.49863
## f.22000.0.063   4.772e-04  4.101e-02   0.012  0.99072
## f.22000.0.064  -1.633e-02  4.072e-02  -0.401  0.68846
## f.22000.0.065  -1.774e-02  4.093e-02  -0.433  0.66467
## f.22000.0.066  -1.045e-02  4.130e-02  -0.253  0.80029
## f.22000.0.067  -2.218e-02  4.091e-02  -0.542  0.58780
## f.22000.0.068   8.217e-03  4.080e-02   0.201  0.84041
## f.22000.0.069   3.551e-03  4.096e-02   0.087  0.93092
## f.22000.0.07   -3.527e-02  4.019e-02  -0.878  0.38020
## f.22000.0.0-7   4.779e-02  4.052e-02   1.179  0.23830
## f.22000.0.070  -2.013e-02  4.104e-02  -0.490  0.62385
## f.22000.0.071  -1.101e-02  4.078e-02  -0.270  0.78720
## f.22000.0.072  -7.224e-03  4.105e-02  -0.176  0.86031
## f.22000.0.073  -4.171e-03  4.112e-02  -0.101  0.91919
## f.22000.0.074   3.491e-02  4.118e-02   0.848  0.39667
## f.22000.0.075   6.294e-02  4.076e-02   1.544  0.12252
## f.22000.0.076   3.510e-02  4.118e-02   0.852  0.39410
## f.22000.0.077   7.261e-03  4.100e-02   0.177  0.85944
## f.22000.0.078  -5.063e-02  4.083e-02  -1.240  0.21494
## f.22000.0.079  -1.799e-02  4.067e-02  -0.442  0.65819
## f.22000.0.08   -1.123e-02  4.011e-02  -0.280  0.77945
## f.22000.0.0-8   2.193e-02  4.084e-02   0.537  0.59132
## f.22000.0.080   3.655e-02  4.115e-02   0.888  0.37435
## f.22000.0.081   2.352e-03  4.164e-02   0.056  0.95495
## f.22000.0.082  -4.180e-02  4.110e-02  -1.017  0.30917
## f.22000.0.083  -6.966e-04  4.116e-02  -0.017  0.98650
## f.22000.0.084   2.139e-02  4.116e-02   0.520  0.60319
## f.22000.0.085   3.730e-02  4.103e-02   0.909  0.36331
## f.22000.0.086  -2.182e-02  4.111e-02  -0.531  0.59564
## f.22000.0.087   4.020e-02  4.106e-02   0.979  0.32758
## f.22000.0.088   5.144e-03  4.189e-02   0.123  0.90226
## f.22000.0.089   1.472e-03  4.151e-02   0.035  0.97171
## f.22000.0.09   -1.013e-02  3.986e-02  -0.254  0.79945
## f.22000.0.0-9   6.679e-02  4.084e-02   1.635  0.10198
## f.22000.0.090  -3.920e-03  4.117e-02  -0.095  0.92413
## f.22000.0.091  -3.934e-02  4.249e-02  -0.926  0.35453
## f.22000.0.092   2.281e-02  4.117e-02   0.554  0.57967
## f.22000.0.093   1.113e-02  4.114e-02   0.271  0.78669
## f.22000.0.094   3.847e-03  5.257e-02   0.073  0.94166
## f.22000.0.095  -1.796e-02  4.388e-02  -0.409  0.68239
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9829 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03494,    Adjusted R-squared:  0.0339
## F-statistic: 33.62 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1620 -0.6198 -0.4335  0.4528  4.2270
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.404e-01 -54.359  < 2e-16 ***
## `0.100000`      3.066e-02  2.865e-03  10.703  < 2e-16 ***
## f.22009.0.1     1.060e-02  2.987e-03   3.549 0.000387 ***
## f.22009.0.2    -3.229e-03  2.914e-03  -1.108 0.267806
## f.22009.0.3    -7.577e-04  2.948e-03  -0.257 0.797142
## f.22009.0.5    -2.125e-03  3.129e-03  -0.679 0.496970
## f.22009.0.6     5.968e-05  2.958e-03   0.020 0.983900
## f.22009.0.7    -8.039e-03  3.006e-03  -2.675 0.007483 **
## f.22009.0.8     7.227e-03  3.195e-03   2.262 0.023729 *
## f.22009.0.9    -9.488e-03  3.034e-03  -3.128 0.001762 **
## f.22009.0.10    1.494e-03  3.481e-03   0.429 0.667742
## f.22009.0.11   -1.445e-03  4.054e-03  -0.356 0.721540
## f.22009.0.12    1.699e-03  3.572e-03   0.476 0.634394
## f.22009.0.13   -3.479e-03  2.906e-03  -1.197 0.231274
## f.22009.0.14   -1.684e-02  3.071e-03  -5.485 4.14e-08 ***
## f.22009.0.15   -1.814e-03  3.147e-03  -0.577 0.564202
## f.22009.0.16   -9.825e-03  3.087e-03  -3.183 0.001458 **
## f.22009.0.17    5.438e-05  2.868e-03   0.019 0.984870
## f.22009.0.18   -5.254e-05  2.874e-03  -0.018 0.985415
## f.22009.0.19    2.557e-03  2.862e-03   0.893 0.371632
## f.22009.0.20    2.884e-03  2.867e-03   1.006 0.314538
## f.22001.0.01   -1.494e-01  5.780e-03 -25.840  < 2e-16 ***
## f.34.0.0        2.065e-02  3.789e-04  54.501  < 2e-16 ***
## f.22000.0.0-1   3.643e-02  4.042e-02   0.901 0.367413
## f.22000.0.010  -3.702e-02  4.083e-02  -0.907 0.364560
## f.22000.0.0-10  8.056e-02  4.106e-02   1.962 0.049739 *
## f.22000.0.011   5.756e-02  4.016e-02   1.433 0.151850
## f.22000.0.0-11  2.754e-02  4.072e-02   0.676 0.498832
## f.22000.0.012  -7.255e-03  4.047e-02  -0.179 0.857729
## f.22000.0.013  -1.726e-02  4.027e-02  -0.429 0.668164
## f.22000.0.014   1.062e-02  4.003e-02   0.265 0.790732
## f.22000.0.015   3.365e-02  4.037e-02   0.833 0.404567
## f.22000.0.016   4.620e-02  4.051e-02   1.140 0.254176
## f.22000.0.017   2.140e-02  4.015e-02   0.533 0.593961
## f.22000.0.018  -3.090e-02  4.051e-02  -0.763 0.445578
## f.22000.0.019  -3.544e-03  3.977e-02  -0.089 0.928991
## f.22000.0.02   -1.796e-02  3.993e-02  -0.450 0.652766
## f.22000.0.0-2   7.898e-02  4.065e-02   1.943 0.052052 .
## f.22000.0.020  -1.202e-02  4.046e-02  -0.297 0.766370
## f.22000.0.021   3.449e-02  4.031e-02   0.855 0.392287
## f.22000.0.022   6.144e-03  4.032e-02   0.152 0.878874
## f.22000.0.023  -3.735e-03  4.034e-02  -0.093 0.926237
## f.22000.0.024   7.388e-03  3.978e-02   0.186 0.852679
## f.22000.0.025   2.591e-02  4.083e-02   0.635 0.525654
## f.22000.0.026  -5.096e-02  4.060e-02  -1.255 0.209393
## f.22000.0.027  -1.976e-02  3.995e-02  -0.495 0.620924
## f.22000.0.028   3.881e-03  4.038e-02   0.096 0.923439
## f.22000.0.029  -1.588e-03  4.005e-02  -0.040 0.968369
## f.22000.0.03    4.808e-03  4.000e-02   0.120 0.904331
## f.22000.0.0-3   1.089e-03  4.020e-02   0.027 0.978388
## f.22000.0.030  -3.796e-02  4.004e-02  -0.948 0.343109
```

```
## f.22000.0.030  -3.796e-02  4.004e-02  -0.948 0.343109
## f.22000.0.031  -2.456e-02  4.023e-02  -0.611 0.541477
## f.22000.0.032  -1.993e-02  4.032e-02  -0.494 0.621154
## f.22000.0.033   1.264e-03  4.107e-02   0.031 0.975448
## f.22000.0.034   3.211e-02  4.011e-02   0.801 0.423418
## f.22000.0.035   5.059e-02  4.026e-02   1.256 0.208940
## f.22000.0.036   6.137e-03  3.996e-02   0.154 0.877947
## f.22000.0.037  -1.975e-02  4.055e-02  -0.487 0.626171
## f.22000.0.038   4.248e-02  4.036e-02   1.052 0.292574
## f.22000.0.039   1.152e-02  4.083e-02   0.282 0.777729
## f.22000.0.04   -7.027e-03  4.068e-02  -0.173 0.862849
## f.22000.0.0-4   5.605e-02  4.093e-02   1.369 0.170877
## f.22000.0.040   6.468e-03  4.039e-02   0.160 0.872768
## f.22000.0.041   1.771e-03  4.090e-02   0.043 0.965472
## f.22000.0.042  -3.493e-02  4.017e-02  -0.870 0.384532
## f.22000.0.043  -3.356e-02  4.096e-02  -0.820 0.412488
## f.22000.0.044   5.737e-02  4.060e-02   1.413 0.157616
## f.22000.0.045  -2.353e-03  4.051e-02  -0.058 0.953670
## f.22000.0.046  -3.903e-02  4.071e-02  -0.959 0.337702
## f.22000.0.047  -1.852e-02  4.077e-02  -0.454 0.649630
## f.22000.0.048  -1.418e-02  4.075e-02  -0.348 0.727884
## f.22000.0.049   4.904e-02  4.069e-02   1.205 0.228180
## f.22000.0.05   -9.048e-03  4.004e-02  -0.226 0.821246
## f.22000.0.0-5   7.578e-02  4.047e-02   1.873 0.061133 .
## f.22000.0.050   2.999e-03  4.069e-02   0.074 0.941249
## f.22000.0.051   7.098e-02  4.019e-02   1.766 0.077392 .
## f.22000.0.052   2.245e-03  4.099e-02   0.055 0.956326
## f.22000.0.053  -1.578e-02  4.061e-02  -0.389 0.697512
## f.22000.0.054   6.004e-02  4.067e-02   1.476 0.139890
## f.22000.0.055   5.665e-02  4.112e-02   1.378 0.168286
## f.22000.0.056   3.743e-02  4.074e-02   0.919 0.358207
## f.22000.0.057   4.666e-02  4.086e-02   1.142 0.253510
## f.22000.0.058   1.359e-02  4.074e-02   0.334 0.738661
## f.22000.0.059   1.153e-02  4.057e-02   0.284 0.776180
## f.22000.0.06    8.514e-03  3.989e-02   0.213 0.830963
## f.22000.0.0-6   4.184e-02  4.082e-02   1.025 0.305399
## f.22000.0.060  -2.664e-02  4.095e-02  -0.650 0.515432
## f.22000.0.061   1.570e-02  4.113e-02   0.382 0.702708
## f.22000.0.062   2.787e-02  4.104e-02   0.679 0.497061
## f.22000.0.063   5.589e-04  4.101e-02   0.014 0.989128
## f.22000.0.064  -1.576e-02  4.072e-02  -0.387 0.698821
## f.22000.0.065  -1.708e-02  4.094e-02  -0.417 0.676586
## f.22000.0.066  -1.172e-02  4.130e-02  -0.284 0.776580
## f.22000.0.067  -2.285e-02  4.091e-02  -0.558 0.576552
## f.22000.0.068   7.288e-03  4.081e-02   0.179 0.858252
## f.22000.0.069   2.968e-03  4.096e-02   0.072 0.942233
## f.22000.0.07   -3.548e-02  4.019e-02  -0.883 0.377436
## f.22000.0.0-7   4.740e-02  4.053e-02   1.170 0.242135
## f.22000.0.070  -2.010e-02  4.105e-02  -0.490 0.624366
## f.22000.0.071  -1.037e-02  4.078e-02  -0.254 0.799339
## f.22000.0.072  -7.327e-03  4.106e-02  -0.178 0.858351
## f.22000.0.073  -3.997e-03  4.112e-02  -0.097 0.922555
## f.22000.0.074   3.500e-02  4.119e-02   0.850 0.395483
## f.22000.0.075   6.311e-02  4.076e-02   1.548 0.121525
## f.22000.0.076   3.619e-02  4.119e-02   0.879 0.379580
## f.22000.0.077   7.537e-03  4.100e-02   0.184 0.854164
## f.22000.0.078  -5.022e-02  4.083e-02  -1.230 0.218650
## f.22000.0.079  -1.835e-02  4.067e-02  -0.451 0.651950
## f.22000.0.08   -1.171e-02  4.011e-02  -0.292 0.770409
## f.22000.0.0-8   2.237e-02  4.084e-02   0.548 0.583798
## f.22000.0.080   3.682e-02  4.115e-02   0.895 0.370833
## f.22000.0.081   2.010e-03  4.165e-02   0.048 0.961502
## f.22000.0.082  -4.210e-02  4.110e-02  -1.024 0.305743
## f.22000.0.083  -1.233e-03  4.116e-02  -0.030 0.976103
## f.22000.0.084   2.139e-02  4.116e-02   0.520 0.603272
## f.22000.0.085   3.734e-02  4.103e-02   0.910 0.362833
## f.22000.0.086  -2.242e-02  4.112e-02  -0.545 0.585568
## f.22000.0.087   4.040e-02  4.106e-02   0.984 0.325215
## f.22000.0.088   5.211e-03  4.189e-02   0.124 0.901010
## f.22000.0.089   1.955e-03  4.152e-02   0.047 0.962448
## f.22000.0.09   -9.839e-03  3.986e-02  -0.247 0.805039
## f.22000.0.0-9   6.696e-02  4.085e-02   1.639 0.101154
## f.22000.0.090  -4.057e-03  4.117e-02  -0.099 0.921496
```

```
## f.22000.0.091  -3.946e-02  4.249e-02  -0.929 0.353145
## f.22000.0.092   2.260e-02  4.118e-02   0.549 0.583096
## f.22000.0.093   1.107e-02  4.114e-02   0.269 0.787817
## f.22000.0.094   3.281e-03  5.257e-02   0.062 0.950244
## f.22000.0.095  -1.774e-02  4.388e-02  -0.404 0.686030
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.983 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03482,    Adjusted R-squared:  0.03378
## F-statistic:  33.5 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1450 -0.6196 -0.4344  0.4537  4.2259
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.025e+01  7.405e-01 -54.354  < 2e-16 ***
## `0.010000`      2.718e-02  2.864e-03   9.490  < 2e-16 ***
## f.22009.0.1     1.074e-02  2.987e-03   3.596 0.000323 ***
## f.22009.0.2    -3.213e-03  2.914e-03  -1.103 0.270243
## f.22009.0.3    -9.192e-04  2.948e-03  -0.312 0.755201
## f.22009.0.5    -1.770e-03  3.129e-03  -0.566 0.571627
## f.22009.0.6    -7.823e-05  2.958e-03  -0.026 0.978901
## f.22009.0.7    -8.156e-03  3.006e-03  -2.713 0.006661 **
## f.22009.0.8     7.156e-03  3.196e-03   2.239 0.025147 *
## f.22009.0.9    -9.406e-03  3.034e-03  -3.100 0.001934 **
## f.22009.0.10    1.602e-03  3.481e-03   0.460 0.645510
## f.22009.0.11   -1.135e-03  4.055e-03  -0.280 0.779571
## f.22009.0.12    1.704e-03  3.572e-03   0.477 0.633451
## f.22009.0.13   -3.499e-03  2.907e-03  -1.204 0.228644
## f.22009.0.14   -1.693e-02  3.071e-03  -5.514 3.52e-08 ***
## f.22009.0.15   -1.767e-03  3.147e-03  -0.562 0.574442
## f.22009.0.16   -9.886e-03  3.087e-03  -3.203 0.001363 **
## f.22009.0.17    1.286e-04  2.868e-03   0.045 0.964237
## f.22009.0.18    3.476e-05  2.874e-03   0.012 0.990352
## f.22009.0.19    2.786e-03  2.863e-03   0.973 0.330467
## f.22009.0.20    2.676e-03  2.868e-03   0.933 0.350789
## f.22001.0.01   -1.494e-01  5.781e-03 -25.842  < 2e-16 ***
## f.34.0.0        2.065e-02  3.789e-04  54.495  < 2e-16 ***
## f.22000.0.0-1   3.728e-02  4.042e-02   0.922 0.356395
## f.22000.0.010  -3.734e-02  4.083e-02  -0.914 0.360508
## f.22000.0.0-10  8.144e-02  4.106e-02   1.983 0.047320 *
## f.22000.0.011   5.860e-02  4.017e-02   1.459 0.144620
## f.22000.0.0-11  2.873e-02  4.073e-02   0.705 0.480583
## f.22000.0.012  -6.624e-03  4.047e-02  -0.164 0.869991
## f.22000.0.013  -1.727e-02  4.027e-02  -0.429 0.668044
## f.22000.0.014   1.143e-02  4.003e-02   0.285 0.775309
## f.22000.0.015   3.497e-02  4.037e-02   0.866 0.386419
## f.22000.0.016   4.735e-02  4.052e-02   1.169 0.242586
## f.22000.0.017   2.199e-02  4.015e-02   0.548 0.583911
## f.22000.0.018  -3.012e-02  4.052e-02  -0.743 0.457227
## f.22000.0.019  -2.819e-03  3.978e-02  -0.071 0.943505
## f.22000.0.02   -1.708e-02  3.993e-02  -0.428 0.668787
## f.22000.0.0-2   8.021e-02  4.066e-02   1.973 0.048519 *
```

```
## f.22000.0.0-2   8.021e-02  4.066e-02   1.973 0.048519 *
## f.22000.0.020  -9.851e-03  4.046e-02  -0.243 0.807661
## f.22000.0.021   3.592e-02  4.032e-02   0.891 0.372984
## f.22000.0.022   7.603e-03  4.032e-02   0.189 0.850441
## f.22000.0.023  -3.060e-03  4.035e-02  -0.076 0.939544
## f.22000.0.024   9.176e-03  3.979e-02   0.231 0.817612
## f.22000.0.025   2.611e-02  4.083e-02   0.639 0.522546
## f.22000.0.026  -5.006e-02  4.060e-02  -1.233 0.217589
## f.22000.0.027  -2.001e-02  3.996e-02  -0.501 0.616591
## f.22000.0.028   4.997e-03  4.038e-02   0.124 0.901530
## f.22000.0.029  -3.550e-04  4.005e-02  -0.009 0.992927
## f.22000.0.03    5.775e-03  4.001e-02   0.144 0.885220
## f.22000.0.0-3   3.217e-03  4.021e-02   0.080 0.936234
## f.22000.0.030  -3.593e-02  4.004e-02  -0.897 0.369623
## f.22000.0.031  -2.244e-02  4.023e-02  -0.558 0.577017
## f.22000.0.032  -1.921e-02  4.033e-02  -0.476 0.633753
## f.22000.0.033   2.724e-03  4.107e-02   0.066 0.947116
## f.22000.0.034   3.270e-02  4.012e-02   0.815 0.414943
## f.22000.0.035   5.183e-02  4.027e-02   1.287 0.197993
## f.22000.0.036   7.371e-03  3.996e-02   0.184 0.853665
## f.22000.0.037  -1.955e-02  4.056e-02  -0.482 0.629701
## f.22000.0.038   4.346e-02  4.037e-02   1.077 0.281653
## f.22000.0.039   1.315e-02  4.083e-02   0.322 0.747393
## f.22000.0.04   -6.562e-03  4.068e-02  -0.161 0.871842
## f.22000.0.0-4   5.694e-02  4.093e-02   1.391 0.164186
## f.22000.0.040   6.727e-03  4.039e-02   0.167 0.867737
## f.22000.0.041   1.664e-03  4.091e-02   0.041 0.967560
## f.22000.0.042  -3.554e-02  4.018e-02  -0.885 0.376333
## f.22000.0.043  -3.318e-02  4.096e-02  -0.810 0.417952
## f.22000.0.044   5.796e-02  4.060e-02   1.427 0.153459
## f.22000.0.045  -8.825e-04  4.051e-02  -0.022 0.982621
## f.22000.0.046  -3.695e-02  4.072e-02  -0.907 0.364189
## f.22000.0.047  -1.723e-02  4.077e-02  -0.423 0.672651
## f.22000.0.048  -1.495e-02  4.076e-02  -0.367 0.713754
## f.22000.0.049   5.022e-02  4.070e-02   1.234 0.217231
## f.22000.0.05   -8.823e-03  4.005e-02  -0.220 0.825626
## f.22000.0.0-5   7.621e-02  4.047e-02   1.883 0.059723 .
## f.22000.0.050   3.544e-03  4.070e-02   0.087 0.930608
## f.22000.0.051   7.211e-02  4.020e-02   1.794 0.072848 .
## f.22000.0.052   2.772e-03  4.099e-02   0.068 0.946083
## f.22000.0.053  -1.523e-02  4.061e-02  -0.375 0.707625
## f.22000.0.054   6.094e-02  4.068e-02   1.498 0.134122
## f.22000.0.055   5.822e-02  4.112e-02   1.416 0.156796
## f.22000.0.056   3.806e-02  4.075e-02   0.934 0.350278
## f.22000.0.057   4.790e-02  4.086e-02   1.172 0.241137
## f.22000.0.058   1.399e-02  4.075e-02   0.343 0.731363
## f.22000.0.059   1.277e-02  4.057e-02   0.315 0.752966
## f.22000.0.06    9.186e-03  3.989e-02   0.230 0.817880
## f.22000.0.0-6   4.387e-02  4.082e-02   1.075 0.282532
## f.22000.0.060  -2.497e-02  4.096e-02  -0.610 0.542083
## f.22000.0.061   1.588e-02  4.114e-02   0.386 0.699527
## f.22000.0.062   2.961e-02  4.104e-02   0.721 0.470604
## f.22000.0.063   2.397e-03  4.102e-02   0.058 0.953402
## f.22000.0.064  -1.465e-02  4.073e-02  -0.360 0.718977
## f.22000.0.065  -1.506e-02  4.094e-02  -0.368 0.712987
## f.22000.0.066  -1.193e-02  4.131e-02  -0.289 0.772662
## f.22000.0.067  -2.231e-02  4.092e-02  -0.545 0.585564
## f.22000.0.068   8.681e-03  4.081e-02   0.213 0.831558
## f.22000.0.069   3.123e-03  4.097e-02   0.076 0.939243
## f.22000.0.07   -3.407e-02  4.020e-02  -0.848 0.396651
## f.22000.0.0-7   4.801e-02  4.053e-02   1.184 0.236231
## f.22000.0.070  -1.795e-02  4.105e-02  -0.437 0.661873
## f.22000.0.071  -1.029e-02  4.078e-02  -0.252 0.800872
## f.22000.0.072  -6.082e-03  4.106e-02  -0.148 0.882235
## f.22000.0.073  -3.425e-03  4.112e-02  -0.083 0.933622
## f.22000.0.074   3.542e-02  4.119e-02   0.860 0.389887
## f.22000.0.075   6.422e-02  4.076e-02   1.575 0.115160
## f.22000.0.076   3.755e-02  4.119e-02   0.912 0.362004
## f.22000.0.077   8.355e-03  4.101e-02   0.204 0.838566
## f.22000.0.078  -4.998e-02  4.083e-02  -1.224 0.220972
## f.22000.0.079  -1.669e-02  4.068e-02  -0.410 0.681640
## f.22000.0.08   -9.734e-03  4.012e-02  -0.243 0.808284
## f.22000.0.0-8   2.258e-02  4.084e-02   0.553 0.580447
```

```
## f.22000.0.080   3.824e-02  4.115e-02   0.929 0.352816
## f.22000.0.081   2.851e-03  4.165e-02   0.068 0.945419
## f.22000.0.082  -4.014e-02  4.111e-02  -0.976 0.328862
## f.22000.0.083   8.913e-05  4.116e-02   0.002 0.998272
## f.22000.0.084   2.295e-02  4.116e-02   0.558 0.577121
## f.22000.0.085   3.808e-02  4.104e-02   0.928 0.353403
## f.22000.0.086  -2.113e-02  4.112e-02  -0.514 0.607308
## f.22000.0.087   4.053e-02  4.107e-02   0.987 0.323658
## f.22000.0.088   6.416e-03  4.190e-02   0.153 0.878297
## f.22000.0.089   2.786e-03  4.152e-02   0.067 0.946505
## f.22000.0.09   -9.576e-03  3.987e-02  -0.240 0.810175
## f.22000.0.0-9   6.916e-02  4.085e-02   1.693 0.090467 .
## f.22000.0.090  -2.254e-03  4.117e-02  -0.055 0.956346
## f.22000.0.091  -3.959e-02  4.250e-02  -0.931 0.351598
## f.22000.0.092   2.366e-02  4.118e-02   0.574 0.565664
## f.22000.0.093   1.189e-02  4.114e-02   0.289 0.772570
## f.22000.0.094   3.627e-03  5.258e-02   0.069 0.945004
## f.22000.0.095  -1.597e-02  4.389e-02  -0.364 0.715931
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9831 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03462,    Adjusted R-squared:  0.03358
## F-statistic:  33.3 on 127 and 117941 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.22009.0.5 + 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.22009.0.5 + 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
## -1.1465 -0.6193 -0.4343  0.4545  4.1975
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.026e+01  7.407e-01 -54.362  < 2e-16 ***
## `0.001000`      1.726e-02  2.863e-03   6.030 1.64e-09 ***
## f.22009.0.1     1.076e-02  2.988e-03   3.600 0.000319 ***
## f.22009.0.2    -3.256e-03  2.915e-03  -1.117 0.263963
## f.22009.0.3    -9.757e-04  2.949e-03  -0.331 0.740735
## f.22009.0.5    -1.201e-03  3.129e-03  -0.384 0.701195
## f.22009.0.6     1.526e-04  2.959e-03   0.052 0.958869
## f.22009.0.7    -8.300e-03  3.007e-03  -2.761 0.005770 **
## f.22009.0.8     7.266e-03  3.197e-03   2.273 0.023023 *
## f.22009.0.9    -9.667e-03  3.035e-03  -3.186 0.001445 **
## f.22009.0.10    1.575e-03  3.482e-03   0.452 0.651064
## f.22009.0.11   -8.703e-04  4.056e-03  -0.215 0.830090
## f.22009.0.12    1.782e-03  3.573e-03   0.499 0.617992
## f.22009.0.13   -3.435e-03  2.907e-03  -1.181 0.237434
## f.22009.0.14   -1.707e-02  3.072e-03  -5.558 2.74e-08 ***
## f.22009.0.15   -1.660e-03  3.148e-03  -0.527 0.597877
## f.22009.0.16   -9.730e-03  3.088e-03  -3.151 0.001627 **
## f.22009.0.17   -2.071e-05  2.869e-03  -0.007 0.994238
## f.22009.0.18   -2.423e-04  2.875e-03  -0.084 0.932845
## f.22009.0.19    2.515e-03  2.863e-03   0.878 0.379702
## f.22009.0.20    2.815e-03  2.869e-03   0.981 0.326543
## f.22001.0.01   -1.497e-01  5.782e-03 -25.886  < 2e-16 ***
## f.34.0.0        2.066e-02  3.790e-04  54.504  < 2e-16 ***
## f.22000.0.0-1   3.738e-02  4.043e-02   0.925 0.355217
## f.22000.0.010  -3.766e-02  4.084e-02  -0.922 0.356501
```

```
## f.22000.0.010  -3.766e-02  4.084e-02  -0.922 0.356501
## f.22000.0.0-10  8.018e-02  4.107e-02   1.952 0.050921 .
## f.22000.0.011   5.844e-02  4.018e-02   1.455 0.145775
## f.22000.0.0-11  2.825e-02  4.074e-02   0.694 0.487956
## f.22000.0.012  -7.323e-03  4.048e-02  -0.181 0.856463
## f.22000.0.013  -1.866e-02  4.028e-02  -0.463 0.643289
## f.22000.0.014   1.038e-02  4.004e-02   0.259 0.795520
## f.22000.0.015   3.460e-02  4.038e-02   0.857 0.391555
## f.22000.0.016   4.645e-02  4.053e-02   1.146 0.251750
## f.22000.0.017   2.267e-02  4.016e-02   0.564 0.572417
## f.22000.0.018  -3.033e-02  4.052e-02  -0.748 0.454262
## f.22000.0.019  -3.315e-03  3.979e-02  -0.083 0.933603
## f.22000.0.02   -1.750e-02  3.994e-02  -0.438 0.661199
## f.22000.0.0-2   7.917e-02  4.067e-02   1.947 0.051576 .
## f.22000.0.020  -1.138e-02  4.047e-02  -0.281 0.778514
## f.22000.0.021   3.523e-02  4.033e-02   0.874 0.382366
## f.22000.0.022   6.717e-03  4.033e-02   0.167 0.867733
## f.22000.0.023  -3.426e-03  4.036e-02  -0.085 0.932351
## f.22000.0.024   7.750e-03  3.980e-02   0.195 0.845590
## f.22000.0.025   2.613e-02  4.084e-02   0.640 0.522294
## f.22000.0.026  -5.171e-02  4.061e-02  -1.273 0.202899
## f.22000.0.027  -1.988e-02  3.997e-02  -0.497 0.618969
## f.22000.0.028   4.251e-03  4.039e-02   0.105 0.916191
## f.22000.0.029  -1.285e-03  4.006e-02  -0.032 0.974406
## f.22000.0.03    5.557e-03  4.002e-02   0.139 0.889558
## f.22000.0.0-3   2.297e-03  4.021e-02   0.057 0.954455
## f.22000.0.030  -3.657e-02  4.005e-02  -0.913 0.361233
## f.22000.0.031  -2.268e-02  4.024e-02  -0.564 0.573036
## f.22000.0.032  -1.913e-02  4.034e-02  -0.474 0.635335
## f.22000.0.033   1.913e-03  4.108e-02   0.047 0.962858
## f.22000.0.034   3.256e-02  4.013e-02   0.811 0.417145
## f.22000.0.035   5.154e-02  4.028e-02   1.280 0.200686
## f.22000.0.036   5.988e-03  3.997e-02   0.150 0.880934
## f.22000.0.037  -1.940e-02  4.057e-02  -0.478 0.632463
## f.22000.0.038   4.226e-02  4.037e-02   1.047 0.295255
## f.22000.0.039   1.423e-02  4.084e-02   0.348 0.727543
## f.22000.0.04   -6.479e-03  4.069e-02  -0.159 0.873489
## f.22000.0.0-4   5.692e-02  4.094e-02   1.390 0.164428
## f.22000.0.040   6.336e-03  4.040e-02   0.157 0.875384
## f.22000.0.041   1.704e-03  4.092e-02   0.042 0.966777
## f.22000.0.042  -3.471e-02  4.019e-02  -0.864 0.387731
## f.22000.0.043  -3.365e-02  4.097e-02  -0.821 0.411471
## f.22000.0.044   5.746e-02  4.061e-02   1.415 0.157092
## f.22000.0.045  -8.518e-04  4.052e-02  -0.021 0.983229
## f.22000.0.046  -3.724e-02  4.073e-02  -0.914 0.360480
## f.22000.0.047  -1.886e-02  4.078e-02  -0.462 0.643732
## f.22000.0.048  -1.601e-02  4.077e-02  -0.393 0.694467
## f.22000.0.049   4.941e-02  4.071e-02   1.214 0.224872
## f.22000.0.05   -9.272e-03  4.006e-02  -0.231 0.816959
## f.22000.0.0-5   7.437e-02  4.048e-02   1.837 0.066192 .
## f.22000.0.050   1.865e-03  4.071e-02   0.046 0.963454
## f.22000.0.051   7.159e-02  4.021e-02   1.781 0.074995 .
## f.22000.0.052   2.185e-03  4.100e-02   0.053 0.957496
## f.22000.0.053  -1.609e-02  4.062e-02  -0.396 0.692068
## f.22000.0.054   6.065e-02  4.069e-02   1.491 0.136082
## f.22000.0.055   5.771e-02  4.113e-02   1.403 0.160578
## f.22000.0.056   3.677e-02  4.076e-02   0.902 0.366900
## f.22000.0.057   4.707e-02  4.087e-02   1.152 0.249475
## f.22000.0.058   1.383e-02  4.075e-02   0.339 0.734340
## f.22000.0.059   1.268e-02  4.058e-02   0.312 0.754676
## f.22000.0.06    8.225e-03  3.990e-02   0.206 0.836678
## f.22000.0.0-6   4.273e-02  4.083e-02   1.047 0.295307
## f.22000.0.060  -2.594e-02  4.097e-02  -0.633 0.526609
## f.22000.0.061   1.543e-02  4.115e-02   0.375 0.707718
## f.22000.0.062   2.946e-02  4.105e-02   0.718 0.472942
## f.22000.0.063   1.195e-03  4.103e-02   0.029 0.976763
## f.22000.0.064  -1.550e-02  4.073e-02  -0.381 0.703565
## f.22000.0.065  -1.695e-02  4.095e-02  -0.414 0.678908
## f.22000.0.066  -1.076e-02  4.132e-02  -0.260 0.794527
## f.22000.0.067  -2.202e-02  4.093e-02  -0.538 0.590546
## f.22000.0.068   8.486e-03  4.082e-02   0.208 0.835330
## f.22000.0.069   2.380e-03  4.098e-02   0.058 0.953682
## f.22000.0.07   -3.477e-02  4.021e-02  -0.865 0.387158
```

```
## f.22000.0.0-7   4.800e-02  4.054e-02   1.184 0.236450
## f.22000.0.070  -1.845e-02  4.106e-02  -0.449 0.653233
## f.22000.0.071  -9.219e-03  4.079e-02  -0.226 0.821208
## f.22000.0.072  -6.424e-03  4.107e-02  -0.156 0.875712
## f.22000.0.073  -5.042e-03  4.113e-02  -0.123 0.902434
## f.22000.0.074   3.553e-02  4.120e-02   0.862 0.388473
## f.22000.0.075   6.305e-02  4.077e-02   1.546 0.122027
## f.22000.0.076   3.736e-02  4.120e-02   0.907 0.364468
## f.22000.0.077   6.911e-03  4.102e-02   0.168 0.866192
## f.22000.0.078  -5.080e-02  4.084e-02  -1.244 0.213563
## f.22000.0.079  -1.632e-02  4.069e-02  -0.401 0.688366
## f.22000.0.08   -9.411e-03  4.013e-02  -0.235 0.814572
## f.22000.0.0-8   2.161e-02  4.085e-02   0.529 0.596871
## f.22000.0.080   3.708e-02  4.116e-02   0.901 0.367658
## f.22000.0.081   1.712e-03  4.166e-02   0.041 0.967218
## f.22000.0.082  -4.118e-02  4.112e-02  -1.002 0.316535
## f.22000.0.083  -6.265e-04  4.117e-02  -0.015 0.987860
## f.22000.0.084   2.351e-02  4.117e-02   0.571 0.568052
## f.22000.0.085   3.864e-02  4.105e-02   0.941 0.346470
## f.22000.0.086  -2.206e-02  4.113e-02  -0.536 0.591675
## f.22000.0.087   4.008e-02  4.108e-02   0.976 0.329255
## f.22000.0.088   5.051e-03  4.191e-02   0.121 0.904073
## f.22000.0.089   2.907e-03  4.153e-02   0.070 0.944190
## f.22000.0.09   -9.417e-03  3.988e-02  -0.236 0.813314
## f.22000.0.0-9   6.719e-02  4.086e-02   1.644 0.100117
## f.22000.0.090  -3.582e-03  4.118e-02  -0.087 0.930684
## f.22000.0.091  -4.054e-02  4.251e-02  -0.954 0.340242
## f.22000.0.092   2.368e-02  4.119e-02   0.575 0.565451
## f.22000.0.093   1.220e-02  4.115e-02   0.296 0.766853
## f.22000.0.094   2.982e-03  5.259e-02   0.057 0.954786
## f.22000.0.095  -1.754e-02  4.390e-02  -0.400 0.689509
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9833 on 117941 degrees of freedom
##   (1798 observations deleted due to missingness)
## Multiple R-squared:  0.03418,    Adjusted R-squared:  0.03314
## F-statistic: 32.86 on 127 and 117941 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 ~  `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20489.0.0 ~ `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.0763 -0.7869 -0.6911  0.3230  3.6124
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.526e+00  7.476e-01  -2.042  0.04116 *
## `0.250000`      3.010e-02  2.891e-03  10.411  < 2e-16 ***
## f.22009.0.1     2.445e-03  3.016e-03   0.811  0.41753
## f.22009.0.2    -5.315e-03  2.943e-03  -1.806  0.07092 .
## f.22009.0.3     1.506e-03  2.977e-03   0.506  0.61302
## f.22009.0.5     1.719e-02  3.158e-03   5.443 5.26e-08 ***
```

```
## f.22009.0.6    -2.403e-04  2.988e-03  -0.080  0.93590
## f.22009.0.7    -4.206e-03  3.034e-03  -1.386  0.16570
## f.22009.0.8     8.582e-03  3.227e-03   2.660  0.00782 **
## f.22009.0.9     1.337e-02  3.064e-03   4.363 1.28e-05 ***
## f.22009.0.10   -3.711e-03  3.515e-03  -1.056  0.29116
## f.22009.0.11    1.074e-02  4.092e-03   2.624  0.00868 **
## f.22009.0.12   -3.460e-03  3.606e-03  -0.960  0.33729
## f.22009.0.13   -2.211e-03  2.935e-03  -0.753  0.45129
## f.22009.0.14   -3.043e-02  3.102e-03  -9.810  < 2e-16 ***
## f.22009.0.15   -7.320e-04  3.178e-03  -0.230  0.81782
## f.22009.0.16   -1.253e-02  3.117e-03  -4.019 5.85e-05 ***
## f.22009.0.17   -1.746e-03  2.895e-03  -0.603  0.54653
## f.22009.0.18    4.331e-03  2.902e-03   1.492  0.13558
## f.22009.0.19    1.037e-03  2.890e-03   0.359  0.71970
## f.22009.0.20   -1.334e-03  2.896e-03  -0.461  0.64491
## f.22001.0.01    1.307e-02  5.838e-03   2.239  0.02515 *
## f.34.0.0        7.864e-04  3.826e-04   2.056  0.03982 *
## f.22000.0.0-1   3.799e-02  4.084e-02   0.930  0.35230
## f.22000.0.010  -5.883e-02  4.128e-02  -1.425  0.15410
## f.22000.0.0-10  4.566e-03  4.151e-02   0.110  0.91240
## f.22000.0.011  -5.517e-03  4.060e-02  -0.136  0.89190
## f.22000.0.0-11  3.064e-02  4.114e-02   0.745  0.45640
## f.22000.0.012  -1.858e-02  4.088e-02  -0.454  0.64948
## f.22000.0.013  -2.838e-02  4.075e-02  -0.696  0.48614
## f.22000.0.014  -1.995e-02  4.048e-02  -0.493  0.62205
## f.22000.0.015   5.653e-03  4.074e-02   0.139  0.88963
## f.22000.0.016   1.827e-02  4.096e-02   0.446  0.65553
## f.22000.0.017  -9.328e-05  4.055e-02  -0.002  0.99816
## f.22000.0.018  -2.831e-02  4.100e-02  -0.691  0.48986
## f.22000.0.019  -1.640e-02  4.022e-02  -0.408  0.68353
## f.22000.0.02   -3.277e-02  4.036e-02  -0.812  0.41679
## f.22000.0.0-2   3.154e-02  4.107e-02   0.768  0.44255
## f.22000.0.020   1.651e-02  4.086e-02   0.404  0.68625
## f.22000.0.021  -2.484e-02  4.079e-02  -0.609  0.54258
## f.22000.0.022   1.069e-02  4.074e-02   0.262  0.79297
## f.22000.0.023   8.318e-04  4.073e-02   0.020  0.98371
## f.22000.0.024  -3.453e-02  4.019e-02  -0.859  0.39021
## f.22000.0.025  -3.978e-02  4.124e-02  -0.965  0.33467
## f.22000.0.026  -2.501e-02  4.098e-02  -0.610  0.54170
## f.22000.0.027  -4.385e-02  4.031e-02  -1.088  0.27673
## f.22000.0.028  -8.394e-03  4.071e-02  -0.206  0.83665
## f.22000.0.029  -2.040e-02  4.046e-02  -0.504  0.61410
## f.22000.0.03   -3.041e-02  4.037e-02  -0.753  0.45131
## f.22000.0.0-3  -7.536e-03  4.068e-02  -0.185  0.85301
## f.22000.0.030  -2.045e-02  4.046e-02  -0.506  0.61320
## f.22000.0.031   2.027e-02  4.059e-02   0.499  0.61744
## f.22000.0.032   2.037e-02  4.078e-02   0.500  0.61741
## f.22000.0.033   2.307e-02  4.150e-02   0.556  0.57827
## f.22000.0.034   1.583e-02  4.054e-02   0.390  0.69621
## f.22000.0.035   3.159e-03  4.063e-02   0.078  0.93802
## f.22000.0.036   5.056e-03  4.033e-02   0.125  0.90024
## f.22000.0.037   5.908e-03  4.094e-02   0.144  0.88525
## f.22000.0.038   2.798e-02  4.081e-02   0.686  0.49302
## f.22000.0.039  -2.161e-02  4.126e-02  -0.524  0.60045
## f.22000.0.04   -2.505e-02  4.111e-02  -0.609  0.54227
## f.22000.0.0-4   1.018e-01  4.132e-02   2.464  0.01373 *
## f.22000.0.040  -3.195e-03  4.074e-02  -0.078  0.93749
## f.22000.0.041  -2.156e-02  4.134e-02  -0.521  0.60208
## f.22000.0.042  -5.162e-02  4.067e-02  -1.269  0.20434
## f.22000.0.043  -1.685e-02  4.140e-02  -0.407  0.68399
## f.22000.0.044  -5.981e-02  4.094e-02  -1.461  0.14400
## f.22000.0.045   3.962e-03  4.096e-02   0.097  0.92296
## f.22000.0.046  -6.757e-02  4.119e-02  -1.640  0.10094
## f.22000.0.047  -2.506e-02  4.122e-02  -0.608  0.54315
## f.22000.0.048   2.128e-02  4.114e-02   0.517  0.60494
## f.22000.0.049  -5.725e-02  4.115e-02  -1.391  0.16420
## f.22000.0.05   -4.112e-02  4.045e-02  -1.017  0.30933
## f.22000.0.0-5   4.531e-02  4.087e-02   1.109  0.26763
## f.22000.0.050   1.059e-02  4.124e-02   0.257  0.79726
## f.22000.0.051   1.234e-02  4.060e-02   0.304  0.76124
## f.22000.0.052  -5.570e-02  4.133e-02  -1.348  0.17774
## f.22000.0.053  -5.863e-02  4.104e-02  -1.429  0.15308
## f.22000.0.054  -1.514e-02  4.114e-02  -0.368  0.71290
```

```
## f.22000.0.054  -1.514e-02  4.114e-02  -0.368  0.71290
## f.22000.0.055  -1.515e-02  4.148e-02  -0.365  0.71495
## f.22000.0.056  -6.146e-02  4.112e-02  -1.494  0.13505
## f.22000.0.057  -8.308e-02  4.134e-02  -2.010  0.04445 *
## f.22000.0.058  -4.104e-02  4.113e-02  -0.998  0.31843
## f.22000.0.059  -1.206e-02  4.097e-02  -0.294  0.76853
## f.22000.0.06   -2.678e-02  4.030e-02  -0.664  0.50641
## f.22000.0.0-6   3.210e-02  4.120e-02   0.779  0.43587
## f.22000.0.060  -4.987e-02  4.138e-02  -1.205  0.22815
## f.22000.0.061   1.982e-02  4.161e-02   0.476  0.63387
## f.22000.0.062  -7.896e-03  4.148e-02  -0.190  0.84904
## f.22000.0.063  -2.865e-02  4.148e-02  -0.691  0.48975
## f.22000.0.064   9.295e-03  4.112e-02   0.226  0.82117
## f.22000.0.065  -4.394e-02  4.137e-02  -1.062  0.28817
## f.22000.0.066  -1.409e-02  4.178e-02  -0.337  0.73591
## f.22000.0.067  -2.117e-02  4.134e-02  -0.512  0.60867
## f.22000.0.068  -1.396e-02  4.132e-02  -0.338  0.73542
## f.22000.0.069  -3.404e-02  4.138e-02  -0.823  0.41073
## f.22000.0.07   -2.743e-02  4.062e-02  -0.675  0.49943
## f.22000.0.0-7  -2.743e-02  4.098e-02  -0.669  0.50334
## f.22000.0.070   2.917e-02  4.138e-02   0.705  0.48084
## f.22000.0.071  -5.819e-02  4.117e-02  -1.413  0.15756
## f.22000.0.072  -1.957e-02  4.142e-02  -0.472  0.63661
## f.22000.0.073  -1.581e-02  4.146e-02  -0.381  0.70285
## f.22000.0.074  -4.472e-02  4.159e-02  -1.075  0.28232
## f.22000.0.075   4.348e-02  4.122e-02   1.055  0.29152
## f.22000.0.076  -4.132e-02  4.164e-02  -0.992  0.32096
## f.22000.0.077  -8.334e-02  4.140e-02  -2.013  0.04414 *
## f.22000.0.078  -5.856e-02  4.116e-02  -1.423  0.15480
## f.22000.0.079  -5.543e-02  4.108e-02  -1.350  0.17716
## f.22000.0.08   -2.363e-02  4.058e-02  -0.582  0.56033
## f.22000.0.0-8  -7.718e-03  4.113e-02  -0.188  0.85116
## f.22000.0.080  -3.489e-02  4.155e-02  -0.840  0.40104
## f.22000.0.081  -1.400e-02  4.200e-02  -0.333  0.73891
## f.22000.0.082  -4.445e-02  4.150e-02  -1.071  0.28419
## f.22000.0.083  -3.798e-02  4.161e-02  -0.913  0.36134
## f.22000.0.084   2.426e-02  4.162e-02   0.583  0.55996
## f.22000.0.085   2.398e-02  4.145e-02   0.578  0.56301
## f.22000.0.086  -9.092e-04  4.157e-02  -0.022  0.98255
## f.22000.0.087  -9.189e-02  4.156e-02  -2.211  0.02705 *
## f.22000.0.088  -2.611e-02  4.227e-02  -0.618  0.53680
## f.22000.0.089  -6.926e-03  4.200e-02  -0.165  0.86901
## f.22000.0.09   -1.911e-02  4.036e-02  -0.473  0.63589
## f.22000.0.0-9  -6.638e-03  4.115e-02  -0.161  0.87185
## f.22000.0.090   3.760e-02  4.154e-02   0.905  0.36536
## f.22000.0.091  -1.665e-02  4.294e-02  -0.388  0.69823
## f.22000.0.092   1.077e-02  4.169e-02   0.258  0.79613
## f.22000.0.093  -1.189e-02  4.163e-02  -0.286  0.77525
## f.22000.0.094   4.272e-02  5.322e-02   0.803  0.42217
## f.22000.0.095  -2.498e-02  4.437e-02  -0.563  0.57342
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9987 on 119407 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.003695,   Adjusted R-squared:  0.002636
## F-statistic: 3.487 on 127 and 119407 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.22009.0.5 + 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.22009.0.5 + 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
## -1.0626 -0.7867 -0.7056  0.3138  3.5925
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.531e+00  7.479e-01  -2.047  0.04070 *
## f.22009.0.1     2.709e-03  3.017e-03   0.898  0.36932
## f.22009.0.2    -5.428e-03  2.944e-03  -1.844  0.06524 .
## f.22009.0.3     1.392e-03  2.978e-03   0.468  0.64013
## f.22009.0.5     1.802e-02  3.158e-03   5.705 1.16e-08 ***
## f.22009.0.6    -8.758e-05  2.989e-03  -0.029  0.97663
## f.22009.0.7    -4.456e-03  3.036e-03  -1.468  0.14208
## f.22009.0.8     8.507e-03  3.228e-03   2.635  0.00841 **
## f.22009.0.9     1.328e-02  3.066e-03   4.331 1.49e-05 ***
## f.22009.0.10   -3.779e-03  3.517e-03  -1.074  0.28262
## f.22009.0.11    1.120e-02  4.094e-03   2.736  0.00623 **
## f.22009.0.12   -3.368e-03  3.608e-03  -0.933  0.35058
## f.22009.0.13   -2.234e-03  2.936e-03  -0.761  0.44685
## f.22009.0.14   -3.071e-02  3.103e-03  -9.897  < 2e-16 ***
## f.22009.0.15   -6.752e-04  3.179e-03  -0.212  0.83180
## f.22009.0.16   -1.254e-02  3.118e-03  -4.022 5.77e-05 ***
## f.22009.0.17   -1.873e-03  2.896e-03  -0.647  0.51788
## f.22009.0.18    4.238e-03  2.903e-03   1.460  0.14433
## f.22009.0.19    1.120e-03  2.892e-03   0.387  0.69862
## f.22009.0.20   -1.113e-03  2.897e-03  -0.384  0.70087
## f.22001.0.01    1.249e-02  5.840e-03   2.139  0.03243 *
## f.34.0.0        7.887e-04  3.827e-04   2.061  0.03933 *
## f.22000.0.0-1   3.748e-02  4.086e-02   0.917  0.35893
## f.22000.0.010  -5.926e-02  4.130e-02  -1.435  0.15131
## f.22000.0.0-10  3.113e-03  4.152e-02   0.075  0.94023
## f.22000.0.011  -5.326e-03  4.061e-02  -0.131  0.89566
## f.22000.0.0-11  3.104e-02  4.116e-02   0.754  0.45078
## f.22000.0.012  -1.885e-02  4.090e-02  -0.461  0.64489
## f.22000.0.013  -2.942e-02  4.076e-02  -0.722  0.47047
## f.22000.0.014  -2.010e-02  4.050e-02  -0.496  0.61965
## f.22000.0.015   5.469e-03  4.076e-02   0.134  0.89326
## f.22000.0.016   1.831e-02  4.098e-02   0.447  0.65503
## f.22000.0.017   5.271e-04  4.057e-02   0.013  0.98963
## f.22000.0.018  -2.802e-02  4.101e-02  -0.683  0.49442
## f.22000.0.019  -1.763e-02  4.024e-02  -0.438  0.66121
## f.22000.0.02   -3.255e-02  4.038e-02  -0.806  0.42011
## f.22000.0.0-2   3.225e-02  4.109e-02   0.785  0.43258
## f.22000.0.020   1.623e-02  4.088e-02   0.397  0.69141
## f.22000.0.021  -2.503e-02  4.081e-02  -0.613  0.53964
## f.22000.0.022   1.028e-02  4.076e-02   0.252  0.80080
## f.22000.0.023   4.529e-04  4.075e-02   0.011  0.99113
## f.22000.0.024  -3.494e-02  4.021e-02  -0.869  0.38488
## f.22000.0.025  -3.889e-02  4.126e-02  -0.943  0.34589
## f.22000.0.026  -2.721e-02  4.100e-02  -0.664  0.50699
## f.22000.0.027  -4.375e-02  4.033e-02  -1.085  0.27802
## f.22000.0.028  -8.719e-03  4.073e-02  -0.214  0.83048
## f.22000.0.029  -2.002e-02  4.048e-02  -0.495  0.62093
## f.22000.0.03   -3.047e-02  4.038e-02  -0.755  0.45053
## f.22000.0.0-3  -6.822e-03  4.069e-02  -0.168  0.86687
## f.22000.0.030  -2.010e-02  4.048e-02  -0.497  0.61952
## f.22000.0.031   2.149e-02  4.061e-02   0.529  0.59672
## f.22000.0.032   2.050e-02  4.080e-02   0.502  0.61543
## f.22000.0.033   2.297e-02  4.152e-02   0.553  0.58016
## f.22000.0.034   1.649e-02  4.056e-02   0.407  0.68425
## f.22000.0.035   3.243e-03  4.065e-02   0.080  0.93642
## f.22000.0.036   5.692e-03  4.035e-02   0.141  0.88782
## f.22000.0.037   5.576e-03  4.096e-02   0.136  0.89171
## f.22000.0.038   2.669e-02  4.083e-02   0.654  0.51328
## f.22000.0.039  -2.048e-02  4.127e-02  -0.496  0.61978
## f.22000.0.04   -2.520e-02  4.113e-02  -0.613  0.54006
## f.22000.0.0-4   1.018e-01  4.134e-02   2.463  0.01380 *
## f.22000.0.040  -4.152e-03  4.076e-02  -0.102  0.91885
## f.22000.0.041  -2.286e-02  4.136e-02  -0.553  0.58054
## f.22000.0.042  -5.122e-02  4.068e-02  -1.259  0.20805
## f.22000.0.043  -1.721e-02  4.141e-02  -0.416  0.67768
```

```
## f.22000.0.043  -1.721e-02  4.141e-02  -0.416  0.67768
## f.22000.0.044  -6.055e-02  4.095e-02  -1.479  0.13927
## f.22000.0.045   5.417e-03  4.098e-02   0.132  0.89485
## f.22000.0.046  -6.527e-02  4.121e-02  -1.584  0.11324
## f.22000.0.047  -2.617e-02  4.124e-02  -0.635  0.52562
## f.22000.0.048   1.950e-02  4.115e-02   0.474  0.63557
## f.22000.0.049  -5.790e-02  4.117e-02  -1.406  0.15963
## f.22000.0.05   -4.234e-02  4.047e-02  -1.046  0.29547
## f.22000.0.0-5   4.353e-02  4.089e-02   1.065  0.28708
## f.22000.0.050   9.328e-03  4.126e-02   0.226  0.82111
## f.22000.0.051   1.196e-02  4.062e-02   0.294  0.76847
## f.22000.0.052  -5.636e-02  4.134e-02  -1.363  0.17282
## f.22000.0.053  -5.940e-02  4.106e-02  -1.447  0.14794
## f.22000.0.054  -1.486e-02  4.116e-02  -0.361  0.71801
## f.22000.0.055  -1.348e-02  4.150e-02  -0.325  0.74531
## f.22000.0.056  -6.257e-02  4.114e-02  -1.521  0.12831
## f.22000.0.057  -8.284e-02  4.136e-02  -2.003  0.04518 *
## f.22000.0.058  -4.159e-02  4.115e-02  -1.011  0.31223
## f.22000.0.059  -1.135e-02  4.099e-02  -0.277  0.78193
## f.22000.0.06   -2.638e-02  4.032e-02  -0.654  0.51298
## f.22000.0.0-6   3.205e-02  4.122e-02   0.778  0.43676
## f.22000.0.060  -5.054e-02  4.140e-02  -1.221  0.22217
## f.22000.0.061   2.008e-02  4.163e-02   0.482  0.62961
## f.22000.0.062  -6.375e-03  4.150e-02  -0.154  0.87792
## f.22000.0.063  -2.896e-02  4.150e-02  -0.698  0.48534
## f.22000.0.064   9.025e-03  4.114e-02   0.219  0.82636
## f.22000.0.065  -4.389e-02  4.138e-02  -1.060  0.28892
## f.22000.0.066  -1.516e-02  4.180e-02  -0.363  0.71680
## f.22000.0.067  -2.186e-02  4.136e-02  -0.528  0.59720
## f.22000.0.068  -1.456e-02  4.134e-02  -0.352  0.72466
## f.22000.0.069  -3.549e-02  4.140e-02  -0.857  0.39132
## f.22000.0.07   -2.795e-02  4.063e-02  -0.688  0.49153
## f.22000.0.0-7  -2.845e-02  4.100e-02  -0.694  0.48780
## f.22000.0.070   3.069e-02  4.139e-02   0.741  0.45852
## f.22000.0.071  -5.679e-02  4.119e-02  -1.379  0.16795
## f.22000.0.072  -1.848e-02  4.144e-02  -0.446  0.65572
## f.22000.0.073  -1.683e-02  4.147e-02  -0.406  0.68497
## f.22000.0.074  -4.486e-02  4.161e-02  -1.078  0.28101
## f.22000.0.075   4.390e-02  4.124e-02   1.065  0.28706
## f.22000.0.076  -3.982e-02  4.166e-02  -0.956  0.33907
## f.22000.0.077  -8.424e-02  4.142e-02  -2.034  0.04198 *
## f.22000.0.078  -5.961e-02  4.118e-02  -1.448  0.14773
## f.22000.0.079  -5.385e-02  4.109e-02  -1.310  0.19006
## f.22000.0.08   -2.206e-02  4.060e-02  -0.543  0.58690
## f.22000.0.0-8  -8.220e-03  4.115e-02  -0.200  0.84168
## f.22000.0.080  -3.485e-02  4.156e-02  -0.839  0.40174
## f.22000.0.081  -1.409e-02  4.201e-02  -0.335  0.73732
## f.22000.0.082  -4.410e-02  4.152e-02  -1.062  0.28817
## f.22000.0.083  -3.840e-02  4.163e-02  -0.922  0.35628
## f.22000.0.084   2.597e-02  4.164e-02   0.624  0.53275
## f.22000.0.085   2.556e-02  4.147e-02   0.616  0.53767
## f.22000.0.086  -1.490e-03  4.159e-02  -0.036  0.97142
## f.22000.0.087  -9.136e-02  4.158e-02  -2.197  0.02802 *
## f.22000.0.088  -2.612e-02  4.229e-02  -0.618  0.53678
## f.22000.0.089  -5.423e-03  4.202e-02  -0.129  0.89730
## f.22000.0.09   -1.938e-02  4.038e-02  -0.480  0.63123
## f.22000.0.0-9  -7.443e-03  4.117e-02  -0.181  0.85653
## f.22000.0.090   3.748e-02  4.155e-02   0.902  0.36704
## f.22000.0.091  -1.817e-02  4.296e-02  -0.423  0.67226
## f.22000.0.092   1.143e-02  4.171e-02   0.274  0.78405
## f.22000.0.093  -1.131e-02  4.165e-02  -0.272  0.78594
## f.22000.0.094   4.149e-02  5.325e-02   0.779  0.43591
## f.22000.0.095  -2.429e-02  4.439e-02  -0.547  0.58429
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9991 on 119408 degrees of freedom
##   (332 observations deleted due to missingness)
## Multiple R-squared:  0.002791,   Adjusted R-squared:  0.001738
## F-statistic: 2.652 on 126 and 119408 DF,  p-value: < 2.2e-16
```

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

# Full model
summary(lm( f.20488.0.0 ~  `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20488.0.0 ~ `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.9514 -0.4583 -0.3695 -0.2658  6.0433
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.964e+01  7.434e-01 -26.417  < 2e-16 ***
## `0.250000`      2.427e-02  2.876e-03   8.440  < 2e-16 ***
## f.22009.0.1     2.261e-03  2.999e-03   0.754  0.45102
## f.22009.0.2    -3.673e-03  2.926e-03  -1.255  0.20941
## f.22009.0.3     3.329e-03  2.960e-03   1.125  0.26076
## f.22009.0.5     4.485e-02  3.141e-03  14.279  < 2e-16 ***
## f.22009.0.6    -1.685e-03  2.972e-03  -0.567  0.57071
## f.22009.0.7    -7.246e-03  3.017e-03  -2.402  0.01633 *
## f.22009.0.8     7.260e-03  3.209e-03   2.263  0.02365 *
## f.22009.0.9     9.423e-03  3.048e-03   3.092  0.00199 **
## f.22009.0.10   -3.671e-03  3.496e-03  -1.050  0.29361
## f.22009.0.11    2.033e-02  4.070e-03   4.996 5.87e-07 ***
## f.22009.0.12   -3.922e-03  3.586e-03  -1.093  0.27418
## f.22009.0.13   -1.886e-03  2.919e-03  -0.646  0.51817
## f.22009.0.14   -2.913e-02  3.084e-03  -9.446  < 2e-16 ***
## f.22009.0.15    4.304e-03  3.160e-03   1.362  0.17318
## f.22009.0.16   -1.279e-02  3.099e-03  -4.126 3.70e-05 ***
## f.22009.0.17   -4.194e-03  2.879e-03  -1.457  0.14523
## f.22009.0.18    9.153e-03  2.886e-03   3.172  0.00151 **
## f.22009.0.19   -1.179e-04  2.874e-03  -0.041  0.96728
## f.22009.0.20    4.659e-03  2.879e-03   1.618  0.10568
## f.22001.0.01    7.680e-02  5.805e-03  13.229  < 2e-16 ***
## f.34.0.0        1.005e-02  3.804e-04  26.408  < 2e-16 ***
## f.22000.0.0-1   6.476e-02  4.057e-02   1.596  0.11040
## f.22000.0.010  -5.833e-02  4.105e-02  -1.421  0.15531
## f.22000.0.0-10  4.608e-02  4.127e-02   1.117  0.26418
## f.22000.0.011  -2.275e-02  4.037e-02  -0.563  0.57311
## f.22000.0.0-11  8.369e-02  4.090e-02   2.046  0.04072 *
## f.22000.0.012  -5.653e-02  4.065e-02  -1.391  0.16432
## f.22000.0.013  -4.695e-02  4.049e-02  -1.159  0.24631
## f.22000.0.014   1.316e-02  4.022e-02   0.327  0.74352
## f.22000.0.015   1.311e-03  4.052e-02   0.032  0.97419
## f.22000.0.016  -2.310e-02  4.071e-02  -0.568  0.57034
## f.22000.0.017   2.780e-02  4.034e-02   0.689  0.49079
## f.22000.0.018   3.619e-02  4.072e-02   0.889  0.37420
## f.22000.0.019  -1.746e-02  3.997e-02  -0.437  0.66220
## f.22000.0.02    1.880e-02  4.014e-02   0.468  0.63945
## f.22000.0.0-2   2.012e-02  4.085e-02   0.493  0.62231
## f.22000.0.020  -2.929e-02  4.065e-02  -0.721  0.47122
## f.22000.0.021  -2.205e-02  4.056e-02  -0.544  0.58672
## f.22000.0.022   5.422e-02  4.051e-02   1.338  0.18081
## f.22000.0.023   3.292e-02  4.051e-02   0.813  0.41649
## f.22000.0.024  -5.196e-03  3.995e-02  -0.130  0.89652
## f.22000.0.025  -5.295e-02  4.099e-02  -1.292  0.19644
## f.22000.0.026  -2.608e-02  4.074e-02  -0.640  0.52201
## f.22000.0.027  -5.236e-02  4.007e-02  -1.307  0.19133
## f.22000.0.028   3.825e-03  4.048e-02   0.095  0.92471
## f.22000.0.029   2.076e-02  4.024e-02   0.516  0.60585
```

```
## f.22000.0.029   2.076e-02  4.024e-02   0.516  0.60585
## f.22000.0.03    3.242e-02  4.016e-02   0.807  0.41955
## f.22000.0.0-3   4.734e-03  4.045e-02   0.117  0.90684
## f.22000.0.030  -6.121e-02  4.022e-02  -1.522  0.12805
## f.22000.0.031   1.200e-02  4.038e-02   0.297  0.76626
## f.22000.0.032  -2.374e-03  4.057e-02  -0.059  0.95333
## f.22000.0.033   1.801e-02  4.129e-02   0.436  0.66262
## f.22000.0.034   4.741e-03  4.032e-02   0.118  0.90640
## f.22000.0.035  -3.342e-02  4.039e-02  -0.827  0.40802
## f.22000.0.036   2.205e-03  4.012e-02   0.055  0.95617
## f.22000.0.037  -2.639e-02  4.072e-02  -0.648  0.51688
## f.22000.0.038  -1.289e-02  4.056e-02  -0.318  0.75064
## f.22000.0.039  -2.485e-02  4.102e-02  -0.606  0.54462
## f.22000.0.04   -2.790e-02  4.088e-02  -0.682  0.49495
## f.22000.0.0-4   2.618e-02  4.111e-02   0.637  0.52429
## f.22000.0.040   3.731e-02  4.051e-02   0.921  0.35707
## f.22000.0.041  -2.674e-02  4.112e-02  -0.650  0.51544
## f.22000.0.042  -1.853e-02  4.042e-02  -0.458  0.64661
## f.22000.0.043  -2.412e-02  4.115e-02  -0.586  0.55775
## f.22000.0.044  -5.707e-02  4.070e-02  -1.402  0.16086
## f.22000.0.045  -1.420e-02  4.074e-02  -0.349  0.72733
## f.22000.0.046  -1.433e-02  4.096e-02  -0.350  0.72644
## f.22000.0.047  -4.828e-02  4.096e-02  -1.179  0.23857
## f.22000.0.048   2.074e-02  4.088e-02   0.507  0.61197
## f.22000.0.049   1.631e-02  4.093e-02   0.398  0.69027
## f.22000.0.05   -5.489e-02  4.022e-02  -1.365  0.17234
## f.22000.0.0-5   8.900e-02  4.066e-02   2.189  0.02859 *
## f.22000.0.050   5.332e-02  4.099e-02   1.301  0.19332
## f.22000.0.051  -1.228e-02  4.037e-02  -0.304  0.76101
## f.22000.0.052  -2.256e-02  4.110e-02  -0.549  0.58306
## f.22000.0.053  -2.211e-02  4.081e-02  -0.542  0.58797
## f.22000.0.054  -6.568e-02  4.091e-02  -1.606  0.10836
## f.22000.0.055   2.138e-02  4.125e-02   0.518  0.60422
## f.22000.0.056  -1.995e-02  4.089e-02  -0.488  0.62558
## f.22000.0.057   3.175e-02  4.108e-02   0.773  0.43961
## f.22000.0.058  -3.363e-02  4.090e-02  -0.822  0.41084
## f.22000.0.059  -1.746e-02  4.075e-02  -0.428  0.66838
## f.22000.0.06    2.368e-02  4.008e-02   0.591  0.55466
## f.22000.0.0-6   4.231e-02  4.098e-02   1.032  0.30189
## f.22000.0.060  -2.737e-02  4.114e-02  -0.665  0.50586
## f.22000.0.061   1.284e-02  4.138e-02   0.310  0.75629
## f.22000.0.062  -4.560e-02  4.124e-02  -1.106  0.26889
## f.22000.0.063  -2.019e-02  4.123e-02  -0.490  0.62439
## f.22000.0.064  -2.994e-02  4.088e-02  -0.732  0.46398
## f.22000.0.065  -6.108e-03  4.114e-02  -0.148  0.88196
## f.22000.0.066  -3.446e-02  4.155e-02  -0.829  0.40696
## f.22000.0.067   1.394e-02  4.111e-02   0.339  0.73451
## f.22000.0.068   4.543e-02  4.104e-02   1.107  0.26824
## f.22000.0.069  -3.985e-02  4.115e-02  -0.968  0.33290
## f.22000.0.07    1.520e-02  4.038e-02   0.376  0.70659
## f.22000.0.0-7   4.029e-02  4.076e-02   0.988  0.32295
## f.22000.0.070  -5.924e-03  4.117e-02  -0.144  0.88558
## f.22000.0.071  -2.509e-02  4.095e-02  -0.613  0.54012
## f.22000.0.072   2.520e-02  4.122e-02   0.612  0.54085
## f.22000.0.073  -1.818e-02  4.119e-02  -0.441  0.65895
## f.22000.0.074  -1.143e-02  4.137e-02  -0.276  0.78227
## f.22000.0.075   2.717e-03  4.096e-02   0.066  0.94711
## f.22000.0.076  -2.880e-02  4.142e-02  -0.695  0.48688
## f.22000.0.077  -3.596e-02  4.118e-02  -0.873  0.38255
## f.22000.0.078  -5.037e-02  4.091e-02  -1.231  0.21815
## f.22000.0.079  -3.536e-03  4.086e-02  -0.087  0.93104
## f.22000.0.08   -1.115e-02  4.036e-02  -0.276  0.78238
## f.22000.0.0-8   7.956e-02  4.092e-02   1.944  0.05190 .
## f.22000.0.080  -8.150e-03  4.129e-02  -0.197  0.84351
## f.22000.0.081  -2.243e-02  4.177e-02  -0.537  0.59136
## f.22000.0.082  -1.143e-02  4.125e-02  -0.277  0.78181
## f.22000.0.083  -1.541e-02  4.138e-02  -0.373  0.70950
## f.22000.0.084  -2.997e-02  4.137e-02  -0.725  0.46870
## f.22000.0.085   3.305e-02  4.122e-02   0.802  0.42268
## f.22000.0.086   2.863e-02  4.132e-02   0.693  0.48850
## f.22000.0.087  -6.427e-02  4.131e-02  -1.556  0.11983
## f.22000.0.088  -4.726e-02  4.204e-02  -1.124  0.26090
## f.22000.0.089   9.381e-04  4.173e-02   0.022  0.98207
```

```
## f.22000.0.09   -2.897e-02  4.011e-02  -0.722  0.47021
## f.22000.0.0-9   6.178e-02  4.093e-02   1.509  0.13123
## f.22000.0.090   1.230e-02  4.132e-02   0.298  0.76587
## f.22000.0.091   1.009e-02  4.268e-02   0.236  0.81318
## f.22000.0.092  -2.852e-02  4.143e-02  -0.689  0.49112
## f.22000.0.093   1.069e-02  4.134e-02   0.259  0.79597
## f.22000.0.094   4.583e-03  5.285e-02   0.087  0.93090
## f.22000.0.095  -2.404e-02  4.408e-02  -0.545  0.58546
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9944 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01223,    Adjusted R-squared:  0.01118
## F-statistic: 11.67 on 127 and 119714 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.22009.0.5 + 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.22009.0.5 + 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
## -0.9084 -0.4571 -0.3697 -0.2696  6.0414
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.964e+01  7.436e-01 -26.414  < 2e-16 ***
## f.22009.0.1     2.476e-03  3.000e-03   0.825  0.40920
## f.22009.0.2    -3.764e-03  2.927e-03  -1.286  0.19848
## f.22009.0.3     3.233e-03  2.961e-03   1.092  0.27493
## f.22009.0.5     4.551e-02  3.141e-03  14.491  < 2e-16 ***
## f.22009.0.6    -1.565e-03  2.972e-03  -0.526  0.59858
## f.22009.0.7    -7.447e-03  3.018e-03  -2.468  0.01360 *
## f.22009.0.8     7.204e-03  3.210e-03   2.245  0.02479 *
## f.22009.0.9     9.345e-03  3.049e-03   3.065  0.00217 **
## f.22009.0.10   -3.725e-03  3.497e-03  -1.065  0.28673
## f.22009.0.11    2.071e-02  4.071e-03   5.088 3.62e-07 ***
## f.22009.0.12   -3.848e-03  3.588e-03  -1.073  0.28347
## f.22009.0.13   -1.908e-03  2.919e-03  -0.653  0.51349
## f.22009.0.14   -2.936e-02  3.085e-03  -9.517  < 2e-16 ***
## f.22009.0.15    4.346e-03  3.161e-03   1.375  0.16918
## f.22009.0.16   -1.280e-02  3.100e-03  -4.128 3.66e-05 ***
## f.22009.0.17   -4.296e-03  2.880e-03  -1.492  0.13576
## f.22009.0.18    9.077e-03  2.886e-03   3.145  0.00166 **
## f.22009.0.19   -4.714e-05  2.875e-03  -0.016  0.98692
## f.22009.0.20    4.839e-03  2.880e-03   1.680  0.09291 .
## f.22001.0.01    7.632e-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   6.438e-02  4.058e-02   1.586  0.11264
## f.22000.0.010  -5.875e-02  4.106e-02  -1.431  0.15249
## f.22000.0.0-10  4.485e-02  4.128e-02   1.087  0.27720
## f.22000.0.011  -2.264e-02  4.038e-02  -0.561  0.57498
## f.22000.0.0-11  8.403e-02  4.091e-02   2.054  0.03997 *
## f.22000.0.012  -5.677e-02  4.066e-02  -1.396  0.16266
## f.22000.0.013  -4.785e-02  4.051e-02  -1.181  0.23751
## f.22000.0.014   1.304e-02  4.023e-02   0.324  0.74587
## f.22000.0.015   1.169e-03  4.053e-02   0.029  0.97700
## f.22000.0.016  -2.311e-02  4.072e-02  -0.568  0.57036
## f.22000.0.017   2.828e-02  4.035e-02   0.701  0.48340
## f.22000.0.018   3.644e-02  4.074e-02   0.895  0.37099
```

```
## f.22000.0.018   3.644e-02  4.074e-02   0.895  0.37099
## f.22000.0.019  -1.854e-02  3.998e-02  -0.464  0.64282
## f.22000.0.02    1.891e-02  4.015e-02   0.471  0.63757
## f.22000.0.0-2   2.064e-02  4.086e-02   0.505  0.61352
## f.22000.0.020  -2.959e-02  4.066e-02  -0.728  0.46668
## f.22000.0.021  -2.231e-02  4.057e-02  -0.550  0.58239
## f.22000.0.022   5.383e-02  4.053e-02   1.328  0.18411
## f.22000.0.023   3.259e-02  4.052e-02   0.804  0.42125
## f.22000.0.024  -5.590e-03  3.996e-02  -0.140  0.88875
## f.22000.0.025  -5.220e-02  4.100e-02  -1.273  0.20296
## f.22000.0.026  -2.783e-02  4.075e-02  -0.683  0.49470
## f.22000.0.027  -5.227e-02  4.008e-02  -1.304  0.19219
## f.22000.0.028   3.534e-03  4.049e-02   0.087  0.93044
## f.22000.0.029   2.106e-02  4.025e-02   0.523  0.60081
## f.22000.0.03    3.233e-02  4.017e-02   0.805  0.42097
## f.22000.0.0-3   5.260e-03  4.046e-02   0.130  0.89657
## f.22000.0.030  -6.091e-02  4.023e-02  -1.514  0.13004
## f.22000.0.031   1.295e-02  4.040e-02   0.320  0.74860
## f.22000.0.032  -2.293e-03  4.058e-02  -0.057  0.95494
## f.22000.0.033   1.790e-02  4.130e-02   0.433  0.66475
## f.22000.0.034   5.222e-03  4.033e-02   0.129  0.89698
## f.22000.0.035  -3.341e-02  4.040e-02  -0.827  0.40826
## f.22000.0.036   2.697e-03  4.013e-02   0.067  0.94641
## f.22000.0.037  -2.671e-02  4.073e-02  -0.656  0.51204
## f.22000.0.038  -1.391e-02  4.057e-02  -0.343  0.73169
## f.22000.0.039  -2.396e-02  4.103e-02  -0.584  0.55921
## f.22000.0.04   -2.801e-02  4.089e-02  -0.685  0.49329
## f.22000.0.0-4   2.612e-02  4.112e-02   0.635  0.52527
## f.22000.0.040   3.653e-02  4.053e-02   0.901  0.36742
## f.22000.0.041  -2.781e-02  4.113e-02  -0.676  0.49893
## f.22000.0.042  -1.826e-02  4.043e-02  -0.452  0.65158
## f.22000.0.043  -2.448e-02  4.116e-02  -0.595  0.55199
## f.22000.0.044  -5.775e-02  4.071e-02  -1.419  0.15603
## f.22000.0.045  -1.303e-02  4.075e-02  -0.320  0.74922
## f.22000.0.046  -1.252e-02  4.097e-02  -0.306  0.75995
## f.22000.0.047  -4.924e-02  4.097e-02  -1.202  0.22945
## f.22000.0.048   1.927e-02  4.089e-02   0.471  0.63738
## f.22000.0.049   1.573e-02  4.095e-02   0.384  0.70090
## f.22000.0.05   -5.594e-02  4.023e-02  -1.390  0.16438
## f.22000.0.0-5   8.753e-02  4.067e-02   2.152  0.03137 *
## f.22000.0.050   5.220e-02  4.100e-02   1.273  0.20298
## f.22000.0.051  -1.262e-02  4.038e-02  -0.313  0.75462
## f.22000.0.052  -2.314e-02  4.111e-02  -0.563  0.57354
## f.22000.0.053  -2.279e-02  4.082e-02  -0.558  0.57666
## f.22000.0.054  -6.552e-02  4.092e-02  -1.601  0.10933
## f.22000.0.055   2.264e-02  4.126e-02   0.549  0.58321
## f.22000.0.056  -2.087e-02  4.090e-02  -0.510  0.60985
## f.22000.0.057   3.185e-02  4.109e-02   0.775  0.43827
## f.22000.0.058  -3.409e-02  4.091e-02  -0.833  0.40462
## f.22000.0.059  -1.690e-02  4.077e-02  -0.414  0.67852
## f.22000.0.06    2.395e-02  4.009e-02   0.597  0.55019
## f.22000.0.0-6   4.226e-02  4.099e-02   1.031  0.30260
## f.22000.0.060  -2.796e-02  4.115e-02  -0.679  0.49689
## f.22000.0.061   1.302e-02  4.140e-02   0.315  0.75305
## f.22000.0.062  -4.444e-02  4.126e-02  -1.077  0.28142
## f.22000.0.063  -2.042e-02  4.125e-02  -0.495  0.62046
## f.22000.0.064  -3.020e-02  4.090e-02  -0.738  0.46024
## f.22000.0.065  -6.119e-03  4.115e-02  -0.149  0.88179
## f.22000.0.066  -3.530e-02  4.156e-02  -0.849  0.39575
## f.22000.0.067   1.337e-02  4.113e-02   0.325  0.74515
## f.22000.0.068   4.497e-02  4.105e-02   1.096  0.27330
## f.22000.0.069  -4.104e-02  4.117e-02  -0.997  0.31877
## f.22000.0.07    1.470e-02  4.040e-02   0.364  0.71598
## f.22000.0.0-7   3.944e-02  4.077e-02   0.968  0.33329
## f.22000.0.070  -4.736e-03  4.118e-02  -0.115  0.90843
## f.22000.0.071  -2.399e-02  4.096e-02  -0.586  0.55807
## f.22000.0.072   2.605e-02  4.123e-02   0.632  0.52748
## f.22000.0.073  -1.899e-02  4.120e-02  -0.461  0.64491
## f.22000.0.074  -1.158e-02  4.139e-02  -0.280  0.77967
## f.22000.0.075   3.006e-03  4.097e-02   0.073  0.94151
## f.22000.0.076  -2.763e-02  4.143e-02  -0.667  0.50481
## f.22000.0.077  -3.674e-02  4.120e-02  -0.892  0.37251
## f.22000.0.078  -5.128e-02  4.092e-02  -1.253  0.21009
```

```
## f.22000.0.079  -2.276e-03  4.087e-02  -0.056  0.95559
## f.22000.0.08   -9.961e-03  4.037e-02  -0.247  0.80509
## f.22000.0.0-8   7.912e-02  4.094e-02   1.933  0.05328 .
## f.22000.0.080  -8.213e-03  4.130e-02  -0.199  0.84237
## f.22000.0.081  -2.253e-02  4.179e-02  -0.539  0.58977
## f.22000.0.082  -1.116e-02  4.127e-02  -0.270  0.78678
## f.22000.0.083  -1.578e-02  4.139e-02  -0.381  0.70305
## f.22000.0.084  -2.868e-02  4.138e-02  -0.693  0.48817
## f.22000.0.085   3.429e-02  4.123e-02   0.832  0.40565
## f.22000.0.086   2.807e-02  4.134e-02   0.679  0.49708
## f.22000.0.087  -6.394e-02  4.133e-02  -1.547  0.12181
## f.22000.0.088  -4.733e-02  4.205e-02  -1.125  0.26039
## f.22000.0.089   2.126e-03  4.175e-02   0.051  0.95939
## f.22000.0.09   -2.914e-02  4.012e-02  -0.726  0.46763
## f.22000.0.0-9   6.113e-02  4.095e-02   1.493  0.13546
## f.22000.0.090   1.219e-02  4.133e-02   0.295  0.76796
## f.22000.0.091   8.907e-03  4.269e-02   0.209  0.83473
## f.22000.0.092  -2.785e-02  4.144e-02  -0.672  0.50146
## f.22000.0.093   1.113e-02  4.135e-02   0.269  0.78783
## f.22000.0.094   3.508e-03  5.287e-02   0.066  0.94710
## f.22000.0.095  -2.358e-02  4.409e-02  -0.535  0.59279
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9947 on 119715 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01164,    Adjusted R-squared:  0.0106
## F-statistic: 11.19 on 126 and 119715 DF,  p-value: < 2.2e-16
```

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

summary(lm( f.20490.0.0 ~  `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20490.0.0 ~ `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6489 -0.3453 -0.2555 -0.1446  7.9733
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -7.6769212  0.7434900 -10.326  < 2e-16 ***
## `0.250000`      0.0072705  0.0028759   2.528 0.011468 *
## f.22009.0.1     0.0010277  0.0029998   0.343 0.731916
## f.22009.0.2    -0.0035478  0.0029267  -1.212 0.225429
## f.22009.0.3     0.0034415  0.0029606   1.162 0.245056
## f.22009.0.5     0.0202610  0.0031412   6.450 1.12e-10 ***
## f.22009.0.6     0.0008350  0.0029720   0.281 0.778731
## f.22009.0.7    -0.0066016  0.0030176  -2.188 0.028692 *
## f.22009.0.8     0.0051803  0.0032090   1.614 0.106468
## f.22009.0.9    -0.0053065  0.0030483  -1.741 0.081719 .
## f.22009.0.10   -0.0049324  0.0034962  -1.411 0.158304
## f.22009.0.11   -0.0019095  0.0040704  -0.469 0.638992
## f.22009.0.12   -0.0127237  0.0035870  -3.547 0.000389 ***
## f.22009.0.13   -0.0011847  0.0029189  -0.406 0.684847
## f.22009.0.14   -0.0220461  0.0030847  -7.147 8.93e-13 ***
## f.22009.0.15    0.0020485  0.0031604   0.648 0.516874
## f.22009.0.16   -0.0104454  0.0030998  -3.370 0.000753 ***
## f.22009.0.17   -0.0016792  0.0028794  -0.583 0.559772
## f.22009.0.18    0.0043747  0.0028860   1.516 0.129554
## f.22009.0.19    0.0020776  0.0028747   0.723 0.469861
```

```
## f.22009.0.19    0.0020770  0.0028747   0.723 0.469681
## f.22009.0.20   -0.0008545  0.0028797  -0.297 0.766673
## f.22001.0.01   -0.1827730  0.0058061 -31.479  < 2e-16 ***
## f.34.0.0        0.0039608  0.0003805  10.410  < 2e-16 ***
## f.22000.0.0-1   0.0802040  0.0405733   1.977 0.048070 *
## f.22000.0.010   0.0068598  0.0410544   0.167 0.867299
## f.22000.0.0-10  0.0895514  0.0412723   2.170 0.030026 *
## f.22000.0.011  -0.0164166  0.0403768  -0.407 0.684315
## f.22000.0.0-11  0.0665532  0.0409027   1.627 0.103716
## f.22000.0.012  -0.0164809  0.0406523  -0.405 0.685176
## f.22000.0.013   0.0422257  0.0404999   1.043 0.297130
## f.22000.0.014   0.0029421  0.0402264   0.073 0.941696
## f.22000.0.015   0.0622358  0.0405274   1.536 0.124627
## f.22000.0.016   0.0515213  0.0407150   1.265 0.205726
## f.22000.0.017   0.0414245  0.0403436   1.027 0.304519
## f.22000.0.018   0.0507756  0.0407293   1.247 0.212525
## f.22000.0.019   0.0187185  0.0399726   0.468 0.639582
## f.22000.0.02   -0.0051196  0.0401413  -0.128 0.898514
## f.22000.0.0-2   0.0451412  0.0408536   1.105 0.269184
## f.22000.0.020   0.0246497  0.0406509   0.606 0.544267
## f.22000.0.021   0.0357540  0.0405616   0.881 0.378063
## f.22000.0.022  -0.0056829  0.0405199  -0.140 0.888462
## f.22000.0.023   0.0269239  0.0405173   0.665 0.506370
## f.22000.0.024  -0.0084802  0.0399561  -0.212 0.831922
## f.22000.0.025   0.0202483  0.0409961   0.494 0.621372
## f.22000.0.026   0.0289255  0.0407442   0.710 0.477749
## f.22000.0.027  -0.0115682  0.0400770  -0.289 0.772851
## f.22000.0.028   0.0208123  0.0404836   0.514 0.607188
## f.22000.0.029   0.0547260  0.0402433   1.360 0.173870
## f.22000.0.03    0.0265845  0.0401663   0.662 0.508062
## f.22000.0.0-3   0.1064907  0.0404566   2.632 0.008484 **
## f.22000.0.030  -0.0127917  0.0402261  -0.318 0.750489
## f.22000.0.031   0.0068944  0.0403891   0.171 0.864461
## f.22000.0.032   0.0301774  0.0405718   0.744 0.456997
## f.22000.0.033   0.0363421  0.0412909   0.880 0.378781
## f.22000.0.034   0.0641541  0.0403246   1.591 0.111625
## f.22000.0.035   0.0019702  0.0403949   0.049 0.961100
## f.22000.0.036   0.0256883  0.0401249   0.640 0.522038
## f.22000.0.037   0.0063976  0.0407261   0.157 0.875175
## f.22000.0.038   0.0672678  0.0405627   1.658 0.097246 .
## f.22000.0.039   0.0081844  0.0410240   0.200 0.841870
## f.22000.0.04    0.0396032  0.0408838   0.969 0.332707
## f.22000.0.0-4   0.0911351  0.0411137   2.217 0.026648 *
## f.22000.0.040   0.0548943  0.0405193   1.355 0.175494
## f.22000.0.041   0.0187425  0.0411215   0.456 0.648547
## f.22000.0.042   0.0581279  0.0404211   1.438 0.150420
## f.22000.0.043   0.0394912  0.0411524   0.960 0.337241
## f.22000.0.044   0.0143665  0.0407065   0.353 0.724141
## f.22000.0.045  -0.0120059  0.0407442  -0.295 0.768249
## f.22000.0.046   0.0549355  0.0409678   1.341 0.179942
## f.22000.0.047  -0.0175126  0.0409668  -0.427 0.669029
## f.22000.0.048   0.0421762  0.0408851   1.032 0.302271
## f.22000.0.049   0.0475348  0.0409400   1.161 0.245610
## f.22000.0.05   -0.0274720  0.0402238  -0.683 0.494621
## f.22000.0.0-5   0.1233598  0.0406614   3.034 0.002415 **
## f.22000.0.050   0.0085426  0.0409958   0.208 0.834934
## f.22000.0.051   0.0429171  0.0403709   1.063 0.287752
## f.22000.0.052   0.0360386  0.0411031   0.877 0.380605
## f.22000.0.053   0.0080668  0.0408162   0.198 0.843330
## f.22000.0.054   0.0483138  0.0409114   1.181 0.237630
## f.22000.0.055  -0.0025531  0.0412508  -0.062 0.950650
## f.22000.0.056  -0.0179531  0.0408924  -0.439 0.660639
## f.22000.0.057   0.0734381  0.0410848   1.787 0.073863 .
## f.22000.0.058   0.0113249  0.0409013   0.277 0.781870
## f.22000.0.059   0.0278591  0.0407604   0.683 0.494303
## f.22000.0.06    0.0083689  0.0400834   0.209 0.834615
## f.22000.0.0-6   0.0503723  0.0409868   1.229 0.219078
## f.22000.0.060   0.0397021  0.0411409   0.965 0.334533
## f.22000.0.061   0.0238652  0.0413899   0.577 0.564215
## f.22000.0.062  -0.0245927  0.0412507  -0.596 0.551057
## f.22000.0.063   0.0785588  0.0412388   1.905 0.056786 .
## f.22000.0.064   0.0080953  0.0408906   0.198 0.843065
## f.22000.0.065   0.0828095  0.0411426   2.013 0.044144 *
```

```
## f.22000.0.066   0.0384678  0.0415565   0.926 0.354617
## f.22000.0.067   0.0325502  0.0411205   0.792 0.428606
## f.22000.0.068   0.0013447  0.0410431   0.033 0.973864
## f.22000.0.069   0.0087310  0.0411599   0.212 0.832011
## f.22000.0.07    0.0672494  0.0403893   1.665 0.095909 .
## f.22000.0.0-7   0.0663677  0.0407628   1.628 0.103497
## f.22000.0.070   0.0407174  0.0411721   0.989 0.322687
## f.22000.0.071  -0.0173049  0.0409587  -0.422 0.672664
## f.22000.0.072  -0.0289135  0.0412210  -0.701 0.483038
## f.22000.0.073   0.0359684  0.0411919   0.873 0.382561
## f.22000.0.074   0.0443479  0.0413800   1.072 0.283846
## f.22000.0.075   0.0379713  0.0409671   0.927 0.353994
## f.22000.0.076   0.0017376  0.0414222   0.042 0.966540
## f.22000.0.077   0.0234351  0.0411893   0.569 0.569384
## f.22000.0.078  -0.0112402  0.0409119  -0.275 0.783515
## f.22000.0.079   0.0129777  0.0408637   0.318 0.750800
## f.22000.0.08    0.0438872  0.0403608   1.087 0.276874
## f.22000.0.0-8   0.0711496  0.0409303   1.738 0.082158 .
## f.22000.0.080   0.0469454  0.0412911   1.137 0.255567
## f.22000.0.081   0.0247429  0.0417793   0.592 0.553699
## f.22000.0.082   0.0164091  0.0412590   0.398 0.690846
## f.22000.0.083  -0.0016319  0.0413826  -0.039 0.968544
## f.22000.0.084   0.0281925  0.0413721   0.681 0.495595
## f.22000.0.085   0.0129688  0.0412288   0.315 0.753098
## f.22000.0.086   0.0390511  0.0413302   0.945 0.344734
## f.22000.0.087  -0.0094647  0.0413199  -0.229 0.818822
## f.22000.0.088   0.0286103  0.0420455   0.680 0.496214
## f.22000.0.089   0.0215288  0.0417390   0.516 0.605997
## f.22000.0.09   -0.0423704  0.0401175  -1.056 0.290899
## f.22000.0.0-9   0.0928373  0.0409389   2.268 0.023349 *
## f.22000.0.090  -0.0042737  0.0413217  -0.103 0.917626
## f.22000.0.091  -0.0060928  0.0426826  -0.143 0.886491
## f.22000.0.092   0.0004070  0.0414324   0.010 0.992161
## f.22000.0.093   0.0310946  0.0413431   0.752 0.451987
## f.22000.0.094   0.0236495  0.0528621   0.447 0.654600
## f.22000.0.095   0.0298402  0.0440837   0.677 0.498471
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9945 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01196,    Adjusted R-squared:  0.01091
## F-statistic: 11.41 on 127 and 119714 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.22009.0.5 + 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.22009.0.5 + 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
## -0.6394 -0.3455 -0.2556 -0.1449  7.9642
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -7.6778792  0.7435066 -10.327  < 2e-16 ***
## f.22009.0.1     0.0010922  0.0029998   0.364 0.715793
## f.22009.0.2    -0.0035751  0.0029268  -1.222 0.221893
## f.22009.0.3     0.0034127  0.0029606   1.153 0.249039
## f.22009.0.5     0.0204599  0.0031403   6.515 7.29e-11 ***
## f.22009.0.6     0.0008710  0.0029720   0.293 0.769466
## f.22009.0.7    -0.0066619  0.0030175  -2.208 0.027266 *
## f.22009.0.8     0.0051635  0.0032091   1.609 0.107615
```

```
## f.22009.0.8     0.0051659  0.0032091   1.609 0.107615
## f.22009.0.9    -0.0053297  0.0030483  -1.748 0.080400 .
## f.22009.0.10   -0.0049485  0.0034962  -1.415 0.156958
## f.22009.0.11   -0.0017949  0.0040703  -0.441 0.659235
## f.22009.0.12   -0.0127016  0.0035870  -3.541 0.000399 ***
## f.22009.0.13   -0.0011912  0.0029190  -0.408 0.683218
## f.22009.0.14   -0.0221146  0.0030847  -7.169 7.59e-13 ***
## f.22009.0.15    0.0020610  0.0031605   0.652 0.514332
## f.22009.0.16   -0.0104489  0.0030999  -3.371 0.000750 ***
## f.22009.0.17   -0.0017099  0.0028794  -0.594 0.552621
## f.22009.0.18    0.0043520  0.0028860   1.508 0.131569
## f.22009.0.19    0.0020988  0.0028748   0.730 0.465350
## f.22009.0.20   -0.0008003  0.0028797  -0.278 0.781067
## f.22001.0.01   -0.1829155  0.0058060 -31.505  < 2e-16 ***
## f.34.0.0        0.0039613  0.0003805  10.411  < 2e-16 ***
## f.22000.0.0-1   0.0800889  0.0405742   1.974 0.048397 *
## f.22000.0.010   0.0067342  0.0410553   0.164 0.869710
## f.22000.0.0-10  0.0891852  0.0412730   2.161 0.030708 *
## f.22000.0.011  -0.0163855  0.0403777  -0.406 0.684887
## f.22000.0.0-11  0.0666552  0.0409036   1.630 0.103195
## f.22000.0.012  -0.0165527  0.0406532  -0.407 0.683885
## f.22000.0.013   0.0419559  0.0405006   1.036 0.300236
## f.22000.0.014   0.0029058  0.0402273   0.072 0.942415
## f.22000.0.015   0.0621930  0.0405283   1.535 0.124895
## f.22000.0.016   0.0515196  0.0407159   1.265 0.205751
## f.22000.0.017   0.0415695  0.0403444   1.030 0.302841
## f.22000.0.018   0.0508518  0.0407302   1.249 0.211849
## f.22000.0.019   0.0183950  0.0399732   0.460 0.645386
## f.22000.0.02   -0.0050863  0.0401422  -0.127 0.899173
## f.22000.0.0-2   0.0452956  0.0408545   1.109 0.267559
## f.22000.0.020   0.0245572  0.0406518   0.604 0.545788
## f.22000.0.021   0.0356755  0.0405625   0.880 0.379121
## f.22000.0.022  -0.0058004  0.0405208  -0.143 0.886175
## f.22000.0.023   0.0268262  0.0405182   0.662 0.507923
## f.22000.0.024  -0.0085982  0.0399570  -0.215 0.829622
## f.22000.0.025   0.0204721  0.0409969   0.499 0.617529
## f.22000.0.026   0.0284031  0.0407446   0.697 0.485742
## f.22000.0.027  -0.0115422  0.0400779  -0.288 0.773351
## f.22000.0.028   0.0207251  0.0404845   0.512 0.608702
## f.22000.0.029   0.0548152  0.0402442   1.362 0.173180
## f.22000.0.03    0.0265576  0.0401672   0.661 0.508500
## f.22000.0.0-3   0.1066484  0.0404575   2.636 0.008389 **
## f.22000.0.030  -0.0127016  0.0402270  -0.316 0.752195
## f.22000.0.031   0.0071765  0.0403899   0.178 0.858974
## f.22000.0.032   0.0302017  0.0405727   0.744 0.456645
## f.22000.0.033   0.0363075  0.0412918   0.879 0.379246
## f.22000.0.034   0.0642983  0.0403254   1.594 0.110830
## f.22000.0.035   0.0019723  0.0403958   0.049 0.961059
## f.22000.0.036   0.0258358  0.0401257   0.644 0.519660
## f.22000.0.037   0.0063037  0.0407270   0.155 0.876996
## f.22000.0.038   0.0669618  0.0405634   1.651 0.098783 .
## f.22000.0.039   0.0084505  0.0410248   0.206 0.836802
## f.22000.0.04    0.0395686  0.0408847   0.968 0.333142
## f.22000.0.0-4   0.0911187  0.0411146   2.216 0.026679 *
## f.22000.0.040   0.0546590  0.0405201   1.349 0.177361
## f.22000.0.041   0.0184225  0.0411222   0.448 0.654159
## f.22000.0.042   0.0582100  0.0404220   1.440 0.149854
## f.22000.0.043   0.0393832  0.0411533   0.957 0.338575
## f.22000.0.044   0.0141621  0.0407073   0.348 0.727916
## f.22000.0.045  -0.0116529  0.0407449  -0.286 0.774881
## f.22000.0.046   0.0554782  0.0409682   1.354 0.175682
## f.22000.0.047  -0.0178018  0.0409675  -0.435 0.663902
## f.22000.0.048   0.0417382  0.0408856   1.021 0.307326
## f.22000.0.049   0.0473599  0.0409409   1.157 0.247362
## f.22000.0.05   -0.0277871  0.0402246  -0.691 0.489694
## f.22000.0.0-5   0.1229207  0.0406619   3.023 0.002503 **
## f.22000.0.050   0.0082068  0.0409965   0.200 0.841338
## f.22000.0.051   0.0428146  0.0403718   1.061 0.288916
## f.22000.0.052   0.0358651  0.0411040   0.873 0.382913
## f.22000.0.053   0.0078631  0.0408171   0.193 0.847239
## f.22000.0.054   0.0483623  0.0409123   1.182 0.237169
## f.22000.0.055  -0.0021760  0.0412514  -0.053 0.957932
## f.22000.0.056  -0.0182284  0.0408932  -0.446 0.655774
```

```
## f.22000.0.057   0.0734687  0.0410857   1.788 0.073750 .
## f.22000.0.058   0.0111875  0.0409022   0.274 0.784455
## f.22000.0.059   0.0280272  0.0407613   0.688 0.491710
## f.22000.0.06    0.0084512  0.0400843   0.211 0.833016
## f.22000.0.0-6   0.0503574  0.0409877   1.229 0.219225
## f.22000.0.060   0.0395259  0.0411418   0.961 0.336693
## f.22000.0.061   0.0239191  0.0413908   0.578 0.563343
## f.22000.0.062  -0.0242444  0.0412514  -0.588 0.556719
## f.22000.0.063   0.0784883  0.0412398   1.903 0.057014 .
## f.22000.0.064   0.0080172  0.0408915   0.196 0.844563
## f.22000.0.065   0.0828062  0.0411436   2.013 0.044157 *
## f.22000.0.066   0.0382160  0.0415573   0.920 0.357785
## f.22000.0.067   0.0323778  0.0411214   0.787 0.431066
## f.22000.0.068   0.0012056  0.0410440   0.029 0.976567
## f.22000.0.069   0.0083735  0.0411606   0.203 0.838796
## f.22000.0.07    0.0670981  0.0403901   1.661 0.096666 .
## f.22000.0.0-7   0.0661158  0.0407636   1.622 0.104820
## f.22000.0.070   0.0410732  0.0411728   0.998 0.318485
## f.22000.0.071  -0.0169766  0.0409594  -0.414 0.678527
## f.22000.0.072  -0.0286602  0.0412218  -0.695 0.486889
## f.22000.0.073   0.0357264  0.0411928   0.867 0.385781
## f.22000.0.074   0.0443050  0.0413809   1.071 0.284323
## f.22000.0.075   0.0380579  0.0409680   0.929 0.352908
## f.22000.0.076   0.0020869  0.0414229   0.050 0.959820
## f.22000.0.077   0.0232027  0.0411902   0.563 0.573227
## f.22000.0.078  -0.0115125  0.0409127  -0.281 0.778410
## f.22000.0.079   0.0133551  0.0408643   0.327 0.743808
## f.22000.0.08    0.0442425  0.0403614   1.096 0.273012
## f.22000.0.0-8   0.0710178  0.0409312   1.735 0.082734 .
## f.22000.0.080   0.0469266  0.0412921   1.136 0.255768
## f.22000.0.081   0.0247120  0.0417802   0.591 0.554202
## f.22000.0.082   0.0164880  0.0412599   0.400 0.689443
## f.22000.0.083  -0.0017409  0.0413835  -0.042 0.966446
## f.22000.0.084   0.0285790  0.0413727   0.691 0.489711
## f.22000.0.085   0.0133396  0.0412294   0.324 0.746283
## f.22000.0.086   0.0388852  0.0413310   0.941 0.346798
## f.22000.0.087  -0.0093680  0.0413208  -0.227 0.820647
## f.22000.0.088   0.0285910  0.0420464   0.680 0.496515
## f.22000.0.089   0.0218846  0.0417397   0.524 0.600062
## f.22000.0.09   -0.0424235  0.0401184  -1.057 0.290305
## f.22000.0.0-9   0.0926422  0.0409397   2.263 0.023644 *
## f.22000.0.090  -0.0043065  0.0413226  -0.104 0.916998
## f.22000.0.091  -0.0064459  0.0426833  -0.151 0.879962
## f.22000.0.092   0.0006073  0.0414333   0.015 0.988306
## f.22000.0.093   0.0312263  0.0413440   0.755 0.450082
## f.22000.0.094   0.0233273  0.0528631   0.441 0.659012
## f.22000.0.095   0.0299785  0.0440846   0.680 0.496491
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9946 on 119715 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01191,    Adjusted R-squared:  0.01087
## F-statistic: 11.45 on 126 and 119715 DF,  p-value: < 2.2e-16
```

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

summary(lm( f.20487.0.0 ~  `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20487.0.0 ~ `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
```

```
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.8494 -0.4323 -0.3296 -0.2050  5.3956
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.185e+01  7.418e-01 -29.455  < 2e-16 ***
## `0.250000`      2.566e-02  2.869e-03   8.942  < 2e-16 ***
## f.22009.0.1     3.709e-03  2.993e-03   1.239  0.21529
## f.22009.0.2    -6.514e-03  2.920e-03  -2.231  0.02569 *
## f.22009.0.3     5.100e-03  2.954e-03   1.726  0.08426 .
## f.22009.0.5     2.247e-02  3.134e-03   7.169 7.58e-13 ***
## f.22009.0.6     6.706e-04  2.965e-03   0.226  0.82108
## f.22009.0.7    -6.743e-03  3.011e-03  -2.240  0.02512 *
## f.22009.0.8     4.142e-03  3.202e-03   1.294  0.19580
## f.22009.0.9    -5.038e-03  3.041e-03  -1.656  0.09764 .
## f.22009.0.10   -1.564e-03  3.488e-03  -0.448  0.65381
## f.22009.0.11    1.592e-03  4.061e-03   0.392  0.69514
## f.22009.0.12    4.117e-04  3.579e-03   0.115  0.90841
## f.22009.0.13   -4.614e-03  2.912e-03  -1.584  0.11313
## f.22009.0.14   -2.710e-02  3.078e-03  -8.805  < 2e-16 ***
## f.22009.0.15   -1.288e-04  3.153e-03  -0.041  0.96742
## f.22009.0.16   -8.760e-03  3.093e-03  -2.832  0.00462 **
## f.22009.0.17   -3.258e-03  2.873e-03  -1.134  0.25675
## f.22009.0.18    4.666e-03  2.879e-03   1.621  0.10509
## f.22009.0.19   -2.937e-03  2.868e-03  -1.024  0.30587
## f.22009.0.20    3.761e-03  2.873e-03   1.309  0.19057
## f.22001.0.01   -1.394e-01  5.793e-03 -24.065  < 2e-16 ***
## f.34.0.0        1.123e-02  3.796e-04  29.588  < 2e-16 ***
## f.22000.0.0-1   7.319e-02  4.048e-02   1.808  0.07062 .
## f.22000.0.010  -7.523e-02  4.096e-02  -1.837  0.06625 .
## f.22000.0.0-10  1.247e-02  4.118e-02   0.303  0.76200
## f.22000.0.011  -2.526e-02  4.029e-02  -0.627  0.53065
## f.22000.0.0-11  8.482e-02  4.081e-02   2.078  0.03768 *
## f.22000.0.012  -5.694e-02  4.056e-02  -1.404  0.16040
## f.22000.0.013  -5.529e-02  4.041e-02  -1.368  0.17119
## f.22000.0.014  -5.382e-02  4.013e-02  -1.341  0.17993
## f.22000.0.015  -2.439e-02  4.044e-02  -0.603  0.54640
## f.22000.0.016   6.729e-03  4.062e-02   0.166  0.86843
## f.22000.0.017  -8.340e-03  4.025e-02  -0.207  0.83586
## f.22000.0.018   1.287e-02  4.064e-02   0.317  0.75141
## f.22000.0.019   1.342e-02  3.988e-02   0.337  0.73642
## f.22000.0.02    2.502e-02  4.005e-02   0.625  0.53210
## f.22000.0.0-2   2.334e-02  4.076e-02   0.573  0.56688
## f.22000.0.020  -1.751e-02  4.056e-02  -0.432  0.66591
## f.22000.0.021  -3.655e-02  4.047e-02  -0.903  0.36639
## f.22000.0.022   4.249e-02  4.043e-02   1.051  0.29321
## f.22000.0.023   1.567e-02  4.043e-02   0.388  0.69834
## f.22000.0.024  -5.259e-02  3.987e-02  -1.319  0.18707
## f.22000.0.025  -2.624e-02  4.090e-02  -0.641  0.52124
## f.22000.0.026  -5.098e-02  4.065e-02  -1.254  0.20984
## f.22000.0.027  -3.533e-02  3.999e-02  -0.884  0.37696
## f.22000.0.028   2.263e-02  4.039e-02   0.560  0.57522
## f.22000.0.029   3.737e-03  4.015e-02   0.093  0.92584
## f.22000.0.03    3.354e-03  4.007e-02   0.084  0.93330
## f.22000.0.0-3   2.533e-02  4.036e-02   0.627  0.53037
## f.22000.0.030  -5.396e-02  4.013e-02  -1.345  0.17877
## f.22000.0.031   1.369e-02  4.030e-02   0.340  0.73404
## f.22000.0.032  -2.120e-02  4.048e-02  -0.524  0.60048
## f.22000.0.033  -4.952e-03  4.120e-02  -0.120  0.90432
## f.22000.0.034   5.695e-02  4.023e-02   1.416  0.15689
## f.22000.0.035   3.629e-03  4.030e-02   0.090  0.92825
## f.22000.0.036  -6.219e-03  4.003e-02  -0.155  0.87655
## f.22000.0.037  -2.191e-02  4.063e-02  -0.539  0.58969
## f.22000.0.038  -5.242e-04  4.047e-02  -0.013  0.98967
## f.22000.0.039  -1.287e-02  4.093e-02  -0.314  0.75319
## f.22000.0.04   -4.499e-02  4.079e-02  -1.103  0.27009
## f.22000.0.0-4   5.317e-02  4.102e-02   1.296  0.19487
## f.22000.0.040  -8.266e-03  4.043e-02  -0.204  0.83798
## f.22000.0.041  -1.133e-02  4.103e-02  -0.276  0.78238
## f.22000.0.042  -2.271e-02  4.033e-02  -0.563  0.57333
## f.22000.0.043  -3.352e-02  4.106e-02  -0.816  0.41427
```

```
## f.22000.0.044  -1.682e-02  4.061e-02  -0.414  0.67870
## f.22000.0.045  -1.012e-02  4.065e-02  -0.249  0.80349
## f.22000.0.046  -4.744e-02  4.087e-02  -1.161  0.24579
## f.22000.0.047  -3.434e-02  4.087e-02  -0.840  0.40083
## f.22000.0.048   3.369e-03  4.079e-02   0.083  0.93418
## f.22000.0.049  -2.526e-02  4.085e-02  -0.618  0.53628
## f.22000.0.05   -7.293e-02  4.013e-02  -1.817  0.06919 .
## f.22000.0.0-5   5.857e-02  4.057e-02   1.444  0.14880
## f.22000.0.050   7.049e-03  4.090e-02   0.172  0.86317
## f.22000.0.051   1.776e-02  4.028e-02   0.441  0.65935
## f.22000.0.052  -7.823e-03  4.101e-02  -0.191  0.84871
## f.22000.0.053  -6.488e-02  4.072e-02  -1.593  0.11114
## f.22000.0.054  -1.299e-02  4.082e-02  -0.318  0.75028
## f.22000.0.055  -7.142e-03  4.116e-02  -0.174  0.86223
## f.22000.0.056  -1.252e-02  4.080e-02  -0.307  0.75888
## f.22000.0.057  -7.770e-03  4.099e-02  -0.190  0.84966
## f.22000.0.058  -4.439e-02  4.081e-02  -1.088  0.27667
## f.22000.0.059  -2.192e-02  4.067e-02  -0.539  0.58988
## f.22000.0.06   -2.933e-02  3.999e-02  -0.733  0.46334
## f.22000.0.0-6   2.598e-02  4.089e-02   0.635  0.52520
## f.22000.0.060  -3.450e-02  4.105e-02  -0.840  0.40066
## f.22000.0.061   2.115e-02  4.130e-02   0.512  0.60856
## f.22000.0.062  -9.004e-03  4.116e-02  -0.219  0.82683
## f.22000.0.063   8.827e-03  4.115e-02   0.215  0.83013
## f.22000.0.064  -2.108e-02  4.080e-02  -0.517  0.60542
## f.22000.0.065  -1.850e-02  4.105e-02  -0.451  0.65215
## f.22000.0.066   1.057e-02  4.146e-02   0.255  0.79884
## f.22000.0.067  -7.634e-02  4.103e-02  -1.861  0.06278 .
## f.22000.0.068   7.751e-03  4.095e-02   0.189  0.84987
## f.22000.0.069  -1.605e-03  4.107e-02  -0.039  0.96883
## f.22000.0.07   -9.303e-03  4.030e-02  -0.231  0.81742
## f.22000.0.0-7   3.403e-03  4.067e-02   0.084  0.93332
## f.22000.0.070   2.193e-02  4.108e-02   0.534  0.59352
## f.22000.0.071  -4.157e-02  4.087e-02  -1.017  0.30907
## f.22000.0.072  -1.045e-02  4.113e-02  -0.254  0.79940
## f.22000.0.073  -1.337e-02  4.110e-02  -0.325  0.74497
## f.22000.0.074  -4.184e-02  4.129e-02  -1.013  0.31085
## f.22000.0.075  -3.744e-02  4.087e-02  -0.916  0.35972
## f.22000.0.076  -4.916e-02  4.133e-02  -1.190  0.23421
## f.22000.0.077  -2.745e-02  4.110e-02  -0.668  0.50424
## f.22000.0.078  -1.794e-04  4.082e-02  -0.004  0.99649
## f.22000.0.079  -5.429e-02  4.077e-02  -1.331  0.18304
## f.22000.0.08   -5.925e-02  4.027e-02  -1.471  0.14119
## f.22000.0.0-8   1.348e-02  4.084e-02   0.330  0.74138
## f.22000.0.080  -4.075e-02  4.120e-02  -0.989  0.32259
## f.22000.0.081  -4.363e-02  4.168e-02  -1.047  0.29529
## f.22000.0.082  -3.078e-02  4.117e-02  -0.748  0.45467
## f.22000.0.083  -1.798e-02  4.129e-02  -0.435  0.66331
## f.22000.0.084  -1.720e-02  4.128e-02  -0.417  0.67694
## f.22000.0.085   3.219e-02  4.113e-02   0.782  0.43396
## f.22000.0.086  -1.540e-02  4.124e-02  -0.373  0.70882
## f.22000.0.087  -6.623e-02  4.123e-02  -1.606  0.10818
## f.22000.0.088   6.341e-03  4.195e-02   0.151  0.87985
## f.22000.0.089  -2.242e-02  4.164e-02  -0.538  0.59039
## f.22000.0.09   -6.294e-03  4.003e-02  -0.157  0.87505
## f.22000.0.0-9   3.127e-02  4.085e-02   0.766  0.44396
## f.22000.0.090  -3.955e-03  4.123e-02  -0.096  0.92357
## f.22000.0.091  -1.439e-04  4.259e-02  -0.003  0.99730
## f.22000.0.092   2.260e-03  4.134e-02   0.055  0.95639
## f.22000.0.093   7.450e-03  4.125e-02   0.181  0.85668
## f.22000.0.094   2.499e-03  5.274e-02   0.047  0.96221
## f.22000.0.095  -6.726e-02  4.398e-02  -1.529  0.12622
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9923 on 119714 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01644,    Adjusted R-squared:  0.0154
## F-statistic: 15.76 on 127 and 119714 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.22009.0.5 + 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.22009.0.5 + 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
## -0.7981 -0.4308 -0.3305 -0.2075  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     3.937e-03  2.994e-03   1.315  0.18857
## f.22009.0.2    -6.611e-03  2.921e-03  -2.263  0.02363 *
## f.22009.0.3     4.998e-03  2.955e-03   1.691  0.09074 .
## f.22009.0.5     2.317e-02  3.134e-03   7.393 1.44e-13 ***
## f.22009.0.6     7.975e-04  2.966e-03   0.269  0.78802
## f.22009.0.7    -6.956e-03  3.012e-03  -2.310  0.02091 *
## f.22009.0.8     4.083e-03  3.203e-03   1.275  0.20242
## f.22009.0.9    -5.120e-03  3.042e-03  -1.683  0.09242 .
## f.22009.0.10   -1.621e-03  3.489e-03  -0.465  0.64220
## f.22009.0.11    1.996e-03  4.062e-03   0.491  0.62318
## f.22009.0.12    4.899e-04  3.580e-03   0.137  0.89115
## f.22009.0.13   -4.637e-03  2.913e-03  -1.592  0.11147
## f.22009.0.14   -2.734e-02  3.079e-03  -8.881  < 2e-16 ***
## f.22009.0.15   -8.474e-05  3.154e-03  -0.027  0.97857
## f.22009.0.16   -8.772e-03  3.094e-03  -2.835  0.00458 **
## f.22009.0.17   -3.366e-03  2.874e-03  -1.171  0.24142
## f.22009.0.18    4.586e-03  2.880e-03   1.592  0.11134
## f.22009.0.19   -2.862e-03  2.869e-03  -0.998  0.31851
## f.22009.0.20    3.952e-03  2.874e-03   1.375  0.16914
## f.22001.0.01   -1.399e-01  5.795e-03 -24.145  < 2e-16 ***
## f.34.0.0        1.123e-02  3.797e-04  29.584  < 2e-16 ***
## f.22000.0.0-1   7.278e-02  4.049e-02   1.797  0.07229 .
## f.22000.0.010  -7.568e-02  4.097e-02  -1.847  0.06476 .
## f.22000.0.0-10  1.118e-02  4.119e-02   0.271  0.78609
## f.22000.0.011  -2.515e-02  4.030e-02  -0.624  0.53257
## f.22000.0.0-11  8.518e-02  4.082e-02   2.086  0.03694 *
## f.22000.0.012  -5.719e-02  4.057e-02  -1.410  0.15869
## f.22000.0.013  -5.625e-02  4.042e-02  -1.392  0.16407
## f.22000.0.014  -5.395e-02  4.015e-02  -1.344  0.17904
## f.22000.0.015  -2.454e-02  4.045e-02  -0.607  0.54406
## f.22000.0.016   6.723e-03  4.064e-02   0.165  0.86859
## f.22000.0.017  -7.828e-03  4.027e-02  -0.194  0.84585
## f.22000.0.018   1.314e-02  4.065e-02   0.323  0.74647
## f.22000.0.019   1.228e-02  3.989e-02   0.308  0.75818
## f.22000.0.02    2.514e-02  4.006e-02   0.628  0.53031
## f.22000.0.0-2   2.389e-02  4.077e-02   0.586  0.55798
## f.22000.0.020  -1.784e-02  4.057e-02  -0.440  0.66018
## f.22000.0.021  -3.683e-02  4.048e-02  -0.910  0.36293
## f.22000.0.022   4.208e-02  4.044e-02   1.041  0.29810
## f.22000.0.023   1.532e-02  4.044e-02   0.379  0.70475
## f.22000.0.024  -5.301e-02  3.988e-02  -1.329  0.18375
## f.22000.0.025  -2.545e-02  4.092e-02  -0.622  0.53399
## f.22000.0.026  -5.282e-02  4.066e-02  -1.299  0.19397
## f.22000.0.027  -3.524e-02  4.000e-02  -0.881  0.37835
## f.22000.0.028   2.233e-02  4.040e-02   0.553  0.58055
## f.22000.0.029   4.052e-03  4.017e-02   0.101  0.91964
## f.22000.0.03    3.259e-03  4.009e-02   0.081  0.93520
## f.22000.0.0-3   2.588e-02  4.038e-02   0.641  0.52151
## f.22000.0.030  -5.364e-02  4.015e-02  -1.336  0.18149
## f.22000.0.031   1.469e-02  4.031e-02   0.364  0.71560
## f.22000.0.032  -2.111e-02  4.049e-02  -0.521  0.60207
```

```
## f.22000.0.032  -2.111e-02  4.049e-02  -0.521  0.60207
## f.22000.0.033  -5.074e-03  4.121e-02  -0.123  0.90200
## f.22000.0.034   5.746e-02  4.025e-02   1.428  0.15335
## f.22000.0.035   3.637e-03  4.032e-02   0.090  0.92812
## f.22000.0.036  -5.698e-03  4.005e-02  -0.142  0.88685
## f.22000.0.037  -2.224e-02  4.065e-02  -0.547  0.58420
## f.22000.0.038  -1.604e-03  4.048e-02  -0.040  0.96839
## f.22000.0.039  -1.193e-02  4.094e-02  -0.291  0.77075
## f.22000.0.04   -4.511e-02  4.080e-02  -1.105  0.26895
## f.22000.0.0-4   5.312e-02  4.103e-02   1.294  0.19551
## f.22000.0.040  -9.097e-03  4.044e-02  -0.225  0.82203
## f.22000.0.041  -1.246e-02  4.104e-02  -0.304  0.76140
## f.22000.0.042  -2.242e-02  4.034e-02  -0.556  0.57836
## f.22000.0.043  -3.390e-02  4.107e-02  -0.825  0.40914
## f.22000.0.044  -1.755e-02  4.063e-02  -0.432  0.66584
## f.22000.0.045  -8.870e-03  4.066e-02  -0.218  0.82734
## f.22000.0.046  -4.553e-02  4.089e-02  -1.113  0.26553
## f.22000.0.047  -3.536e-02  4.089e-02  -0.865  0.38713
## f.22000.0.048   1.823e-03  4.081e-02   0.045  0.96436
## f.22000.0.049  -2.588e-02  4.086e-02  -0.633  0.52651
## f.22000.0.05   -7.404e-02  4.015e-02  -1.844  0.06514 .
## f.22000.0.0-5   5.702e-02  4.058e-02   1.405  0.15998
## f.22000.0.050   5.864e-03  4.092e-02   0.143  0.88604
## f.22000.0.051   1.739e-02  4.029e-02   0.432  0.66597
## f.22000.0.052  -8.436e-03  4.102e-02  -0.206  0.83708
## f.22000.0.053  -6.560e-02  4.074e-02  -1.610  0.10735
## f.22000.0.054  -1.282e-02  4.083e-02  -0.314  0.75354
## f.22000.0.055  -5.812e-03  4.117e-02  -0.141  0.88774
## f.22000.0.056  -1.350e-02  4.081e-02  -0.331  0.74090
## f.22000.0.057  -7.662e-03  4.100e-02  -0.187  0.85177
## f.22000.0.058  -4.488e-02  4.082e-02  -1.099  0.27162
## f.22000.0.059  -2.133e-02  4.068e-02  -0.524  0.60011
## f.22000.0.06   -2.904e-02  4.001e-02  -0.726  0.46793
## f.22000.0.0-6   2.593e-02  4.091e-02   0.634  0.52618
## f.22000.0.060  -3.512e-02  4.106e-02  -0.855  0.39237
## f.22000.0.061   2.134e-02  4.131e-02   0.517  0.60546
## f.22000.0.062  -7.775e-03  4.117e-02  -0.189  0.85021
## f.22000.0.063   8.578e-03  4.116e-02   0.208  0.83490
## f.22000.0.064  -2.135e-02  4.081e-02  -0.523  0.60084
## f.22000.0.065  -1.852e-02  4.106e-02  -0.451  0.65206
## f.22000.0.066   9.678e-03  4.148e-02   0.233  0.81549
## f.22000.0.067  -7.695e-02  4.104e-02  -1.875  0.06080 .
## f.22000.0.068   7.260e-03  4.096e-02   0.177  0.85932
## f.22000.0.069  -2.866e-03  4.108e-02  -0.070  0.94437
## f.22000.0.07   -9.837e-03  4.031e-02  -0.244  0.80721
## f.22000.0.0-7   2.514e-03  4.068e-02   0.062  0.95073
## f.22000.0.070   2.318e-02  4.109e-02   0.564  0.57267
## f.22000.0.071  -4.041e-02  4.088e-02  -0.989  0.32290
## f.22000.0.072  -9.558e-03  4.114e-02  -0.232  0.81629
## f.22000.0.073  -1.422e-02  4.111e-02  -0.346  0.72938
## f.22000.0.074  -4.199e-02  4.130e-02  -1.017  0.30926
## f.22000.0.075  -3.713e-02  4.089e-02  -0.908  0.36381
## f.22000.0.076  -4.793e-02  4.134e-02  -1.159  0.24630
## f.22000.0.077  -2.827e-02  4.111e-02  -0.688  0.49173
## f.22000.0.078  -1.140e-03  4.083e-02  -0.028  0.97772
## f.22000.0.079  -5.295e-02  4.078e-02  -1.298  0.19415
## f.22000.0.08   -5.800e-02  4.028e-02  -1.440  0.14994
## f.22000.0.0-8   1.301e-02  4.085e-02   0.319  0.75008
## f.22000.0.080  -4.082e-02  4.121e-02  -0.990  0.32197
## f.22000.0.081  -4.374e-02  4.170e-02  -1.049  0.29425
## f.22000.0.082  -3.050e-02  4.118e-02  -0.741  0.45891
## f.22000.0.083  -1.836e-02  4.130e-02  -0.445  0.65667
## f.22000.0.084  -1.583e-02  4.129e-02  -0.383  0.70137
## f.22000.0.085   3.349e-02  4.115e-02   0.814  0.41566
## f.22000.0.086  -1.598e-02  4.125e-02  -0.388  0.69838
## f.22000.0.087  -6.589e-02  4.124e-02  -1.598  0.11012
## f.22000.0.088   6.273e-03  4.196e-02   0.149  0.88117
## f.22000.0.089  -2.116e-02  4.166e-02  -0.508  0.61148
## f.22000.0.09   -6.481e-03  4.004e-02  -0.162  0.87141
## f.22000.0.0-9   3.058e-02  4.086e-02   0.748  0.45420
## f.22000.0.090  -4.071e-03  4.124e-02  -0.099  0.92136
## f.22000.0.091  -1.390e-03  4.260e-02  -0.033  0.97397
## f.22000.0.092   2.967e-03  4.135e-02   0.072  0.94280
```

```
## f.22000.0.093   7.915e-03  4.126e-02   0.192  0.84789
## f.22000.0.094   1.362e-03  5.276e-02   0.026  0.97940
## f.22000.0.095  -6.677e-02  4.400e-02  -1.518  0.12912
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9926 on 119715 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.01579,    Adjusted R-squared:  0.01475
## F-statistic: 15.24 on 126 and 119715 DF,  p-value: < 2.2e-16
```

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

summary(lm( f.20491.0.0 ~  `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = f.20491.0.0 ~ `0.250000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6735 -0.3982 -0.3309 -0.2373  5.4997
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.859e+01  7.452e-01  24.948  < 2e-16 ***
## `0.250000`      1.970e-04  2.882e-03   0.068 0.945514
## f.22009.0.1    -7.708e-04  3.007e-03  -0.256 0.797679
## f.22009.0.2     1.868e-03  2.933e-03   0.637 0.524356
## f.22009.0.3    -1.703e-03  2.967e-03  -0.574 0.565960
## f.22009.0.5     1.723e-02  3.148e-03   5.474 4.42e-08 ***
## f.22009.0.6     1.586e-03  2.979e-03   0.533 0.594344
## f.22009.0.7    -6.139e-03  3.024e-03  -2.030 0.042382 *
## f.22009.0.8     1.819e-03  3.216e-03   0.566 0.571614
## f.22009.0.9     6.641e-03  3.055e-03   2.174 0.029738 *
## f.22009.0.10    1.234e-04  3.504e-03   0.035 0.971897
## f.22009.0.11    1.683e-02  4.080e-03   4.125 3.70e-05 ***
## f.22009.0.12   -7.523e-04  3.595e-03  -0.209 0.834242
## f.22009.0.13   -1.600e-03  2.926e-03  -0.547 0.584381
## f.22009.0.14   -1.972e-02  3.092e-03  -6.378 1.80e-10 ***
## f.22009.0.15    1.178e-03  3.168e-03   0.372 0.710067
## f.22009.0.16   -1.187e-02  3.107e-03  -3.820 0.000134 ***
## f.22009.0.17   -5.800e-03  2.886e-03  -2.010 0.044468 *
## f.22009.0.18    6.549e-03  2.893e-03   2.264 0.023562 *
## f.22009.0.19   -2.492e-03  2.881e-03  -0.865 0.387182
## f.22009.0.20    8.822e-03  2.886e-03   3.057 0.002239 **
## f.22001.0.01   -4.845e-02  5.819e-03  -8.326  < 2e-16 ***
## f.34.0.0       -9.522e-03  3.813e-04 -24.971  < 2e-16 ***
## f.22000.0.0-1   1.238e-01  4.067e-02   3.045 0.002328 **
## f.22000.0.010  -3.829e-02  4.115e-02  -0.931 0.352044
## f.22000.0.0-10 -1.740e-02  4.137e-02  -0.421 0.674042
## f.22000.0.011  -1.995e-02  4.047e-02  -0.493 0.622039
## f.22000.0.0-11  7.566e-02  4.100e-02   1.846 0.064958 .
## f.22000.0.012  -8.651e-05  4.074e-02  -0.002 0.998306
## f.22000.0.013   5.730e-02  4.059e-02   1.412 0.158038
## f.22000.0.014   4.647e-03  4.032e-02   0.115 0.908241
## f.22000.0.015   3.843e-02  4.062e-02   0.946 0.344048
## f.22000.0.016   1.742e-03  4.081e-02   0.043 0.965954
## f.22000.0.017  -1.449e-02  4.044e-02  -0.358 0.720071
## f.22000.0.018   7.203e-03  4.082e-02   0.176 0.859933
## f.22000.0.019   5.879e-03  4.006e-02   0.147 0.883344
## f.22000.0.02    5.008e-04  4.023e-02   0.012 0.990068
## f.22000.0.0-2   7.210e-02  4.095e-02   1.761 0.078286
```

```
## f.22000.0.0-2   7.210e-02  4.095e-02   1.761 0.078280 .
## f.22000.0.020  -2.872e-02  4.074e-02  -0.705 0.480946
## f.22000.0.021   2.647e-02  4.065e-02   0.651 0.514978
## f.22000.0.022   8.460e-03  4.061e-02   0.208 0.834979
## f.22000.0.023   1.952e-02  4.061e-02   0.481 0.630807
## f.22000.0.024   2.484e-02  4.005e-02   0.620 0.535043
## f.22000.0.025  -1.779e-02  4.109e-02  -0.433 0.665051
## f.22000.0.026   7.280e-03  4.084e-02   0.178 0.858509
## f.22000.0.027  -6.730e-03  4.017e-02  -0.168 0.866934
## f.22000.0.028   4.097e-02  4.058e-02   1.010 0.312681
## f.22000.0.029   3.513e-02  4.033e-02   0.871 0.383745
## f.22000.0.03    8.658e-03  4.026e-02   0.215 0.829713
## f.22000.0.0-3   5.340e-02  4.055e-02   1.317 0.187897
## f.22000.0.030   2.331e-02  4.032e-02   0.578 0.563178
## f.22000.0.031   4.100e-02  4.048e-02   1.013 0.311131
## f.22000.0.032   2.676e-02  4.066e-02   0.658 0.510469
## f.22000.0.033  -1.019e-02  4.138e-02  -0.246 0.805578
## f.22000.0.034   7.319e-02  4.042e-02   1.811 0.070147 .
## f.22000.0.035   2.197e-02  4.049e-02   0.543 0.587293
## f.22000.0.036   2.838e-02  4.022e-02   0.706 0.480450
## f.22000.0.037  -4.801e-02  4.082e-02  -1.176 0.239537
## f.22000.0.038   2.605e-02  4.065e-02   0.641 0.521638
## f.22000.0.039   2.091e-02  4.112e-02   0.508 0.611110
## f.22000.0.04    2.088e-02  4.098e-02   0.510 0.610363
## f.22000.0.0-4   7.001e-02  4.121e-02   1.699 0.089315 .
## f.22000.0.040   1.759e-02  4.061e-02   0.433 0.664964
## f.22000.0.041  -5.491e-02  4.121e-02  -1.332 0.182803
## f.22000.0.042  -1.821e-02  4.051e-02  -0.449 0.653121
## f.22000.0.043   1.377e-02  4.125e-02   0.334 0.738527
## f.22000.0.044  -1.024e-02  4.080e-02  -0.251 0.801797
## f.22000.0.045   7.636e-03  4.084e-02   0.187 0.851677
## f.22000.0.046   3.001e-02  4.106e-02   0.731 0.464854
## f.22000.0.047  -2.351e-03  4.106e-02  -0.057 0.954340
## f.22000.0.048   3.668e-04  4.098e-02   0.009 0.992858
## f.22000.0.049  -1.864e-02  4.103e-02  -0.454 0.649575
## f.22000.0.05   -1.808e-02  4.032e-02  -0.448 0.653820
## f.22000.0.0-5   1.762e-03  4.075e-02   0.043 0.965521
## f.22000.0.050   6.105e-02  4.109e-02   1.486 0.137315
## f.22000.0.051   2.805e-02  4.046e-02   0.693 0.488207
## f.22000.0.052  -1.935e-02  4.120e-02  -0.470 0.638497
## f.22000.0.053   2.491e-02  4.091e-02   0.609 0.542546
## f.22000.0.054   2.035e-02  4.100e-02   0.496 0.619729
## f.22000.0.055   3.264e-02  4.134e-02   0.790 0.429801
## f.22000.0.056  -2.039e-02  4.099e-02  -0.498 0.618783
## f.22000.0.057   1.310e-02  4.118e-02   0.318 0.750317
## f.22000.0.058  -2.533e-02  4.099e-02  -0.618 0.536597
## f.22000.0.059   6.037e-02  4.085e-02   1.478 0.139452
## f.22000.0.06   -1.589e-03  4.017e-02  -0.040 0.968447
## f.22000.0.0-6   3.822e-02  4.108e-02   0.930 0.352204
## f.22000.0.060  -3.614e-02  4.123e-02  -0.876 0.380810
## f.22000.0.061   7.307e-02  4.148e-02   1.761 0.078181 .
## f.22000.0.062   4.570e-02  4.134e-02   1.105 0.269047
## f.22000.0.063   1.683e-02  4.133e-02   0.407 0.683802
## f.22000.0.064   2.273e-02  4.098e-02   0.555 0.579185
## f.22000.0.065   4.186e-02  4.124e-02   1.015 0.310078
## f.22000.0.066   9.641e-03  4.165e-02   0.231 0.816951
## f.22000.0.067   2.580e-02  4.121e-02   0.626 0.531344
## f.22000.0.068   4.007e-02  4.114e-02   0.974 0.329980
## f.22000.0.069   6.885e-02  4.125e-02   1.669 0.095149 .
## f.22000.0.07    3.749e-02  4.048e-02   0.926 0.354401
## f.22000.0.0-7  -1.220e-02  4.086e-02  -0.299 0.765191
## f.22000.0.070   1.166e-02  4.127e-02   0.283 0.777477
## f.22000.0.071   7.651e-02  4.105e-02   1.864 0.062346 .
## f.22000.0.072   3.016e-02  4.131e-02   0.730 0.465408
## f.22000.0.073   5.425e-02  4.129e-02   1.314 0.188881
## f.22000.0.074  -9.058e-03  4.147e-02  -0.218 0.827117
## f.22000.0.075  -4.559e-03  4.106e-02  -0.111 0.911587
## f.22000.0.076  -6.542e-03  4.152e-02  -0.158 0.874796
## f.22000.0.077  -2.556e-02  4.128e-02  -0.619 0.535873
## f.22000.0.078   3.212e-02  4.100e-02   0.783 0.433432
## f.22000.0.079   9.750e-03  4.096e-02   0.238 0.811831
## f.22000.0.08    7.636e-02  4.045e-02   1.888 0.059087 .
## f.22000.0.0-8   4.823e-02  4.102e-02   1.176 0.239760
```

```
## f.22000.0.080   3.440e-02  4.138e-02   0.831 0.405833
## f.22000.0.081   4.842e-02  4.187e-02   1.156 0.247542
## f.22000.0.082  -4.153e-02  4.135e-02  -1.004 0.315189
## f.22000.0.083  -1.384e-02  4.148e-02  -0.334 0.738535
## f.22000.0.084   3.552e-02  4.147e-02   0.857 0.391625
## f.22000.0.085   6.667e-02  4.132e-02   1.613 0.106640
## f.22000.0.086  -1.552e-02  4.142e-02  -0.375 0.707901
## f.22000.0.087  -2.588e-02  4.141e-02  -0.625 0.532011
## f.22000.0.088  -1.925e-02  4.214e-02  -0.457 0.647771
## f.22000.0.089   2.140e-02  4.183e-02   0.512 0.608913
## f.22000.0.09    6.877e-03  4.021e-02   0.171 0.864203
## f.22000.0.0-9   5.922e-02  4.103e-02   1.443 0.148958
## f.22000.0.090   1.179e-03  4.142e-02   0.028 0.977296
## f.22000.0.091   4.991e-02  4.278e-02   1.167 0.243366
## f.22000.0.092  -5.051e-04  4.153e-02  -0.012 0.990296
## f.22000.0.093   6.161e-03  4.144e-02   0.149 0.881803
## f.22000.0.094   1.201e-02  5.298e-02   0.227 0.820699
## f.22000.0.095   3.976e-02  4.418e-02   0.900 0.368220
## ---
## 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:  0.007469,   Adjusted R-squared:  0.006416
## F-statistic: 7.094 on 127 and 119714 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.22009.0.5 + 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.22009.0.5 + 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
## -0.6736 -0.3981 -0.3310 -0.2373  5.4998
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)      1.859e+01  7.452e-01  24.949  < 2e-16 ***
## f.22009.0.1     -7.690e-04  3.007e-03  -0.256 0.798120
## f.22009.0.2      1.867e-03  2.933e-03   0.636 0.524516
## f.22009.0.3     -1.704e-03  2.967e-03  -0.574 0.565778
## f.22009.0.5      1.724e-02  3.147e-03   5.477 4.33e-08 ***
## f.22009.0.6      1.587e-03  2.979e-03   0.533 0.594111
## f.22009.0.7     -6.141e-03  3.024e-03  -2.030 0.042320 *
## f.22009.0.8      1.819e-03  3.216e-03   0.566 0.571708
## f.22009.0.9      6.640e-03  3.055e-03   2.173 0.029752 *
## f.22009.0.10     1.230e-04  3.504e-03   0.035 0.971996
## f.22009.0.11     1.683e-02  4.079e-03   4.126 3.69e-05 ***
## f.22009.0.12    -7.517e-04  3.595e-03  -0.209 0.834372
## f.22009.0.13    -1.600e-03  2.926e-03  -0.547 0.584338
## f.22009.0.14    -1.972e-02  3.092e-03  -6.379 1.79e-10 ***
## f.22009.0.15     1.178e-03  3.168e-03   0.372 0.709987
## f.22009.0.16    -1.187e-02  3.107e-03  -3.820 0.000134 ***
## f.22009.0.17    -5.801e-03  2.886e-03  -2.010 0.044435 *
## f.22009.0.18     6.549e-03  2.892e-03   2.264 0.023574 *
## f.22009.0.19    -2.491e-03  2.881e-03  -0.865 0.387287
## f.22009.0.20     8.824e-03  2.886e-03   3.057 0.002234 **
## f.22001.0.01    -4.846e-02  5.819e-03  -8.327  < 2e-16 ***
## f.34.0.0        -9.522e-03  3.813e-04 -24.972  < 2e-16 ***
## f.22000.0.0-1    1.238e-01  4.067e-02   3.045 0.002328 **
## f.22000.0.010   -3.830e-02  4.115e-02  -0.931 0.351999
## f.22000.0.0-10  -1.741e-02  4.137e-02  -0.421 0.673863
## f.22000.0.011   -1.995e-02  4.047e-02  -0.493 0.622052
```

```
## f.22000.0.011  -1.995e-02  4.047e-02  -0.493 0.622052
## f.22000.0.0-11  7.566e-02  4.100e-02   1.846 0.064946 .
## f.22000.0.012  -8.846e-05  4.074e-02  -0.002 0.998268
## f.22000.0.013   5.730e-02  4.059e-02   1.412 0.158088
## f.22000.0.014   4.646e-03  4.032e-02   0.115 0.908260
## f.22000.0.015   3.843e-02  4.062e-02   0.946 0.344060
## f.22000.0.016   1.742e-03  4.081e-02   0.043 0.965955
## f.22000.0.017  -1.449e-02  4.043e-02  -0.358 0.720142
## f.22000.0.018   7.205e-03  4.082e-02   0.177 0.859893
## f.22000.0.019   5.870e-03  4.006e-02   0.147 0.883516
## f.22000.0.02    5.017e-04  4.023e-02   0.012 0.990050
## f.22000.0.0-2   7.210e-02  4.095e-02   1.761 0.078268 .
## f.22000.0.020  -2.872e-02  4.074e-02  -0.705 0.480906
## f.22000.0.021   2.647e-02  4.065e-02   0.651 0.515010
## f.22000.0.022   8.457e-03  4.061e-02   0.208 0.835040
## f.22000.0.023   1.951e-02  4.061e-02   0.481 0.630852
## f.22000.0.024   2.484e-02  4.005e-02   0.620 0.535094
## f.22000.0.025  -1.778e-02  4.109e-02  -0.433 0.665156
## f.22000.0.026   7.266e-03  4.084e-02   0.178 0.858779
## f.22000.0.027  -6.730e-03  4.017e-02  -0.168 0.866948
## f.22000.0.028   4.096e-02  4.058e-02   1.010 0.312707
## f.22000.0.029   3.513e-02  4.033e-02   0.871 0.383710
## f.22000.0.03    8.657e-03  4.026e-02   0.215 0.829726
## f.22000.0.0-3   5.340e-02  4.055e-02   1.317 0.187859
## f.22000.0.030   2.331e-02  4.032e-02   0.578 0.563135
## f.22000.0.031   4.101e-02  4.048e-02   1.013 0.311037
## f.22000.0.032   2.676e-02  4.066e-02   0.658 0.510457
## f.22000.0.033  -1.019e-02  4.138e-02  -0.246 0.805560
## f.22000.0.034   7.320e-02  4.042e-02   1.811 0.070131 .
## f.22000.0.035   2.197e-02  4.049e-02   0.543 0.587291
## f.22000.0.036   2.838e-02  4.022e-02   0.706 0.480385
## f.22000.0.037  -4.801e-02  4.082e-02  -1.176 0.239510
## f.22000.0.038   2.604e-02  4.065e-02   0.641 0.521767
## f.22000.0.039   2.091e-02  4.112e-02   0.509 0.610984
## f.22000.0.04    2.088e-02  4.098e-02   0.510 0.610378
## f.22000.0.0-4   7.001e-02  4.121e-02   1.699 0.089316 .
## f.22000.0.040   1.758e-02  4.061e-02   0.433 0.665076
## f.22000.0.041  -5.491e-02  4.121e-02  -1.332 0.182730
## f.22000.0.042  -1.821e-02  4.051e-02  -0.449 0.653159
## f.22000.0.043   1.377e-02  4.125e-02   0.334 0.738580
## f.22000.0.044  -1.025e-02  4.080e-02  -0.251 0.801690
## f.22000.0.045   7.645e-03  4.084e-02   0.187 0.851492
## f.22000.0.046   3.003e-02  4.106e-02   0.731 0.464628
## f.22000.0.047  -2.359e-03  4.106e-02  -0.057 0.954187
## f.22000.0.048   3.549e-04  4.098e-02   0.009 0.993089
## f.22000.0.049  -1.865e-02  4.103e-02  -0.454 0.649490
## f.22000.0.05   -1.809e-02  4.031e-02  -0.449 0.653664
## f.22000.0.0-5   1.750e-03  4.075e-02   0.043 0.965753
## f.22000.0.050   6.104e-02  4.109e-02   1.486 0.137370
## f.22000.0.051   2.804e-02  4.046e-02   0.693 0.488248
## f.22000.0.052  -1.936e-02  4.120e-02  -0.470 0.638414
## f.22000.0.053   2.491e-02  4.091e-02   0.609 0.542633
## f.22000.0.054   2.035e-02  4.100e-02   0.496 0.619705
## f.22000.0.055   3.265e-02  4.134e-02   0.790 0.429651
## f.22000.0.056  -2.040e-02  4.098e-02  -0.498 0.618652
## f.22000.0.057   1.310e-02  4.118e-02   0.318 0.750300
## f.22000.0.058  -2.534e-02  4.099e-02  -0.618 0.536535
## f.22000.0.059   6.038e-02  4.085e-02   1.478 0.139420
## f.22000.0.06   -1.587e-03  4.017e-02  -0.040 0.968491
## f.22000.0.0-6   3.822e-02  4.108e-02   0.930 0.352207
## f.22000.0.060  -3.614e-02  4.123e-02  -0.877 0.380744
## f.22000.0.061   7.307e-02  4.148e-02   1.761 0.078174 .
## f.22000.0.062   4.571e-02  4.134e-02   1.106 0.268944
## f.22000.0.063   1.683e-02  4.133e-02   0.407 0.683834
## f.22000.0.064   2.273e-02  4.098e-02   0.555 0.579219
## f.22000.0.065   4.186e-02  4.124e-02   1.015 0.310077
## f.22000.0.066   9.634e-03  4.165e-02   0.231 0.817076
## f.22000.0.067   2.579e-02  4.121e-02   0.626 0.531416
## f.22000.0.068   4.007e-02  4.114e-02   0.974 0.330023
## f.22000.0.069   6.884e-02  4.125e-02   1.669 0.095192 .
## f.22000.0.07    3.748e-02  4.048e-02   0.926 0.354451
## f.22000.0.0-7  -1.221e-02  4.085e-02  -0.299 0.765062
## f.22000.0.070   1.167e-02  4.127e-02   0.283 0.777296
```

```
## f.22000.0.071   7.652e-02  4.105e-02   1.864 0.062314 .
## f.22000.0.072   3.017e-02  4.131e-02   0.730 0.465303
## f.22000.0.073   5.424e-02  4.129e-02   1.314 0.188931
## f.22000.0.074  -9.059e-03  4.147e-02  -0.218 0.827094
## f.22000.0.075  -4.557e-03  4.106e-02  -0.111 0.911632
## f.22000.0.076  -6.532e-03  4.152e-02  -0.157 0.874974
## f.22000.0.077  -2.556e-02  4.128e-02  -0.619 0.535770
## f.22000.0.078   3.211e-02  4.100e-02   0.783 0.433534
## f.22000.0.079   9.761e-03  4.096e-02   0.238 0.811636
## f.22000.0.08    7.637e-02  4.045e-02   1.888 0.059053 .
## f.22000.0.0-8   4.822e-02  4.102e-02   1.176 0.239793
## f.22000.0.080   3.440e-02  4.138e-02   0.831 0.405838
## f.22000.0.081   4.842e-02  4.187e-02   1.156 0.247548
## f.22000.0.082  -4.153e-02  4.135e-02  -1.004 0.315212
## f.22000.0.083  -1.385e-02  4.148e-02  -0.334 0.738480
## f.22000.0.084   3.553e-02  4.147e-02   0.857 0.391480
## f.22000.0.085   6.668e-02  4.132e-02   1.614 0.106583
## f.22000.0.086  -1.553e-02  4.142e-02  -0.375 0.707819
## f.22000.0.087  -2.588e-02  4.141e-02  -0.625 0.532051
## f.22000.0.088  -1.925e-02  4.214e-02  -0.457 0.647761
## f.22000.0.089   2.141e-02  4.183e-02   0.512 0.608748
## f.22000.0.09    6.875e-03  4.021e-02   0.171 0.864231
## f.22000.0.0-9   5.921e-02  4.103e-02   1.443 0.148991
## f.22000.0.090   1.178e-03  4.142e-02   0.028 0.977313
## f.22000.0.091   4.990e-02  4.278e-02   1.166 0.243451
## f.22000.0.092  -4.997e-04  4.153e-02  -0.012 0.990400
## f.22000.0.093   6.165e-03  4.144e-02   0.149 0.881735
## f.22000.0.094   1.200e-02  5.298e-02   0.226 0.820826
## f.22000.0.095   3.976e-02  4.418e-02   0.900 0.368172
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9968 on 119715 degrees of freedom
##   (25 observations deleted due to missingness)
## Multiple R-squared:  0.007469,   Adjusted R-squared:  0.006424
## F-statistic:  7.15 on 126 and 119715 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 ~  `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = lifenotworthliving ~ `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.1734  -0.7012  -0.5342   1.3099   1.9815
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.339e+01  7.395e-01 -45.157  < 2e-16 ***
## `0.500000`      3.087e-02  2.861e-03  10.790  < 2e-16 ***
## f.22009.0.1     9.836e-03  2.984e-03   3.296 0.000982 ***
## f.22009.0.2    -1.881e-03  2.911e-03  -0.646 0.518164
```

```
## f.22009.0.2     1.661e-03  2.911e-03   0.570 0.568764
## f.22009.0.3    -1.875e-03  2.945e-03  -0.637 0.524358
## f.22009.0.5    -1.868e-03  3.125e-03  -0.598 0.549854
## f.22009.0.6    -3.032e-04  2.955e-03  -0.103 0.918294
## f.22009.0.7    -6.454e-03  3.001e-03  -2.150 0.031532 *
## f.22009.0.8     5.125e-03  3.193e-03   1.605 0.108407
## f.22009.0.9    -5.873e-03  3.032e-03  -1.937 0.052736 .
## f.22009.0.10    2.345e-03  3.477e-03   0.674 0.500070
## f.22009.0.11   -5.786e-03  4.049e-03  -1.429 0.153014
## f.22009.0.12    4.551e-04  3.569e-03   0.128 0.898522
## f.22009.0.13   -2.896e-03  2.903e-03  -0.997 0.318526
## f.22009.0.14   -1.856e-02  3.069e-03  -6.048 1.47e-09 ***
## f.22009.0.15   -2.130e-03  3.144e-03  -0.678 0.497966
## f.22009.0.16   -6.988e-03  3.083e-03  -2.266 0.023447 *
## f.22009.0.17    1.011e-03  2.864e-03   0.353 0.724149
## f.22009.0.18   -1.236e-03  2.871e-03  -0.431 0.666653
## f.22009.0.19    1.089e-03  2.860e-03   0.381 0.703243
## f.22009.0.20    2.831e-03  2.865e-03   0.988 0.323087
## f.22001.0.01   -1.627e-01  5.775e-03 -28.168  < 2e-16 ***
## f.34.0.0        1.713e-02  3.784e-04  45.261  < 2e-16 ***
## f.22000.0.0-1   6.112e-02  4.037e-02   1.514 0.130025
## f.22000.0.010   6.604e-03  4.083e-02   0.162 0.871494
## f.22000.0.0-10  8.594e-02  4.101e-02   2.095 0.036138 *
## f.22000.0.011   7.191e-02  4.015e-02   1.791 0.073274 .
## f.22000.0.0-11  5.061e-02  4.066e-02   1.245 0.213291
## f.22000.0.012   2.294e-02  4.041e-02   0.568 0.570246
## f.22000.0.013   7.201e-03  4.028e-02   0.179 0.858114
## f.22000.0.014   6.586e-02  4.002e-02   1.646 0.099773 .
## f.22000.0.015   5.232e-02  4.031e-02   1.298 0.194260
## f.22000.0.016   9.229e-02  4.052e-02   2.277 0.022764 *
## f.22000.0.017   6.849e-02  4.015e-02   1.706 0.088064 .
## f.22000.0.018  -2.508e-02  4.055e-02  -0.619 0.536211
## f.22000.0.019   4.983e-02  3.976e-02   1.253 0.210161
## f.22000.0.02    7.763e-03  3.991e-02   0.194 0.845786
## f.22000.0.0-2   9.540e-02  4.063e-02   2.348 0.018865 *
## f.22000.0.020   2.752e-02  4.044e-02   0.681 0.496185
## f.22000.0.021   5.412e-02  4.032e-02   1.342 0.179442
## f.22000.0.022   3.541e-02  4.030e-02   0.879 0.379648
## f.22000.0.023   2.700e-02  4.028e-02   0.670 0.502682
## f.22000.0.024   1.302e-02  3.978e-02   0.327 0.743452
## f.22000.0.025   3.739e-02  4.079e-02   0.917 0.359229
## f.22000.0.026   9.629e-04  4.056e-02   0.024 0.981061
## f.22000.0.027   1.568e-02  3.990e-02   0.393 0.694395
## f.22000.0.028   1.039e-02  4.031e-02   0.258 0.796642
## f.22000.0.029   2.394e-02  4.000e-02   0.599 0.549477
## f.22000.0.03    7.539e-03  3.996e-02   0.189 0.850373
## f.22000.0.0-3   6.115e-03  4.023e-02   0.152 0.879178
## f.22000.0.030  -7.418e-03  4.002e-02  -0.185 0.852942
## f.22000.0.031   2.246e-02  4.021e-02   0.558 0.576505
## f.22000.0.032   3.527e-02  4.034e-02   0.874 0.381871
## f.22000.0.033   1.966e-02  4.105e-02   0.479 0.632076
## f.22000.0.034   4.084e-02  4.011e-02   1.018 0.308543
## f.22000.0.035   9.153e-02  4.020e-02   2.277 0.022799 *
## f.22000.0.036   7.114e-02  3.991e-02   1.783 0.074628 .
## f.22000.0.037  -7.617e-03  4.053e-02  -0.188 0.850916
## f.22000.0.038   7.767e-02  4.036e-02   1.924 0.054322 .
## f.22000.0.039   3.781e-02  4.083e-02   0.926 0.354440
## f.22000.0.04    1.669e-02  4.067e-02   0.410 0.681607
## f.22000.0.0-4   6.982e-02  4.091e-02   1.706 0.087936 .
## f.22000.0.040   6.639e-02  4.031e-02   1.647 0.099541 .
## f.22000.0.041   4.613e-02  4.088e-02   1.128 0.259123
## f.22000.0.042   1.482e-02  4.019e-02   0.369 0.712247
## f.22000.0.043  -5.313e-03  4.097e-02  -0.130 0.896835
## f.22000.0.044   6.625e-02  4.048e-02   1.637 0.101718
## f.22000.0.045   5.013e-02  4.050e-02   1.238 0.215808
## f.22000.0.046  -2.522e-02  4.073e-02  -0.619 0.535791
## f.22000.0.047   1.527e-02  4.078e-02   0.374 0.708052
## f.22000.0.048   1.866e-02  4.071e-02   0.458 0.646728
## f.22000.0.049   6.689e-02  4.073e-02   1.642 0.100535
## f.22000.0.05    1.989e-02  4.003e-02   0.497 0.619331
## f.22000.0.0-5   9.315e-02  4.044e-02   2.303 0.021259 *
## f.22000.0.050   1.084e-02  4.073e-02   0.266 0.790213
## f.22000.0.051   1.103e-01  4.012e-02   2.750 0.005964 **
```

```
## f.22000.0.052   3.797e-02  4.088e-02   0.929 0.353088
## f.22000.0.053  -1.460e-02  4.060e-02  -0.360 0.719086
## f.22000.0.054   5.421e-02  4.068e-02   1.332 0.182736
## f.22000.0.055   8.203e-02  4.107e-02   1.997 0.045812 *
## f.22000.0.056   7.804e-02  4.069e-02   1.918 0.055122 .
## f.22000.0.057   4.236e-02  4.085e-02   1.037 0.299727
## f.22000.0.058   3.184e-02  4.071e-02   0.782 0.434098
## f.22000.0.059   8.509e-02  4.050e-02   2.101 0.035662 *
## f.22000.0.06    5.427e-02  3.986e-02   1.361 0.173430
## f.22000.0.0-6   2.549e-02  4.082e-02   0.625 0.532238
## f.22000.0.060   1.508e-02  4.094e-02   0.368 0.712670
## f.22000.0.061   4.530e-02  4.117e-02   1.100 0.271169
## f.22000.0.062   2.919e-02  4.101e-02   0.712 0.476612
## f.22000.0.063   2.482e-02  4.099e-02   0.606 0.544771
## f.22000.0.064   1.056e-02  4.070e-02   0.259 0.795297
## f.22000.0.065   4.347e-02  4.091e-02   1.063 0.287984
## f.22000.0.066   6.030e-02  4.130e-02   1.460 0.144238
## f.22000.0.067   1.295e-02  4.087e-02   0.317 0.751313
## f.22000.0.068   5.669e-02  4.079e-02   1.390 0.164579
## f.22000.0.069   9.517e-03  4.095e-02   0.232 0.816226
## f.22000.0.07   -3.354e-03  4.020e-02  -0.083 0.933492
## f.22000.0.0-7   4.899e-02  4.054e-02   1.208 0.226912
## f.22000.0.070   1.950e-02  4.100e-02   0.475 0.634450
## f.22000.0.071  -1.108e-02  4.077e-02  -0.272 0.785832
## f.22000.0.072   2.381e-02  4.100e-02   0.581 0.561428
## f.22000.0.073   5.155e-02  4.101e-02   1.257 0.208818
## f.22000.0.074   7.813e-02  4.115e-02   1.899 0.057621 .
## f.22000.0.075   8.269e-02  4.075e-02   2.029 0.042436 *
## f.22000.0.076   6.015e-02  4.118e-02   1.461 0.144132
## f.22000.0.077   3.135e-02  4.095e-02   0.765 0.443982
## f.22000.0.078  -1.339e-02  4.073e-02  -0.329 0.742362
## f.22000.0.079   8.501e-04  4.062e-02   0.021 0.983302
## f.22000.0.08    2.676e-03  4.012e-02   0.067 0.946820
## f.22000.0.0-8   4.349e-02  4.074e-02   1.068 0.285695
## f.22000.0.080   6.556e-02  4.108e-02   1.596 0.110520
## f.22000.0.081   4.437e-02  4.159e-02   1.067 0.286119
## f.22000.0.082   8.526e-03  4.109e-02   0.207 0.835626
## f.22000.0.083   1.535e-03  4.115e-02   0.037 0.970238
## f.22000.0.084   5.654e-02  4.114e-02   1.374 0.169399
## f.22000.0.085   6.641e-02  4.104e-02   1.618 0.105608
## f.22000.0.086  -1.050e-02  4.111e-02  -0.255 0.798470
## f.22000.0.087   4.032e-02  4.107e-02   0.982 0.326216
## f.22000.0.088   2.019e-02  4.185e-02   0.482 0.629518
## f.22000.0.089   2.019e-02  4.152e-02   0.486 0.626853
## f.22000.0.09    7.267e-04  3.987e-02   0.018 0.985459
## f.22000.0.0-9   7.616e-02  4.076e-02   1.869 0.061679 .
## f.22000.0.090   4.599e-02  4.110e-02   1.119 0.263214
## f.22000.0.091   4.756e-03  4.245e-02   0.112 0.910808
## f.22000.0.092   4.074e-02  4.119e-02   0.989 0.322648
## f.22000.0.093   4.137e-02  4.111e-02   1.006 0.314323
## f.22000.0.094   2.721e-03  5.255e-02   0.052 0.958705
## f.22000.0.095   1.517e-02  4.385e-02   0.346 0.729383
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9731637)
##
##     Null deviance: 119166  on 119166  degrees of freedom
## Residual deviance: 115844  on 119039  degrees of freedom
##   (700 observations deleted due to missingness)
## AIC: 335070
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.787349e-02     2.570844e-02     2.748838e-02     4.348619e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.787349e-02     6.960484e-01     2.760753e-05
##              AIC    Corrected.AIC
##     1.161004e+05     1.161007e+05
```

```
b = glm( lifenotworthliving ~   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.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.22009.0.5 + 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
## -1.1395  -0.7005  -0.5352   1.3147   1.9306
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.341e+01  7.398e-01 -45.155  < 2e-16 ***
## f.22009.0.1     1.009e-02  2.986e-03   3.378  0.00073 ***
## f.22009.0.2    -1.984e-03  2.912e-03  -0.681  0.49563
## f.22009.0.3    -1.978e-03  2.946e-03  -0.671  0.50210
## f.22009.0.5    -1.108e-03  3.125e-03  -0.354  0.72301
## f.22009.0.6    -1.509e-04  2.957e-03  -0.051  0.95930
## f.22009.0.7    -6.710e-03  3.003e-03  -2.235  0.02544 *
## f.22009.0.8     5.042e-03  3.194e-03   1.579  0.11441
## f.22009.0.9    -5.921e-03  3.033e-03  -1.952  0.05093 .
## f.22009.0.10    2.323e-03  3.479e-03   0.668  0.50419
## f.22009.0.11   -5.351e-03  4.051e-03  -1.321  0.18652
## f.22009.0.12    5.462e-04  3.570e-03   0.153  0.87843
## f.22009.0.13   -2.896e-03  2.905e-03  -0.997  0.31880
## f.22009.0.14   -1.888e-02  3.070e-03  -6.149  7.8e-10 ***
## f.22009.0.15   -2.140e-03  3.145e-03  -0.681  0.49617
## f.22009.0.16   -6.947e-03  3.085e-03  -2.252  0.02434 *
## f.22009.0.17    9.258e-04  2.865e-03   0.323  0.74661
## f.22009.0.18   -1.331e-03  2.872e-03  -0.463  0.64315
## f.22009.0.19    1.191e-03  2.861e-03   0.416  0.67707
## f.22009.0.20    3.097e-03  2.866e-03   1.081  0.27983
## f.22001.0.01   -1.633e-01  5.777e-03 -28.257  < 2e-16 ***
## f.34.0.0        1.713e-02  3.786e-04  45.259  < 2e-16 ***
## f.22000.0.0-1   6.022e-02  4.039e-02   1.491  0.13597
## f.22000.0.010   6.401e-03  4.085e-02   0.157  0.87547
## f.22000.0.0-10  8.426e-02  4.103e-02   2.054  0.04002 *
## f.22000.0.011   7.167e-02  4.017e-02   1.784  0.07439 .
## f.22000.0.0-11  5.097e-02  4.068e-02   1.253  0.21023
## f.22000.0.012   2.256e-02  4.043e-02   0.558  0.57680
## f.22000.0.013   5.282e-03  4.030e-02   0.131  0.89572
## f.22000.0.014   6.503e-02  4.004e-02   1.624  0.10430
## f.22000.0.015   5.180e-02  4.033e-02   1.285  0.19896
## f.22000.0.016   9.152e-02  4.054e-02   2.257  0.02398 *
## f.22000.0.017   6.890e-02  4.017e-02   1.715  0.08632 .
## f.22000.0.018  -2.454e-02  4.057e-02  -0.605  0.54515
## f.22000.0.019   4.820e-02  3.978e-02   1.212  0.22568
## f.22000.0.02    7.852e-03  3.993e-02   0.197  0.84413
## f.22000.0.0-2   9.571e-02  4.064e-02   2.355  0.01853 *
## f.22000.0.020   2.690e-02  4.046e-02   0.665  0.50620
## f.22000.0.021   5.380e-02  4.034e-02   1.334  0.18227
## f.22000.0.022   3.457e-02  4.032e-02   0.857  0.39118
## f.22000.0.023   2.679e-02  4.030e-02   0.665  0.50628
## f.22000.0.024   1.234e-02  3.980e-02   0.310  0.75645
```

```
## f.22000.0.025   3.767e-02  4.081e-02   0.923  0.35599
## f.22000.0.026  -1.179e-03  4.058e-02  -0.029  0.97682
## f.22000.0.027   1.532e-02  3.992e-02   0.384  0.70114
## f.22000.0.028   9.573e-03  4.033e-02   0.237  0.81237
## f.22000.0.029   2.408e-02  4.002e-02   0.602  0.54730
## f.22000.0.03    6.816e-03  3.998e-02   0.170  0.86464
## f.22000.0.0-3   6.197e-03  4.025e-02   0.154  0.87763
## f.22000.0.030  -7.158e-03  4.004e-02  -0.179  0.85810
## f.22000.0.031   2.313e-02  4.023e-02   0.575  0.56538
## f.22000.0.032   3.547e-02  4.035e-02   0.879  0.37944
## f.22000.0.033   1.939e-02  4.107e-02   0.472  0.63678
## f.22000.0.034   4.073e-02  4.013e-02   1.015  0.31008
## f.22000.0.035   9.110e-02  4.022e-02   2.265  0.02352 *
## f.22000.0.036   7.145e-02  3.993e-02   1.790  0.07353 .
## f.22000.0.037  -8.585e-03  4.055e-02  -0.212  0.83230
## f.22000.0.038   7.656e-02  4.038e-02   1.896  0.05796 .
## f.22000.0.039   3.873e-02  4.085e-02   0.948  0.34311
## f.22000.0.04    1.673e-02  4.069e-02   0.411  0.68101
## f.22000.0.0-4   6.978e-02  4.093e-02   1.705  0.08824 .
## f.22000.0.040   6.531e-02  4.033e-02   1.619  0.10535
## f.22000.0.041   4.482e-02  4.090e-02   1.096  0.27321
## f.22000.0.042   1.451e-02  4.021e-02   0.361  0.71832
## f.22000.0.043  -5.879e-03  4.099e-02  -0.143  0.88597
## f.22000.0.044   6.465e-02  4.050e-02   1.596  0.11041
## f.22000.0.045   5.107e-02  4.052e-02   1.261  0.20747
## f.22000.0.046  -2.340e-02  4.075e-02  -0.574  0.56574
## f.22000.0.047   1.394e-02  4.080e-02   0.342  0.73253
## f.22000.0.048   1.649e-02  4.073e-02   0.405  0.68566
## f.22000.0.049   6.575e-02  4.075e-02   1.613  0.10666
## f.22000.0.05    1.822e-02  4.005e-02   0.455  0.64916
## f.22000.0.0-5   9.133e-02  4.046e-02   2.257  0.02400 *
## f.22000.0.050   9.571e-03  4.075e-02   0.235  0.81429
## f.22000.0.051   1.093e-01  4.014e-02   2.723  0.00647 **
## f.22000.0.052   3.679e-02  4.090e-02   0.899  0.36849
## f.22000.0.053  -1.546e-02  4.062e-02  -0.381  0.70344
## f.22000.0.054   5.419e-02  4.070e-02   1.331  0.18307
## f.22000.0.055   8.295e-02  4.109e-02   2.019  0.04352 *
## f.22000.0.056   7.644e-02  4.071e-02   1.878  0.06045 .
## f.22000.0.057   4.218e-02  4.087e-02   1.032  0.30196
## f.22000.0.058   3.093e-02  4.073e-02   0.759  0.44764
## f.22000.0.059   8.533e-02  4.052e-02   2.106  0.03525 *
## f.22000.0.06    5.420e-02  3.988e-02   1.359  0.17419
## f.22000.0.0-6   2.536e-02  4.084e-02   0.621  0.53462
## f.22000.0.060   1.418e-02  4.096e-02   0.346  0.72919
## f.22000.0.061   4.557e-02  4.119e-02   1.106  0.26860
## f.22000.0.062   3.034e-02  4.103e-02   0.739  0.45961
## f.22000.0.063   2.466e-02  4.101e-02   0.601  0.54761
## f.22000.0.064   9.630e-03  4.072e-02   0.237  0.81304
## f.22000.0.065   4.348e-02  4.093e-02   1.062  0.28816
## f.22000.0.066   5.911e-02  4.132e-02   1.431  0.15250
## f.22000.0.067   1.189e-02  4.089e-02   0.291  0.77131
## f.22000.0.068   5.610e-02  4.081e-02   1.375  0.16919
## f.22000.0.069   7.919e-03  4.097e-02   0.193  0.84673
## f.22000.0.07   -4.053e-03  4.022e-02  -0.101  0.91973
## f.22000.0.0-7   4.770e-02  4.056e-02   1.176  0.23958
## f.22000.0.070   2.023e-02  4.102e-02   0.493  0.62193
## f.22000.0.071  -9.910e-03  4.079e-02  -0.243  0.80804
## f.22000.0.072   2.508e-02  4.102e-02   0.611  0.54097
## f.22000.0.073   5.028e-02  4.103e-02   1.225  0.22044
## f.22000.0.074   7.782e-02  4.117e-02   1.890  0.05875 .
## f.22000.0.075   8.319e-02  4.077e-02   2.041  0.04130 *
## f.22000.0.076   6.131e-02  4.120e-02   1.488  0.13675
## f.22000.0.077   3.003e-02  4.097e-02   0.733  0.46365
## f.22000.0.078  -1.529e-02  4.075e-02  -0.375  0.70749
## f.22000.0.079   2.279e-03  4.064e-02   0.056  0.95528
## f.22000.0.08    4.022e-03  4.014e-02   0.100  0.92019
## f.22000.0.0-8   4.268e-02  4.076e-02   1.047  0.29502
## f.22000.0.080   6.513e-02  4.110e-02   1.585  0.11307
## f.22000.0.081   4.339e-02  4.161e-02   1.043  0.29707
## f.22000.0.082   9.008e-03  4.111e-02   0.219  0.82655
## f.22000.0.083   5.461e-04  4.117e-02   0.013  0.98942
## f.22000.0.084   5.788e-02  4.116e-02   1.406  0.15968
## f.22000.0.085   6.768e-02  4.106e-02   1.648  0.09927
```

```
## f.22000.0.085   6.768e-02  4.106e-02   1.648  0.09927 .
## f.22000.0.086  -1.152e-02  4.113e-02  -0.280  0.77937
## f.22000.0.087   4.071e-02  4.109e-02   0.991  0.32180
## f.22000.0.088   2.020e-02  4.187e-02   0.483  0.62942
## f.22000.0.089   2.172e-02  4.154e-02   0.523  0.60106
## f.22000.0.09   -6.392e-05  3.989e-02  -0.002  0.99872
## f.22000.0.0-9   7.501e-02  4.078e-02   1.840  0.06583 .
## f.22000.0.090   4.576e-02  4.112e-02   1.113  0.26583
## f.22000.0.091   2.817e-03  4.247e-02   0.066  0.94711
## f.22000.0.092   4.160e-02  4.121e-02   1.009  0.31283
## f.22000.0.093   4.142e-02  4.113e-02   1.007  0.31391
## f.22000.0.094   1.074e-03  5.258e-02   0.020  0.98371
## f.22000.0.095   1.567e-02  4.387e-02   0.357  0.72104
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9741073)
##
##     Null deviance: 119166  on 119166  degrees of freedom
## Residual deviance: 115958  on 119040  degrees of freedom
##   (700 observations deleted due to missingness)
## AIC: 335184
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.692272e-02     2.477445e-02     2.656331e-02     4.202274e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.692272e-02               NA               NA
##              AIC    Corrected.AIC
##     1.162117e+05     1.162120e+05
```

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

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


a = glm(contemplateselfharm ~  `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = contemplateselfharm ~ `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.9336  -0.4913  -0.3514  -0.2055   2.8512
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.551e+01  7.387e-01 -48.066  < 2e-16 ***
## `0.500000`      2.973e-02  2.858e-03  10.404  < 2e-16 ***
## f.22009.0.1     7.537e-03  2.981e-03   2.529 0.011450 *
## f.22009.0.2    -1.295e-03  2.907e-03  -0.445 0.655975
## f.22009.0.3     1.507e-03  2.942e-03   0.512 0.608366
## f.22009.0.5    -4.781e-03  3.122e-03  -1.532 0.125640
## f.22009.0.6    -2.047e-03  2.952e-03  -0.693 0.488094
## f.22009.0.7    -7.202e-03  2.998e-03  -2.402 0.016302 *
```

```
## f.22009.0.8     7.399e-03  3.188e-03   2.321 0.020309 *
## f.22009.0.9    -1.157e-02  3.028e-03  -3.821 0.000133 ***
## f.22009.0.10   -9.693e-04  3.474e-03  -0.279 0.780233
## f.22009.0.11    1.596e-03  4.045e-03   0.394 0.693262
## f.22009.0.12    2.203e-03  3.564e-03   0.618 0.536415
## f.22009.0.13   -3.065e-03  2.900e-03  -1.057 0.290489
## f.22009.0.14   -1.296e-02  3.065e-03  -4.229 2.35e-05 ***
## f.22009.0.15    1.773e-04  3.140e-03   0.056 0.954957
## f.22009.0.16   -1.072e-02  3.080e-03  -3.479 0.000504 ***
## f.22009.0.17   -1.202e-04  2.861e-03  -0.042 0.966477
## f.22009.0.18    1.188e-03  2.867e-03   0.414 0.678582
## f.22009.0.19    4.554e-03  2.857e-03   1.594 0.110906
## f.22009.0.20    4.139e-04  2.861e-03   0.145 0.884968
## f.22001.0.01   -1.345e-01  5.769e-03 -23.322  < 2e-16 ***
## f.34.0.0        1.823e-02  3.780e-04  48.220  < 2e-16 ***
## f.22000.0.0-1  -7.249e-03  4.034e-02  -0.180 0.857379
## f.22000.0.010  -5.596e-02  4.080e-02  -1.372 0.170179
## f.22000.0.0-10  6.410e-02  4.102e-02   1.563 0.118097
## f.22000.0.011   2.807e-02  4.012e-02   0.700 0.484177
## f.22000.0.0-11  2.419e-02  4.068e-02   0.595 0.552078
## f.22000.0.012  -1.515e-02  4.039e-02  -0.375 0.707555
## f.22000.0.013  -4.138e-02  4.024e-02  -1.028 0.303753
## f.22000.0.014  -2.182e-02  3.999e-02  -0.546 0.585251
## f.22000.0.015   2.460e-02  4.030e-02   0.611 0.541528
## f.22000.0.016  -6.370e-03  4.048e-02  -0.157 0.874959
## f.22000.0.017  -1.560e-02  4.013e-02  -0.389 0.697440
## f.22000.0.018  -3.658e-02  4.048e-02  -0.904 0.366088
## f.22000.0.019  -1.651e-02  3.977e-02  -0.415 0.678125
## f.22000.0.02   -4.574e-02  3.990e-02  -1.146 0.251636
## f.22000.0.0-2   4.058e-02  4.061e-02   0.999 0.317711
## f.22000.0.020  -4.443e-02  4.043e-02  -1.099 0.271767
## f.22000.0.021   1.022e-02  4.030e-02   0.254 0.799800
## f.22000.0.022   6.432e-03  4.028e-02   0.160 0.873127
## f.22000.0.023  -2.534e-02  4.028e-02  -0.629 0.529285
## f.22000.0.024  -6.920e-03  3.975e-02  -0.174 0.861782
## f.22000.0.025  -7.678e-03  4.077e-02  -0.188 0.850628
## f.22000.0.026  -7.163e-02  4.048e-02  -1.769 0.076834 .
## f.22000.0.027  -2.597e-02  3.986e-02  -0.652 0.514703
## f.22000.0.028  -9.718e-03  4.028e-02  -0.241 0.809328
## f.22000.0.029  -6.063e-03  4.001e-02  -0.152 0.879558
## f.22000.0.03    2.304e-02  3.994e-02   0.577 0.563985
## f.22000.0.0-3  -3.069e-02  4.019e-02  -0.764 0.445126
## f.22000.0.030  -3.032e-02  3.999e-02  -0.758 0.448444
## f.22000.0.031  -5.424e-02  4.014e-02  -1.351 0.176563
## f.22000.0.032  -5.991e-02  4.034e-02  -1.485 0.137497
## f.22000.0.033  -3.196e-02  4.106e-02  -0.778 0.436334
## f.22000.0.034   2.393e-02  4.008e-02   0.597 0.550576
## f.22000.0.035   3.407e-02  4.015e-02   0.848 0.396170
## f.22000.0.036  -3.504e-02  3.993e-02  -0.877 0.380243
## f.22000.0.037  -1.296e-02  4.048e-02  -0.320 0.748841
## f.22000.0.038  -1.444e-02  4.029e-02  -0.358 0.720122
## f.22000.0.039  -1.058e-03  4.079e-02  -0.026 0.979311
## f.22000.0.04   -2.082e-02  4.063e-02  -0.512 0.608309
## f.22000.0.0-4   4.056e-03  4.089e-02   0.099 0.920978
## f.22000.0.040   6.700e-04  4.030e-02   0.017 0.986736
## f.22000.0.041  -2.273e-02  4.089e-02  -0.556 0.578176
## f.22000.0.042  -3.629e-02  4.016e-02  -0.903 0.366271
## f.22000.0.043  -8.526e-02  4.093e-02  -2.083 0.037226 *
## f.22000.0.044   5.957e-02  4.046e-02   1.472 0.140995
## f.22000.0.045  -5.901e-02  4.050e-02  -1.457 0.145104
## f.22000.0.046  -7.026e-02  4.072e-02  -1.725 0.084452 .
## f.22000.0.047  -4.498e-02  4.071e-02  -1.105 0.269206
## f.22000.0.048  -5.472e-03  4.068e-02  -0.135 0.892998
## f.22000.0.049   2.702e-02  4.071e-02   0.664 0.506837
## f.22000.0.05   -3.089e-02  3.998e-02  -0.773 0.439747
## f.22000.0.0-5   1.557e-02  4.044e-02   0.385 0.700262
## f.22000.0.050  -1.502e-02  4.072e-02  -0.369 0.712322
## f.22000.0.051   3.407e-02  4.012e-02   0.849 0.395822
## f.22000.0.052   2.306e-03  4.086e-02   0.056 0.954996
## f.22000.0.053  -2.952e-02  4.055e-02  -0.728 0.466715
## f.22000.0.054   5.714e-02  4.068e-02   1.405 0.160097
## f.22000.0.055   1.060e-02  4.101e-02   0.258 0.796139
## f.22000.0.056   2.482e-02  4.068e-02   0.610 0.541704
```

```
## f.22000.0.056   2.482e-02  4.066e-02   0.610 0.541704
## f.22000.0.057   3.761e-02  4.084e-02   0.921 0.357039
## f.22000.0.058  -1.808e-02  4.066e-02  -0.445 0.656478
## f.22000.0.059  -3.007e-02  4.053e-02  -0.742 0.458254
## f.22000.0.06   -5.411e-04  3.985e-02  -0.014 0.989167
## f.22000.0.0-6   3.843e-02  4.075e-02   0.943 0.345612
## f.22000.0.060  -5.372e-02  4.087e-02  -1.315 0.188653
## f.22000.0.061  -9.840e-03  4.113e-02  -0.239 0.810937
## f.22000.0.062   2.570e-02  4.097e-02   0.627 0.530441
## f.22000.0.063  -1.528e-02  4.097e-02  -0.373 0.709153
## f.22000.0.064  -3.471e-02  4.069e-02  -0.853 0.393661
## f.22000.0.065  -6.446e-02  4.089e-02  -1.576 0.114935
## f.22000.0.066  -4.997e-02  4.129e-02  -1.210 0.226170
## f.22000.0.067  -5.115e-02  4.092e-02  -1.250 0.211339
## f.22000.0.068  -2.546e-02  4.078e-02  -0.624 0.532374
## f.22000.0.069   2.880e-03  4.092e-02   0.070 0.943898
## f.22000.0.07   -6.765e-02  4.016e-02  -1.685 0.092049 .
## f.22000.0.0-7   2.474e-02  4.052e-02   0.610 0.541551
## f.22000.0.070  -3.444e-02  4.096e-02  -0.841 0.400444
## f.22000.0.071  -9.010e-03  4.074e-02  -0.221 0.824988
## f.22000.0.072  -4.328e-02  4.099e-02  -1.056 0.291066
## f.22000.0.073  -4.872e-02  4.098e-02  -1.189 0.234450
## f.22000.0.074  -2.247e-02  4.113e-02  -0.546 0.584844
## f.22000.0.075   3.365e-02  4.073e-02   0.826 0.408796
## f.22000.0.076   7.279e-04  4.118e-02   0.018 0.985896
## f.22000.0.077   4.245e-03  4.096e-02   0.104 0.917459
## f.22000.0.078  -2.789e-02  4.068e-02  -0.686 0.492988
## f.22000.0.079   5.088e-03  4.063e-02   0.125 0.900344
## f.22000.0.08   -1.270e-02  4.011e-02  -0.317 0.751606
## f.22000.0.0-8   1.166e-02  4.071e-02   0.287 0.774494
## f.22000.0.080  -2.092e-03  4.105e-02  -0.051 0.959362
## f.22000.0.081  -2.826e-02  4.155e-02  -0.680 0.496421
## f.22000.0.082  -6.105e-02  4.102e-02  -1.488 0.136724
## f.22000.0.083  -1.324e-03  4.114e-02  -0.032 0.974315
## f.22000.0.084  -6.543e-03  4.116e-02  -0.159 0.873678
## f.22000.0.085  -2.631e-02  4.100e-02  -0.642 0.521057
## f.22000.0.086  -1.633e-02  4.108e-02  -0.397 0.691024
## f.22000.0.087   3.069e-02  4.106e-02   0.747 0.454770
## f.22000.0.088  -6.924e-03  4.180e-02  -0.166 0.868418
## f.22000.0.089  -2.380e-02  4.148e-02  -0.574 0.566089
## f.22000.0.09   -2.390e-02  3.988e-02  -0.599 0.548885
## f.22000.0.0-9   5.054e-02  4.074e-02   1.241 0.214750
## f.22000.0.090  -1.708e-02  4.110e-02  -0.416 0.677740
## f.22000.0.091  -5.128e-02  4.247e-02  -1.207 0.227265
## f.22000.0.092  -3.275e-02  4.118e-02  -0.795 0.426368
## f.22000.0.093  -2.824e-02  4.110e-02  -0.687 0.491995
## f.22000.0.094   2.131e-02  5.252e-02   0.406 0.684986
## f.22000.0.095  -4.572e-02  4.384e-02  -1.043 0.297004
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9733052)
##
##     Null deviance: 119450  on 119450  degrees of freedom
## Residual deviance: 116138  on 119323  degrees of freedom
##   (416 observations deleted due to missingness)
## AIC: 335885
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.772960e-02     2.556971e-02     2.734844e-02     4.326481e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.772960e-02     8.561418e-01    -5.819706e-05
##              AIC    Corrected.AIC
##     1.163937e+05     1.163940e+05
```

```
b = glm( contemplateselfharm ~   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.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.22009.0.5 + 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
## -0.8910  -0.4903  -0.3519  -0.2081   2.8356
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.552e+01  7.390e-01 -48.058  < 2e-16 ***
## f.22009.0.1     7.775e-03  2.982e-03   2.608 0.009119 **
## f.22009.0.2    -1.399e-03  2.909e-03  -0.481 0.630437
## f.22009.0.3     1.410e-03  2.943e-03   0.479 0.631918
## f.22009.0.5    -4.043e-03  3.122e-03  -1.295 0.195367
## f.22009.0.6    -1.895e-03  2.954e-03  -0.642 0.521097
## f.22009.0.7    -7.452e-03  2.999e-03  -2.485 0.012970 *
## f.22009.0.8     7.306e-03  3.190e-03   2.290 0.022006 *
## f.22009.0.9    -1.162e-02  3.030e-03  -3.836 0.000125 ***
## f.22009.0.10   -9.757e-04  3.476e-03  -0.281 0.778919
## f.22009.0.11    2.002e-03  4.047e-03   0.495 0.620883
## f.22009.0.12    2.275e-03  3.566e-03   0.638 0.523420
## f.22009.0.13   -3.066e-03  2.901e-03  -1.057 0.290690
## f.22009.0.14   -1.328e-02  3.066e-03  -4.330 1.49e-05 ***
## f.22009.0.15    1.635e-04  3.141e-03   0.052 0.958487
## f.22009.0.16   -1.067e-02  3.082e-03  -3.464 0.000533 ***
## f.22009.0.17   -2.077e-04  2.862e-03  -0.073 0.942149
## f.22009.0.18    1.093e-03  2.869e-03   0.381 0.703296
## f.22009.0.19    4.649e-03  2.858e-03   1.627 0.103789
## f.22009.0.20    6.685e-04  2.862e-03   0.234 0.815310
## f.22001.0.01   -1.351e-01  5.771e-03 -23.412  < 2e-16 ***
## f.34.0.0        1.823e-02  3.782e-04  48.213  < 2e-16 ***
## f.22000.0.0-1  -7.958e-03  4.036e-02  -0.197 0.843678
## f.22000.0.010  -5.616e-02  4.082e-02  -1.376 0.168902
## f.22000.0.0-10  6.256e-02  4.103e-02   1.525 0.127365
## f.22000.0.011   2.777e-02  4.014e-02   0.692 0.489018
## f.22000.0.0-11  2.453e-02  4.070e-02   0.603 0.546599
## f.22000.0.012  -1.552e-02  4.041e-02  -0.384 0.700900
## f.22000.0.013  -4.321e-02  4.026e-02  -1.073 0.283084
## f.22000.0.014  -2.262e-02  4.000e-02  -0.566 0.571709
## f.22000.0.015   2.420e-02  4.032e-02   0.600 0.548375
## f.22000.0.016  -7.116e-03  4.050e-02  -0.176 0.860529
## f.22000.0.017  -1.522e-02  4.015e-02  -0.379 0.704579
## f.22000.0.018  -3.618e-02  4.050e-02  -0.893 0.371638
## f.22000.0.019  -1.819e-02  3.979e-02  -0.457 0.647534
## f.22000.0.02   -4.561e-02  3.992e-02  -1.143 0.253215
## f.22000.0.0-2   4.085e-02  4.063e-02   1.005 0.314696
## f.22000.0.020  -4.507e-02  4.044e-02  -1.114 0.265121
## f.22000.0.021   9.875e-03  4.032e-02   0.245 0.806520
## f.22000.0.022   5.622e-03  4.030e-02   0.140 0.889048
## f.22000.0.023  -2.546e-02  4.030e-02  -0.632 0.527515
## f.22000.0.024  -7.494e-03  3.977e-02  -0.188 0.850533
## f.22000.0.025  -7.468e-03  4.079e-02  -0.183 0.854736
## f.22000.0.026  -7.374e-02  4.050e-02  -1.821 0.068638 .
## f.22000.0.027  -2.612e-02  3.988e-02  -0.655 0.512550
## f.22000.0.028  -1.040e-02  4.029e-02  -0.258 0.796364
## f.22000.0.029  -5.930e-03  4.003e-02  -0.148 0.882233
## f.22000.0.03    2.236e-02  3.996e-02   0.559 0.575856
## f.22000.0.0-3  -3.057e-02  4.021e-02  -0.760 0.447009
## f.22000.0.030  -3.012e-02  4.001e-02  -0.753 0.451639
```

```
## f.22000.0.030  -3.012e-02  4.001e-02  -0.753 0.451659
## f.22000.0.031  -5.349e-02  4.016e-02  -1.332 0.182841
## f.22000.0.032  -5.966e-02  4.036e-02  -1.478 0.139290
## f.22000.0.033  -3.229e-02  4.108e-02  -0.786 0.431827
## f.22000.0.034   2.389e-02  4.010e-02   0.596 0.551357
## f.22000.0.035   3.362e-02  4.017e-02   0.837 0.402651
## f.22000.0.036  -3.484e-02  3.995e-02  -0.872 0.383152
## f.22000.0.037  -1.379e-02  4.050e-02  -0.340 0.733558
## f.22000.0.038  -1.554e-02  4.031e-02  -0.386 0.699823
## f.22000.0.039  -2.845e-04  4.081e-02  -0.007 0.994437
## f.22000.0.04   -2.102e-02  4.065e-02  -0.517 0.605085
## f.22000.0.0-4   4.099e-03  4.091e-02   0.100 0.920182
## f.22000.0.040  -3.975e-04  4.032e-02  -0.010 0.992134
## f.22000.0.041  -2.409e-02  4.090e-02  -0.589 0.555897
## f.22000.0.042  -3.651e-02  4.018e-02  -0.909 0.363551
## f.22000.0.043  -8.580e-02  4.094e-02  -2.096 0.036125 *
## f.22000.0.044   5.804e-02  4.048e-02   1.434 0.151665
## f.22000.0.045  -5.806e-02  4.052e-02  -1.433 0.151904
## f.22000.0.046  -6.846e-02  4.074e-02  -1.680 0.092879 .
## f.22000.0.047  -4.619e-02  4.073e-02  -1.134 0.256799
## f.22000.0.048  -7.571e-03  4.070e-02  -0.186 0.852415
## f.22000.0.049   2.596e-02  4.072e-02   0.637 0.523823
## f.22000.0.05   -3.248e-02  4.000e-02  -0.812 0.416801
## f.22000.0.0-5   1.374e-02  4.045e-02   0.340 0.734134
## f.22000.0.050  -1.623e-02  4.074e-02  -0.398 0.690443
## f.22000.0.051   3.314e-02  4.014e-02   0.826 0.409021
## f.22000.0.052   1.229e-03  4.088e-02   0.030 0.976016
## f.22000.0.053  -3.039e-02  4.057e-02  -0.749 0.453856
## f.22000.0.054   5.713e-02  4.069e-02   1.404 0.160385
## f.22000.0.055   1.157e-02  4.103e-02   0.282 0.777886
## f.22000.0.056   2.328e-02  4.069e-02   0.572 0.567306
## f.22000.0.057   3.743e-02  4.086e-02   0.916 0.359575
## f.22000.0.058  -1.896e-02  4.068e-02  -0.466 0.641050
## f.22000.0.059  -2.976e-02  4.055e-02  -0.734 0.463000
## f.22000.0.06   -5.750e-04  3.987e-02  -0.014 0.988493
## f.22000.0.0-6   3.830e-02  4.077e-02   0.939 0.347523
## f.22000.0.060  -5.452e-02  4.088e-02  -1.333 0.182406
## f.22000.0.061  -9.612e-03  4.115e-02  -0.234 0.815305
## f.22000.0.062   2.685e-02  4.099e-02   0.655 0.512503
## f.22000.0.063  -1.540e-02  4.099e-02  -0.376 0.707163
## f.22000.0.064  -3.555e-02  4.071e-02  -0.873 0.382575
## f.22000.0.065  -6.461e-02  4.091e-02  -1.580 0.114219
## f.22000.0.066  -5.116e-02  4.131e-02  -1.239 0.215524
## f.22000.0.067  -5.223e-02  4.094e-02  -1.276 0.202029
## f.22000.0.068  -2.602e-02  4.080e-02  -0.638 0.523661
## f.22000.0.069   1.373e-03  4.094e-02   0.034 0.973247
## f.22000.0.07   -6.849e-02  4.017e-02  -1.705 0.088242 .
## f.22000.0.0-7   2.341e-02  4.054e-02   0.577 0.563625
## f.22000.0.070  -3.375e-02  4.097e-02  -0.824 0.410125
## f.22000.0.071  -7.735e-03  4.076e-02  -0.190 0.849487
## f.22000.0.072  -4.206e-02  4.101e-02  -1.025 0.305149
## f.22000.0.073  -4.993e-02  4.099e-02  -1.218 0.223251
## f.22000.0.074  -2.274e-02  4.115e-02  -0.553 0.580564
## f.22000.0.075   3.419e-02  4.075e-02   0.839 0.401480
## f.22000.0.076   1.918e-03  4.119e-02   0.047 0.962859
## f.22000.0.077   2.899e-03  4.098e-02   0.071 0.943614
## f.22000.0.078  -2.960e-02  4.069e-02  -0.727 0.467069
## f.22000.0.079   6.418e-03  4.065e-02   0.158 0.874536
## f.22000.0.08   -1.135e-02  4.013e-02  -0.283 0.777258
## f.22000.0.0-8   1.105e-02  4.073e-02   0.271 0.786161
## f.22000.0.080  -2.399e-03  4.107e-02  -0.058 0.953426
## f.22000.0.081  -2.913e-02  4.157e-02  -0.701 0.483477
## f.22000.0.082  -6.068e-02  4.104e-02  -1.479 0.139268
## f.22000.0.083  -2.213e-03  4.115e-02  -0.054 0.957126
## f.22000.0.084  -5.052e-03  4.117e-02  -0.123 0.902335
## f.22000.0.085  -2.498e-02  4.102e-02  -0.609 0.542506
## f.22000.0.086  -1.724e-02  4.110e-02  -0.419 0.674921
## f.22000.0.087   3.095e-02  4.108e-02   0.753 0.451197
## f.22000.0.088  -6.927e-03  4.181e-02  -0.166 0.868434
## f.22000.0.089  -2.242e-02  4.150e-02  -0.540 0.589088
## f.22000.0.09   -2.461e-02  3.989e-02  -0.617 0.537245
## f.22000.0.0-9   4.935e-02  4.076e-02   1.211 0.225983
## f.22000.0.090  -1.729e-02  4.111e-02  -0.420 0.674152
```

```
## f.22000.0.091  -5.315e-02  4.249e-02  -1.251 0.210903
## f.22000.0.092  -3.194e-02  4.119e-02  -0.775 0.438079
## f.22000.0.093  -2.808e-02  4.112e-02  -0.683 0.494566
## f.22000.0.094   1.993e-02  5.254e-02   0.379 0.704474
## f.22000.0.095  -4.527e-02  4.386e-02  -1.032 0.302026
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9741801)
##
##     Null deviance: 119450  on 119450  degrees of freedom
## Residual deviance: 116243  on 119324  degrees of freedom
##   (416 observations deleted due to missingness)
## AIC: 335991
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     2.684755e-02     2.470439e-02     2.649014e-02     4.190698e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     2.684755e-02               NA               NA
##              AIC    Corrected.AIC
##     1.164971e+05     1.164973e+05
```

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

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

a = glm(f.20480.0.0 ~  `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)

summary(a)
```

```
##
## Call:
## glm(formula = f.20480.0.0 ~ `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.6016  -0.2841  -0.1927  -0.1067   5.0819
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.408e+01  7.437e-01 -32.381  < 2e-16 ***
## `0.500000`      2.447e-02  2.876e-03   8.509  < 2e-16 ***
## f.22009.0.1     6.154e-03  3.000e-03   2.051 0.040262 *
## f.22009.0.2    -5.639e-03  2.927e-03  -1.926 0.054064 .
## f.22009.0.3    -3.830e-03  2.961e-03  -1.293 0.195919
## f.22009.0.5    -1.805e-03  3.142e-03  -0.574 0.565676
## f.22009.0.6     5.218e-04  2.972e-03   0.176 0.860645
## f.22009.0.7    -5.013e-03  3.019e-03  -1.661 0.096787 .
## f.22009.0.8     2.356e-03  3.210e-03   0.734 0.462992
## f.22009.0.9    -1.118e-02  3.049e-03  -3.668 0.000245 ***
## f.22009.0.10    1.802e-03  3.496e-03   0.515 0.606375
## f.22009.0.11   -4.698e-03  4.072e-03  -1.154 0.248613
## f.22009.0.12   -2.641e-03  3.587e-03  -0.736 0.461618
## f.22009.0.13    4.215e-04  2.919e-03   0.144 0.885195
## f.22009.0.14   -5.389e-03  3.085e-03  -1.747 0.080692 .
## f.22009.0.15   -1.623e-03  3.161e-03  -0.513 0.607606
## f.22009.0.16   -7.273e-03  3.100e-03  -2.346 0.018982 *
## f.22009.0.17    3.357e-03  2.880e-03   1.166 0.243715
```

```
## f.22009.0.17    3.357e-03  2.880e-03   1.166 0.243715
## f.22009.0.18   -2.179e-05  2.887e-03  -0.008 0.993977
## f.22009.0.19    9.992e-04  2.876e-03   0.347 0.728253
## f.22009.0.20   -8.271e-04  2.880e-03  -0.287 0.773961
## f.22001.0.01   -9.580e-02  5.807e-03 -16.498  < 2e-16 ***
## f.34.0.0        1.236e-02  3.806e-04  32.474  < 2e-16 ***
## f.22000.0.0-1   8.049e-02  4.055e-02   1.985 0.047178 *
## f.22000.0.010  -3.937e-02  4.103e-02  -0.960 0.337227
## f.22000.0.0-10  6.376e-02  4.123e-02   1.546 0.122035
## f.22000.0.011   6.438e-02  4.036e-02   1.595 0.110654
## f.22000.0.0-11  3.101e-02  4.092e-02   0.758 0.448608
## f.22000.0.012  -4.336e-02  4.067e-02  -1.066 0.286396
## f.22000.0.013  -9.755e-03  4.048e-02  -0.241 0.809564
## f.22000.0.014  -3.352e-02  4.023e-02  -0.833 0.404788
## f.22000.0.015   2.172e-02  4.051e-02   0.536 0.591892
## f.22000.0.016   1.503e-02  4.069e-02   0.369 0.711859
## f.22000.0.017   2.644e-04  4.034e-02   0.007 0.994771
## f.22000.0.018   2.040e-02  4.069e-02   0.501 0.616153
## f.22000.0.019  -1.878e-02  3.994e-02  -0.470 0.638156
## f.22000.0.02   -2.550e-02  4.013e-02  -0.635 0.525116
## f.22000.0.0-2   5.438e-02  4.084e-02   1.331 0.183041
## f.22000.0.020  -6.036e-03  4.064e-02  -0.149 0.881932
## f.22000.0.021   3.832e-02  4.054e-02   0.945 0.344531
## f.22000.0.022  -1.755e-03  4.049e-02  -0.043 0.965432
## f.22000.0.023   5.374e-03  4.054e-02   0.133 0.894548
## f.22000.0.024   2.167e-02  3.994e-02   0.543 0.587446
## f.22000.0.025  -9.518e-03  4.100e-02  -0.232 0.816402
## f.22000.0.026  -4.010e-02  4.073e-02  -0.985 0.324851
## f.22000.0.027  -3.878e-02  4.006e-02  -0.968 0.333006
## f.22000.0.028   6.228e-03  4.048e-02   0.154 0.877734
## f.22000.0.029   1.070e-02  4.023e-02   0.266 0.790338
## f.22000.0.03   -1.605e-03  4.017e-02  -0.040 0.968133
## f.22000.0.0-3   5.562e-02  4.044e-02   1.375 0.169082
## f.22000.0.030  -3.655e-02  4.021e-02  -0.909 0.363414
## f.22000.0.031  -5.098e-02  4.037e-02  -1.263 0.206632
## f.22000.0.032  -5.138e-02  4.054e-02  -1.267 0.205020
## f.22000.0.033   1.032e-02  4.127e-02   0.250 0.802482
## f.22000.0.034   3.105e-02  4.030e-02   0.771 0.440954
## f.22000.0.035  -9.009e-03  4.042e-02  -0.223 0.823617
## f.22000.0.036  -3.749e-02  4.012e-02  -0.934 0.350112
## f.22000.0.037   8.642e-04  4.072e-02   0.021 0.983070
## f.22000.0.038   3.333e-03  4.053e-02   0.082 0.934471
## f.22000.0.039  -1.436e-02  4.100e-02  -0.350 0.726188
## f.22000.0.04   -3.734e-02  4.086e-02  -0.914 0.360781
## f.22000.0.0-4   1.895e-02  4.109e-02   0.461 0.644759
## f.22000.0.040  -6.572e-02  4.052e-02  -1.622 0.104792
## f.22000.0.041  -1.059e-02  4.111e-02  -0.258 0.796746
## f.22000.0.042  -6.482e-02  4.041e-02  -1.604 0.108669
## f.22000.0.043  -1.798e-02  4.112e-02  -0.437 0.661975
## f.22000.0.044   4.980e-02  4.069e-02   1.224 0.220989
## f.22000.0.045   7.610e-03  4.072e-02   0.187 0.851772
## f.22000.0.046   3.175e-03  4.094e-02   0.078 0.938179
## f.22000.0.047  -3.123e-02  4.097e-02  -0.762 0.445839
## f.22000.0.048  -8.069e-03  4.087e-02  -0.197 0.843510
## f.22000.0.049   9.677e-04  4.090e-02   0.024 0.981124
## f.22000.0.05   -2.454e-02  4.021e-02  -0.610 0.541754
## f.22000.0.0-5   9.144e-02  4.067e-02   2.248 0.024554 *
## f.22000.0.050   1.700e-02  4.096e-02   0.415 0.678061
## f.22000.0.051   8.880e-03  4.036e-02   0.220 0.825842
## f.22000.0.052  -4.276e-02  4.108e-02  -1.041 0.297941
## f.22000.0.053   1.354e-02  4.082e-02   0.332 0.740195
## f.22000.0.054   4.116e-02  4.089e-02   1.007 0.314129
## f.22000.0.055   9.976e-03  4.123e-02   0.242 0.808817
## f.22000.0.056  -9.450e-04  4.087e-02  -0.023 0.981555
## f.22000.0.057   4.645e-02  4.107e-02   1.131 0.258024
## f.22000.0.058  -1.599e-02  4.088e-02  -0.391 0.695668
## f.22000.0.059  -4.867e-02  4.076e-02  -1.194 0.232466
## f.22000.0.06   -9.658e-03  4.008e-02  -0.241 0.809569
## f.22000.0.0-6   7.120e-02  4.098e-02   1.737 0.082305 .
## f.22000.0.060  -1.523e-02  4.113e-02  -0.370 0.711248
## f.22000.0.061  -3.540e-02  4.135e-02  -0.856 0.391976
## f.22000.0.062   1.746e-02  4.122e-02   0.424 0.671824
## f.22000.0.063   1.459e-02  4.122e-02   0.354 0.723368
```

```
## f.22000.0.064  -5.099e-04  4.088e-02  -0.012 0.990049
## f.22000.0.065  -7.261e-03  4.111e-02  -0.177 0.859820
## f.22000.0.066  -2.886e-02  4.153e-02  -0.695 0.487157
## f.22000.0.067  -4.588e-02  4.109e-02  -1.117 0.264162
## f.22000.0.068  -1.361e-02  4.102e-02  -0.332 0.740031
## f.22000.0.069  -4.520e-03  4.113e-02  -0.110 0.912492
## f.22000.0.07   -9.599e-03  4.037e-02  -0.238 0.812042
## f.22000.0.0-7   6.175e-02  4.074e-02   1.516 0.129599
## f.22000.0.070  -6.537e-03  4.117e-02  -0.159 0.873851
## f.22000.0.071   3.475e-03  4.093e-02   0.085 0.932340
## f.22000.0.072   3.549e-03  4.121e-02   0.086 0.931367
## f.22000.0.073  -1.741e-03  4.119e-02  -0.042 0.966296
## f.22000.0.074   4.555e-02  4.137e-02   1.101 0.270915
## f.22000.0.075   3.642e-03  4.095e-02   0.089 0.929119
## f.22000.0.076  -2.601e-02  4.141e-02  -0.628 0.530049
## f.22000.0.077   1.909e-02  4.118e-02   0.464 0.642919
## f.22000.0.078  -4.284e-02  4.091e-02  -1.047 0.295068
## f.22000.0.079  -5.168e-03  4.088e-02  -0.126 0.899402
## f.22000.0.08    1.023e-02  4.033e-02   0.254 0.799675
## f.22000.0.0-8   1.144e-02  4.096e-02   0.279 0.779958
## f.22000.0.080   4.531e-02  4.129e-02   1.097 0.272537
## f.22000.0.081  -9.144e-03  4.176e-02  -0.219 0.826676
## f.22000.0.082  -5.964e-02  4.123e-02  -1.447 0.148022
## f.22000.0.083   4.148e-03  4.137e-02   0.100 0.920137
## f.22000.0.084   7.106e-03  4.137e-02   0.172 0.863640
## f.22000.0.085   3.465e-02  4.124e-02   0.840 0.400743
## f.22000.0.086  -2.703e-02  4.132e-02  -0.654 0.513036
## f.22000.0.087   4.724e-02  4.130e-02   1.144 0.252680
## f.22000.0.088   4.158e-03  4.202e-02   0.099 0.921165
## f.22000.0.089   2.274e-02  4.171e-02   0.545 0.585702
## f.22000.0.09    1.412e-02  4.010e-02   0.352 0.724704
## f.22000.0.0-9   5.866e-02  4.095e-02   1.433 0.151959
## f.22000.0.090  -1.928e-02  4.128e-02  -0.467 0.640437
## f.22000.0.091   1.886e-03  4.270e-02   0.044 0.964767
## f.22000.0.092   3.991e-02  4.141e-02   0.964 0.335216
## f.22000.0.093  -9.635e-03  4.132e-02  -0.233 0.815640
## f.22000.0.094   1.707e-02  5.285e-02   0.323 0.746703
## f.22000.0.095  -4.676e-02  4.407e-02  -1.061 0.288679
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9872264)
##
##     Null deviance: 119564  on 119564  degrees of freedom
## Residual deviance: 117911  on 119437  degrees of freedom
##   (302 observations deleted due to missingness)
## AIC: 337904
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(a)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     1.382226e-02     1.166442e-02     1.372705e-02     2.171598e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     1.382226e-02               NA               NA
##              AIC    Corrected.AIC
##     1.181674e+05     1.181676e+05
```

```
b = glm(f.20480.0.0 ~   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.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.22009.0.5 + 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
## -0.5889  -0.2829  -0.1928  -0.1084   5.0721
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -2.409e+01  7.439e-01 -32.382  < 2e-16 ***
## f.22009.0.1     6.348e-03  3.001e-03   2.115 0.034405 *
## f.22009.0.2    -5.728e-03  2.928e-03  -1.956 0.050448 .
## f.22009.0.3    -3.916e-03  2.962e-03  -1.322 0.186139
## f.22009.0.5    -1.198e-03  3.142e-03  -0.381 0.703090
## f.22009.0.6     6.455e-04  2.973e-03   0.217 0.828124
## f.22009.0.7    -5.222e-03  3.019e-03  -1.729 0.083735 .
## f.22009.0.8     2.270e-03  3.211e-03   0.707 0.479469
## f.22009.0.9    -1.122e-02  3.050e-03  -3.679 0.000234 ***
## f.22009.0.10    1.788e-03  3.497e-03   0.511 0.609147
## f.22009.0.11   -4.364e-03  4.073e-03  -1.071 0.283980
## f.22009.0.12   -2.580e-03  3.589e-03  -0.719 0.472141
## f.22009.0.13    4.334e-04  2.920e-03   0.148 0.882010
## f.22009.0.14   -5.649e-03  3.086e-03  -1.830 0.067198 .
## f.22009.0.15   -1.635e-03  3.162e-03  -0.517 0.605155
## f.22009.0.16   -7.231e-03  3.101e-03  -2.332 0.019716 *
## f.22009.0.17    3.278e-03  2.881e-03   1.138 0.255090
## f.22009.0.18   -1.003e-04  2.888e-03  -0.035 0.972286
## f.22009.0.19    1.082e-03  2.877e-03   0.376 0.706718
## f.22009.0.20   -6.193e-04  2.881e-03  -0.215 0.829768
## f.22001.0.01   -9.627e-02  5.808e-03 -16.575  < 2e-16 ***
## f.34.0.0        1.236e-02  3.807e-04  32.476  < 2e-16 ***
## f.22000.0.0-1   7.985e-02  4.056e-02   1.969 0.049006 *
## f.22000.0.010  -3.951e-02  4.104e-02  -0.963 0.335616
## f.22000.0.0-10  6.247e-02  4.125e-02   1.515 0.129892
## f.22000.0.011   6.410e-02  4.037e-02   1.588 0.112301
## f.22000.0.0-11  3.132e-02  4.093e-02   0.765 0.444161
## f.22000.0.012  -4.373e-02  4.068e-02  -1.075 0.282380
## f.22000.0.013  -1.127e-02  4.049e-02  -0.278 0.780716
## f.22000.0.014  -3.430e-02  4.024e-02  -0.852 0.394082
## f.22000.0.015   2.135e-02  4.052e-02   0.527 0.598290
## f.22000.0.016   1.442e-02  4.070e-02   0.354 0.723163
## f.22000.0.017   4.895e-04  4.035e-02   0.012 0.990322
## f.22000.0.018   2.072e-02  4.070e-02   0.509 0.610639
## f.22000.0.019  -2.010e-02  3.995e-02  -0.503 0.614877
## f.22000.0.02   -2.539e-02  4.014e-02  -0.633 0.527025
## f.22000.0.0-2   5.465e-02  4.086e-02   1.338 0.181040
## f.22000.0.020  -6.585e-03  4.065e-02  -0.162 0.871318
## f.22000.0.021   3.799e-02  4.055e-02   0.937 0.348850
## f.22000.0.022  -2.480e-03  4.050e-02  -0.061 0.951171
## f.22000.0.023   5.296e-03  4.055e-02   0.131 0.896089
## f.22000.0.024   2.125e-02  3.995e-02   0.532 0.594839
## f.22000.0.025  -9.231e-03  4.101e-02  -0.225 0.821892
## f.22000.0.026  -4.181e-02  4.074e-02  -1.026 0.304814
## f.22000.0.027  -3.892e-02  4.008e-02  -0.971 0.331508
## f.22000.0.028   5.614e-03  4.049e-02   0.139 0.889724
## f.22000.0.029   1.084e-02  4.024e-02   0.269 0.787587
## f.22000.0.03   -2.221e-03  4.018e-02  -0.055 0.955929
## f.22000.0.0-3   5.565e-02  4.046e-02   1.376 0.168931
## f.22000.0.030  -3.628e-02  4.023e-02  -0.902 0.367123
## f.22000.0.031  -5.041e-02  4.038e-02  -1.248 0.211935
## f.22000.0.032  -5.122e-02  4.055e-02  -1.263 0.206639
## f.22000.0.033   1.010e-02  4.128e-02   0.245 0.806774
## f.22000.0.034   3.098e-02  4.031e-02   0.769 0.442148
## f.22000.0.035  -9.335e-03  4.043e-02  -0.231 0.817401
## f.22000.0.036  -3.726e-02  4.013e-02  -0.929 0.353140
## f.22000.0.037   1.882e-04  4.074e-02   0.005 0.996314
## f.22000.0.038   2.416e-03  4.055e-02   0.060 0.952482
## f.22000.0.039  -1.370e-02  4.102e-02  -0.334 0.738357
## f.22000.0.04   -3.751e-02  4.088e-02  -0.918 0.358758
## f.22000.0.0-4   1.889e-02  4.111e-02   0.459 0.645881
## f.22000.0.040  -6.655e-02  4.053e-02  -1.642 0.100574
```

```
## f.22000.0.041  -1.165e-02  4.112e-02  -0.283 0.776964
## f.22000.0.042  -6.499e-02  4.042e-02  -1.608 0.107859
## f.22000.0.043  -1.842e-02  4.114e-02  -0.448 0.654291
## f.22000.0.044   4.847e-02  4.070e-02   1.191 0.233692
## f.22000.0.045   8.420e-03  4.074e-02   0.207 0.836241
## f.22000.0.046   4.644e-03  4.095e-02   0.113 0.909717
## f.22000.0.047  -3.226e-02  4.098e-02  -0.787 0.431090
## f.22000.0.048  -9.735e-03  4.089e-02  -0.238 0.811798
## f.22000.0.049   8.924e-05  4.091e-02   0.002 0.998260
## f.22000.0.05   -2.589e-02  4.022e-02  -0.644 0.519763
## f.22000.0.0-5   8.996e-02  4.068e-02   2.211 0.027008 *
## f.22000.0.050   1.600e-02  4.097e-02   0.391 0.696066
## f.22000.0.051   8.110e-03  4.037e-02   0.201 0.840796
## f.22000.0.052  -4.363e-02  4.110e-02  -1.062 0.288398
## f.22000.0.053   1.277e-02  4.084e-02   0.313 0.754445
## f.22000.0.054   4.114e-02  4.090e-02   1.006 0.314513
## f.22000.0.055   1.088e-02  4.124e-02   0.264 0.791878
## f.22000.0.056  -2.241e-03  4.088e-02  -0.055 0.956292
## f.22000.0.057   4.636e-02  4.108e-02   1.129 0.259089
## f.22000.0.058  -1.671e-02  4.089e-02  -0.409 0.682768
## f.22000.0.059  -4.851e-02  4.077e-02  -1.190 0.234109
## f.22000.0.06   -9.670e-03  4.009e-02  -0.241 0.809405
## f.22000.0.0-6   7.108e-02  4.099e-02   1.734 0.082906 .
## f.22000.0.060  -1.592e-02  4.114e-02  -0.387 0.698873
## f.22000.0.061  -3.516e-02  4.136e-02  -0.850 0.395273
## f.22000.0.062   1.840e-02  4.123e-02   0.446 0.655382
## f.22000.0.063   1.447e-02  4.123e-02   0.351 0.725646
## f.22000.0.064  -1.094e-03  4.089e-02  -0.027 0.978661
## f.22000.0.065  -7.404e-03  4.113e-02  -0.180 0.857137
## f.22000.0.066  -2.980e-02  4.154e-02  -0.717 0.473129
## f.22000.0.067  -4.668e-02  4.110e-02  -1.136 0.256089
## f.22000.0.068  -1.410e-02  4.104e-02  -0.344 0.731130
## f.22000.0.069  -5.792e-03  4.114e-02  -0.141 0.888047
## f.22000.0.07   -1.031e-02  4.038e-02  -0.255 0.798550
## f.22000.0.0-7   6.063e-02  4.075e-02   1.488 0.136841
## f.22000.0.070  -5.988e-03  4.118e-02  -0.145 0.884397
## f.22000.0.071   4.370e-03  4.094e-02   0.107 0.915006
## f.22000.0.072   4.551e-03  4.122e-02   0.110 0.912087
## f.22000.0.073  -2.712e-03  4.120e-02  -0.066 0.947527
## f.22000.0.074   4.527e-02  4.138e-02   1.094 0.274032
## f.22000.0.075   4.137e-03  4.096e-02   0.101 0.919542
## f.22000.0.076  -2.501e-02  4.143e-02  -0.604 0.545966
## f.22000.0.077   1.804e-02  4.119e-02   0.438 0.661427
## f.22000.0.078  -4.428e-02  4.092e-02  -1.082 0.279230
## f.22000.0.079  -4.065e-03  4.089e-02  -0.099 0.920814
## f.22000.0.08    1.135e-02  4.034e-02   0.281 0.778516
## f.22000.0.0-8   1.089e-02  4.097e-02   0.266 0.790318
## f.22000.0.080   4.509e-02  4.130e-02   1.092 0.274945
## f.22000.0.081  -9.775e-03  4.177e-02  -0.234 0.814981
## f.22000.0.082  -5.933e-02  4.124e-02  -1.439 0.150254
## f.22000.0.083   3.397e-03  4.139e-02   0.082 0.934575
## f.22000.0.084   8.276e-03  4.139e-02   0.200 0.841510
## f.22000.0.085   3.575e-02  4.125e-02   0.867 0.386107
## f.22000.0.086  -2.779e-02  4.133e-02  -0.672 0.501438
## f.22000.0.087   4.751e-02  4.131e-02   1.150 0.250196
## f.22000.0.088   4.204e-03  4.203e-02   0.100 0.920333
## f.22000.0.089   2.391e-02  4.172e-02   0.573 0.566648
## f.22000.0.09    1.353e-02  4.011e-02   0.337 0.735836
## f.22000.0.0-9   5.767e-02  4.096e-02   1.408 0.159158
## f.22000.0.090  -1.954e-02  4.130e-02  -0.473 0.636030
## f.22000.0.091   3.878e-04  4.272e-02   0.009 0.992757
## f.22000.0.092   4.057e-02  4.143e-02   0.979 0.327403
## f.22000.0.093  -9.541e-03  4.134e-02  -0.231 0.817457
## f.22000.0.094   1.593e-02  5.287e-02   0.301 0.763186
## f.22000.0.095  -4.632e-02  4.409e-02  -1.051 0.293356
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9878165)
##
##     Null deviance: 119564  on 119564  degrees of freedom
## Residual deviance: 117983  on 119438  degrees of freedom
##   (302 observations deleted due to missingness)
```

```
##   (502 observations deleted due to missingness)
## AIC: 337974
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     1.322448e-02     1.108337e-02     1.313732e-02     2.078303e-02
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     1.322448e-02               NA               NA
##              AIC    Corrected.AIC
##     1.182368e+05     1.182371e+05
```

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

```
## recent self-harm: recentsuicideselfharm2
a = glm(recentsuicideselfharm2 ~  `0.500000` + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + 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(a)
```

```
##
## Call:
## glm(formula = recentsuicideselfharm2 ~ `0.500000` + 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.22001.0.0 + f.34.0.0 + f.22000.0.0, data = merged)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.5159  -0.2569  -0.1946  -0.1412   5.0253
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.760e+01  7.484e-01 -23.522  < 2e-16 ***
## `0.500000`      6.893e-03  2.895e-03   2.381   0.0173 *
## f.22009.0.1     5.189e-03  3.020e-03   1.719   0.0857 .
## f.22009.0.2    -1.379e-03  2.946e-03  -0.468   0.6397
## f.22009.0.3     5.368e-03  2.980e-03   1.802   0.0716 .
## f.22009.0.5     7.784e-03  3.162e-03   2.462   0.0138 *
## f.22009.0.6     3.906e-03  2.991e-03   1.306   0.1915
## f.22009.0.7    -3.890e-03  3.038e-03  -1.281   0.2003
## f.22009.0.8     3.175e-03  3.230e-03   0.983   0.3257
## f.22009.0.9     2.184e-03  3.068e-03   0.712   0.4765
## f.22009.0.10   -1.086e-04  3.519e-03  -0.031   0.9754
## f.22009.0.11    9.658e-03  4.097e-03   2.357   0.0184 *
## f.22009.0.12    4.615e-03  3.610e-03   1.278   0.2011
## f.22009.0.13   -2.775e-03  2.938e-03  -0.945   0.3449
## f.22009.0.14   -5.501e-03  3.104e-03  -1.772   0.0764 .
## f.22009.0.15    9.667e-04  3.181e-03   0.304   0.7612
## f.22009.0.16   -2.831e-03  3.120e-03  -0.908   0.3641
## f.22009.0.17   -2.894e-03  2.898e-03  -0.998   0.3181
## f.22009.0.18    7.153e-04  2.905e-03   0.246   0.8055
## f.22009.0.19   -1.945e-03  2.893e-03  -0.672   0.5013
## f.22009.0.20    7.846e-03  2.899e-03   2.706   0.0068 **
## f.22001.0.01    2.866e-02  5.843e-03   4.905 9.35e-07 ***
## f.34.0.0        9.016e-03  3.830e-04  23.543  < 2e-16 ***
## f.22000.0.0-1   4.389e-03  4.085e-02   0.107   0.9144
## f.22000.0.010  -3.752e-02  4.132e-02  -0.908   0.3639
## f.22000.0.0-10  9.312e-03  4.157e-02   0.224   0.8228
## f.22000.0.011  -1.341e-04  4.064e-02  -0.003   0.9974
## f.22000.0.0-11 -2.947e-02  4.116e-02  -0.716   0.4740
## f.22000.0.012   8.410e-03  4.091e-02   0.206   0.8371
## f.22000.0.013  -1.593e-02  4.073e-02  -0.391   0.6956
```

```
## f.22000.0.014  -4.963e-03  4.046e-02  -0.123   0.9024
## f.22000.0.015  -1.197e-02  4.083e-02  -0.293   0.7694
## f.22000.0.016  -1.402e-02  4.094e-02  -0.343   0.7320
## f.22000.0.017  -1.093e-02  4.057e-02  -0.269   0.7876
## f.22000.0.018  -4.650e-02  4.094e-02  -1.136   0.2561
## f.22000.0.019  -6.423e-02  4.018e-02  -1.599   0.1099
## f.22000.0.02    5.173e-03  4.037e-02   0.128   0.8980
## f.22000.0.0-2   1.791e-02  4.112e-02   0.436   0.6631
## f.22000.0.020  -1.818e-02  4.088e-02  -0.445   0.6566
## f.22000.0.021  -1.908e-02  4.079e-02  -0.468   0.6400
## f.22000.0.022  -4.486e-02  4.079e-02  -1.100   0.2714
## f.22000.0.023   3.232e-03  4.077e-02   0.079   0.9368
## f.22000.0.024  -2.039e-02  4.021e-02  -0.507   0.6121
## f.22000.0.025   6.539e-02  4.123e-02   1.586   0.1128
## f.22000.0.026  -4.419e-02  4.102e-02  -1.077   0.2813
## f.22000.0.027  -7.158e-05  4.039e-02  -0.002   0.9986
## f.22000.0.028   1.213e-02  4.074e-02   0.298   0.7660
## f.22000.0.029  -3.404e-02  4.050e-02  -0.841   0.4006
## f.22000.0.03   -1.323e-02  4.041e-02  -0.327   0.7435
## f.22000.0.0-3  -8.891e-04  4.066e-02  -0.022   0.9826
## f.22000.0.030  -3.960e-02  4.046e-02  -0.979   0.3278
## f.22000.0.031   1.729e-02  4.064e-02   0.425   0.6706
## f.22000.0.032  -9.817e-03  4.079e-02  -0.241   0.8098
## f.22000.0.033   1.676e-02  4.151e-02   0.404   0.6865
## f.22000.0.034  -1.263e-02  4.057e-02  -0.311   0.7555
## f.22000.0.035  -7.767e-04  4.065e-02  -0.019   0.9848
## f.22000.0.036  -1.687e-02  4.038e-02  -0.418   0.6760
## f.22000.0.037  -3.077e-02  4.100e-02  -0.751   0.4529
## f.22000.0.038   3.792e-02  4.083e-02   0.929   0.3531
## f.22000.0.039  -1.620e-02  4.125e-02  -0.393   0.6945
## f.22000.0.04    2.093e-03  4.115e-02   0.051   0.9594
## f.22000.0.0-4   6.969e-02  4.136e-02   1.685   0.0920 .
## f.22000.0.040  -5.935e-03  4.080e-02  -0.145   0.8843
## f.22000.0.041  -3.385e-02  4.136e-02  -0.818   0.4131
## f.22000.0.042  -4.819e-02  4.063e-02  -1.186   0.2355
## f.22000.0.043   2.473e-02  4.136e-02   0.598   0.5498
## f.22000.0.044   1.106e-02  4.107e-02   0.269   0.7877
## f.22000.0.045  -2.274e-02  4.100e-02  -0.555   0.5791
## f.22000.0.046  -1.204e-02  4.120e-02  -0.292   0.7702
## f.22000.0.047  -2.579e-02  4.120e-02  -0.626   0.5314
## f.22000.0.048  -6.059e-02  4.115e-02  -1.473   0.1409
## f.22000.0.049   1.367e-02  4.116e-02   0.332   0.7398
## f.22000.0.05    5.902e-03  4.047e-02   0.146   0.8840
## f.22000.0.0-5   2.329e-02  4.090e-02   0.569   0.5691
## f.22000.0.050  -2.168e-02  4.121e-02  -0.526   0.5988
## f.22000.0.051   4.407e-02  4.068e-02   1.083   0.2787
## f.22000.0.052   5.879e-03  4.143e-02   0.142   0.8872
## f.22000.0.053   2.088e-02  4.104e-02   0.509   0.6109
## f.22000.0.054  -1.053e-02  4.115e-02  -0.256   0.7980
## f.22000.0.055   4.276e-02  4.151e-02   1.030   0.3029
## f.22000.0.056  -1.426e-02  4.118e-02  -0.346   0.7291
## f.22000.0.057  -1.623e-03  4.132e-02  -0.039   0.9687
## f.22000.0.058   6.185e-02  4.115e-02   1.503   0.1328
## f.22000.0.059   2.715e-04  4.102e-02   0.007   0.9947
## f.22000.0.06   -6.277e-02  4.032e-02  -1.557   0.1195
## f.22000.0.0-6  -1.292e-05  4.125e-02   0.000   0.9998
## f.22000.0.060  -2.973e-02  4.140e-02  -0.718   0.4727
## f.22000.0.061   1.426e-02  4.160e-02   0.343   0.7317
## f.22000.0.062   1.244e-02  4.153e-02   0.300   0.7645
## f.22000.0.063  -3.747e-02  4.151e-02  -0.903   0.3667
## f.22000.0.064  -2.260e-03  4.113e-02  -0.055   0.9562
## f.22000.0.065  -3.051e-02  4.140e-02  -0.737   0.4612
## f.22000.0.066  -6.617e-02  4.181e-02  -1.583   0.1135
## f.22000.0.067   1.582e-02  4.138e-02   0.382   0.7023
## f.22000.0.068  -3.613e-02  4.129e-02  -0.875   0.3816
## f.22000.0.069  -9.734e-04  4.141e-02  -0.024   0.9812
## f.22000.0.07   -1.825e-02  4.060e-02  -0.449   0.6532
## f.22000.0.0-7  -9.551e-03  4.097e-02  -0.233   0.8157
## f.22000.0.070  -5.153e-02  4.143e-02  -1.244   0.2136
## f.22000.0.071  -9.685e-03  4.120e-02  -0.235   0.8142
## f.22000.0.072   3.969e-02  4.148e-02   0.957   0.3387
## f.22000.0.073  -5.386e-03  4.151e-02  -0.130   0.8968
## f.22000.0.074  -5.226e-03  4.164e-02  -0.126   0.9001
```

```
## f.22000.0.074  -5.226e-03  4.164e-02  -0.126   0.9001
## f.22000.0.075   5.029e-02  4.121e-02   1.220   0.2223
## f.22000.0.076   5.653e-02  4.165e-02   1.357   0.1747
## f.22000.0.077  -2.236e-02  4.145e-02  -0.539   0.5896
## f.22000.0.078  -6.527e-02  4.124e-02  -1.583   0.1135
## f.22000.0.079  -3.089e-02  4.110e-02  -0.752   0.4523
## f.22000.0.08   -5.247e-02  4.058e-02  -1.293   0.1960
## f.22000.0.0-8   1.199e-02  4.121e-02   0.291   0.7712
## f.22000.0.080   2.121e-03  4.155e-02   0.051   0.9593
## f.22000.0.081  -3.332e-02  4.207e-02  -0.792   0.4284
## f.22000.0.082  -1.501e-02  4.153e-02  -0.361   0.7178
## f.22000.0.083   2.273e-04  4.162e-02   0.005   0.9956
## f.22000.0.084  -1.691e-02  4.161e-02  -0.406   0.6845
## f.22000.0.085   1.567e-02  4.147e-02   0.378   0.7055
## f.22000.0.086  -2.505e-03  4.155e-02  -0.060   0.9519
## f.22000.0.087  -1.723e-02  4.155e-02  -0.415   0.6784
## f.22000.0.088   2.847e-03  4.231e-02   0.067   0.9464
## f.22000.0.089  -2.314e-02  4.198e-02  -0.551   0.5815
## f.22000.0.09   -2.299e-02  4.034e-02  -0.570   0.5687
## f.22000.0.0-9  -2.189e-02  4.125e-02  -0.531   0.5956
## f.22000.0.090  -2.600e-02  4.162e-02  -0.625   0.5322
## f.22000.0.091  -6.915e-02  4.293e-02  -1.611   0.1072
## f.22000.0.092   2.531e-02  4.167e-02   0.607   0.5437
## f.22000.0.093   3.855e-02  4.159e-02   0.927   0.3540
## f.22000.0.094  -3.727e-02  5.318e-02  -0.701   0.4834
## f.22000.0.095  -7.596e-04  4.434e-02  -0.017   0.9863
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9950534)
##
##     Null deviance: 119026  on 119026  degrees of freedom
## Residual deviance: 118311  on 118899  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
##     6.008286e-03     3.840693e-03     5.990223e-03     9.476439e-03
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     6.008286e-03               NA               NA
##              AIC    Corrected.AIC
##     1.185669e+05     1.185671e+05
```

```
b = glm(recentsuicideselfharm2 ~   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.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.22009.0.5 + 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
## -0.5022  -0.2567  -0.1946  -0.1414   5.0231
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.761e+01  7.484e-01 -23.525  < 2e-16 ***
## f.22009.0.1     5.245e-03  3.020e-03   1.737   0.0824
```

```
## f.22009.0.1     5.245e-03  3.020e-03   1.737   0.0824 .
## f.22009.0.2    -1.404e-03  2.946e-03  -0.477   0.6337
## f.22009.0.3     5.342e-03  2.980e-03   1.793   0.0730 .
## f.22009.0.5     7.956e-03  3.161e-03   2.517   0.0118 *
## f.22009.0.6     3.939e-03  2.991e-03   1.317   0.1878
## f.22009.0.7    -3.949e-03  3.038e-03  -1.300   0.1936
## f.22009.0.8     3.152e-03  3.230e-03   0.976   0.3291
## f.22009.0.9     2.173e-03  3.068e-03   0.708   0.4787
## f.22009.0.10   -1.135e-04  3.519e-03  -0.032   0.9743
## f.22009.0.11    9.753e-03  4.097e-03   2.380   0.0173 *
## f.22009.0.12    4.634e-03  3.610e-03   1.284   0.1992
## f.22009.0.13   -2.773e-03  2.938e-03  -0.944   0.3452
## f.22009.0.14   -5.574e-03  3.104e-03  -1.796   0.0725 .
## f.22009.0.15    9.610e-04  3.181e-03   0.302   0.7626
## f.22009.0.16   -2.820e-03  3.120e-03  -0.904   0.3661
## f.22009.0.17   -2.915e-03  2.898e-03  -1.006   0.3145
## f.22009.0.18    6.940e-04  2.905e-03   0.239   0.8112
## f.22009.0.19   -1.920e-03  2.893e-03  -0.664   0.5068
## f.22009.0.20    7.904e-03  2.899e-03   2.727   0.0064 **
## f.22001.0.01    2.853e-02  5.843e-03   4.882 1.05e-06 ***
## f.34.0.0        9.017e-03  3.830e-04  23.545  < 2e-16 ***
## f.22000.0.0-1   4.206e-03  4.085e-02   0.103   0.9180
## f.22000.0.010  -3.758e-02  4.132e-02  -0.909   0.3631
## f.22000.0.0-10  8.913e-03  4.157e-02   0.214   0.8302
## f.22000.0.011  -2.012e-04  4.064e-02  -0.005   0.9960
## f.22000.0.0-11 -2.941e-02  4.116e-02  -0.715   0.4748
## f.22000.0.012   8.309e-03  4.091e-02   0.203   0.8391
## f.22000.0.013  -1.635e-02  4.073e-02  -0.401   0.6881
## f.22000.0.014  -5.172e-03  4.046e-02  -0.128   0.8983
## f.22000.0.015  -1.206e-02  4.083e-02  -0.295   0.7677
## f.22000.0.016  -1.421e-02  4.094e-02  -0.347   0.7286
## f.22000.0.017  -1.085e-02  4.057e-02  -0.267   0.7891
## f.22000.0.018  -4.642e-02  4.095e-02  -1.134   0.2569
## f.22000.0.019  -6.464e-02  4.018e-02  -1.609   0.1077
## f.22000.0.02    5.198e-03  4.037e-02   0.129   0.8975
## f.22000.0.0-2   1.799e-02  4.112e-02   0.438   0.6617
## f.22000.0.020  -1.835e-02  4.088e-02  -0.449   0.6535
## f.22000.0.021  -1.918e-02  4.079e-02  -0.470   0.6383
## f.22000.0.022  -4.509e-02  4.079e-02  -1.105   0.2690
## f.22000.0.023   3.197e-03  4.077e-02   0.078   0.9375
## f.22000.0.024  -2.050e-02  4.021e-02  -0.510   0.6102
## f.22000.0.025   6.544e-02  4.123e-02   1.587   0.1125
## f.22000.0.026  -4.472e-02  4.102e-02  -1.090   0.2756
## f.22000.0.027  -1.582e-04  4.039e-02  -0.004   0.9969
## f.22000.0.028   1.198e-02  4.074e-02   0.294   0.7687
## f.22000.0.029  -3.402e-02  4.050e-02  -0.840   0.4009
## f.22000.0.03   -1.339e-02  4.041e-02  -0.331   0.7404
## f.22000.0.0-3  -8.826e-04  4.066e-02  -0.022   0.9827
## f.22000.0.030  -3.955e-02  4.046e-02  -0.977   0.3284
## f.22000.0.031   1.745e-02  4.064e-02   0.429   0.6677
## f.22000.0.032  -9.785e-03  4.079e-02  -0.240   0.8104
## f.22000.0.033   1.670e-02  4.151e-02   0.402   0.6874
## f.22000.0.034  -1.264e-02  4.057e-02  -0.312   0.7553
## f.22000.0.035  -8.999e-04  4.065e-02  -0.022   0.9823
## f.22000.0.036  -1.683e-02  4.038e-02  -0.417   0.6769
## f.22000.0.037  -3.100e-02  4.100e-02  -0.756   0.4496
## f.22000.0.038   3.765e-02  4.083e-02   0.922   0.3565
## f.22000.0.039  -1.606e-02  4.125e-02  -0.389   0.6971
## f.22000.0.04    2.050e-03  4.115e-02   0.050   0.9603
## f.22000.0.0-4   6.966e-02  4.136e-02   1.684   0.0922 .
## f.22000.0.040  -6.202e-03  4.080e-02  -0.152   0.8792
## f.22000.0.041  -3.415e-02  4.136e-02  -0.826   0.4090
## f.22000.0.042  -4.826e-02  4.063e-02  -1.188   0.2348
## f.22000.0.043   2.460e-02  4.136e-02   0.595   0.5519
## f.22000.0.044   1.068e-02  4.107e-02   0.260   0.7948
## f.22000.0.045  -2.253e-02  4.100e-02  -0.549   0.5827
## f.22000.0.046  -1.160e-02  4.120e-02  -0.282   0.7783
## f.22000.0.047  -2.610e-02  4.120e-02  -0.633   0.5265
## f.22000.0.048  -6.108e-02  4.115e-02  -1.484   0.1377
## f.22000.0.049   1.340e-02  4.116e-02   0.326   0.7447
## f.22000.0.05    5.515e-03  4.047e-02   0.136   0.8916
## f.22000.0.0-5   2.288e-02  4.090e-02   0.559   0.5759
## f.22000.0.050  -2.200e-02  4.121e-02  -0.534   0.5935
```

```
## f.22000.0.051   4.383e-02  4.068e-02   1.077   0.2813
## f.22000.0.052   5.619e-03  4.143e-02   0.136   0.8921
## f.22000.0.053   2.066e-02  4.104e-02   0.503   0.6147
## f.22000.0.054  -1.055e-02  4.115e-02  -0.256   0.7977
## f.22000.0.055   4.299e-02  4.151e-02   1.036   0.3004
## f.22000.0.056  -1.464e-02  4.118e-02  -0.355   0.7222
## f.22000.0.057  -1.676e-03  4.132e-02  -0.041   0.9676
## f.22000.0.058   6.165e-02  4.115e-02   1.498   0.1341
## f.22000.0.059   3.107e-04  4.102e-02   0.008   0.9940
## f.22000.0.06   -6.279e-02  4.032e-02  -1.557   0.1194
## f.22000.0.0-6  -3.904e-05  4.125e-02  -0.001   0.9992
## f.22000.0.060  -2.993e-02  4.140e-02  -0.723   0.4697
## f.22000.0.061   1.430e-02  4.160e-02   0.344   0.7310
## f.22000.0.062   1.271e-02  4.153e-02   0.306   0.7595
## f.22000.0.063  -3.750e-02  4.151e-02  -0.903   0.3663
## f.22000.0.064  -2.443e-03  4.113e-02  -0.059   0.9526
## f.22000.0.065  -3.053e-02  4.140e-02  -0.737   0.4608
## f.22000.0.066  -6.645e-02  4.181e-02  -1.589   0.1120
## f.22000.0.067   1.560e-02  4.138e-02   0.377   0.7062
## f.22000.0.068  -3.626e-02  4.129e-02  -0.878   0.3798
## f.22000.0.069  -1.368e-03  4.141e-02  -0.033   0.9736
## f.22000.0.07   -1.845e-02  4.060e-02  -0.455   0.6495
## f.22000.0.0-7  -9.875e-03  4.097e-02  -0.241   0.8095
## f.22000.0.070  -5.135e-02  4.143e-02  -1.239   0.2152
## f.22000.0.071  -9.443e-03  4.121e-02  -0.229   0.8187
## f.22000.0.072   3.999e-02  4.148e-02   0.964   0.3350
## f.22000.0.073  -5.666e-03  4.151e-02  -0.136   0.8914
## f.22000.0.074  -5.281e-03  4.164e-02  -0.127   0.8991
## f.22000.0.075   5.042e-02  4.121e-02   1.223   0.2212
## f.22000.0.076   5.681e-02  4.165e-02   1.364   0.1726
## f.22000.0.077  -2.270e-02  4.145e-02  -0.548   0.5840
## f.22000.0.078  -6.562e-02  4.124e-02  -1.591   0.1116
## f.22000.0.079  -3.060e-02  4.110e-02  -0.744   0.4566
## f.22000.0.08   -5.216e-02  4.058e-02  -1.285   0.1987
## f.22000.0.0-8   1.186e-02  4.122e-02   0.288   0.7735
## f.22000.0.080   2.040e-03  4.155e-02   0.049   0.9609
## f.22000.0.081  -3.357e-02  4.207e-02  -0.798   0.4250
## f.22000.0.082  -1.496e-02  4.153e-02  -0.360   0.7188
## f.22000.0.083   1.091e-05  4.162e-02   0.000   0.9998
## f.22000.0.084  -1.660e-02  4.161e-02  -0.399   0.6900
## f.22000.0.085   1.597e-02  4.147e-02   0.385   0.7002
## f.22000.0.086  -2.743e-03  4.155e-02  -0.066   0.9474
## f.22000.0.087  -1.713e-02  4.155e-02  -0.412   0.6801
## f.22000.0.088   2.842e-03  4.231e-02   0.067   0.9464
## f.22000.0.089  -2.282e-02  4.198e-02  -0.544   0.5867
## f.22000.0.09   -2.315e-02  4.034e-02  -0.574   0.5660
## f.22000.0.0-9  -2.219e-02  4.125e-02  -0.538   0.5906
## f.22000.0.090  -2.612e-02  4.162e-02  -0.628   0.5303
## f.22000.0.091  -6.960e-02  4.293e-02  -1.621   0.1050
## f.22000.0.092   2.546e-02  4.167e-02   0.611   0.5412
## f.22000.0.093   3.862e-02  4.159e-02   0.929   0.3531
## f.22000.0.094  -3.762e-02  5.318e-02  -0.707   0.4793
## f.22000.0.095  -6.776e-04  4.434e-02  -0.015   0.9878
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9950925)
##
##     Null deviance: 119026  on 119026  degrees of freedom
## Residual deviance: 118316  on 118900  degrees of freedom
##   (840 observations deleted due to missingness)
## AIC: 337327
##
## Number of Fisher Scoring iterations: 2
```

```
PseudoR2(b)
```

```
##         McFadden     Adj.McFadden        Cox.Snell       Nagelkerke
##     5.960885e-03     3.810094e-03     5.943104e-03     9.401898e-03
## McKelvey.Zavoina           Effron            Count        Adj.Count
##               NA     5.960885e-03               NA               NA
##              AIC    Corrected.AIC
##     1.185705e+05     1.185708e+05
```

Moderating effect of sex on child and adult adverse events

```
summary(lm(childtraumasum ~  `0.250000`*f.22001.0.0 + + 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.2200
9.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = childtraumasum ~ `0.250000` * f.22001.0.0 + +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, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.2000 -0.6926 -0.2952  0.2449  7.9665
##
## Coefficients:
##                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)             -9.0470224  0.7457116 -12.132  < 2e-16 ***
## `0.250000`               0.0401226  0.0038788  10.344  < 2e-16 ***
## f.22001.0.01            -0.0714293  0.0058235 -12.266  < 2e-16 ***
## f.22009.0.1              0.0025296  0.0030087   0.841 0.400479
## f.22009.0.2             -0.0057557  0.0029357  -1.961 0.049926 *
## f.22009.0.3              0.0033522  0.0029695   1.129 0.258952
## f.22009.0.5              0.0361882  0.0031501  11.488  < 2e-16 ***
## f.22009.0.6              0.0001141  0.0029808   0.038 0.969478
## f.22009.0.7             -0.0094249  0.0030267  -3.114 0.001847 **
## f.22009.0.8              0.0085856  0.0032186   2.667 0.007644 **
## f.22009.0.9              0.0076786  0.0030568   2.512 0.012009 *
## f.22009.0.10            -0.0044905  0.0035068  -1.281 0.200358
## f.22009.0.11             0.0153959  0.0040822   3.771 0.000162 ***
## f.22009.0.12            -0.0051982  0.0035974  -1.445 0.148463
## f.22009.0.13            -0.0037571  0.0029277  -1.283 0.199398
## f.22009.0.14            -0.0403295  0.0030939 -13.035  < 2e-16 ***
## f.22009.0.15             0.0015784  0.0031699   0.498 0.618532
## f.22009.0.16            -0.0172816  0.0031092  -5.558 2.73e-08 ***
## f.22009.0.17            -0.0050041  0.0028879  -1.733 0.083141 .
## f.22009.0.18             0.0087146  0.0028948   3.010 0.002609 **
## f.22009.0.19            -0.0009113  0.0028831  -0.316 0.751937
## f.22009.0.20             0.0043627  0.0028883   1.510 0.130933
## f.34.0.0                 0.0046520  0.0003816  12.191  < 2e-16 ***
## f.22000.0.0-1            0.1102265  0.0407369   2.706 0.006815 **
## f.22000.0.010           -0.0760002  0.0411746  -1.846 0.064923 .
## f.22000.0.0-10           0.0310921  0.0414036   0.751 0.452683
## f.22000.0.011           -0.0287151  0.0404945  -0.709 0.478257
## f.22000.0.0-11           0.0996038  0.0410413   2.427 0.015229 *
## f.22000.0.012           -0.0464309  0.0407804  -1.139 0.254889
## f.22000.0.013           -0.0209105  0.0406445  -0.514 0.606922
## f.22000.0.014           -0.0238455  0.0403774  -0.591 0.554813
## f.22000.0.015            0.0189809  0.0406366   0.467 0.640438
## f.22000.0.016            0.0146573  0.0408619   0.359 0.719818
## f.22000.0.017            0.0074406  0.0404528   0.184 0.854066
## f.22000.0.018            0.0154145  0.0408944   0.377 0.706224
## f.22000.0.019           -0.0022326  0.0401210  -0.056 0.955623
## f.22000.0.02            -0.0046506  0.0402580  -0.116 0.908032
## f.22000.0.0-2            0.0554147  0.0409731   1.352 0.176229
## f.22000.0.020           -0.0116916  0.0407604  -0.287 0.774238
## f.22000.0.021           -0.0133239  0.0406892  -0.327 0.743324
## f.22000.0.022            0.0333477  0.0406382   0.821 0.411877
```

```
## f.22000.0.023            0.0252368  0.0406264   0.621 0.534475
## f.22000.0.024           -0.0272970  0.0400885  -0.681 0.495925
## f.22000.0.025           -0.0432881  0.0411352  -1.052 0.292647
## f.22000.0.026           -0.0263209  0.0408819  -0.644 0.519688
## f.22000.0.027           -0.0497445  0.0402099  -1.237 0.216045
## f.22000.0.028            0.0216964  0.0406103   0.534 0.593164
## f.22000.0.029            0.0189886  0.0403603   0.470 0.638014
## f.22000.0.03             0.0046841  0.0402662   0.116 0.907393
## f.22000.0.0-3            0.0425261  0.0405757   1.048 0.294608
## f.22000.0.030           -0.0395067  0.0403602  -0.979 0.327654
## f.22000.0.031            0.0287786  0.0404894   0.711 0.477230
## f.22000.0.032            0.0151129  0.0406811   0.371 0.710268
## f.22000.0.033            0.0166812  0.0414020   0.403 0.687017
## f.22000.0.034            0.0601675  0.0404424   1.488 0.136824
## f.22000.0.035           -0.0034186  0.0405301  -0.084 0.932780
## f.22000.0.036            0.0124424  0.0402332   0.309 0.757126
## f.22000.0.037           -0.0266331  0.0408359  -0.652 0.514274
## f.22000.0.038            0.0269344  0.0407081   0.662 0.508198
## f.22000.0.039           -0.0154327  0.0411541  -0.375 0.707663
## f.22000.0.04            -0.0186399  0.0410128  -0.454 0.649477
## f.22000.0.0-4            0.1064198  0.0412146   2.582 0.009822 **
## f.22000.0.040            0.0219937  0.0406376   0.541 0.588360
## f.22000.0.041           -0.0341734  0.0412421  -0.829 0.407331
## f.22000.0.042           -0.0308023  0.0405655  -0.759 0.447661
## f.22000.0.043           -0.0134231  0.0412928  -0.325 0.745128
## f.22000.0.044           -0.0477520  0.0408344  -1.169 0.242243
## f.22000.0.045           -0.0072483  0.0408633  -0.177 0.859211
## f.22000.0.046           -0.0271529  0.0410879  -0.661 0.508710
## f.22000.0.047           -0.0427795  0.0411158  -1.040 0.298127
## f.22000.0.048            0.0194619  0.0410337   0.474 0.635294
## f.22000.0.049           -0.0241775  0.0410503  -0.589 0.555881
## f.22000.0.05            -0.0686621  0.0403494  -1.702 0.088816 .
## f.22000.0.0-5            0.0863324  0.0407710   2.117 0.034220 *
## f.22000.0.050            0.0422975  0.0411349   1.028 0.303828
## f.22000.0.051            0.0239338  0.0404972   0.591 0.554522
## f.22000.0.052           -0.0325736  0.0412237  -0.790 0.429432
## f.22000.0.053           -0.0440496  0.0409354  -1.076 0.281896
## f.22000.0.054           -0.0121834  0.0410405  -0.297 0.766571
## f.22000.0.055            0.0021065  0.0413823   0.051 0.959403
## f.22000.0.056           -0.0472843  0.0410217  -1.153 0.249050
## f.22000.0.057           -0.0090802  0.0412351  -0.220 0.825711
## f.22000.0.058           -0.0468186  0.0410303  -1.141 0.253842
## f.22000.0.059            0.0061077  0.0408705   0.149 0.881206
## f.22000.0.06            -0.0146555  0.0402002  -0.365 0.715439
## f.22000.0.0-6            0.0547779  0.0410973   1.333 0.182573
## f.22000.0.060           -0.0447691  0.0412812  -1.084 0.278150
## f.22000.0.061            0.0443453  0.0415114   1.068 0.285402
## f.22000.0.062           -0.0109347  0.0413822  -0.264 0.791598
## f.22000.0.063            0.0040758  0.0413801   0.098 0.921537
## f.22000.0.064           -0.0030936  0.0410197  -0.075 0.939883
## f.22000.0.065            0.0014174  0.0412632   0.034 0.972598
## f.22000.0.066           -0.0015724  0.0416788  -0.038 0.969906
## f.22000.0.067           -0.0161505  0.0412416  -0.392 0.695349
## f.22000.0.068            0.0208287  0.0412216   0.505 0.613359
## f.22000.0.069           -0.0044487  0.0412808  -0.108 0.914181
## f.22000.0.07             0.0102774  0.0405154   0.254 0.799753
## f.22000.0.0-7            0.0105902  0.0408818   0.259 0.795601
## f.22000.0.070            0.0282756  0.0412731   0.685 0.493292
## f.22000.0.071           -0.0261752  0.0410695  -0.637 0.523906
## f.22000.0.072           -0.0024410  0.0413219  -0.059 0.952894
## f.22000.0.073            0.0082045  0.0413525   0.198 0.842729
## f.22000.0.074           -0.0305910  0.0414916  -0.737 0.460952
## f.22000.0.075            0.0128092  0.0411158   0.312 0.755390
## f.22000.0.076           -0.0439401  0.0415338  -1.058 0.290087
## f.22000.0.077           -0.0594463  0.0413005  -1.439 0.150051
## f.22000.0.078           -0.0308868  0.0410603  -0.752 0.451914
## f.22000.0.079           -0.0366268  0.0409738  -0.894 0.371373
## f.22000.0.08            -0.0004423  0.0404790  -0.011 0.991282
## f.22000.0.0-8            0.0514752  0.0410315   1.255 0.209652
## f.22000.0.080           -0.0087351  0.0414427  -0.211 0.833063
## f.22000.0.081           -0.0065567  0.0418916  -0.157 0.875627
## f.22000.0.082           -0.0410073  0.0414000  -0.991 0.321925
## f.22000.0.083           -0.0318740  0.0415044  -0.768 0.442507
```

```
## f.22000.0.084            0.0091983  0.0415139   0.222 0.824649
## f.22000.0.085            0.0492114  0.0413496   1.190 0.233998
## f.22000.0.086            0.0053457  0.0414722   0.129 0.897438
## f.22000.0.087           -0.0918045  0.0414615  -2.214 0.026816 *
## f.22000.0.088           -0.0223384  0.0421699  -0.530 0.596305
## f.22000.0.089           -0.0019392  0.0418950  -0.046 0.963082
## f.22000.0.09            -0.0257031  0.0402590  -0.638 0.523186
## f.22000.0.0-9            0.0613837  0.0410495   1.495 0.134823
## f.22000.0.090            0.0155160  0.0414333   0.374 0.708047
## f.22000.0.091            0.0092647  0.0428350   0.216 0.828763
## f.22000.0.092           -0.0060771  0.0415850  -0.146 0.883814
## f.22000.0.093            0.0064100  0.0415259   0.154 0.877325
## f.22000.0.094            0.0259755  0.0530909   0.489 0.624655
## f.22000.0.095           -0.0217205  0.0442628  -0.491 0.623628
## `0.250000`:f.22001.0.01 -0.0250257  0.0057980  -4.316 1.59e-05 ***
## ---
## 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:  0.008641,   Adjusted R-squared:  0.007578
## F-statistic: 8.131 on 128 and 119406 DF,  p-value: < 2.2e-16
```

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

```
summary(lm(selfharmideation ~  `0.500000`*f.22001.0.0 + + 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, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.500000` * f.22001.0.0 + +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, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1236 -0.5919 -0.4106  0.2722  5.1438
##
## Coefficients:
##                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)             -4.081e+01  7.405e-01 -55.110  < 2e-16 ***
## `0.500000`               3.769e-02  3.857e-03   9.773  < 2e-16 ***
## f.22001.0.01            -1.220e-01  5.781e-03 -21.109  < 2e-16 ***
## f.22009.0.1              9.265e-03  2.988e-03   3.101  0.00193 **
## f.22009.0.2             -1.092e-03  2.915e-03  -0.375  0.70803
## f.22009.0.3             -4.552e-04  2.948e-03  -0.154  0.87729
## f.22009.0.5             -2.284e-03  3.129e-03  -0.730  0.46534
## f.22009.0.6              2.570e-04  2.958e-03   0.087  0.93077
## f.22009.0.7             -8.184e-03  3.006e-03  -2.723  0.00647 **
## f.22009.0.8              7.989e-03  3.196e-03   2.500  0.01243 *
## f.22009.0.9             -8.347e-03  3.034e-03  -2.751  0.00594 **
## f.22009.0.10            -3.179e-05  3.482e-03  -0.009  0.99272
## f.22009.0.11            -3.539e-04  4.055e-03  -0.087  0.93044
## f.22009.0.12             3.767e-03  3.572e-03   1.054  0.29167
## f.22009.0.13            -4.757e-03  2.907e-03  -1.637  0.10172
## f.22009.0.14            -1.656e-02  3.071e-03  -5.392 6.98e-08 ***
## f.22009.0.15            -1.957e-03  3.147e-03  -0.622  0.53409
## f.22009.0.16            -7.469e-03  3.087e-03  -2.419  0.01554 *
## f.22009.0.17            -1.915e-03  2.868e-03  -0.668  0.50437
## f.22009.0.18             7.776e-04  2.875e-03   0.271  0.78676
## f.22009.0.19             2.280e-03  2.863e-03   0.796  0.42576
## f.22009.0.20             5.767e-04  2.868e-03   0.201  0.84065
## f.34.0.0                 2.093e-02  3.789e-04  55.223  < 2e-16 ***
## f.22000.0.0-1            2.948e-02  4.044e-02   0.729  0.46605
## f.22000.0.010           -3.043e-02  4.086e-02  -0.745  0.45645
```

```
## f.22000.0.0-10          8.483e-02  4.109e-02   2.065  0.03897 *
## f.22000.0.011           5.283e-02  4.019e-02   1.315  0.18863
## f.22000.0.0-11          4.786e-02  4.073e-02   1.175  0.23991
## f.22000.0.012           2.275e-02  4.046e-02   0.562  0.57387
## f.22000.0.013          -3.419e-03  4.030e-02  -0.085  0.93240
## f.22000.0.014           4.228e-02  4.004e-02   1.056  0.29096
## f.22000.0.015           4.142e-02  4.040e-02   1.025  0.30528
## f.22000.0.016           5.722e-02  4.055e-02   1.411  0.15819
## f.22000.0.017           4.325e-02  4.017e-02   1.077  0.28162
## f.22000.0.018          -2.458e-02  4.054e-02  -0.606  0.54436
## f.22000.0.019           1.003e-02  3.980e-02   0.252  0.80109
## f.22000.0.02            2.389e-03  3.994e-02   0.060  0.95230
## f.22000.0.0-2           7.870e-02  4.067e-02   1.935  0.05297 .
## f.22000.0.020           3.445e-03  4.047e-02   0.085  0.93218
## f.22000.0.021           2.494e-02  4.033e-02   0.619  0.53625
## f.22000.0.022           2.424e-02  4.034e-02   0.601  0.54789
## f.22000.0.023           1.767e-02  4.034e-02   0.438  0.66126
## f.22000.0.024           1.075e-02  3.981e-02   0.270  0.78720
## f.22000.0.025           5.229e-02  4.083e-02   1.281  0.20029
## f.22000.0.026          -3.795e-02  4.061e-02  -0.934  0.35010
## f.22000.0.027          -9.129e-04  3.998e-02  -0.023  0.98178
## f.22000.0.028           5.419e-03  4.038e-02   0.134  0.89325
## f.22000.0.029           2.100e-02  4.006e-02   0.524  0.60011
## f.22000.0.03            1.276e-02  4.001e-02   0.319  0.74980
## f.22000.0.0-3          -7.059e-03  4.022e-02  -0.176  0.86067
## f.22000.0.030          -3.104e-02  4.005e-02  -0.775  0.43840
## f.22000.0.031          -5.779e-03  4.024e-02  -0.144  0.88582
## f.22000.0.032          -1.871e-02  4.035e-02  -0.464  0.64279
## f.22000.0.033           2.037e-02  4.109e-02   0.496  0.62009
## f.22000.0.034           2.559e-02  4.014e-02   0.637  0.52385
## f.22000.0.035           6.675e-02  4.025e-02   1.658  0.09722 .
## f.22000.0.036           1.359e-02  3.998e-02   0.340  0.73392
## f.22000.0.037          -4.723e-03  4.058e-02  -0.116  0.90733
## f.22000.0.038           5.931e-02  4.038e-02   1.469  0.14194
## f.22000.0.039           2.551e-02  4.086e-02   0.624  0.53244
## f.22000.0.04           -3.540e-03  4.071e-02  -0.087  0.93070
## f.22000.0.0-4           7.625e-02  4.096e-02   1.861  0.06268 .
## f.22000.0.040           4.252e-02  4.039e-02   1.053  0.29251
## f.22000.0.041           1.186e-02  4.093e-02   0.290  0.77205
## f.22000.0.042          -1.284e-02  4.018e-02  -0.320  0.74924
## f.22000.0.043          -3.436e-02  4.099e-02  -0.838  0.40193
## f.22000.0.044           6.801e-02  4.062e-02   1.674  0.09406 .
## f.22000.0.045           7.960e-03  4.054e-02   0.196  0.84434
## f.22000.0.046          -2.260e-02  4.074e-02  -0.555  0.57919
## f.22000.0.047          -8.641e-03  4.078e-02  -0.212  0.83221
## f.22000.0.048           8.538e-03  4.078e-02   0.209  0.83414
## f.22000.0.049           6.153e-02  4.073e-02   1.511  0.13084
## f.22000.0.05            9.569e-03  4.006e-02   0.239  0.81120
## f.22000.0.0-5           6.581e-02  4.047e-02   1.626  0.10394
## f.22000.0.050           1.499e-03  4.073e-02   0.037  0.97063
## f.22000.0.051           7.360e-02  4.021e-02   1.830  0.06718 .
## f.22000.0.052           2.581e-02  4.100e-02   0.630  0.52896
## f.22000.0.053          -1.117e-02  4.059e-02  -0.275  0.78323
## f.22000.0.054           7.043e-02  4.071e-02   1.730  0.08358 .
## f.22000.0.055           5.912e-02  4.113e-02   1.437  0.15062
## f.22000.0.056           4.159e-02  4.076e-02   1.020  0.30765
## f.22000.0.057           5.153e-02  4.088e-02   1.261  0.20748
## f.22000.0.058           2.828e-02  4.075e-02   0.694  0.48778
## f.22000.0.059           2.739e-02  4.057e-02   0.675  0.49963
## f.22000.0.06            7.617e-03  3.991e-02   0.191  0.84863
## f.22000.0.0-6           4.112e-02  4.085e-02   1.006  0.31418
## f.22000.0.060           7.126e-03  4.097e-02   0.174  0.86190
## f.22000.0.061           3.267e-02  4.117e-02   0.794  0.42747
## f.22000.0.062           3.850e-02  4.106e-02   0.938  0.34835
## f.22000.0.063           1.365e-02  4.104e-02   0.333  0.73939
## f.22000.0.064          -4.652e-03  4.074e-02  -0.114  0.90909
## f.22000.0.065          -1.836e-03  4.096e-02  -0.045  0.96424
## f.22000.0.066           5.188e-04  4.132e-02   0.013  0.98998
## f.22000.0.067          -1.706e-02  4.094e-02  -0.417  0.67683
## f.22000.0.068           1.239e-02  4.082e-02   0.304  0.76143
## f.22000.0.069           2.299e-02  4.099e-02   0.561  0.57491
## f.22000.0.07           -2.651e-02  4.022e-02  -0.659  0.50987
## f.22000.0.0-7           5.507e-02  4.054e-02   1.359  0.17430
```

```
## f.22000.0.070           -1.668e-02  4.107e-02  -0.406  0.68465
## f.22000.0.071           -2.101e-02  4.081e-02  -0.515  0.60669
## f.22000.0.072            9.085e-04  4.108e-02   0.022  0.98236
## f.22000.0.073            8.785e-03  4.113e-02   0.214  0.83087
## f.22000.0.074            3.949e-02  4.120e-02   0.958  0.33784
## f.22000.0.075            7.249e-02  4.077e-02   1.778  0.07542 .
## f.22000.0.076            5.105e-02  4.121e-02   1.239  0.21544
## f.22000.0.077            2.218e-02  4.101e-02   0.541  0.58867
## f.22000.0.078           -3.651e-02  4.084e-02  -0.894  0.37137
## f.22000.0.079           -9.791e-03  4.066e-02  -0.241  0.80970
## f.22000.0.08            -8.479e-04  4.014e-02  -0.021  0.98315
## f.22000.0.0-8            2.452e-02  4.082e-02   0.601  0.54807
## f.22000.0.080            6.659e-02  4.114e-02   1.619  0.10555
## f.22000.0.081            3.026e-03  4.167e-02   0.073  0.94212
## f.22000.0.082           -2.100e-02  4.114e-02  -0.510  0.60974
## f.22000.0.083            1.793e-02  4.117e-02   0.435  0.66323
## f.22000.0.084            2.607e-02  4.118e-02   0.633  0.52669
## f.22000.0.085            3.206e-02  4.105e-02   0.781  0.43472
## f.22000.0.086           -1.202e-02  4.113e-02  -0.292  0.77010
## f.22000.0.087            3.209e-02  4.108e-02   0.781  0.43462
## f.22000.0.088            1.094e-02  4.192e-02   0.261  0.79405
## f.22000.0.089            8.775e-03  4.155e-02   0.211  0.83275
## f.22000.0.09            -2.189e-02  3.989e-02  -0.549  0.58317
## f.22000.0.0-9            5.666e-02  4.085e-02   1.387  0.16541
## f.22000.0.090            9.421e-03  4.120e-02   0.229  0.81914
## f.22000.0.091           -4.384e-02  4.249e-02  -1.032  0.30212
## f.22000.0.092            3.779e-02  4.120e-02   0.917  0.35898
## f.22000.0.093            3.415e-02  4.115e-02   0.830  0.40667
## f.22000.0.094            1.760e-03  5.261e-02   0.033  0.97332
## f.22000.0.095           -8.626e-03  4.392e-02  -0.196  0.84429
## `0.500000`:f.22001.0.01 -1.402e-02  5.759e-03  -2.434  0.01493 *
## ---
## 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:  0.03329,    Adjusted R-squared:  0.03225
## F-statistic: 31.78 on 128 and 118098 DF,  p-value: < 2.2e-16
```

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

```
summary(lm(selfharmscore ~  `0.500000`*f.22001.0.0 + + 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 , data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.500000` * f.22001.0.0 + +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, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.1853 -0.6198 -0.4320  0.4529  4.2089
##
## Coefficients:
##                           Estimate Std. Error t value Pr(>|t|)
## (Intercept)             -4.024e+01  7.403e-01 -54.351  < 2e-16 ***
## `0.500000`               4.128e-02  3.856e-03  10.704  < 2e-16 ***
## f.22001.0.01            -1.492e-01  5.779e-03 -25.818  < 2e-16 ***
## f.22009.0.1              1.055e-02  2.987e-03   3.531 0.000414 ***
## f.22009.0.2             -3.251e-03  2.914e-03  -1.116 0.264559
## f.22009.0.3             -8.002e-04  2.947e-03  -0.271 0.786011
## f.22009.0.5             -2.085e-03  3.128e-03  -0.666 0.505156
## f.22009.0.6              1.539e-04  2.957e-03   0.052 0.958501
## f.22009.0.7             -8.034e-03  3.005e-03  -2.673 0.007513 **
## f.22009.0.8              7.280e-03  3.195e-03   2.279 0.022694 *
```

```
## f.22009.0.8             7.280e-03  3.193e-03   2.279 0.022694
## f.22009.0.9            -9.576e-03  3.033e-03  -3.157 0.001594 **
## f.22009.0.10            1.462e-03  3.481e-03   0.420 0.674472
## f.22009.0.11           -1.365e-03  4.054e-03  -0.337 0.736236
## f.22009.0.12            1.711e-03  3.571e-03   0.479 0.631951
## f.22009.0.13           -3.409e-03  2.906e-03  -1.173 0.240820
## f.22009.0.14           -1.696e-02  3.070e-03  -5.524 3.32e-08 ***
## f.22009.0.15           -1.719e-03  3.146e-03  -0.546 0.584735
## f.22009.0.16           -9.839e-03  3.086e-03  -3.188 0.001432 **
## f.22009.0.17           -1.943e-05  2.867e-03  -0.007 0.994594
## f.22009.0.18           -7.908e-07  2.874e-03   0.000 0.999780
## f.22009.0.19            2.440e-03  2.862e-03   0.853 0.393876
## f.22009.0.20            2.794e-03  2.867e-03   0.975 0.329758
## f.34.0.0                2.064e-02  3.788e-04  54.493  < 2e-16 ***
## f.22000.0.0-1           3.677e-02  4.041e-02   0.910 0.362853
## f.22000.0.010          -3.717e-02  4.082e-02  -0.911 0.362484
## f.22000.0.0-10          8.077e-02  4.105e-02   1.967 0.049133 *
## f.22000.0.011           5.809e-02  4.016e-02   1.446 0.148073
## f.22000.0.0-11          2.752e-02  4.072e-02   0.676 0.499071
## f.22000.0.012          -7.877e-03  4.046e-02  -0.195 0.845662
## f.22000.0.013          -1.687e-02  4.027e-02  -0.419 0.675307
## f.22000.0.014           1.099e-02  4.002e-02   0.275 0.783654
## f.22000.0.015           3.431e-02  4.036e-02   0.850 0.395288
## f.22000.0.016           4.677e-02  4.051e-02   1.155 0.248279
## f.22000.0.017           2.103e-02  4.014e-02   0.524 0.600404
## f.22000.0.018          -3.122e-02  4.050e-02  -0.771 0.440904
## f.22000.0.019          -2.224e-03  3.977e-02  -0.056 0.955403
## f.22000.0.02           -1.774e-02  3.992e-02  -0.444 0.656817
## f.22000.0.0-2           7.838e-02  4.065e-02   1.928 0.053826 .
## f.22000.0.020          -1.124e-02  4.045e-02  -0.278 0.781044
## f.22000.0.021           3.434e-02  4.031e-02   0.852 0.394212
## f.22000.0.022           6.370e-03  4.031e-02   0.158 0.874434
## f.22000.0.023          -3.794e-03  4.034e-02  -0.094 0.925062
## f.22000.0.024           7.182e-03  3.978e-02   0.181 0.856711
## f.22000.0.025           2.674e-02  4.082e-02   0.655 0.512466
## f.22000.0.026          -5.092e-02  4.059e-02  -1.254 0.209670
## f.22000.0.027          -1.992e-02  3.995e-02  -0.499 0.618025
## f.22000.0.028           3.861e-03  4.037e-02   0.096 0.923821
## f.22000.0.029          -1.620e-03  4.004e-02  -0.040 0.967722
## f.22000.0.03            5.657e-03  4.000e-02   0.141 0.887534
## f.22000.0.0-3           2.242e-04  4.020e-02   0.006 0.995550
## f.22000.0.030          -3.777e-02  4.003e-02  -0.943 0.345475
## f.22000.0.031          -2.437e-02  4.022e-02  -0.606 0.544622
## f.22000.0.032          -1.986e-02  4.032e-02  -0.492 0.622367
## f.22000.0.033           1.388e-03  4.106e-02   0.034 0.973029
## f.22000.0.034           3.190e-02  4.011e-02   0.795 0.426341
## f.22000.0.035           5.099e-02  4.026e-02   1.267 0.205311
## f.22000.0.036           6.142e-03  3.995e-02   0.154 0.877833
## f.22000.0.037          -1.988e-02  4.055e-02  -0.490 0.623964
## f.22000.0.038           4.195e-02  4.036e-02   1.039 0.298588
## f.22000.0.039           1.125e-02  4.082e-02   0.275 0.782955
## f.22000.0.04           -7.340e-03  4.067e-02  -0.180 0.856770
## f.22000.0.0-4           5.663e-02  4.092e-02   1.384 0.166431
## f.22000.0.040           6.635e-03  4.038e-02   0.164 0.869503
## f.22000.0.041           2.069e-03  4.090e-02   0.051 0.959663
## f.22000.0.042          -3.468e-02  4.017e-02  -0.863 0.387919
## f.22000.0.043          -3.298e-02  4.095e-02  -0.805 0.420605
## f.22000.0.044           5.860e-02  4.059e-02   1.444 0.148847
## f.22000.0.045          -2.377e-03  4.050e-02  -0.059 0.953208
## f.22000.0.046          -3.919e-02  4.071e-02  -0.963 0.335613
## f.22000.0.047          -1.918e-02  4.076e-02  -0.471 0.637957
## f.22000.0.048          -1.435e-02  4.075e-02  -0.352 0.724649
## f.22000.0.049           4.941e-02  4.069e-02   1.214 0.224577
## f.22000.0.05           -8.306e-03  4.004e-02  -0.207 0.835658
## f.22000.0.0-5           7.570e-02  4.046e-02   1.871 0.061388 .
## f.22000.0.050           2.528e-03  4.069e-02   0.062 0.950454
## f.22000.0.051           7.155e-02  4.019e-02   1.780 0.075014 .
## f.22000.0.052           2.303e-03  4.098e-02   0.056 0.955190
## f.22000.0.053          -1.533e-02  4.060e-02  -0.377 0.705837
## f.22000.0.054           6.066e-02  4.067e-02   1.491 0.135849
## f.22000.0.055           5.649e-02  4.111e-02   1.374 0.169439
## f.22000.0.056           3.736e-02  4.074e-02   0.917 0.359024
## f.22000.0.057           4.632e-02  4.085e-02   1.134 0.256857
```

```
## f.22000.0.058            1.403e-02  4.074e-02   0.344 0.730554
## f.22000.0.059            1.122e-02  4.056e-02   0.276 0.782170
## f.22000.0.06             8.135e-03  3.988e-02   0.204 0.838372
## f.22000.0.0-6            4.265e-02  4.081e-02   1.045 0.295972
## f.22000.0.060           -2.628e-02  4.095e-02  -0.642 0.521072
## f.22000.0.061            1.479e-02  4.113e-02   0.360 0.719082
## f.22000.0.062            2.745e-02  4.103e-02   0.669 0.503410
## f.22000.0.063           -3.216e-04  4.101e-02  -0.008 0.993743
## f.22000.0.064           -1.585e-02  4.071e-02  -0.389 0.696991
## f.22000.0.065           -1.771e-02  4.093e-02  -0.433 0.665205
## f.22000.0.066           -1.070e-02  4.130e-02  -0.259 0.795645
## f.22000.0.067           -2.246e-02  4.091e-02  -0.549 0.583057
## f.22000.0.068            7.738e-03  4.080e-02   0.190 0.849590
## f.22000.0.069            3.256e-03  4.096e-02   0.080 0.936633
## f.22000.0.07            -3.514e-02  4.019e-02  -0.874 0.381927
## f.22000.0.0-7            4.801e-02  4.052e-02   1.185 0.236073
## f.22000.0.070           -1.969e-02  4.104e-02  -0.480 0.631352
## f.22000.0.071           -1.145e-02  4.077e-02  -0.281 0.778794
## f.22000.0.072           -7.633e-03  4.105e-02  -0.186 0.852486
## f.22000.0.073           -4.254e-03  4.111e-02  -0.103 0.917596
## f.22000.0.074            3.452e-02  4.118e-02   0.838 0.401873
## f.22000.0.075            6.221e-02  4.075e-02   1.527 0.126864
## f.22000.0.076            3.471e-02  4.118e-02   0.843 0.399247
## f.22000.0.077            7.160e-03  4.100e-02   0.175 0.861354
## f.22000.0.078           -4.954e-02  4.082e-02  -1.214 0.224940
## f.22000.0.079           -1.837e-02  4.067e-02  -0.452 0.651543
## f.22000.0.08            -1.202e-02  4.011e-02  -0.300 0.764357
## f.22000.0.0-8            2.137e-02  4.083e-02   0.523 0.600782
## f.22000.0.080            3.661e-02  4.114e-02   0.890 0.373512
## f.22000.0.081            3.038e-03  4.164e-02   0.073 0.941842
## f.22000.0.082           -4.208e-02  4.110e-02  -1.024 0.305931
## f.22000.0.083           -5.366e-04  4.115e-02  -0.013 0.989597
## f.22000.0.084            2.151e-02  4.115e-02   0.523 0.601166
## f.22000.0.085            3.732e-02  4.103e-02   0.910 0.362970
## f.22000.0.086           -2.211e-02  4.111e-02  -0.538 0.590781
## f.22000.0.087            4.003e-02  4.106e-02   0.975 0.329570
## f.22000.0.088            4.702e-03  4.189e-02   0.112 0.910626
## f.22000.0.089            4.857e-04  4.151e-02   0.012 0.990664
## f.22000.0.09            -9.710e-03  3.986e-02  -0.244 0.807520
## f.22000.0.0-9            6.674e-02  4.084e-02   1.634 0.102258
## f.22000.0.090           -4.390e-03  4.116e-02  -0.107 0.915058
## f.22000.0.091           -3.926e-02  4.249e-02  -0.924 0.355481
## f.22000.0.092            2.241e-02  4.117e-02   0.544 0.586235
## f.22000.0.093            1.139e-02  4.113e-02   0.277 0.781900
## f.22000.0.094            4.319e-03  5.257e-02   0.082 0.934514
## f.22000.0.095           -1.812e-02  4.388e-02  -0.413 0.679604
## `0.500000`:f.22001.0.01 -1.556e-02  5.757e-03  -2.702 0.006892 **
## ---
## 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
```

Moderating effect of childtrauma on SSBI

```
summary(lm(selfharmideation ~  `0.500000`*childtraumasum + f.22001.0.0 + + 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, data = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ `0.500000` * childtraumasum +
##     f.22001.0.0 + +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,
##     data = merged)
```

```
##     data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.0352 -0.5407 -0.3192  0.2600  5.2833
##
## Coefficients:
##                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)               -3.817e+01  7.097e-01 -53.786  < 2e-16 ***
## `0.500000`                 2.312e-02  2.745e-03   8.420  < 2e-16 ***
## childtraumasum             2.865e-01  2.770e-03 103.439  < 2e-16 ***
## f.22001.0.01              -1.025e-01  5.541e-03 -18.508  < 2e-16 ***
## f.22009.0.1                8.697e-03  2.862e-03   3.039 0.002371 **
## f.22009.0.2                7.584e-04  2.792e-03   0.272 0.785892
## f.22009.0.3               -1.013e-03  2.824e-03  -0.359 0.719704
## f.22009.0.5               -1.232e-02  2.998e-03  -4.108 3.99e-05 ***
## f.22009.0.6                1.881e-04  2.833e-03   0.066 0.947066
## f.22009.0.7               -6.027e-03  2.879e-03  -2.093 0.036325 *
## f.22009.0.8                5.410e-03  3.061e-03   1.767 0.077170 .
## f.22009.0.9               -1.044e-02  2.906e-03  -3.593 0.000327 ***
## f.22009.0.10               1.199e-03  3.335e-03   0.360 0.719170
## f.22009.0.11              -4.855e-03  3.883e-03  -1.250 0.211257
## f.22009.0.12               5.232e-03  3.422e-03   1.529 0.126249
## f.22009.0.13              -3.261e-03  2.784e-03  -1.171 0.241543
## f.22009.0.14              -5.322e-03  2.944e-03  -1.808 0.070645 .
## f.22009.0.15              -2.234e-03  3.014e-03  -0.741 0.458592
## f.22009.0.16              -2.660e-03  2.957e-03  -0.899 0.368389
## f.22009.0.17              -1.572e-04  2.747e-03  -0.057 0.954358
## f.22009.0.18              -1.549e-03  2.754e-03  -0.562 0.573834
## f.22009.0.19               2.710e-03  2.741e-03   0.989 0.322866
## f.22009.0.20              -7.100e-04  2.747e-03  -0.258 0.796067
## f.34.0.0                   1.957e-02  3.632e-04  53.890  < 2e-16 ***
## f.22000.0.0-1             -7.571e-03  3.878e-02  -0.195 0.845211
## f.22000.0.010             -1.257e-02  3.914e-02  -0.321 0.748008
## f.22000.0.0-10             7.603e-02  3.937e-02   1.931 0.053448 .
## f.22000.0.011              5.929e-02  3.849e-02   1.540 0.123501
## f.22000.0.0-11             1.982e-02  3.903e-02   0.508 0.611675
## f.22000.0.012              3.787e-02  3.876e-02   0.977 0.328517
## f.22000.0.013             -3.957e-03  3.863e-02  -0.102 0.918404
## f.22000.0.014              4.639e-02  3.838e-02   1.209 0.226769
## f.22000.0.015              3.609e-02  3.869e-02   0.933 0.350873
## f.22000.0.016              4.931e-02  3.887e-02   1.269 0.204519
## f.22000.0.017              4.157e-02  3.847e-02   1.081 0.279891
## f.22000.0.018             -3.461e-02  3.888e-02  -0.890 0.373378
## f.22000.0.019              6.050e-03  3.815e-02   0.159 0.874005
## f.22000.0.02               4.356e-04  3.826e-02   0.011 0.990915
## f.22000.0.0-2              6.298e-02  3.896e-02   1.617 0.105948
## f.22000.0.020              6.057e-03  3.876e-02   0.156 0.875817
## f.22000.0.021              2.745e-02  3.863e-02   0.711 0.477375
## f.22000.0.022              1.279e-02  3.863e-02   0.331 0.740608
## f.22000.0.023              9.157e-03  3.863e-02   0.237 0.812622
## f.22000.0.024              1.650e-02  3.814e-02   0.433 0.665246
## f.22000.0.025              6.260e-02  3.912e-02   1.600 0.109557
## f.22000.0.026             -2.885e-02  3.892e-02  -0.741 0.458474
## f.22000.0.027              1.512e-02  3.829e-02   0.395 0.693034
## f.22000.0.028             -6.456e-04  3.868e-02  -0.017 0.986684
## f.22000.0.029              1.759e-02  3.837e-02   0.458 0.646641
## f.22000.0.03               9.761e-03  3.831e-02   0.255 0.798871
## f.22000.0.0-3             -2.563e-02  3.852e-02  -0.665 0.505752
## f.22000.0.030             -1.855e-02  3.838e-02  -0.483 0.628915
## f.22000.0.031             -1.376e-02  3.853e-02  -0.357 0.721083
## f.22000.0.032             -2.417e-02  3.864e-02  -0.626 0.531628
## f.22000.0.033              1.649e-02  3.935e-02   0.419 0.675128
## f.22000.0.034              5.868e-03  3.845e-02   0.153 0.878702
## f.22000.0.035              6.703e-02  3.857e-02   1.738 0.082234 .
## f.22000.0.036              9.820e-03  3.829e-02   0.256 0.797591
## f.22000.0.037              4.777e-03  3.886e-02   0.123 0.902165
## f.22000.0.038              4.613e-02  3.871e-02   1.192 0.233343
## f.22000.0.039              2.927e-02  3.914e-02   0.748 0.454468
## f.22000.0.04               2.810e-03  3.900e-02   0.072 0.942557
## f.22000.0.0-4              4.289e-02  3.922e-02   1.094 0.274077
## f.22000.0.040              3.616e-02  3.868e-02   0.935 0.349925
## f.22000.0.041              1.935e-02  3.920e-02   0.494 0.621524
```

```
## f.22000.0.042             -3.367e-03  3.850e-02  -0.087 0.930314
## f.22000.0.043             -3.137e-02  3.927e-02  -0.799 0.424390
## f.22000.0.044              7.669e-02  3.892e-02   1.971 0.048773 *
## f.22000.0.045              1.015e-02  3.883e-02   0.261 0.793807
## f.22000.0.046             -1.910e-02  3.902e-02  -0.490 0.624468
## f.22000.0.047              2.160e-03  3.908e-02   0.055 0.955929
## f.22000.0.048              1.287e-03  3.909e-02   0.033 0.973741
## f.22000.0.049              6.687e-02  3.899e-02   1.715 0.086336 .
## f.22000.0.05               2.874e-02  3.837e-02   0.749 0.453944
## f.22000.0.0-5              4.078e-02  3.876e-02   1.052 0.292704
## f.22000.0.050             -1.806e-02  3.903e-02  -0.463 0.643460
## f.22000.0.051              7.005e-02  3.852e-02   1.818 0.069005 .
## f.22000.0.052              3.471e-02  3.926e-02   0.884 0.376653
## f.22000.0.053             -2.605e-05  3.888e-02  -0.001 0.999465
## f.22000.0.054              7.237e-02  3.899e-02   1.856 0.063441 .
## f.22000.0.055              5.671e-02  3.938e-02   1.440 0.149812
## f.22000.0.056              5.227e-02  3.906e-02   1.338 0.180787
## f.22000.0.057              5.345e-02  3.919e-02   1.364 0.172607
## f.22000.0.058              4.018e-02  3.904e-02   1.029 0.303354
## f.22000.0.059              2.246e-02  3.886e-02   0.578 0.563151
## f.22000.0.06               1.038e-02  3.823e-02   0.271 0.786065
## f.22000.0.0-6              2.526e-02  3.912e-02   0.646 0.518405
## f.22000.0.060              1.730e-02  3.925e-02   0.441 0.659436
## f.22000.0.061              1.877e-02  3.943e-02   0.476 0.634166
## f.22000.0.062              4.152e-02  3.934e-02   1.055 0.291212
## f.22000.0.063              8.907e-03  3.933e-02   0.226 0.820821
## f.22000.0.064             -5.489e-03  3.904e-02  -0.141 0.888177
## f.22000.0.065             -2.442e-03  3.923e-02  -0.062 0.950379
## f.22000.0.066              2.276e-04  3.958e-02   0.006 0.995413
## f.22000.0.067             -1.290e-02  3.921e-02  -0.329 0.742266
## f.22000.0.068             -1.846e-04  3.916e-02  -0.005 0.996239
## f.22000.0.069              1.727e-02  3.926e-02   0.440 0.659960
## f.22000.0.07              -3.417e-02  3.853e-02  -0.887 0.375143
## f.22000.0.0-7              4.935e-02  3.883e-02   1.271 0.203741
## f.22000.0.070             -2.592e-02  3.932e-02  -0.659 0.509695
## f.22000.0.071             -1.439e-02  3.908e-02  -0.368 0.712709
## f.22000.0.072              1.685e-03  3.933e-02   0.043 0.965819
## f.22000.0.073              6.584e-03  3.943e-02   0.167 0.867376
## f.22000.0.074              4.708e-02  3.945e-02   1.193 0.232705
## f.22000.0.075              6.640e-02  3.908e-02   1.699 0.089310 .
## f.22000.0.076              6.194e-02  3.946e-02   1.570 0.116504
## f.22000.0.077              3.896e-02  3.927e-02   0.992 0.321161
## f.22000.0.078             -2.429e-02  3.914e-02  -0.621 0.534845
## f.22000.0.079             -1.686e-04  3.894e-02  -0.004 0.996546
## f.22000.0.08              -1.477e-03  3.845e-02  -0.038 0.969349
## f.22000.0.0-8              9.732e-03  3.908e-02   0.249 0.803362
## f.22000.0.080              6.543e-02  3.944e-02   1.659 0.097100 .
## f.22000.0.081              3.907e-03  3.990e-02   0.098 0.922011
## f.22000.0.082             -9.798e-03  3.942e-02  -0.249 0.803721
## f.22000.0.083              2.521e-02  3.944e-02   0.639 0.522579
## f.22000.0.084              1.961e-02  3.946e-02   0.497 0.619146
## f.22000.0.085              1.514e-02  3.931e-02   0.385 0.700066
## f.22000.0.086             -1.250e-02  3.942e-02  -0.317 0.751154
## f.22000.0.087              5.500e-02  3.937e-02   1.397 0.162367
## f.22000.0.088              1.837e-02  4.015e-02   0.457 0.647317
## f.22000.0.089              2.170e-03  3.982e-02   0.054 0.956539
## f.22000.0.09              -2.159e-02  3.823e-02  -0.565 0.572310
## f.22000.0.0-9              3.594e-02  3.912e-02   0.919 0.358283
## f.22000.0.090              5.963e-03  3.946e-02   0.151 0.879883
## f.22000.0.091             -4.672e-02  4.071e-02  -1.147 0.251205
## f.22000.0.092              3.614e-02  3.949e-02   0.915 0.360194
## f.22000.0.093              2.521e-02  3.947e-02   0.639 0.522971
## f.22000.0.094             -3.989e-03  5.047e-02  -0.079 0.936995
## f.22000.0.095             -6.185e-03  4.210e-02  -0.147 0.883214
## `0.500000`:childtraumasum  6.735e-03  2.760e-03   2.440 0.014677 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9411 on 117820 degrees of freedom
##   (1917 observations deleted due to missingness)
## Multiple R-squared:  0.1143, Adjusted R-squared:  0.1133
## F-statistic: 117.9 on 129 and 117820 DF,  p-value: < 2.2e-16
```

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

```
summary(lm(selfharmscore ~  `0.500000`*childtraumasum + f.22001.0.0 + + 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.220
09.0.19 + f.22009.0.20 +  f.34.0.0 + f.22000.0.0, data = merged))
```

```
##
## Call:
## lm(formula = selfharmscore ~ `0.500000` * childtraumasum + f.22001.0.0 +
##     +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, data = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.0471 -0.5646 -0.3409  0.4333  4.3767
##
## Coefficients:
##                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)               -3.766e+01  7.102e-01 -53.032  < 2e-16 ***
## `0.500000`                 2.597e-02  2.747e-03   9.455  < 2e-16 ***
## childtraumasum             2.840e-01  2.775e-03 102.368  < 2e-16 ***
## f.22001.0.01              -1.297e-01  5.544e-03 -23.400  < 2e-16 ***
## f.22009.0.1                1.002e-02  2.863e-03   3.501 0.000464 ***
## f.22009.0.2               -1.370e-03  2.793e-03  -0.491 0.623752
## f.22009.0.3               -1.357e-03  2.826e-03  -0.480 0.631131
## f.22009.0.5               -1.204e-02  3.000e-03  -4.015 5.96e-05 ***
## f.22009.0.6                1.929e-04  2.835e-03   0.068 0.945764
## f.22009.0.7               -5.882e-03  2.881e-03  -2.041 0.041229 *
## f.22009.0.8                4.684e-03  3.063e-03   1.529 0.126182
## f.22009.0.9               -1.160e-02  2.908e-03  -3.989 6.64e-05 ***
## f.22009.0.10               2.687e-03  3.337e-03   0.805 0.420617
## f.22009.0.11              -5.885e-03  3.886e-03  -1.514 0.129954
## f.22009.0.12               3.058e-03  3.424e-03   0.893 0.371704
## f.22009.0.13              -1.994e-03  2.786e-03  -0.716 0.474054
## f.22009.0.14              -5.671e-03  2.946e-03  -1.925 0.054182 .
## f.22009.0.15              -1.999e-03  3.016e-03  -0.663 0.507490
## f.22009.0.16              -4.955e-03  2.959e-03  -1.674 0.094053 .
## f.22009.0.17               1.720e-03  2.749e-03   0.626 0.531592
## f.22009.0.18              -2.411e-03  2.755e-03  -0.875 0.381598
## f.22009.0.19               2.925e-03  2.743e-03   1.066 0.286412
## f.22009.0.20               1.552e-03  2.749e-03   0.565 0.572359
## f.34.0.0                   1.932e-02  3.634e-04  53.166  < 2e-16 ***
## f.22000.0.0-1              2.786e-03  3.879e-02   0.072 0.942746
## f.22000.0.010             -1.945e-02  3.914e-02  -0.497 0.619140
## f.22000.0.0-10             7.239e-02  3.937e-02   1.839 0.065960 .
## f.22000.0.011              6.457e-02  3.850e-02   1.677 0.093519 .
## f.22000.0.0-11             1.507e-03  3.906e-02   0.039 0.969227
## f.22000.0.012              8.106e-03  3.880e-02   0.209 0.834524
## f.22000.0.013             -1.595e-02  3.863e-02  -0.413 0.679618
## f.22000.0.014              1.620e-02  3.840e-02   0.422 0.673119
## f.22000.0.015              2.900e-02  3.869e-02   0.750 0.453509
## f.22000.0.016              3.873e-02  3.886e-02   0.996 0.319036
## f.22000.0.017              2.000e-02  3.848e-02   0.520 0.603170
## f.22000.0.018             -4.131e-02  3.888e-02  -1.063 0.288001
## f.22000.0.019             -5.733e-03  3.816e-02  -0.150 0.880564
## f.22000.0.02              -1.972e-02  3.827e-02  -0.515 0.606411
## f.22000.0.0-2              6.279e-02  3.897e-02   1.611 0.107140
## f.22000.0.020             -8.760e-03  3.878e-02  -0.226 0.821263
## f.22000.0.021              3.763e-02  3.865e-02   0.974 0.330193
## f.22000.0.022             -4.545e-03  3.864e-02  -0.118 0.906373
## f.22000.0.023             -1.088e-02  3.866e-02  -0.282 0.778308
## f.22000.0.024              1.308e-02  3.814e-02   0.343 0.731582
## f.22000.0.025              3.713e-02  3.915e-02   0.949 0.342847
## f.22000.0.026             -4.187e-02  3.894e-02  -1.075 0.282223
## f.22000.0.027             -3.903e-03  3.830e-02  -0.102 0.918829
## f.22000.0.028             -2.222e-03  3.871e-02  -0.057 0.954222
## f.22000.0.029             -4.742e-03  3.839e-02  -0.124 0.901696
```

```
## f.22000.0.03              2.482e-03  3.833e-02   0.065 0.948363
## f.22000.0.0-3            -1.684e-02  3.854e-02  -0.437 0.662166
## f.22000.0.030            -2.361e-02  3.840e-02  -0.615 0.538675
## f.22000.0.031            -3.203e-02  3.855e-02  -0.831 0.405960
## f.22000.0.032            -2.509e-02  3.865e-02  -0.649 0.516146
## f.22000.0.033            -1.457e-03  3.936e-02  -0.037 0.970465
## f.22000.0.034             1.338e-02  3.845e-02   0.348 0.727956
## f.22000.0.035             5.247e-02  3.861e-02   1.359 0.174147
## f.22000.0.036             2.804e-03  3.830e-02   0.073 0.941643
## f.22000.0.037            -9.710e-03  3.887e-02  -0.250 0.802717
## f.22000.0.038             2.970e-02  3.872e-02   0.767 0.443034
## f.22000.0.039             1.502e-02  3.914e-02   0.384 0.701090
## f.22000.0.04             -7.172e-04  3.900e-02  -0.018 0.985327
## f.22000.0.0-4             2.377e-02  3.922e-02   0.606 0.544454
## f.22000.0.040             8.023e-04  3.871e-02   0.021 0.983463
## f.22000.0.041             9.257e-03  3.921e-02   0.236 0.813382
## f.22000.0.042            -2.355e-02  3.853e-02  -0.611 0.541099
## f.22000.0.043            -2.932e-02  3.927e-02  -0.746 0.455369
## f.22000.0.044             6.795e-02  3.893e-02   1.746 0.080880 .
## f.22000.0.045             1.424e-04  3.883e-02   0.004 0.997075
## f.22000.0.046            -3.542e-02  3.902e-02  -0.908 0.363954
## f.22000.0.047            -8.053e-03  3.910e-02  -0.206 0.836814
## f.22000.0.048            -2.070e-02  3.909e-02  -0.530 0.596398
## f.22000.0.049             5.494e-02  3.899e-02   1.409 0.158862
## f.22000.0.05              1.144e-02  3.839e-02   0.298 0.765657
## f.22000.0.0-5             5.095e-02  3.879e-02   1.314 0.188956
## f.22000.0.050            -1.642e-02  3.903e-02  -0.421 0.673873
## f.22000.0.051             6.873e-02  3.854e-02   1.783 0.074522 .
## f.22000.0.052             1.141e-02  3.928e-02   0.290 0.771526
## f.22000.0.053            -2.905e-03  3.893e-02  -0.075 0.940519
## f.22000.0.054             6.285e-02  3.899e-02   1.612 0.106982
## f.22000.0.055             5.451e-02  3.939e-02   1.384 0.166488
## f.22000.0.056             4.732e-02  3.906e-02   1.211 0.225725
## f.22000.0.057             4.924e-02  3.920e-02   1.256 0.209004
## f.22000.0.058             2.585e-02  3.905e-02   0.662 0.508061
## f.22000.0.059             6.317e-03  3.888e-02   0.162 0.870941
## f.22000.0.06              1.145e-02  3.823e-02   0.299 0.764600
## f.22000.0.0-6             2.721e-02  3.912e-02   0.695 0.486761
## f.22000.0.060            -1.633e-02  3.927e-02  -0.416 0.677598
## f.22000.0.061             1.308e-03  3.943e-02   0.033 0.973529
## f.22000.0.062             3.097e-02  3.935e-02   0.787 0.431155
## f.22000.0.063            -5.493e-03  3.934e-02  -0.140 0.888949
## f.22000.0.064            -1.588e-02  3.904e-02  -0.407 0.684301
## f.22000.0.065            -1.789e-02  3.924e-02  -0.456 0.648513
## f.22000.0.066            -1.086e-02  3.959e-02  -0.274 0.783857
## f.22000.0.067            -1.835e-02  3.922e-02  -0.468 0.639959
## f.22000.0.068            -3.845e-03  3.917e-02  -0.098 0.921813
## f.22000.0.069            -2.502e-03  3.927e-02  -0.064 0.949187
## f.22000.0.07             -4.247e-02  3.854e-02  -1.102 0.270407
## f.22000.0.0-7             4.407e-02  3.885e-02   1.134 0.256594
## f.22000.0.070            -2.873e-02  3.933e-02  -0.731 0.465006
## f.22000.0.071            -4.583e-03  3.908e-02  -0.117 0.906658
## f.22000.0.072            -6.580e-03  3.934e-02  -0.167 0.867159
## f.22000.0.073            -5.616e-03  3.945e-02  -0.142 0.886780
## f.22000.0.074             4.237e-02  3.947e-02   1.073 0.283059
## f.22000.0.075             5.628e-02  3.910e-02   1.439 0.150029
## f.22000.0.076             4.784e-02  3.947e-02   1.212 0.225521
## f.22000.0.077             2.390e-02  3.930e-02   0.608 0.542988
## f.22000.0.078            -3.646e-02  3.916e-02  -0.931 0.351764
## f.22000.0.079            -6.753e-03  3.898e-02  -0.173 0.862458
## f.22000.0.08             -1.222e-02  3.845e-02  -0.318 0.750553
## f.22000.0.0-8             8.056e-03  3.913e-02   0.206 0.836878
## f.22000.0.080             3.617e-02  3.947e-02   0.916 0.359508
## f.22000.0.081             3.942e-03  3.991e-02   0.099 0.921328
## f.22000.0.082            -2.999e-02  3.942e-02  -0.761 0.446858
## f.22000.0.083             5.513e-03  3.946e-02   0.140 0.888886
## f.22000.0.084             1.530e-02  3.946e-02   0.388 0.698172
## f.22000.0.085             2.011e-02  3.933e-02   0.511 0.609054
## f.22000.0.086            -2.162e-02  3.943e-02  -0.548 0.583464
## f.22000.0.087             6.401e-02  3.939e-02   1.625 0.104131
## f.22000.0.088             1.264e-02  4.016e-02   0.315 0.752987
## f.22000.0.089            -4.087e-03  3.982e-02  -0.103 0.918250
## f.22000.0.09             -9.526e-03  3.823e-02  -0.249 0.803251
```

```
## f.22000.0.09              -9.526e-03  3.825e-02  -0.249 0.803251
## f.22000.0.0-9              4.711e-02  3.915e-02   1.203 0.228810
## f.22000.0.090             -7.497e-03  3.946e-02  -0.190 0.849310
## f.22000.0.091             -4.121e-02  4.075e-02  -1.011 0.311828
## f.22000.0.092              2.059e-02  3.950e-02   0.521 0.602158
## f.22000.0.093              2.833e-03  3.949e-02   0.072 0.942796
## f.22000.0.094             -8.593e-04  5.047e-02  -0.017 0.986416
## f.22000.0.095             -1.705e-02  4.210e-02  -0.405 0.685539
## `0.500000`:childtraumasum  7.238e-03  2.764e-03   2.619 0.008826 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9411 on 117662 degrees of freedom
##   (2075 observations deleted due to missingness)
## Multiple R-squared:  0.1146, Adjusted R-squared:  0.1136
## F-statistic:   118 on 129 and 117662 DF,  p-value: < 2.2e-16
```

Lets check if mediating variables are associated with SSBI

```
setnames( merged, "0.500000", "pgsfive" )

# anxietyscore
summary(lm(selfharmideation ~  anxietyscore + 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.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 = selfharmideation ~ anxietyscore + 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.9541 -0.9803 -0.3122  0.7157  5.3180
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.595e+01  1.922e+00 -18.699  < 2e-16 ***
## anxietyscore    3.337e-01  7.423e-03  44.954  < 2e-16 ***
## pgsfive         2.817e-02  7.353e-03   3.831 0.000128 ***
## f.22009.0.1     1.875e-02  7.608e-03   2.465 0.013726 *
## f.22009.0.2    -1.230e-02  7.449e-03  -1.651 0.098715 .
## f.22009.0.3    -8.278e-03  7.503e-03  -1.103 0.269964
## f.22009.0.5    -1.197e-02  7.928e-03  -1.510 0.130977
## f.22009.0.6     1.200e-02  7.554e-03   1.589 0.112128
## f.22009.0.7    -1.061e-02  7.582e-03  -1.399 0.161806
## f.22009.0.8     8.176e-03  8.171e-03   1.001 0.317020
## f.22009.0.9    -1.619e-02  7.801e-03  -2.076 0.037936 *
## f.22009.0.10    2.609e-03  8.942e-03   0.292 0.770475
## f.22009.0.11   -3.019e-03  1.044e-02  -0.289 0.772342
## f.22009.0.12    9.628e-03  9.079e-03   1.060 0.288966
## f.22009.0.13   -7.915e-03  7.390e-03  -1.071 0.284157
## f.22009.0.14   -1.640e-02  7.908e-03  -2.074 0.038103 *
## f.22009.0.15    2.880e-03  8.053e-03   0.358 0.720667
## f.22009.0.16   -1.718e-02  7.921e-03  -2.169 0.030105 *
## f.22009.0.17    1.000e-03  7.328e-03   0.136 0.891449
## f.22009.0.18   -1.437e-03  7.398e-03  -0.194 0.846010
## f.22009.0.19    4.011e-04  7.335e-03   0.055 0.956392
## f.22009.0.20   -4.974e-03  7.331e-03  -0.679 0.497438
## f.34.0.0        1.865e-02  9.831e-04  18.975  < 2e-16 ***
## f.22000.0.0-1   6.367e-02  1.040e-01   0.612 0.540306
## f.22000.0.010  -4.710e-02  1.046e-01  -0.450 0.652666
## f.22000.0.0-10  1.080e-01  1.037e-01   1.042 0.297378
## f.22000.0.011   3.015e-03  1.004e-01   0.030 0.976033
## f.22000.0.0-11  5.699e-02  1.041e-01   0.548 0.583982
## f.22000.0.012  -1.697e-02  1.025e-01  -0.166 0.868492
```

```
## f.22000.0.013  -4.090e-02  1.015e-01  -0.403 0.687129
## f.22000.0.014   2.140e-02  1.007e-01   0.212 0.831768
## f.22000.0.015   3.234e-02  1.022e-01   0.316 0.751735
## f.22000.0.016   5.838e-02  1.015e-01   0.575 0.565011
## f.22000.0.017   1.146e-01  1.043e-01   1.099 0.271776
## f.22000.0.018   2.611e-02  1.024e-01   0.255 0.798849
## f.22000.0.019   9.885e-02  1.020e-01   0.970 0.332245
## f.22000.0.02    9.610e-03  1.003e-01   0.096 0.923674
## f.22000.0.0-2  -3.092e-02  9.980e-02  -0.310 0.756689
## f.22000.0.020  -8.901e-03  1.011e-01  -0.088 0.929829
## f.22000.0.021   6.986e-02  1.020e-01   0.685 0.493639
## f.22000.0.022  -6.165e-02  1.019e-01  -0.605 0.545284
## f.22000.0.023   7.175e-02  1.015e-01   0.707 0.479486
## f.22000.0.024  -2.736e-02  1.011e-01  -0.271 0.786627
## f.22000.0.025   9.123e-03  1.039e-01   0.088 0.930023
## f.22000.0.026  -8.540e-02  1.031e-01  -0.828 0.407608
## f.22000.0.027  -3.530e-02  1.016e-01  -0.347 0.728385
## f.22000.0.028   1.157e-03  1.005e-01   0.012 0.990812
## f.22000.0.029  -1.188e-01  9.954e-02  -1.194 0.232615
## f.22000.0.03    2.176e-02  1.029e-01   0.211 0.832542
## f.22000.0.0-3   1.898e-02  1.031e-01   0.184 0.853969
## f.22000.0.030  -1.109e-01  1.002e-01  -1.107 0.268355
## f.22000.0.031  -5.794e-02  9.978e-02  -0.581 0.561492
## f.22000.0.032  -4.961e-02  1.021e-01  -0.486 0.627086
## f.22000.0.033   4.847e-02  1.037e-01   0.468 0.640087
## f.22000.0.034   5.130e-02  1.016e-01   0.505 0.613499
## f.22000.0.035   2.541e-02  1.022e-01   0.249 0.803673
## f.22000.0.036  -1.585e-02  1.034e-01  -0.153 0.878229
## f.22000.0.037  -1.112e-01  1.058e-01  -1.051 0.293318
## f.22000.0.038   2.028e-01  1.033e-01   1.962 0.049772 *
## f.22000.0.039   4.299e-04  1.022e-01   0.004 0.996644
## f.22000.0.04   -2.083e-02  1.044e-01  -0.199 0.841913
## f.22000.0.0-4   1.492e-01  1.044e-01   1.428 0.153191
## f.22000.0.040   3.178e-02  1.015e-01   0.313 0.754091
## f.22000.0.041  -2.777e-02  1.040e-01  -0.267 0.789446
## f.22000.0.042   1.810e-02  1.019e-01   0.178 0.859038
## f.22000.0.043  -4.081e-02  1.052e-01  -0.388 0.698206
## f.22000.0.044   3.646e-02  1.001e-01   0.364 0.715729
## f.22000.0.045  -9.824e-03  1.036e-01  -0.095 0.924487
## f.22000.0.046  -4.403e-02  1.032e-01  -0.427 0.669740
## f.22000.0.047  -1.006e-01  1.021e-01  -0.985 0.324436
## f.22000.0.048   2.705e-02  1.019e-01   0.265 0.790692
## f.22000.0.049   6.826e-03  1.027e-01   0.066 0.947011
## f.22000.0.05    7.292e-02  1.006e-01   0.725 0.468740
## f.22000.0.0-5  -5.122e-02  1.028e-01  -0.498 0.618386
## f.22000.0.050   2.157e-03  1.058e-01   0.020 0.983738
## f.22000.0.051   1.594e-01  1.017e-01   1.568 0.116804
## f.22000.0.052  -1.155e-02  1.032e-01  -0.112 0.910910
## f.22000.0.053   3.485e-02  1.054e-01   0.330 0.741066
## f.22000.0.054   3.654e-02  1.022e-01   0.357 0.720784
## f.22000.0.055   1.699e-01  1.016e-01   1.672 0.094611 .
## f.22000.0.056   2.325e-02  1.044e-01   0.223 0.823794
## f.22000.0.057   7.740e-02  1.008e-01   0.768 0.442710
## f.22000.0.058   4.534e-02  1.039e-01   0.437 0.662474
## f.22000.0.059   3.125e-02  1.045e-01   0.299 0.764991
## f.22000.0.06   -8.815e-02  9.996e-02  -0.882 0.377859
## f.22000.0.0-6   2.677e-04  1.016e-01   0.003 0.997897
## f.22000.0.060  -5.312e-02  1.005e-01  -0.529 0.597029
## f.22000.0.061   8.480e-02  1.040e-01   0.815 0.414899
## f.22000.0.062   1.324e-01  1.051e-01   1.260 0.207669
## f.22000.0.063  -8.483e-03  1.045e-01  -0.081 0.935313
## f.22000.0.064  -1.616e-01  1.024e-01  -1.578 0.114475
## f.22000.0.065   2.678e-02  1.038e-01   0.258 0.796396
## f.22000.0.066  -3.235e-02  1.042e-01  -0.310 0.756207
## f.22000.0.067  -9.160e-02  1.032e-01  -0.887 0.374987
## f.22000.0.068  -2.456e-02  1.017e-01  -0.241 0.809190
## f.22000.0.069   5.322e-03  1.016e-01   0.052 0.958215
## f.22000.0.07   -8.383e-02  9.969e-02  -0.841 0.400425
## f.22000.0.0-7   3.685e-02  1.030e-01   0.358 0.720580
## f.22000.0.070   1.893e-02  1.045e-01   0.181 0.856267
## f.22000.0.071  -8.020e-02  1.031e-01  -0.778 0.436678
## f.22000.0.072   1.336e-01  1.039e-01   1.287 0.198176
## f.22000.0.073  -2.649e-02  1.055e-01  -0.251 0.801629
```

```
## f.22000.0.074  -7.858e-03  1.039e-01  -0.076 0.939697
## f.22000.0.075   2.094e-01  1.019e-01   2.054 0.039943 *
## f.22000.0.076   3.423e-02  1.049e-01   0.326 0.744171
## f.22000.0.077   4.454e-02  1.061e-01   0.420 0.674487
## f.22000.0.078  -1.151e-01  1.029e-01  -1.119 0.263254
## f.22000.0.079  -1.212e-01  1.015e-01  -1.194 0.232674
## f.22000.0.08   -4.417e-02  1.028e-01  -0.430 0.667526
## f.22000.0.0-8   1.119e-01  1.030e-01   1.086 0.277412
## f.22000.0.080   6.994e-02  1.020e-01   0.685 0.493059
## f.22000.0.081  -8.414e-02  1.043e-01  -0.807 0.419844
## f.22000.0.082  -4.617e-02  1.058e-01  -0.436 0.662593
## f.22000.0.083  -1.107e-01  1.040e-01  -1.064 0.287194
## f.22000.0.084   1.261e-02  1.016e-01   0.124 0.901245
## f.22000.0.085   7.555e-02  1.042e-01   0.725 0.468426
## f.22000.0.086  -4.118e-02  1.025e-01  -0.402 0.687921
## f.22000.0.087   1.136e-02  1.041e-01   0.109 0.913073
## f.22000.0.088  -4.885e-02  1.057e-01  -0.462 0.643969
## f.22000.0.089   3.431e-02  1.044e-01   0.328 0.742550
## f.22000.0.09    1.319e-01  1.029e-01   1.282 0.200022
## f.22000.0.0-9   7.086e-02  1.010e-01   0.702 0.482928
## f.22000.0.090   3.936e-03  1.037e-01   0.038 0.969709
## f.22000.0.091  -3.655e-02  1.074e-01  -0.340 0.733520
## f.22000.0.092   1.570e-02  1.051e-01   0.149 0.881213
## f.22000.0.093  -5.171e-02  1.067e-01  -0.485 0.627966
## f.22000.0.094   2.457e-03  1.374e-01   0.018 0.985726
## f.22000.0.095   3.686e-02  1.124e-01   0.328 0.742905
## f.22001.0.01    7.038e-02  1.523e-02   4.620 3.85e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.225 on 28102 degrees of freedom
##   (91636 observations deleted due to missingness)
## Multiple R-squared:  0.09221,    Adjusted R-squared:  0.08807
## F-statistic:  22.3 on 128 and 28102 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
.0.5 + 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.22009.0.5 + 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
## -2.0257 -0.8154 -0.2142  0.5423  4.9009
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)     -2.699e+01  1.453e+00 -18.573  < 2e-16 ***
## depressionscore  5.118e-01  5.700e-03  89.795  < 2e-16 ***
## pgsfive          3.004e-02  5.496e-03   5.466 4.62e-08 ***
## f.22009.0.1      4.648e-03  5.706e-03   0.815  0.41532
## f.22009.0.2     -7.811e-04  5.558e-03  -0.141  0.88825
## f.22009.0.3      3.681e-04  5.635e-03   0.065  0.94792
## f.22009.0.5     -1.298e-02  5.920e-03  -2.193  0.02832 *
## f.22009.0.6      9.856e-04  5.666e-03   0.174  0.86191
## f.22009.0.7     -9.740e-03  5.743e-03  -1.696  0.08991 .
## f.22009.0.8      7.163e-03  6.129e-03   1.169  0.24251
## f.22009.0.9     -1.649e-02  5.832e-03  -2.828  0.00469 **
## f.22009.0.10    -4.993e-03  6.693e-03  -0.746  0.45568
## f.22009.0.11    -5.906e-03  7.828e-03  -0.754  0.45057
## f.22009.0.12     1.720e-02  6.819e-03   2.522  0.01167 *
## f.22009.0.13    -5.764e-03  5.561e-03  -1.037  0.29992
```

```
## f.22009.0.14    -1.442e-02  5.901e-03  -2.444  0.01454 *
## f.22009.0.15     2.244e-03  6.046e-03   0.371  0.71055
## f.22009.0.16    -8.981e-03  5.975e-03  -1.503  0.13283
## f.22009.0.17     1.938e-03  5.504e-03   0.352  0.72471
## f.22009.0.18    -4.104e-03  5.548e-03  -0.740  0.45944
## f.22009.0.19     6.494e-03  5.482e-03   1.185  0.23613
## f.22009.0.20    -4.412e-03  5.515e-03  -0.800  0.42375
## f.34.0.0         1.399e-02  7.433e-04  18.815  < 2e-16 ***
## f.22000.0.0-1    3.033e-02  7.769e-02   0.390  0.69626
## f.22000.0.010   -1.503e-01  7.811e-02  -1.924  0.05437 .
## f.22000.0.0-10   1.794e-02  7.863e-02   0.228  0.81949
## f.22000.0.011    6.391e-03  7.768e-02   0.082  0.93443
## f.22000.0.0-11   1.277e-02  7.831e-02   0.163  0.87043
## f.22000.0.012   -1.062e-02  7.763e-02  -0.137  0.89118
## f.22000.0.013   -4.426e-02  7.730e-02  -0.573  0.56696
## f.22000.0.014   -1.223e-02  7.753e-02  -0.158  0.87468
## f.22000.0.015    2.992e-02  7.725e-02   0.387  0.69855
## f.22000.0.016    1.713e-02  7.729e-02   0.222  0.82460
## f.22000.0.017   -6.918e-03  7.804e-02  -0.089  0.92937
## f.22000.0.018   -7.876e-02  7.765e-02  -1.014  0.31047
## f.22000.0.019   -1.050e-02  7.651e-02  -0.137  0.89081
## f.22000.0.02    -5.889e-03  7.603e-02  -0.077  0.93826
## f.22000.0.0-2    3.248e-02  7.784e-02   0.417  0.67651
## f.22000.0.020    2.063e-02  7.901e-02   0.261  0.79401
## f.22000.0.021    7.318e-03  7.851e-02   0.093  0.92574
## f.22000.0.022   -6.931e-02  7.873e-02  -0.880  0.37869
## f.22000.0.023    2.051e-02  7.840e-02   0.262  0.79364
## f.22000.0.024    8.020e-03  7.701e-02   0.104  0.91706
## f.22000.0.025    3.411e-02  7.745e-02   0.440  0.65964
## f.22000.0.026   -8.107e-02  7.879e-02  -1.029  0.30352
## f.22000.0.027    2.320e-02  7.715e-02   0.301  0.76367
## f.22000.0.028   -1.780e-02  7.668e-02  -0.232  0.81643
## f.22000.0.029   -8.612e-02  7.715e-02  -1.116  0.26429
## f.22000.0.03    -8.299e-02  7.687e-02  -1.080  0.28035
## f.22000.0.0-3   -9.359e-02  7.769e-02  -1.205  0.22834
## f.22000.0.030   -1.085e-01  7.710e-02  -1.407  0.15937
## f.22000.0.031    2.386e-03  7.825e-02   0.030  0.97568
## f.22000.0.032   -7.116e-02  7.869e-02  -0.904  0.36580
## f.22000.0.033   -4.287e-02  7.958e-02  -0.539  0.59006
## f.22000.0.034    3.279e-02  7.804e-02   0.420  0.67433
## f.22000.0.035   -6.149e-02  7.758e-02  -0.793  0.42803
## f.22000.0.036   -7.325e-02  7.659e-02  -0.956  0.33889
## f.22000.0.037   -9.354e-02  7.879e-02  -1.187  0.23516
## f.22000.0.038    3.908e-02  7.884e-02   0.496  0.62008
## f.22000.0.039   -9.273e-02  7.832e-02  -1.184  0.23640
## f.22000.0.04    -7.182e-02  7.940e-02  -0.904  0.36574
## f.22000.0.0-4   -3.184e-02  7.748e-02  -0.411  0.68109
## f.22000.0.040    4.673e-03  7.774e-02   0.060  0.95207
## f.22000.0.041    4.237e-02  7.879e-02   0.538  0.59073
## f.22000.0.042    4.895e-03  8.012e-02   0.061  0.95129
## f.22000.0.043   -4.573e-02  7.885e-02  -0.580  0.56196
## f.22000.0.044    6.526e-02  7.842e-02   0.832  0.40532
## f.22000.0.045    1.511e-03  7.863e-02   0.019  0.98466
## f.22000.0.046   -2.966e-02  8.088e-02  -0.367  0.71383
## f.22000.0.047   -8.588e-02  7.861e-02  -1.092  0.27464
## f.22000.0.048   -2.732e-02  7.769e-02  -0.352  0.72505
## f.22000.0.049   -2.405e-02  7.799e-02  -0.308  0.75784
## f.22000.0.05     3.387e-02  7.783e-02   0.435  0.66341
## f.22000.0.0-5   -9.534e-03  7.683e-02  -0.124  0.90124
## f.22000.0.050   -5.015e-02  7.929e-02  -0.633  0.52706
## f.22000.0.051    5.669e-02  7.798e-02   0.727  0.46722
## f.22000.0.052    6.942e-02  7.976e-02   0.870  0.38409
## f.22000.0.053    1.553e-02  7.964e-02   0.195  0.84536
## f.22000.0.054    5.399e-02  7.800e-02   0.692  0.48880
## f.22000.0.055    4.109e-02  7.774e-02   0.529  0.59715
## f.22000.0.056    2.684e-02  8.070e-02   0.333  0.73945
## f.22000.0.057   -3.077e-03  7.764e-02  -0.040  0.96839
## f.22000.0.058    6.815e-02  7.936e-02   0.859  0.39045
## f.22000.0.059    5.324e-03  7.889e-02   0.067  0.94620
## f.22000.0.06    -5.573e-02  7.647e-02  -0.729  0.46617
## f.22000.0.0-6   -2.311e-02  7.683e-02  -0.301  0.76357
## f.22000.0.060   -1.043e-01  7.879e-02  -1.324  0.18538
## f.22000.0.061   -6.231e-02  7.857e-02  -0.793  0.42778
```

```
## f.22000.0.062    5.329e-03  8.026e-02   0.066  0.94706
## f.22000.0.063   -8.591e-02  7.851e-02  -1.094  0.27383
## f.22000.0.064   -7.687e-02  7.857e-02  -0.978  0.32785
## f.22000.0.065   -7.509e-02  7.965e-02  -0.943  0.34577
## f.22000.0.066   -3.253e-02  7.923e-02  -0.411  0.68139
## f.22000.0.067   -6.138e-02  7.941e-02  -0.773  0.43958
## f.22000.0.068   -6.385e-02  7.912e-02  -0.807  0.41964
## f.22000.0.069   -7.988e-02  8.031e-02  -0.995  0.31991
## f.22000.0.07    -1.351e-01  7.565e-02  -1.786  0.07414 .
## f.22000.0.0-7   -6.878e-02  7.819e-02  -0.880  0.37911
## f.22000.0.070   -1.071e-01  7.918e-02  -1.353  0.17608
## f.22000.0.071   -3.475e-02  7.830e-02  -0.444  0.65714
## f.22000.0.072   -1.819e-02  7.884e-02  -0.231  0.81755
## f.22000.0.073   -5.829e-02  7.836e-02  -0.744  0.45693
## f.22000.0.074   -7.037e-02  7.889e-02  -0.892  0.37236
## f.22000.0.075    3.616e-02  8.044e-02   0.450  0.65305
## f.22000.0.076    3.308e-02  7.940e-02   0.417  0.67697
## f.22000.0.077   -9.577e-03  7.928e-02  -0.121  0.90385
## f.22000.0.078   -9.332e-02  7.917e-02  -1.179  0.23853
## f.22000.0.079   -1.193e-01  7.758e-02  -1.537  0.12419
## f.22000.0.08    -4.385e-02  7.768e-02  -0.564  0.57244
## f.22000.0.0-8   -1.784e-03  7.878e-02  -0.023  0.98194
## f.22000.0.080    4.790e-02  7.988e-02   0.600  0.54873
## f.22000.0.081   -4.276e-04  8.102e-02  -0.005  0.99579
## f.22000.0.082   -4.767e-02  8.024e-02  -0.594  0.55246
## f.22000.0.083   -1.024e-01  7.895e-02  -1.297  0.19479
## f.22000.0.084   -5.153e-02  7.958e-02  -0.648  0.51728
## f.22000.0.085   -3.764e-02  7.879e-02  -0.478  0.63284
## f.22000.0.086   -2.958e-02  7.964e-02  -0.371  0.71033
## f.22000.0.087   -1.191e-02  7.994e-02  -0.149  0.88161
## f.22000.0.088   -2.400e-02  8.135e-02  -0.295  0.76798
## f.22000.0.089   -3.832e-02  8.076e-02  -0.475  0.63511
## f.22000.0.09    -7.527e-02  7.675e-02  -0.981  0.32675
## f.22000.0.0-9   -7.520e-02  7.763e-02  -0.969  0.33266
## f.22000.0.090   -2.848e-02  7.918e-02  -0.360  0.71911
## f.22000.0.091   -7.570e-02  8.301e-02  -0.912  0.36182
## f.22000.0.092   -2.129e-02  7.952e-02  -0.268  0.78893
## f.22000.0.093   -3.557e-02  7.970e-02  -0.446  0.65536
## f.22000.0.094    2.651e-02  1.009e-01   0.263  0.79285
## f.22000.0.095   -4.292e-02  8.647e-02  -0.496  0.61963
## f.22001.0.01     1.887e-01  1.161e-02  16.258  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.089 on 39422 degrees of freedom
##   (80316 observations deleted due to missingness)
## Multiple R-squared:  0.1964, Adjusted R-squared:  0.1938
## F-statistic: 75.28 on 128 and 39422 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.22009.0.5
+ 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 = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.6744 -0.5973 -0.3845  0.2710  5.1846
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.853e+01  1.059e+00 -36.394  < 2e-16 ***
```

```
## friendship      1.377e-01  4.133e-03  33.317  < 2e-16 ***
## pgsfive         3.018e-02  4.118e-03   7.328 2.37e-13 ***
## f.22009.0.1     7.642e-03  4.275e-03   1.788  0.07385 .
## f.22009.0.2     1.408e-03  4.173e-03   0.337  0.73580
## f.22009.0.3    -4.273e-03  4.235e-03  -1.009  0.31296
## f.22009.0.5     8.697e-04  4.600e-03   0.189  0.85004
## f.22009.0.6     1.213e-03  4.251e-03   0.285  0.77541
## f.22009.0.7    -5.108e-03  4.295e-03  -1.189  0.23437
## f.22009.0.8     6.225e-03  4.565e-03   1.364  0.17270
## f.22009.0.9    -1.067e-02  4.482e-03  -2.380  0.01733 *
## f.22009.0.10   -1.265e-03  4.986e-03  -0.254  0.79979
## f.22009.0.11    2.428e-03  5.875e-03   0.413  0.67940
## f.22009.0.12    3.439e-03  5.135e-03   0.670  0.50304
## f.22009.0.13   -6.365e-03  4.180e-03  -1.523  0.12784
## f.22009.0.14   -1.202e-02  4.535e-03  -2.650  0.00805 **
## f.22009.0.15   -1.041e-03  4.515e-03  -0.231  0.81763
## f.22009.0.16   -3.912e-03  4.467e-03  -0.876  0.38116
## f.22009.0.17   -7.821e-04  4.141e-03  -0.189  0.85020
## f.22009.0.18   -3.038e-04  4.248e-03  -0.072  0.94300
## f.22009.0.19    4.562e-05  4.103e-03   0.011  0.99113
## f.22009.0.20   -1.583e-03  4.137e-03  -0.383  0.70208
## f.34.0.0        1.974e-02  5.416e-04  36.451  < 2e-16 ***
## f.22000.0.0-1  -1.967e-02  5.834e-02  -0.337  0.73606
## f.22000.0.010   5.169e-02  5.817e-02   0.889  0.37423
## f.22000.0.0-10  4.749e-02  5.796e-02   0.819  0.41259
## f.22000.0.011   2.984e-02  5.667e-02   0.527  0.59847
## f.22000.0.0-11  1.194e-01  5.773e-02   2.069  0.03858 *
## f.22000.0.012   8.274e-02  5.938e-02   1.393  0.16352
## f.22000.0.013   3.797e-02  5.724e-02   0.663  0.50715
## f.22000.0.014   1.484e-03  5.603e-02   0.026  0.97888
## f.22000.0.015   9.512e-02  5.743e-02   1.656  0.09770 .
## f.22000.0.016   9.470e-02  5.746e-02   1.648  0.09933 .
## f.22000.0.017   1.048e-01  5.810e-02   1.803  0.07141 .
## f.22000.0.018   1.510e-02  5.825e-02   0.259  0.79543
## f.22000.0.019   8.680e-02  5.692e-02   1.525  0.12731
## f.22000.0.02    4.711e-02  5.722e-02   0.823  0.41034
## f.22000.0.0-2   1.084e-01  5.830e-02   1.859  0.06300 .
## f.22000.0.020   4.623e-02  5.852e-02   0.790  0.42956
## f.22000.0.021   4.087e-02  5.741e-02   0.712  0.47649
## f.22000.0.022   5.752e-02  5.840e-02   0.985  0.32472
## f.22000.0.023   7.068e-02  5.612e-02   1.259  0.20787
## f.22000.0.024   2.921e-02  5.702e-02   0.512  0.60845
## f.22000.0.025   9.867e-02  5.813e-02   1.697  0.08963 .
## f.22000.0.026   3.278e-03  5.807e-02   0.056  0.95499
## f.22000.0.027   4.261e-02  5.719e-02   0.745  0.45633
## f.22000.0.028   3.229e-02  5.829e-02   0.554  0.57961
## f.22000.0.029   6.238e-02  5.858e-02   1.065  0.28695
## f.22000.0.03    4.442e-02  5.617e-02   0.791  0.42901
## f.22000.0.0-3   3.251e-02  5.671e-02   0.573  0.56654
## f.22000.0.030   1.362e-02  5.749e-02   0.237  0.81269
## f.22000.0.031   1.476e-02  5.741e-02   0.257  0.79714
## f.22000.0.032   7.225e-02  5.635e-02   1.282  0.19981
## f.22000.0.033   3.271e-02  5.864e-02   0.558  0.57694
## f.22000.0.034   5.316e-02  5.686e-02   0.935  0.34986
## f.22000.0.035   8.014e-02  5.733e-02   1.398  0.16211
## f.22000.0.036   1.118e-01  5.640e-02   1.982  0.04751 *
## f.22000.0.037   3.499e-02  5.837e-02   0.599  0.54893
## f.22000.0.038   1.083e-01  5.666e-02   1.912  0.05591 .
## f.22000.0.039   1.634e-02  5.858e-02   0.279  0.78031
## f.22000.0.04    4.383e-03  5.805e-02   0.076  0.93981
## f.22000.0.0-4   1.194e-01  5.828e-02   2.049  0.04047 *
## f.22000.0.040   4.533e-02  5.689e-02   0.797  0.42559
## f.22000.0.041   6.574e-02  5.896e-02   1.115  0.26483
## f.22000.0.042   6.339e-02  5.580e-02   1.136  0.25595
## f.22000.0.043   3.425e-02  5.928e-02   0.578  0.56342
## f.22000.0.044   7.988e-02  5.711e-02   1.399  0.16194
## f.22000.0.045   7.086e-02  5.802e-02   1.221  0.22197
## f.22000.0.046  -1.667e-02  5.879e-02  -0.284  0.77679
## f.22000.0.047  -4.262e-03  5.793e-02  -0.074  0.94135
## f.22000.0.048   1.887e-02  5.813e-02   0.325  0.74543
## f.22000.0.049   6.024e-02  5.802e-02   1.038  0.29915
## f.22000.0.05    8.749e-02  5.578e-02   1.568  0.11678
## f.22000.0.0-5   7.461e-02  5.771e-02   1.293  0.19603
```

```
## f.22000.0.050   3.398e-02  5.707e-02   0.595  0.55162
## f.22000.0.051   1.355e-01  5.664e-02   2.391  0.01679 *
## f.22000.0.052   3.177e-02  5.730e-02   0.554  0.57927
## f.22000.0.053  -2.236e-02  5.735e-02  -0.390  0.69668
## f.22000.0.054   7.449e-02  5.825e-02   1.279  0.20095
## f.22000.0.055   6.957e-02  5.785e-02   1.203  0.22914
## f.22000.0.056   1.072e-01  5.935e-02   1.806  0.07099 .
## f.22000.0.057   9.436e-02  5.975e-02   1.579  0.11428
## f.22000.0.058   1.155e-01  5.834e-02   1.980  0.04775 *
## f.22000.0.059   8.394e-02  5.714e-02   1.469  0.14183
## f.22000.0.06    4.886e-02  5.702e-02   0.857  0.39146
## f.22000.0.0-6   7.727e-02  5.696e-02   1.356  0.17495
## f.22000.0.060   6.691e-02  5.807e-02   1.152  0.24924
## f.22000.0.061   1.192e-01  6.044e-02   1.972  0.04867 *
## f.22000.0.062   9.547e-02  5.802e-02   1.645  0.09988 .
## f.22000.0.063   4.039e-02  5.784e-02   0.698  0.48496
## f.22000.0.064   4.105e-02  5.793e-02   0.709  0.47860
## f.22000.0.065   4.085e-02  5.843e-02   0.699  0.48447
## f.22000.0.066   3.764e-02  5.893e-02   0.639  0.52301
## f.22000.0.067  -8.637e-03  5.743e-02  -0.150  0.88045
## f.22000.0.068  -3.011e-03  5.925e-02  -0.051  0.95947
## f.22000.0.069   8.432e-02  5.801e-02   1.453  0.14612
## f.22000.0.07    4.491e-02  5.684e-02   0.790  0.42953
## f.22000.0.0-7   6.998e-02  5.779e-02   1.211  0.22593
## f.22000.0.070   1.274e-02  5.979e-02   0.213  0.83125
## f.22000.0.071  -6.722e-03  5.782e-02  -0.116  0.90745
## f.22000.0.072   4.455e-02  5.736e-02   0.777  0.43735
## f.22000.0.073   2.667e-02  5.993e-02   0.445  0.65623
## f.22000.0.074   6.836e-02  5.892e-02   1.160  0.24596
## f.22000.0.075   6.603e-02  5.796e-02   1.139  0.25458
## f.22000.0.076   1.079e-01  5.874e-02   1.837  0.06629 .
## f.22000.0.077   9.317e-02  5.787e-02   1.610  0.10741
## f.22000.0.078   1.380e-02  5.811e-02   0.238  0.81223
## f.22000.0.079   1.630e-02  5.810e-02   0.281  0.77908
## f.22000.0.08    3.228e-02  5.701e-02   0.566  0.57123
## f.22000.0.0-8   8.626e-02  5.771e-02   1.495  0.13498
## f.22000.0.080   1.285e-01  5.868e-02   2.190  0.02850 *
## f.22000.0.081   7.870e-02  5.986e-02   1.315  0.18857
## f.22000.0.082   1.336e-02  5.958e-02   0.224  0.82259
## f.22000.0.083   7.732e-02  6.029e-02   1.282  0.19970
## f.22000.0.084   1.023e-01  5.825e-02   1.756  0.07910 .
## f.22000.0.085   1.115e-02  5.886e-02   0.189  0.84978
## f.22000.0.086   2.785e-02  5.925e-02   0.470  0.63830
## f.22000.0.087   2.665e-02  5.810e-02   0.459  0.64641
## f.22000.0.088   8.012e-03  6.183e-02   0.130  0.89690
## f.22000.0.089   1.081e-01  5.906e-02   1.830  0.06722 .
## f.22000.0.09    2.235e-02  5.743e-02   0.389  0.69721
## f.22000.0.0-9   1.114e-01  5.770e-02   1.931  0.05345 .
## f.22000.0.090   5.485e-02  5.802e-02   0.945  0.34450
## f.22000.0.091  -2.179e-02  5.813e-02  -0.375  0.70782
## f.22000.0.092   7.012e-02  5.662e-02   1.238  0.21555
## f.22000.0.093   1.030e-01  5.822e-02   1.769  0.07691 .
## f.22000.0.094   5.736e-02  7.668e-02   0.748  0.45449
## f.22000.0.095   4.570e-02  6.226e-02   0.734  0.46289
## f.22001.0.01   -1.504e-01  8.335e-03 -18.050  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9767 on 56642 degrees of freedom
##   (63096 observations deleted due to missingness)
## Multiple R-squared:  0.05197,    Adjusted R-squared:  0.04983
## F-statistic: 24.26 on 128 and 56642 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.22009.0.5 + 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.22009.0.5 + 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
## -1.5964 -0.5955 -0.3728  0.2664  5.2466
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.789e+01  1.056e+00 -35.876  < 2e-16 ***
## family          1.625e-01  4.109e-03  39.541  < 2e-16 ***
## pgsfive         2.942e-02  4.110e-03   7.158 8.31e-13 ***
## f.22009.0.1     7.316e-03  4.271e-03   1.713  0.08670 .
## f.22009.0.2     1.147e-03  4.162e-03   0.276  0.78282
## f.22009.0.3    -1.657e-03  4.227e-03  -0.392  0.69497
## f.22009.0.5    -4.398e-04  4.592e-03  -0.096  0.92370
## f.22009.0.6     1.671e-03  4.242e-03   0.394  0.69360
## f.22009.0.7    -5.110e-03  4.289e-03  -1.191  0.23349
## f.22009.0.8     5.302e-03  4.558e-03   1.163  0.24468
## f.22009.0.9    -1.212e-02  4.469e-03  -2.713  0.00668 **
## f.22009.0.10   -1.626e-03  4.976e-03  -0.327  0.74377
## f.22009.0.11    2.329e-03  5.861e-03   0.397  0.69107
## f.22009.0.12    2.208e-03  5.126e-03   0.431  0.66662
## f.22009.0.13   -5.607e-03  4.173e-03  -1.344  0.17906
## f.22009.0.14   -1.034e-02  4.526e-03  -2.284  0.02238 *
## f.22009.0.15    1.419e-05  4.506e-03   0.003  0.99749
## f.22009.0.16   -3.719e-03  4.454e-03  -0.835  0.40376
## f.22009.0.17   -1.132e-03  4.132e-03  -0.274  0.78406
## f.22009.0.18    3.565e-04  4.239e-03   0.084  0.93297
## f.22009.0.19    9.828e-04  4.093e-03   0.240  0.81025
## f.22009.0.20    4.589e-04  4.128e-03   0.111  0.91149
## f.34.0.0        1.941e-02  5.405e-04  35.916  < 2e-16 ***
## f.22000.0.0-1  -8.623e-03  5.822e-02  -0.148  0.88226
## f.22000.0.010   5.506e-02  5.810e-02   0.948  0.34328
## f.22000.0.0-10  4.376e-02  5.784e-02   0.756  0.44937
## f.22000.0.011   3.560e-02  5.652e-02   0.630  0.52883
## f.22000.0.0-11  1.233e-01  5.761e-02   2.141  0.03231 *
## f.22000.0.012   8.479e-02  5.929e-02   1.430  0.15270
## f.22000.0.013   3.528e-02  5.709e-02   0.618  0.53668
## f.22000.0.014   1.118e-02  5.591e-02   0.200  0.84147
## f.22000.0.015   1.092e-01  5.718e-02   1.910  0.05612 .
## f.22000.0.016   9.788e-02  5.720e-02   1.711  0.08705 .
## f.22000.0.017   1.133e-01  5.801e-02   1.952  0.05088 .
## f.22000.0.018   2.447e-02  5.813e-02   0.421  0.67372
## f.22000.0.019   9.183e-02  5.690e-02   1.614  0.10654
## f.22000.0.02    4.312e-02  5.715e-02   0.754  0.45058
## f.22000.0.0-2   1.152e-01  5.824e-02   1.979  0.04784 *
## f.22000.0.020   5.230e-02  5.836e-02   0.896  0.37020
## f.22000.0.021   4.577e-02  5.726e-02   0.799  0.42407
## f.22000.0.022   5.998e-02  5.828e-02   1.029  0.30343
## f.22000.0.023   7.155e-02  5.595e-02   1.279  0.20096
## f.22000.0.024   4.926e-02  5.695e-02   0.865  0.38699
## f.22000.0.025   1.091e-01  5.815e-02   1.876  0.06069 .
## f.22000.0.026   7.659e-03  5.801e-02   0.132  0.89496
## f.22000.0.027   5.402e-02  5.705e-02   0.947  0.34370
## f.22000.0.028   3.285e-02  5.801e-02   0.566  0.57126
## f.22000.0.029   7.945e-02  5.858e-02   1.356  0.17501
## f.22000.0.03    5.726e-02  5.603e-02   1.022  0.30680
## f.22000.0.0-3   4.476e-02  5.654e-02   0.792  0.42859
## f.22000.0.030   3.059e-02  5.739e-02   0.533  0.59406
## f.22000.0.031   2.495e-02  5.713e-02   0.437  0.66233
## f.22000.0.032   8.367e-02  5.613e-02   1.491  0.13609
## f.22000.0.033   4.093e-02  5.842e-02   0.701  0.48358
## f.22000.0.034   5.645e-02  5.679e-02   0.994  0.32016
## f.22000.0.035   8.574e-02  5.718e-02   1.500  0.13374
## f.22000.0.036   1.025e-01  5.628e-02   1.822  0.06852 .
## f.22000.0.037   3.810e-02  5.828e-02   0.654  0.51331
## f.22000.0.038   1.138e-01  5.651e-02   2.014  0.04399 *
## f.22000.0.039   1.465e-02  5.837e-02   0.251  0.80177
```

```
## f.22000.0.039   1.465e-02  5.857e-02   0.251  0.80177
## f.22000.0.04    1.550e-02  5.798e-02   0.267  0.78925
## f.22000.0.0-4   1.310e-01  5.818e-02   2.252  0.02433 *
## f.22000.0.040   4.418e-02  5.672e-02   0.779  0.43597
## f.22000.0.041   8.461e-02  5.883e-02   1.438  0.15042
## f.22000.0.042   5.499e-02  5.559e-02   0.989  0.32252
## f.22000.0.043   2.812e-02  5.929e-02   0.474  0.63535
## f.22000.0.044   9.587e-02  5.694e-02   1.684  0.09223 .
## f.22000.0.045   8.267e-02  5.789e-02   1.428  0.15332
## f.22000.0.046  -8.424e-03  5.877e-02  -0.143  0.88602
## f.22000.0.047   9.890e-03  5.772e-02   0.171  0.86394
## f.22000.0.048   2.024e-02  5.790e-02   0.350  0.72663
## f.22000.0.049   5.922e-02  5.795e-02   1.022  0.30682
## f.22000.0.05    8.776e-02  5.550e-02   1.581  0.11387
## f.22000.0.0-5   6.307e-02  5.756e-02   1.096  0.27321
## f.22000.0.050   4.786e-02  5.702e-02   0.839  0.40126
## f.22000.0.051   1.483e-01  5.628e-02   2.634  0.00843 **
## f.22000.0.052   3.567e-02  5.718e-02   0.624  0.53277
## f.22000.0.053   2.029e-03  5.728e-02   0.035  0.97175
## f.22000.0.054   7.741e-02  5.804e-02   1.334  0.18231
## f.22000.0.055   7.526e-02  5.764e-02   1.306  0.19168
## f.22000.0.056   1.083e-01  5.922e-02   1.828  0.06755 .
## f.22000.0.057   1.096e-01  5.963e-02   1.838  0.06612 .
## f.22000.0.058   1.171e-01  5.819e-02   2.013  0.04415 *
## f.22000.0.059   8.553e-02  5.699e-02   1.501  0.13342
## f.22000.0.06    5.599e-02  5.674e-02   0.987  0.32379
## f.22000.0.0-6   9.812e-02  5.681e-02   1.727  0.08417 .
## f.22000.0.060   7.667e-02  5.795e-02   1.323  0.18582
## f.22000.0.061   1.190e-01  6.028e-02   1.974  0.04843 *
## f.22000.0.062   1.081e-01  5.795e-02   1.866  0.06207 .
## f.22000.0.063   4.397e-02  5.778e-02   0.761  0.44666
## f.22000.0.064   4.929e-02  5.775e-02   0.853  0.39339
## f.22000.0.065   3.502e-02  5.834e-02   0.600  0.54836
## f.22000.0.066   4.508e-02  5.871e-02   0.768  0.44263
## f.22000.0.067   7.711e-03  5.730e-02   0.135  0.89295
## f.22000.0.068   8.424e-03  5.919e-02   0.142  0.88682
## f.22000.0.069   9.082e-02  5.804e-02   1.565  0.11761
## f.22000.0.07    4.846e-02  5.662e-02   0.856  0.39211
## f.22000.0.0-7   7.330e-02  5.775e-02   1.269  0.20434
## f.22000.0.070   1.674e-02  5.966e-02   0.281  0.77902
## f.22000.0.071   7.077e-03  5.773e-02   0.123  0.90243
## f.22000.0.072   5.776e-02  5.716e-02   1.011  0.31222
## f.22000.0.073   3.460e-02  5.987e-02   0.578  0.56329
## f.22000.0.074   6.621e-02  5.873e-02   1.127  0.25959
## f.22000.0.075   6.534e-02  5.772e-02   1.132  0.25765
## f.22000.0.076   1.125e-01  5.868e-02   1.917  0.05520 .
## f.22000.0.077   1.043e-01  5.778e-02   1.805  0.07110 .
## f.22000.0.078   3.135e-02  5.796e-02   0.541  0.58853
## f.22000.0.079   2.743e-02  5.798e-02   0.473  0.63618
## f.22000.0.08    3.467e-02  5.684e-02   0.610  0.54192
## f.22000.0.0-8   9.176e-02  5.756e-02   1.594  0.11089
## f.22000.0.080   1.290e-01  5.865e-02   2.199  0.02789 *
## f.22000.0.081   8.498e-02  5.966e-02   1.424  0.15437
## f.22000.0.082   1.588e-02  5.939e-02   0.267  0.78918
## f.22000.0.083   7.341e-02  6.009e-02   1.222  0.22184
## f.22000.0.084   1.072e-01  5.813e-02   1.844  0.06525 .
## f.22000.0.085   1.498e-02  5.861e-02   0.256  0.79825
## f.22000.0.086   4.446e-02  5.903e-02   0.753  0.45131
## f.22000.0.087   3.300e-02  5.789e-02   0.570  0.56867
## f.22000.0.088   7.682e-03  6.141e-02   0.125  0.90045
## f.22000.0.089   9.975e-02  5.884e-02   1.695  0.09003 .
## f.22000.0.09    2.825e-02  5.734e-02   0.493  0.62223
## f.22000.0.0-9   1.091e-01  5.758e-02   1.895  0.05804 .
## f.22000.0.090   5.560e-02  5.790e-02   0.960  0.33689
## f.22000.0.091  -1.879e-02  5.804e-02  -0.324  0.74607
## f.22000.0.092   7.547e-02  5.642e-02   1.338  0.18102
## f.22000.0.093   1.158e-01  5.816e-02   1.992  0.04641 *
## f.22000.0.094   5.447e-02  7.655e-02   0.712  0.47674
## f.22000.0.095   5.927e-02  6.213e-02   0.954  0.34013
## f.22001.0.01   -1.226e-01  8.280e-03 -14.802  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Residual standard error: 0.9753 on 56713 degrees of freedom
##   (63025 observations deleted due to missingness)
## Multiple R-squared:  0.05905,    Adjusted R-squared:  0.05693
## F-statistic: 27.81 on 128 and 56713 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.22009.0.5
+ 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 = merged))
```

```
##
## Call:
## lm(formula = selfharmideation ~ f.4537.0.0 + pgsfive + f.22009.0.1 +
##     f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + 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
## -1.5055 -0.6319 -0.4136  0.3321  5.1362
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.179e+01  1.529e+00 -20.793  < 2e-16 ***
## f.4537.0.0      1.357e-01  5.822e-03  23.312  < 2e-16 ***
## pgsfive         3.304e-02  5.784e-03   5.712 1.13e-08 ***
## f.22009.0.1     8.973e-03  5.965e-03   1.504  0.13254
## f.22009.0.2     1.736e-03  5.840e-03   0.297  0.76624
## f.22009.0.3     5.014e-04  5.894e-03   0.085  0.93221
## f.22009.0.5     2.056e-03  6.541e-03   0.314  0.75330
## f.22009.0.6    -4.844e-04  5.918e-03  -0.082  0.93477
## f.22009.0.7    -1.039e-02  5.991e-03  -1.735  0.08278 .
## f.22009.0.8     7.156e-03  6.379e-03   1.122  0.26198
## f.22009.0.9    -8.341e-03  6.509e-03  -1.281  0.20005
## f.22009.0.10   -9.186e-04  6.955e-03  -0.132  0.89492
## f.22009.0.11    1.293e-04  8.325e-03   0.016  0.98761
## f.22009.0.12    2.496e-03  7.216e-03   0.346  0.72942
## f.22009.0.13   -8.151e-03  5.840e-03  -1.396  0.16280
## f.22009.0.14   -1.745e-02  6.516e-03  -2.677  0.00743 **
## f.22009.0.15    2.219e-03  6.306e-03   0.352  0.72494
## f.22009.0.16   -1.197e-02  6.361e-03  -1.882  0.05989 .
## f.22009.0.17    3.312e-03  5.759e-03   0.575  0.56531
## f.22009.0.18   -5.590e-04  6.055e-03  -0.092  0.92645
## f.22009.0.19   -1.052e-03  5.755e-03  -0.183  0.85489
## f.22009.0.20   -3.774e-03  5.829e-03  -0.647  0.51736
## f.34.0.0        1.628e-02  7.814e-04  20.833  < 2e-16 ***
## f.22000.0.0-1   8.962e-03  8.206e-02   0.109  0.91304
## f.22000.0.010   8.144e-02  8.029e-02   1.014  0.31045
## f.22000.0.0-10  7.795e-02  8.156e-02   0.956  0.33922
## f.22000.0.011   6.656e-02  7.895e-02   0.843  0.39914
## f.22000.0.0-11  2.051e-01  7.841e-02   2.615  0.00892 **
## f.22000.0.012   1.046e-01  8.343e-02   1.253  0.21014
## f.22000.0.013   6.004e-02  8.013e-02   0.749  0.45370
## f.22000.0.014   3.479e-02  7.720e-02   0.451  0.65220
## f.22000.0.015   1.196e-01  7.907e-02   1.513  0.13027
## f.22000.0.016   1.406e-01  8.021e-02   1.753  0.07968 .
## f.22000.0.017   1.349e-01  8.189e-02   1.648  0.09940 .
## f.22000.0.018   4.815e-02  8.232e-02   0.585  0.55867
## f.22000.0.019   6.877e-02  7.908e-02   0.870  0.38454
## f.22000.0.02    1.061e-01  7.822e-02   1.357  0.17477
## f.22000.0.0-2   2.764e-02  8.154e-02   0.339  0.73462
## f.22000.0.020   5.112e-02  8.147e-02   0.627  0.53039
## f.22000.0.021   1.099e-01  8.131e-02   1.351  0.17659
## f.22000.0.022   2.383e-02  8.174e-02   0.291  0.77068
## f.22000.0.023   1.018e-01  7.724e-02   1.318  0.18745
## f.22000.0.024   1.238e-01  7.841e-02   1.580  0.11422
## f.22000.0.025   1.800e-03  8.092e-02   0.022  0.98226
## f.22000.0.026   5.976e-04  8.014e-02   0.007  0.99405
## f.22000.0.027   4.618e-02  7.914e-02   0.583  0.55959
```

```
## f.22000.0.027   4.618e-02  7.914e-02   0.583  0.55959
## f.22000.0.028   4.123e-02  8.189e-02   0.503  0.61467
## f.22000.0.029   1.442e-01  8.223e-02   1.754  0.07945 .
## f.22000.0.03    2.777e-02  7.748e-02   0.358  0.72001
## f.22000.0.0-3   1.526e-02  7.874e-02   0.194  0.84633
## f.22000.0.030   4.161e-02  8.198e-02   0.508  0.61177
## f.22000.0.031   6.475e-02  7.977e-02   0.812  0.41696
## f.22000.0.032   1.374e-02  7.821e-02   0.176  0.86053
## f.22000.0.033   5.436e-02  8.216e-02   0.662  0.50820
## f.22000.0.034   1.783e-02  7.907e-02   0.226  0.82158
## f.22000.0.035   1.061e-01  7.934e-02   1.337  0.18130
## f.22000.0.036   1.460e-01  7.663e-02   1.905  0.05675 .
## f.22000.0.037   7.792e-03  8.083e-02   0.096  0.92320
## f.22000.0.038   1.250e-01  7.772e-02   1.608  0.10784
## f.22000.0.039   4.450e-02  8.155e-02   0.546  0.58531
## f.22000.0.04    1.588e-02  8.139e-02   0.195  0.84533
## f.22000.0.0-4   1.722e-01  8.172e-02   2.108  0.03507 *
## f.22000.0.040   5.434e-02  7.785e-02   0.698  0.48517
## f.22000.0.041   8.281e-02  7.949e-02   1.042  0.29751
## f.22000.0.042   1.103e-01  7.724e-02   1.429  0.15311
## f.22000.0.043   6.975e-02  8.197e-02   0.851  0.39485
## f.22000.0.044   1.331e-01  7.899e-02   1.685  0.09192 .
## f.22000.0.045   1.166e-01  7.978e-02   1.462  0.14389
## f.22000.0.046  -4.729e-02  8.114e-02  -0.583  0.56005
## f.22000.0.047   5.085e-02  7.942e-02   0.640  0.52196
## f.22000.0.048   2.201e-02  8.181e-02   0.269  0.78794
## f.22000.0.049   2.263e-02  8.029e-02   0.282  0.77808
## f.22000.0.05    1.153e-01  7.543e-02   1.528  0.12649
## f.22000.0.0-5   5.284e-02  7.942e-02   0.665  0.50589
## f.22000.0.050   5.875e-02  7.847e-02   0.749  0.45403
## f.22000.0.051   1.373e-01  7.686e-02   1.787  0.07401 .
## f.22000.0.052   8.053e-02  7.866e-02   1.024  0.30597
## f.22000.0.053   1.384e-02  8.115e-02   0.171  0.86458
## f.22000.0.054   5.773e-02  7.984e-02   0.723  0.46968
## f.22000.0.055   7.161e-02  7.861e-02   0.911  0.36230
## f.22000.0.056   1.853e-01  8.463e-02   2.189  0.02857 *
## f.22000.0.057   1.502e-01  8.259e-02   1.818  0.06902 .
## f.22000.0.058   1.109e-01  8.052e-02   1.378  0.16835
## f.22000.0.059   1.082e-01  7.695e-02   1.406  0.15976
## f.22000.0.06    6.441e-02  7.791e-02   0.827  0.40841
## f.22000.0.0-6   9.145e-02  7.828e-02   1.168  0.24268
## f.22000.0.060   6.882e-02  7.927e-02   0.868  0.38534
## f.22000.0.061   1.587e-01  8.352e-02   1.900  0.05740 .
## f.22000.0.062   4.485e-03  8.091e-02   0.055  0.95579
## f.22000.0.063   6.630e-02  7.969e-02   0.832  0.40545
## f.22000.0.064   6.173e-02  8.074e-02   0.764  0.44460
## f.22000.0.065   7.650e-02  8.164e-02   0.937  0.34876
## f.22000.0.066   5.504e-02  8.037e-02   0.685  0.49348
## f.22000.0.067  -2.051e-02  7.970e-02  -0.257  0.79691
## f.22000.0.068  -2.266e-02  8.251e-02  -0.275  0.78361
## f.22000.0.069   3.733e-02  8.068e-02   0.463  0.64361
## f.22000.0.07    1.247e-01  7.829e-02   1.593  0.11110
## f.22000.0.0-7   1.195e-01  7.999e-02   1.494  0.13525
## f.22000.0.070   8.364e-02  8.342e-02   1.003  0.31603
## f.22000.0.071  -2.901e-02  7.935e-02  -0.366  0.71470
## f.22000.0.072   1.402e-01  7.901e-02   1.775  0.07596 .
## f.22000.0.073   5.064e-02  8.411e-02   0.602  0.54719
## f.22000.0.074   1.133e-01  8.051e-02   1.407  0.15950
## f.22000.0.075   1.352e-01  7.887e-02   1.715  0.08641 .
## f.22000.0.076   2.209e-01  8.164e-02   2.706  0.00681 **
## f.22000.0.077   2.205e-02  7.991e-02   0.276  0.78258
## f.22000.0.078   4.262e-02  7.921e-02   0.538  0.59052
## f.22000.0.079   1.428e-02  8.060e-02   0.177  0.85941
## f.22000.0.08    2.465e-02  7.861e-02   0.314  0.75383
## f.22000.0.0-8   1.096e-01  8.099e-02   1.354  0.17590
## f.22000.0.080   1.717e-01  8.191e-02   2.097  0.03605 *
## f.22000.0.081   1.598e-01  8.472e-02   1.887  0.05918 .
## f.22000.0.082   8.536e-02  8.402e-02   1.016  0.30969
## f.22000.0.083   7.155e-02  8.362e-02   0.856  0.39220
## f.22000.0.084   3.918e-02  8.029e-02   0.488  0.62560
## f.22000.0.085   4.415e-02  8.215e-02   0.537  0.59093
## f.22000.0.086   9.311e-03  8.314e-02   0.112  0.91083
## f.22000.0.087   2.738e-02  7.977e-02   0.343  0.73144
```

```
## f.22000.0.088   1.079e-01  8.710e-02   1.239  0.21524
## f.22000.0.089   1.106e-01  8.324e-02   1.328  0.18403
## f.22000.0.09    2.436e-02  8.044e-02   0.303  0.76201
## f.22000.0.0-9   1.213e-01  8.028e-02   1.510  0.13094
## f.22000.0.090   5.950e-02  7.964e-02   0.747  0.45503
## f.22000.0.091  -4.132e-02  7.893e-02  -0.523  0.60065
## f.22000.0.092   1.380e-01  7.615e-02   1.812  0.06995 .
## f.22000.0.093   2.028e-01  7.985e-02   2.539  0.01111 *
## f.22000.0.094   9.408e-02  1.054e-01   0.892  0.37227
## f.22000.0.095   1.115e-01  8.381e-02   1.331  0.18321
## f.22001.0.01   -1.388e-01  1.160e-02 -11.965  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.001 on 30446 degrees of freedom
##   (89292 observations deleted due to missingness)
## Multiple R-squared:  0.04771,    Adjusted R-squared:  0.04371
## F-statistic: 11.92 on 128 and 30446 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.22009.0.5 +
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.22009.0.5 + 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
## -1.1604 -0.5947 -0.4084  0.2706  5.1770
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.920e+01  7.469e-01 -52.483  < 2e-16 ***
## socfreq         5.007e-02  2.921e-03  17.142  < 2e-16 ***
## pgsfive         3.083e-02  2.867e-03  10.753  < 2e-16 ***
## f.22009.0.1     9.400e-03  2.990e-03   3.144  0.00167 **
## f.22009.0.2    -1.310e-03  2.917e-03  -0.449  0.65327
## f.22009.0.3    -3.959e-04  2.951e-03  -0.134  0.89327
## f.22009.0.5    -2.219e-03  3.131e-03  -0.709  0.47851
## f.22009.0.6    -4.510e-05  2.960e-03  -0.015  0.98784
## f.22009.0.7    -8.108e-03  3.008e-03  -2.696  0.00702 **
## f.22009.0.8     7.696e-03  3.198e-03   2.406  0.01611 *
## f.22009.0.9    -7.499e-03  3.036e-03  -2.470  0.01350 *
## f.22009.0.10    6.150e-04  3.484e-03   0.177  0.85989
## f.22009.0.11    9.237e-04  4.058e-03   0.228  0.81992
## f.22009.0.12    3.503e-03  3.575e-03   0.980  0.32713
## f.22009.0.13   -4.180e-03  2.909e-03  -1.437  0.15071
## f.22009.0.14   -1.579e-02  3.073e-03  -5.138 2.78e-07 ***
## f.22009.0.15   -1.274e-03  3.150e-03  -0.404  0.68590
## f.22009.0.16   -7.412e-03  3.090e-03  -2.399  0.01645 *
## f.22009.0.17   -2.120e-03  2.870e-03  -0.739  0.45995
## f.22009.0.18    1.685e-03  2.878e-03   0.586  0.55813
## f.22009.0.19    1.880e-03  2.864e-03   0.656  0.51151
## f.22009.0.20    1.858e-03  2.871e-03   0.647  0.51747
## f.34.0.0        2.011e-02  3.822e-04  52.606  < 2e-16 ***
## f.22000.0.0-1   3.055e-02  4.047e-02   0.755  0.45041
## f.22000.0.010  -3.083e-02  4.089e-02  -0.754  0.45084
## f.22000.0.0-10  7.819e-02  4.115e-02   1.900  0.05739 .
## f.22000.0.011   5.189e-02  4.026e-02   1.289  0.19752
## f.22000.0.0-11  4.696e-02  4.072e-02   1.153  0.24886
## f.22000.0.012   1.971e-02  4.049e-02   0.487  0.62645
## f.22000.0.013  -4.313e-03  4.033e-02  -0.107  0.91483
## f.22000.0.014   4.449e-02  4.010e-02   1.109  0.26728
## f.22000.0.015   3.783e-02  4.042e-02   0.936  0.34925
```

```
## f.22000.0.015   3.765e-02  4.042e-02   0.930  0.34925
## f.22000.0.016   5.599e-02  4.058e-02   1.380  0.16764
## f.22000.0.017   3.993e-02  4.021e-02   0.993  0.32078
## f.22000.0.018  -2.752e-02  4.064e-02  -0.677  0.49828
## f.22000.0.019   1.077e-02  3.980e-02   0.271  0.78671
## f.22000.0.02    3.166e-03  3.995e-02   0.079  0.93684
## f.22000.0.0-2   7.898e-02  4.067e-02   1.942  0.05216 .
## f.22000.0.020  -1.869e-04  4.051e-02  -0.005  0.99632
## f.22000.0.021   2.102e-02  4.034e-02   0.521  0.60226
## f.22000.0.022   1.742e-02  4.041e-02   0.431  0.66645
## f.22000.0.023   1.959e-02  4.037e-02   0.485  0.62744
## f.22000.0.024   1.352e-02  3.987e-02   0.339  0.73452
## f.22000.0.025   5.363e-02  4.086e-02   1.313  0.18927
## f.22000.0.026  -4.029e-02  4.063e-02  -0.992  0.32131
## f.22000.0.027  -6.911e-03  4.005e-02  -0.173  0.86300
## f.22000.0.028   6.169e-03  4.043e-02   0.153  0.87872
## f.22000.0.029   1.843e-02  4.009e-02   0.460  0.64562
## f.22000.0.03    1.187e-02  4.006e-02   0.296  0.76696
## f.22000.0.0-3  -4.396e-03  4.024e-02  -0.109  0.91300
## f.22000.0.030  -3.044e-02  4.011e-02  -0.759  0.44786
## f.22000.0.031  -6.492e-03  4.028e-02  -0.161  0.87196
## f.22000.0.032  -1.843e-02  4.037e-02  -0.457  0.64796
## f.22000.0.033   1.766e-02  4.115e-02   0.429  0.66780
## f.22000.0.034   2.787e-02  4.019e-02   0.693  0.48809
## f.22000.0.035   6.583e-02  4.026e-02   1.635  0.10199
## f.22000.0.036   1.398e-02  4.000e-02   0.349  0.72678
## f.22000.0.037  -7.335e-03  4.058e-02  -0.181  0.85657
## f.22000.0.038   5.641e-02  4.044e-02   1.395  0.16312
## f.22000.0.039   2.534e-02  4.089e-02   0.620  0.53548
## f.22000.0.04   -6.914e-03  4.081e-02  -0.169  0.86547
## f.22000.0.0-4   7.695e-02  4.097e-02   1.878  0.06039 .
## f.22000.0.040   3.941e-02  4.042e-02   0.975  0.32949
## f.22000.0.041   1.315e-02  4.098e-02   0.321  0.74825
## f.22000.0.042  -1.308e-02  4.023e-02  -0.325  0.74509
## f.22000.0.043  -3.616e-02  4.101e-02  -0.882  0.37796
## f.22000.0.044   6.722e-02  4.065e-02   1.654  0.09817 .
## f.22000.0.045   3.899e-03  4.057e-02   0.096  0.92345
## f.22000.0.046  -2.600e-02  4.078e-02  -0.638  0.52371
## f.22000.0.047  -1.173e-02  4.085e-02  -0.287  0.77399
## f.22000.0.048   7.381e-03  4.083e-02   0.181  0.85654
## f.22000.0.049   5.712e-02  4.075e-02   1.402  0.16104
## f.22000.0.05    1.038e-02  4.009e-02   0.259  0.79563
## f.22000.0.0-5   6.605e-02  4.050e-02   1.631  0.10291
## f.22000.0.050  -6.010e-03  4.076e-02  -0.147  0.88277
## f.22000.0.051   7.357e-02  4.021e-02   1.830  0.06726 .
## f.22000.0.052   2.680e-02  4.101e-02   0.653  0.51350
## f.22000.0.053  -1.124e-02  4.064e-02  -0.277  0.78214
## f.22000.0.054   7.185e-02  4.074e-02   1.763  0.07783 .
## f.22000.0.055   5.844e-02  4.115e-02   1.420  0.15558
## f.22000.0.056   3.680e-02  4.080e-02   0.902  0.36702
## f.22000.0.057   4.821e-02  4.094e-02   1.178  0.23890
## f.22000.0.058   2.063e-02  4.081e-02   0.505  0.61324
## f.22000.0.059   2.692e-02  4.060e-02   0.663  0.50731
## f.22000.0.06    7.216e-03  3.993e-02   0.181  0.85660
## f.22000.0.0-6   4.209e-02  4.090e-02   1.029  0.30349
## f.22000.0.060   1.797e-03  4.104e-02   0.044  0.96508
## f.22000.0.061   3.475e-02  4.122e-02   0.843  0.39923
## f.22000.0.062   3.831e-02  4.108e-02   0.933  0.35106
## f.22000.0.063   1.535e-02  4.108e-02   0.374  0.70872
## f.22000.0.064  -4.624e-03  4.078e-02  -0.113  0.90971
## f.22000.0.065  -7.300e-03  4.101e-02  -0.178  0.85873
## f.22000.0.066   1.317e-04  4.135e-02   0.003  0.99746
## f.22000.0.067  -2.072e-02  4.097e-02  -0.506  0.61311
## f.22000.0.068   6.909e-03  4.086e-02   0.169  0.86575
## f.22000.0.069   1.986e-02  4.104e-02   0.484  0.62854
## f.22000.0.07   -2.834e-02  4.026e-02  -0.704  0.48148
## f.22000.0.0-7   5.611e-02  4.054e-02   1.384  0.16633
## f.22000.0.070  -2.300e-02  4.110e-02  -0.560  0.57578
## f.22000.0.071  -2.450e-02  4.087e-02  -0.600  0.54878
## f.22000.0.072   5.322e-03  4.114e-02   0.129  0.89708
## f.22000.0.073   9.762e-03  4.116e-02   0.237  0.81250
## f.22000.0.074   3.877e-02  4.126e-02   0.940  0.34729
## f.22000.0.075   7.016e-02  4.084e-02   1.718  0.08577 .
```

```
## f.22000.0.076   5.160e-02  4.126e-02   1.251  0.21101
## f.22000.0.077   2.326e-02  4.101e-02   0.567  0.57059
## f.22000.0.078  -3.794e-02  4.092e-02  -0.927  0.35385
## f.22000.0.079  -9.373e-03  4.069e-02  -0.230  0.81784
## f.22000.0.08   -1.582e-03  4.014e-02  -0.039  0.96856
## f.22000.0.0-8   2.376e-02  4.083e-02   0.582  0.56055
## f.22000.0.080   6.181e-02  4.117e-02   1.501  0.13324
## f.22000.0.081  -2.976e-03  4.171e-02  -0.071  0.94312
## f.22000.0.082  -2.154e-02  4.117e-02  -0.523  0.60081
## f.22000.0.083   1.849e-02  4.120e-02   0.449  0.65353
## f.22000.0.084   2.361e-02  4.125e-02   0.572  0.56706
## f.22000.0.085   2.723e-02  4.108e-02   0.663  0.50739
## f.22000.0.086  -1.371e-02  4.115e-02  -0.333  0.73909
## f.22000.0.087   3.161e-02  4.110e-02   0.769  0.44181
## f.22000.0.088   8.835e-03  4.198e-02   0.210  0.83330
## f.22000.0.089   9.886e-03  4.159e-02   0.238  0.81210
## f.22000.0.09   -2.306e-02  3.994e-02  -0.577  0.56363
## f.22000.0.0-9   5.672e-02  4.086e-02   1.388  0.16502
## f.22000.0.090   9.939e-03  4.126e-02   0.241  0.80964
## f.22000.0.091  -3.996e-02  4.256e-02  -0.939  0.34779
## f.22000.0.092   3.350e-02  4.123e-02   0.813  0.41643
## f.22000.0.093   3.121e-02  4.118e-02   0.758  0.44850
## f.22000.0.094  -3.135e-03  5.266e-02  -0.060  0.95253
## f.22000.0.095  -9.244e-03  4.392e-02  -0.210  0.83331
## f.22001.0.01   -1.365e-01  5.848e-03 -23.339  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9825 on 117643 degrees of freedom
##   (2095 observations deleted due to missingness)
## Multiple R-squared:  0.03563,    Adjusted R-squared:  0.03459
## F-statistic: 33.96 on 128 and 117643 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.
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 = selfharmideation ~ f.20522.0.0 + 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.3115 -0.5975 -0.3889  0.2771  5.2487
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.131e+01  7.471e-01 -55.295  < 2e-16 ***
## f.20522.0.0    -1.105e-01  2.892e-03 -38.216  < 2e-16 ***
## pgsfive         3.084e-02  2.886e-03  10.684  < 2e-16 ***
## f.22009.0.1     8.277e-03  3.009e-03   2.751  0.00594 **
## f.22009.0.2    -7.559e-04  2.937e-03  -0.257  0.79692
## f.22009.0.3     5.523e-04  2.971e-03   0.186  0.85251
## f.22009.0.5    -4.281e-03  3.152e-03  -1.358  0.17449
## f.22009.0.6     6.764e-04  2.981e-03   0.227  0.82048
## f.22009.0.7    -7.950e-03  3.029e-03  -2.624  0.00868 **
## f.22009.0.8     7.985e-03  3.218e-03   2.481  0.01309 *
## f.22009.0.9    -9.792e-03  3.058e-03  -3.202  0.00136 **
## f.22009.0.10    1.723e-04  3.507e-03   0.049  0.96081
## f.22009.0.11   -2.596e-03  4.085e-03  -0.636  0.52508
## f.22009.0.12    4.435e-03  3.601e-03   1.232  0.21810
## f.22009.0.13   -4.153e-03  2.929e-03  -1.418  0.15626
## f.22009.0.14   -1.483e-02  3.095e-03  -4.792 1.66e-06 ***
## f.22009.0.15   -2.447e-03  3.171e-03  -0.772  0.44025
## f.22009.0.16   -6.510e-03  3.110e-03  -2.093  0.03632 *
```

```
## f.22009.0.16    6.510e-03  3.110e-03   2.093  0.03632
## f.22009.0.17   -1.399e-03  2.889e-03  -0.484  0.62818
## f.22009.0.18    5.881e-05  2.898e-03   0.020  0.98381
## f.22009.0.19    3.268e-03  2.884e-03   1.133  0.25714
## f.22009.0.20   -5.881e-04  2.890e-03  -0.203  0.83879
## f.34.0.0        2.118e-02  3.823e-04  55.412  < 2e-16 ***
## f.22000.0.0-1   2.359e-02  4.069e-02   0.580  0.56204
## f.22000.0.010  -2.370e-02  4.118e-02  -0.576  0.56492
## f.22000.0.0-10  8.321e-02  4.133e-02   2.014  0.04406 *
## f.22000.0.011   5.506e-02  4.034e-02   1.365  0.17228
## f.22000.0.0-11  4.616e-02  4.090e-02   1.129  0.25911
## f.22000.0.012   3.409e-02  4.068e-02   0.838  0.40196
## f.22000.0.013  -7.049e-03  4.050e-02  -0.174  0.86183
## f.22000.0.014   4.469e-02  4.026e-02   1.110  0.26700
## f.22000.0.015   3.125e-02  4.070e-02   0.768  0.44264
## f.22000.0.016   5.768e-02  4.069e-02   1.418  0.15629
## f.22000.0.017   4.574e-02  4.038e-02   1.133  0.25738
## f.22000.0.018  -2.232e-02  4.072e-02  -0.548  0.58365
## f.22000.0.019   2.199e-02  3.995e-02   0.550  0.58200
## f.22000.0.02    5.301e-04  4.015e-02   0.013  0.98947
## f.22000.0.0-2   7.408e-02  4.084e-02   1.814  0.06969 .
## f.22000.0.020   1.562e-02  4.076e-02   0.383  0.70157
## f.22000.0.021   1.988e-02  4.047e-02   0.491  0.62324
## f.22000.0.022   2.350e-02  4.055e-02   0.580  0.56220
## f.22000.0.023   1.900e-02  4.046e-02   0.470  0.63860
## f.22000.0.024   1.812e-02  4.002e-02   0.453  0.65065
## f.22000.0.025   4.844e-02  4.103e-02   1.181  0.23771
## f.22000.0.026  -3.963e-02  4.086e-02  -0.970  0.33215
## f.22000.0.027   6.894e-03  4.027e-02   0.171  0.86407
## f.22000.0.028   3.349e-03  4.059e-02   0.083  0.93423
## f.22000.0.029   2.416e-02  4.036e-02   0.599  0.54943
## f.22000.0.03    6.038e-03  4.013e-02   0.150  0.88040
## f.22000.0.0-3  -9.989e-03  4.033e-02  -0.248  0.80439
## f.22000.0.030  -3.641e-02  4.025e-02  -0.905  0.36566
## f.22000.0.031  -5.758e-03  4.050e-02  -0.142  0.88695
## f.22000.0.032  -2.269e-02  4.053e-02  -0.560  0.57563
## f.22000.0.033   2.365e-02  4.139e-02   0.571  0.56769
## f.22000.0.034   2.600e-02  4.027e-02   0.646  0.51852
## f.22000.0.035   5.918e-02  4.049e-02   1.462  0.14384
## f.22000.0.036   5.363e-03  4.015e-02   0.134  0.89373
## f.22000.0.037  -1.782e-03  4.081e-02  -0.044  0.96518
## f.22000.0.038   5.474e-02  4.058e-02   1.349  0.17738
## f.22000.0.039   2.825e-02  4.097e-02   0.690  0.49045
## f.22000.0.04   -4.328e-03  4.084e-02  -0.106  0.91561
## f.22000.0.0-4   7.286e-02  4.108e-02   1.774  0.07614 .
## f.22000.0.040   4.514e-02  4.059e-02   1.112  0.26602
## f.22000.0.041   1.749e-02  4.113e-02   0.425  0.67061
## f.22000.0.042  -1.742e-03  4.042e-02  -0.043  0.96563
## f.22000.0.043  -3.544e-02  4.122e-02  -0.860  0.38990
## f.22000.0.044   7.163e-02  4.078e-02   1.756  0.07902 .
## f.22000.0.045   1.476e-02  4.086e-02   0.361  0.71798
## f.22000.0.046  -2.000e-02  4.093e-02  -0.489  0.62511
## f.22000.0.047  -6.498e-03  4.093e-02  -0.159  0.87386
## f.22000.0.048   1.499e-02  4.095e-02   0.366  0.71435
## f.22000.0.049   6.469e-02  4.093e-02   1.580  0.11400
## f.22000.0.05    6.116e-03  4.031e-02   0.152  0.87940
## f.22000.0.0-5   6.650e-02  4.067e-02   1.635  0.10202
## f.22000.0.050   4.875e-03  4.092e-02   0.119  0.90517
## f.22000.0.051   7.939e-02  4.047e-02   1.962  0.04977 *
## f.22000.0.052   2.881e-02  4.109e-02   0.701  0.48325
## f.22000.0.053  -1.148e-02  4.079e-02  -0.281  0.77846
## f.22000.0.054   6.174e-02  4.089e-02   1.510  0.13106
## f.22000.0.055   6.032e-02  4.126e-02   1.462  0.14376
## f.22000.0.056   3.730e-02  4.094e-02   0.911  0.36227
## f.22000.0.057   5.432e-02  4.112e-02   1.321  0.18647
## f.22000.0.058   2.791e-02  4.092e-02   0.682  0.49518
## f.22000.0.059   2.842e-02  4.083e-02   0.696  0.48631
## f.22000.0.06    5.706e-03  4.003e-02   0.143  0.88663
## f.22000.0.0-6   3.183e-02  4.098e-02   0.777  0.43727
## f.22000.0.060   4.491e-03  4.115e-02   0.109  0.91310
## f.22000.0.061   3.907e-02  4.137e-02   0.944  0.34497
## f.22000.0.062   3.792e-02  4.129e-02   0.918  0.35845
## f.22000.0.063   5.264e-03  4.125e-02   0.128  0.89846
```

```
## f.22000.0.064  -5.631e-03  4.098e-02  -0.137  0.89071
## f.22000.0.065   5.800e-03  4.124e-02   0.141  0.88817
## f.22000.0.066   4.974e-03  4.156e-02   0.120  0.90473
## f.22000.0.067  -1.551e-02  4.113e-02  -0.377  0.70599
## f.22000.0.068   9.831e-03  4.104e-02   0.240  0.81066
## f.22000.0.069   2.686e-02  4.125e-02   0.651  0.51489
## f.22000.0.07   -2.232e-02  4.040e-02  -0.553  0.58052
## f.22000.0.0-7   5.656e-02  4.064e-02   1.392  0.16401
## f.22000.0.070  -1.659e-02  4.131e-02  -0.402  0.68799
## f.22000.0.071  -2.098e-02  4.095e-02  -0.512  0.60839
## f.22000.0.072   8.261e-03  4.125e-02   0.200  0.84128
## f.22000.0.073   1.247e-02  4.128e-02   0.302  0.76257
## f.22000.0.074   3.585e-02  4.146e-02   0.865  0.38723
## f.22000.0.075   7.222e-02  4.091e-02   1.766  0.07748 .
## f.22000.0.076   4.510e-02  4.143e-02   1.089  0.27633
## f.22000.0.077   1.660e-02  4.120e-02   0.403  0.68698
## f.22000.0.078  -2.837e-02  4.106e-02  -0.691  0.48964
## f.22000.0.079  -4.812e-04  4.092e-02  -0.012  0.99062
## f.22000.0.08   -2.005e-03  4.035e-02  -0.050  0.96037
## f.22000.0.0-8   1.930e-02  4.116e-02   0.469  0.63907
## f.22000.0.080   7.088e-02  4.137e-02   1.714  0.08662 .
## f.22000.0.081   8.005e-03  4.188e-02   0.191  0.84842
## f.22000.0.082  -1.124e-02  4.143e-02  -0.271  0.78621
## f.22000.0.083   1.160e-02  4.145e-02   0.280  0.77963
## f.22000.0.084   3.482e-02  4.138e-02   0.841  0.40011
## f.22000.0.085   3.394e-02  4.122e-02   0.823  0.41032
## f.22000.0.086  -2.314e-02  4.134e-02  -0.560  0.57575
## f.22000.0.087   3.241e-02  4.127e-02   0.785  0.43224
## f.22000.0.088   5.262e-03  4.214e-02   0.125  0.90062
## f.22000.0.089   7.429e-03  4.187e-02   0.177  0.85918
## f.22000.0.09   -2.193e-02  4.008e-02  -0.547  0.58417
## f.22000.0.0-9   5.572e-02  4.114e-02   1.354  0.17561
## f.22000.0.090   1.508e-02  4.130e-02   0.365  0.71497
## f.22000.0.091  -4.475e-02  4.273e-02  -1.047  0.29502
## f.22000.0.092   3.821e-02  4.144e-02   0.922  0.35644
## f.22000.0.093   2.923e-02  4.151e-02   0.704  0.48128
## f.22000.0.094   7.335e-03  5.301e-02   0.138  0.88994
## f.22000.0.095  -1.581e-02  4.415e-02  -0.358  0.72028
## f.22001.0.01   -1.219e-01  5.822e-03 -20.938  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9799 on 115424 degrees of freedom
##   (4314 observations deleted due to missingness)
## Multiple R-squared:  0.04514,    Adjusted R-squared:  0.04408
## F-statistic: 42.63 on 128 and 115424 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.22009.0.5 +
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.22009.0.5 + 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
## -1.8801 -0.9878 -0.2576  0.8360  4.2254
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.376e+01  1.857e+00 -18.174  < 2e-16 ***
## anxietyscore    3.095e-01  7.172e-03  43.159  < 2e-16 ***
```

```
## anxietyscore    5.095e-01  7.172e-03  45.199  < 2e-16
## pgsfive         2.871e-02  7.105e-03   4.041 5.34e-05 ***
## f.22009.0.1     1.876e-02  7.354e-03   2.551   0.0108 *
## f.22009.0.2    -1.592e-02  7.198e-03  -2.212   0.0270 *
## f.22009.0.3    -5.598e-03  7.248e-03  -0.772   0.4399
## f.22009.0.5    -1.257e-02  7.661e-03  -1.641   0.1008
## f.22009.0.6     1.377e-02  7.298e-03   1.887   0.0592 .
## f.22009.0.7    -1.026e-02  7.328e-03  -1.400   0.1616
## f.22009.0.8     5.102e-03  7.895e-03   0.646   0.5182
## f.22009.0.9    -1.566e-02  7.535e-03  -2.079   0.0377 *
## f.22009.0.10    5.790e-03  8.642e-03   0.670   0.5029
## f.22009.0.11   -4.190e-03  1.009e-02  -0.415   0.6778
## f.22009.0.12    3.918e-03  8.773e-03   0.447   0.6552
## f.22009.0.13   -3.276e-03  7.138e-03  -0.459   0.6463
## f.22009.0.14   -1.763e-02  7.641e-03  -2.308   0.0210 *
## f.22009.0.15    1.995e-03  7.781e-03   0.256   0.7976
## f.22009.0.16   -2.129e-02  7.652e-03  -2.782   0.0054 **
## f.22009.0.17    2.909e-03  7.082e-03   0.411   0.6812
## f.22009.0.18    4.532e-04  7.148e-03   0.063   0.9494
## f.22009.0.19   -2.797e-03  7.089e-03  -0.395   0.6932
## f.22009.0.20   -2.853e-03  7.084e-03  -0.403   0.6871
## f.34.0.0        1.753e-02  9.498e-04  18.453  < 2e-16 ***
## f.22000.0.0-1   6.702e-02  1.005e-01   0.667   0.5048
## f.22000.0.010  -5.444e-02  1.010e-01  -0.539   0.5900
## f.22000.0.0-10  9.842e-02  1.001e-01   0.983   0.3255
## f.22000.0.011   2.406e-02  9.688e-02   0.248   0.8039
## f.22000.0.0-11  4.080e-02  1.006e-01   0.406   0.6850
## f.22000.0.012  -3.331e-02  9.925e-02  -0.336   0.7372
## f.22000.0.013  -4.983e-02  9.802e-02  -0.508   0.6112
## f.22000.0.014  -2.864e-02  9.733e-02  -0.294   0.7685
## f.22000.0.015   6.146e-02  9.868e-02   0.623   0.5334
## f.22000.0.016   8.873e-02  9.794e-02   0.906   0.3649
## f.22000.0.017   7.735e-02  1.007e-01   0.768   0.4423
## f.22000.0.018   1.851e-02  9.888e-02   0.187   0.8516
## f.22000.0.019   6.882e-02  9.851e-02   0.699   0.4848
## f.22000.0.02   -7.309e-03  9.691e-02  -0.075   0.9399
## f.22000.0.0-2  -7.261e-03  9.634e-02  -0.075   0.9399
## f.22000.0.020  -1.170e-02  9.757e-02  -0.120   0.9046
## f.22000.0.021   1.098e-01  9.851e-02   1.114   0.2652
## f.22000.0.022  -5.941e-02  9.848e-02  -0.603   0.5463
## f.22000.0.023   4.487e-02  9.804e-02   0.458   0.6471
## f.22000.0.024   4.735e-03  9.757e-02   0.049   0.9613
## f.22000.0.025   9.526e-04  1.003e-01   0.009   0.9924
## f.22000.0.026  -1.097e-01  9.954e-02  -1.102   0.2703
## f.22000.0.027  -6.444e-02  9.811e-02  -0.657   0.5113
## f.22000.0.028   2.272e-02  9.706e-02   0.234   0.8149
## f.22000.0.029  -1.449e-01  9.616e-02  -1.507   0.1319
## f.22000.0.03    6.413e-02  9.946e-02   0.645   0.5191
## f.22000.0.0-3   4.277e-02  9.955e-02   0.430   0.6675
## f.22000.0.030  -1.147e-01  9.689e-02  -1.184   0.2364
## f.22000.0.031  -1.101e-01  9.648e-02  -1.141   0.2540
## f.22000.0.032  -4.911e-02  9.858e-02  -0.498   0.6183
## f.22000.0.033   1.525e-02  1.001e-01   0.152   0.8789
## f.22000.0.034   8.042e-02  9.803e-02   0.820   0.4121
## f.22000.0.035   1.827e-02  9.867e-02   0.185   0.8531
## f.22000.0.036  -3.179e-03  9.995e-02  -0.032   0.9746
## f.22000.0.037  -1.501e-01  1.023e-01  -1.468   0.1422
## f.22000.0.038   1.613e-01  9.986e-02   1.615   0.1063
## f.22000.0.039   1.873e-02  9.868e-02   0.190   0.8495
## f.22000.0.04    2.743e-02  1.008e-01   0.272   0.7855
## f.22000.0.0-4   1.376e-01  1.008e-01   1.365   0.1722
## f.22000.0.040   3.454e-03  9.793e-02   0.035   0.9719
## f.22000.0.041  -2.684e-02  1.004e-01  -0.267   0.7891
## f.22000.0.042  -2.522e-02  9.849e-02  -0.256   0.7979
## f.22000.0.043  -4.035e-02  1.016e-01  -0.397   0.6912
## f.22000.0.044   9.310e-02  9.665e-02   0.963   0.3354
## f.22000.0.045  -2.802e-02  1.000e-01  -0.280   0.7794
## f.22000.0.046  -2.169e-02  9.964e-02  -0.218   0.8277
## f.22000.0.047  -7.928e-02  9.865e-02  -0.804   0.4216
## f.22000.0.048   2.113e-02  9.840e-02   0.215   0.8300
## f.22000.0.049   3.175e-03  9.915e-02   0.032   0.9745
## f.22000.0.05    4.792e-02  9.723e-02   0.493   0.6221
## f.22000.0.0-5   4.012e-02  9.925e-02   0.404   0.6860
```

```
## f.22000.0.050   5.139e-02  1.022e-01   0.503   0.6149
## f.22000.0.051   1.736e-01  9.822e-02   1.767   0.0772 .
## f.22000.0.052  -1.567e-02  9.974e-02  -0.157   0.8752
## f.22000.0.053   4.285e-02  1.020e-01   0.420   0.6745
## f.22000.0.054   9.433e-02  9.868e-02   0.956   0.3391
## f.22000.0.055   1.832e-01  9.820e-02   1.865   0.0622 .
## f.22000.0.056   4.511e-02  1.008e-01   0.448   0.6545
## f.22000.0.057   6.430e-02  9.733e-02   0.661   0.5089
## f.22000.0.058   7.682e-02  1.004e-01   0.765   0.4440
## f.22000.0.059   4.167e-02  1.010e-01   0.412   0.6800
## f.22000.0.06   -2.187e-02  9.649e-02  -0.227   0.8207
## f.22000.0.0-6   3.957e-03  9.805e-02   0.040   0.9678
## f.22000.0.060  -9.683e-02  9.715e-02  -0.997   0.3189
## f.22000.0.061   7.040e-02  1.004e-01   0.701   0.4831
## f.22000.0.062   1.527e-01  1.016e-01   1.504   0.1326
## f.22000.0.063  -7.602e-03  1.009e-01  -0.075   0.9399
## f.22000.0.064  -1.608e-01  9.885e-02  -1.627   0.1038
## f.22000.0.065   4.875e-03  1.002e-01   0.049   0.9612
## f.22000.0.066  -4.895e-02  1.007e-01  -0.486   0.6269
## f.22000.0.067  -7.130e-02  9.966e-02  -0.715   0.4744
## f.22000.0.068   1.696e-02  9.838e-02   0.172   0.8632
## f.22000.0.069  -1.993e-02  9.804e-02  -0.203   0.8389
## f.22000.0.07   -6.061e-02  9.631e-02  -0.629   0.5291
## f.22000.0.0-7   9.239e-03  9.954e-02   0.093   0.9260
## f.22000.0.070   1.084e-02  1.009e-01   0.107   0.9144
## f.22000.0.071  -2.606e-02  9.953e-02  -0.262   0.7935
## f.22000.0.072   1.345e-01  1.003e-01   1.341   0.1799
## f.22000.0.073  -2.296e-02  1.018e-01  -0.226   0.8215
## f.22000.0.074   2.513e-02  1.003e-01   0.251   0.8021
## f.22000.0.075   2.122e-01  9.838e-02   2.157   0.0310 *
## f.22000.0.076   3.603e-04  1.013e-01   0.004   0.9972
## f.22000.0.077   7.172e-02  1.025e-01   0.700   0.4841
## f.22000.0.078  -9.699e-02  9.935e-02  -0.976   0.3290
## f.22000.0.079  -8.608e-02  9.820e-02  -0.877   0.3807
## f.22000.0.08   -1.565e-02  9.936e-02  -0.158   0.8748
## f.22000.0.0-8   9.454e-02  9.965e-02   0.949   0.3428
## f.22000.0.080   3.499e-03  9.867e-02   0.035   0.9717
## f.22000.0.081  -6.273e-02  1.007e-01  -0.623   0.5333
## f.22000.0.082  -3.746e-02  1.022e-01  -0.367   0.7139
## f.22000.0.083  -1.363e-01  1.006e-01  -1.355   0.1754
## f.22000.0.084   3.837e-02  9.820e-02   0.391   0.6960
## f.22000.0.085   1.397e-01  1.006e-01   1.389   0.1649
## f.22000.0.086  -2.272e-03  9.897e-02  -0.023   0.9817
## f.22000.0.087   1.108e-01  1.005e-01   1.103   0.2699
## f.22000.0.088   3.088e-04  1.020e-01   0.003   0.9976
## f.22000.0.089   5.342e-02  1.008e-01   0.530   0.5962
## f.22000.0.09    1.577e-01  9.945e-02   1.586   0.1128
## f.22000.0.0-9   1.053e-01  9.749e-02   1.080   0.2802
## f.22000.0.090   1.424e-02  1.001e-01   0.142   0.8868
## f.22000.0.091  -1.190e-02  1.039e-01  -0.115   0.9088
## f.22000.0.092   6.842e-02  1.014e-01   0.675   0.5000
## f.22000.0.093  -4.282e-02  1.031e-01  -0.415   0.6780
## f.22000.0.094  -1.360e-03  1.326e-01  -0.010   0.9918
## f.22000.0.095   6.506e-02  1.085e-01   0.600   0.5487
## f.22001.0.01    1.598e-02  1.472e-02   1.085   0.2777
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.182 on 28048 degrees of freedom
##   (91690 observations deleted due to missingness)
## Multiple R-squared:  0.08771,    Adjusted R-squared:  0.08355
## F-statistic: 21.07 on 128 and 28048 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.
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 = selfharmscore ~ depressionscore + pgsfive + f.22009.0.1 +
```

```
## lm(formula = selfharmscore ~ depressionscore + 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.0110 -0.8172 -0.2154  0.6548  4.5713
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)     -2.509e+01  1.420e+00 -17.666  < 2e-16 ***
## depressionscore  4.974e-01  5.572e-03  89.267  < 2e-16 ***
## pgsfive          3.263e-02  5.373e-03   6.073 1.27e-09 ***
## f.22009.0.1      6.918e-03  5.579e-03   1.240  0.21501
## f.22009.0.2     -5.980e-03  5.432e-03  -1.101  0.27096
## f.22009.0.3      3.978e-03  5.508e-03   0.722  0.47019
## f.22009.0.5     -1.032e-02  5.786e-03  -1.784  0.07446 .
## f.22009.0.6      3.179e-03  5.539e-03   0.574  0.56596
## f.22009.0.7     -7.666e-03  5.616e-03  -1.365  0.17229
## f.22009.0.8      4.342e-03  5.992e-03   0.725  0.46865
## f.22009.0.9     -1.826e-02  5.701e-03  -3.203  0.00136 **
## f.22009.0.10    -3.367e-03  6.543e-03  -0.515  0.60686
## f.22009.0.11    -6.964e-03  7.653e-03  -0.910  0.36284
## f.22009.0.12     1.322e-02  6.666e-03   1.984  0.04730 *
## f.22009.0.13    -1.195e-03  5.435e-03  -0.220  0.82591
## f.22009.0.14    -1.649e-02  5.768e-03  -2.859  0.00426 **
## f.22009.0.15     2.300e-03  5.910e-03   0.389  0.69717
## f.22009.0.16    -1.247e-02  5.841e-03  -2.135  0.03276 *
## f.22009.0.17     3.848e-03  5.381e-03   0.715  0.47449
## f.22009.0.18    -7.657e-03  5.423e-03  -1.412  0.15798
## f.22009.0.19     3.589e-03  5.359e-03   0.670  0.50308
## f.22009.0.20    -9.760e-04  5.391e-03  -0.181  0.85634
## f.34.0.0         1.302e-02  7.267e-04  17.915  < 2e-16 ***
## f.22000.0.0-1    6.590e-02  7.593e-02   0.868  0.38541
## f.22000.0.010   -1.233e-01  7.629e-02  -1.616  0.10607
## f.22000.0.0-10   3.492e-02  7.679e-02   0.455  0.64930
## f.22000.0.011    3.496e-02  7.587e-02   0.461  0.64499
## f.22000.0.0-11   1.641e-02  7.664e-02   0.214  0.83048
## f.22000.0.012   -2.088e-02  7.602e-02  -0.275  0.78356
## f.22000.0.013   -3.631e-02  7.550e-02  -0.481  0.63057
## f.22000.0.014   -3.670e-02  7.587e-02  -0.484  0.62855
## f.22000.0.015    5.062e-02  7.545e-02   0.671  0.50226
## f.22000.0.016    2.580e-02  7.549e-02   0.342  0.73250
## f.22000.0.017   -3.414e-02  7.628e-02  -0.448  0.65450
## f.22000.0.018   -8.517e-02  7.584e-02  -1.123  0.26144
## f.22000.0.019   -2.927e-02  7.478e-02  -0.391  0.69545
## f.22000.0.02    -2.920e-02  7.430e-02  -0.393  0.69429
## f.22000.0.0-2    3.867e-02  7.612e-02   0.508  0.61146
## f.22000.0.020    3.608e-02  7.716e-02   0.468  0.64005
## f.22000.0.021    3.395e-02  7.674e-02   0.442  0.65819
## f.22000.0.022   -6.160e-02  7.695e-02  -0.801  0.42340
## f.22000.0.023    2.295e-02  7.673e-02   0.299  0.76485
## f.22000.0.024    1.826e-02  7.522e-02   0.243  0.80822
## f.22000.0.025    2.059e-02  7.569e-02   0.272  0.78558
## f.22000.0.026   -9.210e-02  7.695e-02  -1.197  0.23137
## f.22000.0.027    5.513e-03  7.535e-02   0.073  0.94168
## f.22000.0.028    3.353e-03  7.494e-02   0.045  0.96431
## f.22000.0.029   -9.368e-02  7.540e-02  -1.243  0.21405
## f.22000.0.03    -5.820e-02  7.513e-02  -0.775  0.43855
## f.22000.0.0-3   -4.926e-02  7.588e-02  -0.649  0.51621
## f.22000.0.030   -7.531e-02  7.536e-02  -0.999  0.31761
## f.22000.0.031   -5.624e-03  7.648e-02  -0.074  0.94138
## f.22000.0.032   -6.977e-02  7.686e-02  -0.908  0.36397
## f.22000.0.033   -5.267e-02  7.772e-02  -0.678  0.49796
## f.22000.0.034    8.792e-02  7.622e-02   1.153  0.24874
## f.22000.0.035   -3.123e-02  7.582e-02  -0.412  0.68046
## f.22000.0.036   -8.100e-02  7.485e-02  -1.082  0.27915
## f.22000.0.037   -9.606e-02  7.701e-02  -1.247  0.21228
## f.22000.0.038    2.142e-02  7.705e-02   0.278  0.78099
## f.22000.0.039   -9.554e-02  7.649e-02  -1.249  0.21169
```

```
## f.22000.0.04    -9.406e-03  7.755e-02  -0.121  0.90347
## f.22000.0.0-4   -4.387e-02  7.568e-02  -0.580  0.56212
## f.22000.0.040   -6.230e-03  7.598e-02  -0.082  0.93466
## f.22000.0.041    4.051e-02  7.701e-02   0.526  0.59889
## f.22000.0.042   -5.203e-03  7.832e-02  -0.066  0.94703
## f.22000.0.043   -3.755e-02  7.701e-02  -0.488  0.62586
## f.22000.0.044    6.081e-02  7.659e-02   0.794  0.42728
## f.22000.0.045   -1.398e-02  7.680e-02  -0.182  0.85558
## f.22000.0.046   -3.837e-02  7.900e-02  -0.486  0.62714
## f.22000.0.047   -6.943e-02  7.678e-02  -0.904  0.36589
## f.22000.0.048   -3.447e-02  7.588e-02  -0.454  0.64966
## f.22000.0.049   -3.135e-02  7.617e-02  -0.412  0.68069
## f.22000.0.05     4.155e-02  7.601e-02   0.547  0.58462
## f.22000.0.0-5    4.045e-02  7.508e-02   0.539  0.59009
## f.22000.0.050   -2.065e-02  7.745e-02  -0.267  0.78973
## f.22000.0.051    7.170e-02  7.617e-02   0.941  0.34652
## f.22000.0.052    6.264e-02  7.790e-02   0.804  0.42136
## f.22000.0.053    3.900e-02  7.790e-02   0.501  0.61666
## f.22000.0.054    6.789e-02  7.618e-02   0.891  0.37284
## f.22000.0.055    8.047e-02  7.598e-02   1.059  0.28958
## f.22000.0.056    3.223e-02  7.888e-02   0.409  0.68287
## f.22000.0.057    2.278e-02  7.583e-02   0.300  0.76387
## f.22000.0.058    9.698e-02  7.762e-02   1.249  0.21155
## f.22000.0.059    2.581e-02  7.711e-02   0.335  0.73789
## f.22000.0.06    -3.081e-02  7.469e-02  -0.412  0.68001
## f.22000.0.0-6    8.704e-03  7.504e-02   0.116  0.90766
## f.22000.0.060   -1.192e-01  7.706e-02  -1.547  0.12177
## f.22000.0.061   -6.870e-02  7.674e-02  -0.895  0.37070
## f.22000.0.062    6.000e-02  7.839e-02   0.765  0.44403
## f.22000.0.063   -1.090e-01  7.668e-02  -1.422  0.15510
## f.22000.0.064   -6.525e-02  7.674e-02  -0.850  0.39516
## f.22000.0.065   -6.382e-02  7.785e-02  -0.820  0.41232
## f.22000.0.066   -1.202e-02  7.744e-02  -0.155  0.87667
## f.22000.0.067   -3.305e-02  7.756e-02  -0.426  0.67001
## f.22000.0.068   -3.976e-02  7.733e-02  -0.514  0.60717
## f.22000.0.069   -7.626e-02  7.844e-02  -0.972  0.33094
## f.22000.0.07    -1.182e-01  7.392e-02  -1.599  0.10979
## f.22000.0.0-7   -4.282e-02  7.637e-02  -0.561  0.57501
## f.22000.0.070   -8.506e-02  7.733e-02  -1.100  0.27138
## f.22000.0.071   -1.602e-02  7.647e-02  -0.210  0.83402
## f.22000.0.072    1.859e-02  7.706e-02   0.241  0.80939
## f.22000.0.073   -8.353e-02  7.664e-02  -1.090  0.27575
## f.22000.0.074   -2.574e-02  7.705e-02  -0.334  0.73830
## f.22000.0.075    6.423e-02  7.869e-02   0.816  0.41440
## f.22000.0.076    3.102e-02  7.761e-02   0.400  0.68938
## f.22000.0.077    1.526e-02  7.749e-02   0.197  0.84388
## f.22000.0.078   -8.277e-02  7.739e-02  -1.070  0.28484
## f.22000.0.079   -1.142e-01  7.587e-02  -1.505  0.13237
## f.22000.0.08    -1.679e-02  7.592e-02  -0.221  0.82503
## f.22000.0.0-8   -3.289e-03  7.706e-02  -0.043  0.96596
## f.22000.0.080    2.396e-02  7.814e-02   0.307  0.75917
## f.22000.0.081    2.549e-02  7.920e-02   0.322  0.74754
## f.22000.0.082   -6.499e-02  7.838e-02  -0.829  0.40701
## f.22000.0.083   -1.073e-01  7.711e-02  -1.391  0.16412
## f.22000.0.084   -6.457e-02  7.779e-02  -0.830  0.40647
## f.22000.0.085    3.995e-03  7.701e-02   0.052  0.95862
## f.22000.0.086   -1.464e-02  7.779e-02  -0.188  0.85073
## f.22000.0.087    3.206e-02  7.814e-02   0.410  0.68158
## f.22000.0.088    4.596e-03  7.946e-02   0.058  0.95388
## f.22000.0.089   -7.799e-03  7.888e-02  -0.099  0.92124
## f.22000.0.09    -3.014e-02  7.496e-02  -0.402  0.68767
## f.22000.0.0-9   -1.430e-02  7.582e-02  -0.189  0.85037
## f.22000.0.090   -2.083e-02  7.733e-02  -0.269  0.78765
## f.22000.0.091   -7.052e-02  8.123e-02  -0.868  0.38531
## f.22000.0.092   -1.725e-02  7.772e-02  -0.222  0.82432
## f.22000.0.093   -6.176e-02  7.796e-02  -0.792  0.42825
## f.22000.0.094    2.059e-02  9.859e-02   0.209  0.83454
## f.22000.0.095   -1.523e-02  8.445e-02  -0.180  0.85687
## f.22001.0.01     1.400e-01  1.135e-02  12.335  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.063 on 39350 degrees of freedom
```

```
##   (80388 observations deleted due to missingness)
## Multiple R-squared:  0.1951, Adjusted R-squared:  0.1924
## F-statistic:  74.5 on 128 and 39350 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.22009.0.5 +
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.22009.0.5 + 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
## -1.6864 -0.6248 -0.4087  0.4258  4.3058
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.813e+01  1.059e+00 -36.017  < 2e-16 ***
## friendship      1.285e-01  4.132e-03  31.101  < 2e-16 ***
## pgsfive         3.317e-02  4.117e-03   8.056 8.01e-16 ***
## f.22009.0.1     8.700e-03  4.275e-03   2.035  0.04183 *
## f.22009.0.2    -5.034e-05  4.172e-03  -0.012  0.99037
## f.22009.0.3    -3.852e-03  4.234e-03  -0.910  0.36297
## f.22009.0.5    -9.638e-04  4.599e-03  -0.210  0.83401
## f.22009.0.6     5.763e-04  4.251e-03   0.136  0.89216
## f.22009.0.7    -5.289e-03  4.296e-03  -1.231  0.21819
## f.22009.0.8     6.159e-03  4.565e-03   1.349  0.17723
## f.22009.0.9    -1.121e-02  4.482e-03  -2.502  0.01236 *
## f.22009.0.10   -1.423e-03  4.986e-03  -0.285  0.77529
## f.22009.0.11    2.652e-03  5.874e-03   0.451  0.65169
## f.22009.0.12    3.386e-04  5.135e-03   0.066  0.94743
## f.22009.0.13   -5.713e-03  4.179e-03  -1.367  0.17160
## f.22009.0.14   -1.158e-02  4.534e-03  -2.554  0.01064 *
## f.22009.0.15   -1.275e-03  4.514e-03  -0.282  0.77757
## f.22009.0.16   -4.904e-03  4.467e-03  -1.098  0.27233
## f.22009.0.17    1.884e-04  4.141e-03   0.046  0.96370
## f.22009.0.18   -1.868e-03  4.248e-03  -0.440  0.66015
## f.22009.0.19    9.472e-04  4.103e-03   0.231  0.81741
## f.22009.0.20    2.677e-03  4.136e-03   0.647  0.51751
## f.34.0.0        1.955e-02  5.416e-04  36.095  < 2e-16 ***
## f.22000.0.0-1  -1.726e-02  5.830e-02  -0.296  0.76712
## f.22000.0.010   3.871e-02  5.812e-02   0.666  0.50544
## f.22000.0.0-10  5.362e-02  5.792e-02   0.926  0.35455
## f.22000.0.011   2.938e-02  5.663e-02   0.519  0.60382
## f.22000.0.0-11  9.422e-02  5.775e-02   1.632  0.10278
## f.22000.0.012   5.025e-02  5.937e-02   0.846  0.39732
## f.22000.0.013   3.161e-02  5.720e-02   0.553  0.58051
## f.22000.0.014  -1.290e-02  5.601e-02  -0.230  0.81783
## f.22000.0.015   9.138e-02  5.739e-02   1.592  0.11132
## f.22000.0.016   9.463e-02  5.742e-02   1.648  0.09933 .
## f.22000.0.017   5.608e-02  5.809e-02   0.965  0.33439
## f.22000.0.018   1.016e-02  5.821e-02   0.175  0.86138
## f.22000.0.019   6.748e-02  5.688e-02   1.186  0.23547
## f.22000.0.02    1.907e-02  5.723e-02   0.333  0.73902
## f.22000.0.0-2   1.239e-01  5.829e-02   2.125  0.03360 *
## f.22000.0.020   3.784e-02  5.850e-02   0.647  0.51781
## f.22000.0.021   2.850e-02  5.739e-02   0.497  0.61948
## f.22000.0.022   3.094e-02  5.839e-02   0.530  0.59615
## f.22000.0.023   3.414e-02  5.612e-02   0.608  0.54295
## f.22000.0.024   3.596e-02  5.698e-02   0.631  0.52793
## f.22000.0.025   7.791e-02  5.812e-02   1.341  0.18006
## f.22000.0.026   1.400e-02  5.803e-02   0.241  0.80936
## f.22000.0.027   2.929e-02  5.718e-02   0.512  0.60842
```

```
## f.22000.0.028   3.801e-02  5.827e-02   0.652  0.51425
## f.22000.0.029   2.654e-02  5.857e-02   0.453  0.65040
## f.22000.0.03    2.839e-02  5.617e-02   0.505  0.61330
## f.22000.0.0-3   5.654e-02  5.667e-02   0.998  0.31840
## f.22000.0.030   1.463e-03  5.747e-02   0.025  0.97969
## f.22000.0.031  -1.316e-02  5.739e-02  -0.229  0.81871
## f.22000.0.032   4.812e-02  5.631e-02   0.855  0.39275
## f.22000.0.033   3.264e-02  5.860e-02   0.557  0.57755
## f.22000.0.034   7.485e-02  5.682e-02   1.317  0.18771
## f.22000.0.035   7.902e-02  5.734e-02   1.378  0.16817
## f.22000.0.036   1.211e-01  5.636e-02   2.148  0.03168 *
## f.22000.0.037   1.590e-02  5.833e-02   0.273  0.78516
## f.22000.0.038   8.634e-02  5.662e-02   1.525  0.12727
## f.22000.0.039  -5.239e-03  5.854e-02  -0.089  0.92869
## f.22000.0.04    1.132e-02  5.800e-02   0.195  0.84532
## f.22000.0.0-4   9.221e-02  5.823e-02   1.583  0.11334
## f.22000.0.040   1.065e-02  5.687e-02   0.187  0.85151
## f.22000.0.041   5.732e-02  5.891e-02   0.973  0.33063
## f.22000.0.042   3.703e-02  5.580e-02   0.664  0.50691
## f.22000.0.043   5.410e-02  5.924e-02   0.913  0.36109
## f.22000.0.044   8.322e-02  5.707e-02   1.458  0.14477
## f.22000.0.045   6.311e-02  5.797e-02   1.089  0.27636
## f.22000.0.046  -3.700e-02  5.875e-02  -0.630  0.52880
## f.22000.0.047  -1.757e-02  5.788e-02  -0.304  0.76143
## f.22000.0.048   8.996e-03  5.812e-02   0.155  0.87700
## f.22000.0.049   4.938e-02  5.797e-02   0.852  0.39431
## f.22000.0.05    6.813e-02  5.574e-02   1.222  0.22157
## f.22000.0.0-5   8.812e-02  5.767e-02   1.528  0.12648
## f.22000.0.050   4.487e-02  5.703e-02   0.787  0.43144
## f.22000.0.051   1.472e-01  5.663e-02   2.600  0.00934 **
## f.22000.0.052  -1.152e-02  5.728e-02  -0.201  0.84063
## f.22000.0.053  -2.846e-02  5.742e-02  -0.496  0.62016
## f.22000.0.054   7.305e-02  5.821e-02   1.255  0.20950
## f.22000.0.055   8.060e-02  5.783e-02   1.394  0.16346
## f.22000.0.056   9.486e-02  5.930e-02   1.600  0.10970
## f.22000.0.057   7.922e-02  5.971e-02   1.327  0.18459
## f.22000.0.058   8.797e-02  5.836e-02   1.507  0.13172
## f.22000.0.059   5.579e-02  5.715e-02   0.976  0.32896
## f.22000.0.06    5.829e-02  5.700e-02   1.023  0.30652
## f.22000.0.0-6   9.460e-02  5.692e-02   1.662  0.09652 .
## f.22000.0.060   3.474e-02  5.803e-02   0.599  0.54944
## f.22000.0.061   9.075e-02  6.039e-02   1.503  0.13293
## f.22000.0.062   8.323e-02  5.801e-02   1.435  0.15134
## f.22000.0.063   4.056e-02  5.780e-02   0.702  0.48289
## f.22000.0.064   3.482e-02  5.789e-02   0.601  0.54757
## f.22000.0.065   3.873e-02  5.842e-02   0.663  0.50734
## f.22000.0.066   3.639e-02  5.888e-02   0.618  0.53660
## f.22000.0.067  -2.512e-02  5.738e-02  -0.438  0.66157
## f.22000.0.068  -3.263e-02  5.924e-02  -0.551  0.58176
## f.22000.0.069   4.920e-02  5.800e-02   0.848  0.39628
## f.22000.0.07    4.434e-02  5.683e-02   0.780  0.43519
## f.22000.0.0-7   5.799e-02  5.775e-02   1.004  0.31532
## f.22000.0.070   1.627e-03  5.974e-02   0.027  0.97827
## f.22000.0.071   1.977e-02  5.778e-02   0.342  0.73229
## f.22000.0.072   3.224e-02  5.732e-02   0.563  0.57377
## f.22000.0.073   3.996e-04  5.992e-02   0.007  0.99468
## f.22000.0.074   5.617e-02  5.891e-02   0.954  0.34029
## f.22000.0.075   6.293e-02  5.794e-02   1.086  0.27747
## f.22000.0.076   1.049e-01  5.873e-02   1.786  0.07415 .
## f.22000.0.077   7.566e-02  5.786e-02   1.308  0.19096
## f.22000.0.078  -1.451e-02  5.809e-02  -0.250  0.80282
## f.22000.0.079   7.821e-03  5.812e-02   0.135  0.89295
## f.22000.0.08    1.094e-02  5.700e-02   0.192  0.84774
## f.22000.0.0-8   8.866e-02  5.772e-02   1.536  0.12456
## f.22000.0.080   9.825e-02  5.867e-02   1.675  0.09399 .
## f.22000.0.081   8.342e-02  5.985e-02   1.394  0.16336
## f.22000.0.082  -1.917e-02  5.954e-02  -0.322  0.74751
## f.22000.0.083   3.568e-02  6.024e-02   0.592  0.55369
## f.22000.0.084   8.024e-02  5.821e-02   1.378  0.16807
## f.22000.0.085   2.494e-02  5.885e-02   0.424  0.67168
## f.22000.0.086   3.094e-02  5.924e-02   0.522  0.60143
## f.22000.0.087   4.463e-02  5.809e-02   0.768  0.44236
## f.22000.0.088   2.041e-02  6.183e-02   0.330  0.74126
```

```
## f.22000.0.089   9.879e-02  5.902e-02   1.674  0.09414 .
## f.22000.0.09    2.941e-02  5.739e-02   0.512  0.60835
## f.22000.0.0-9   1.276e-01  5.771e-02   2.211  0.02701 *
## f.22000.0.090   3.943e-02  5.798e-02   0.680  0.49643
## f.22000.0.091  -2.676e-02  5.815e-02  -0.460  0.64538
## f.22000.0.092   4.610e-02  5.660e-02   0.815  0.41534
## f.22000.0.093   8.239e-02  5.821e-02   1.415  0.15694
## f.22000.0.094   4.008e-02  7.663e-02   0.523  0.60093
## f.22000.0.095   3.902e-02  6.221e-02   0.627  0.53050
## f.22001.0.01   -1.781e-01  8.334e-03 -21.365  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9759 on 56575 degrees of freedom
##   (63163 observations deleted due to missingness)
## Multiple R-squared:  0.05169,    Adjusted R-squared:  0.04954
## F-statistic: 24.09 on 128 and 56575 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.22009.0.5 + 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.22009.0.1
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 = selfharmscore ~ 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.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
## -1.5824 -0.6223 -0.3954  0.4225  4.3064
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.754e+01  1.056e+00 -35.566  < 2e-16 ***
## family          1.555e-01  4.105e-03  37.886  < 2e-16 ***
## pgsfive         3.220e-02  4.107e-03   7.840 4.57e-15 ***
## f.22009.0.1     8.076e-03  4.267e-03   1.893  0.05842 .
## f.22009.0.2    -4.975e-04  4.158e-03  -0.120  0.90477
## f.22009.0.3    -1.302e-03  4.223e-03  -0.308  0.75794
## f.22009.0.5    -2.690e-03  4.588e-03  -0.586  0.55771
## f.22009.0.6     1.416e-03  4.238e-03   0.334  0.73834
## f.22009.0.7    -5.414e-03  4.286e-03  -1.263  0.20661
## f.22009.0.8     5.547e-03  4.554e-03   1.218  0.22321
## f.22009.0.9    -1.281e-02  4.466e-03  -2.867  0.00414 **
## f.22009.0.10   -1.758e-03  4.971e-03  -0.354  0.72369
## f.22009.0.11    2.978e-03  5.856e-03   0.509  0.61103
## f.22009.0.12   -9.298e-04  5.122e-03  -0.182  0.85595
## f.22009.0.13   -4.845e-03  4.169e-03  -1.162  0.24521
## f.22009.0.14   -9.993e-03  4.522e-03  -2.210  0.02712 *
## f.22009.0.15    7.509e-06  4.502e-03   0.002  0.99867
## f.22009.0.16   -5.307e-03  4.451e-03  -1.192  0.23316
## f.22009.0.17   -4.055e-04  4.129e-03  -0.098  0.92175
## f.22009.0.18   -9.332e-04  4.236e-03  -0.220  0.82564
## f.22009.0.19    1.799e-03  4.090e-03   0.440  0.66008
## f.22009.0.20    4.357e-03  4.124e-03   1.056  0.29077
## f.34.0.0        1.924e-02  5.401e-04  35.633  < 2e-16 ***
## f.22000.0.0-1  -9.123e-03  5.814e-02  -0.157  0.87530
## f.22000.0.010   3.568e-02  5.802e-02   0.615  0.53853
## f.22000.0.0-10  4.503e-02  5.776e-02   0.780  0.43561
## f.22000.0.011   2.763e-02  5.644e-02   0.490  0.62444
## f.22000.0.0-11  9.415e-02  5.758e-02   1.635  0.10204
## f.22000.0.012   4.682e-02  5.924e-02   0.790  0.42929
## f.22000.0.013   2.815e-02  5.701e-02   0.494  0.62148
## f.22000.0.014  -1.165e-02  5.585e-02  -0.209  0.83474
## f.22000.0.015   1.005e-01  5.710e-02   1.760  0.07834 .
```

```
## f.22000.0.016   9.367e-02  5.712e-02   1.640  0.10103
## f.22000.0.017   5.809e-02  5.796e-02   1.002  0.31622
## f.22000.0.018   1.827e-02  5.804e-02   0.315  0.75298
## f.22000.0.019   6.834e-02  5.682e-02   1.203  0.22910
## f.22000.0.02    1.078e-02  5.712e-02   0.189  0.85030
## f.22000.0.0-2   1.198e-01  5.819e-02   2.058  0.03957 *
## f.22000.0.020   3.959e-02  5.831e-02   0.679  0.49716
## f.22000.0.021   2.413e-02  5.720e-02   0.422  0.67317
## f.22000.0.022   2.712e-02  5.823e-02   0.466  0.64141
## f.22000.0.023   3.326e-02  5.592e-02   0.595  0.55202
## f.22000.0.024   4.565e-02  5.687e-02   0.803  0.42209
## f.22000.0.025   7.853e-02  5.810e-02   1.351  0.17654
## f.22000.0.026   1.451e-02  5.793e-02   0.251  0.80219
## f.22000.0.027   3.524e-02  5.699e-02   0.618  0.53638
## f.22000.0.028   3.648e-02  5.796e-02   0.629  0.52914
## f.22000.0.029   3.894e-02  5.853e-02   0.665  0.50590
## f.22000.0.03    3.514e-02  5.599e-02   0.628  0.53024
## f.22000.0.0-3   6.443e-02  5.646e-02   1.141  0.25380
## f.22000.0.030   6.371e-03  5.737e-02   0.111  0.91157
## f.22000.0.031  -2.570e-03  5.707e-02  -0.045  0.96408
## f.22000.0.032   5.368e-02  5.605e-02   0.958  0.33823
## f.22000.0.033   3.272e-02  5.834e-02   0.561  0.57489
## f.22000.0.034   7.303e-02  5.671e-02   1.288  0.19781
## f.22000.0.035   7.516e-02  5.715e-02   1.315  0.18849
## f.22000.0.036   1.044e-01  5.620e-02   1.857  0.06330 .
## f.22000.0.037   1.411e-02  5.820e-02   0.242  0.80842
## f.22000.0.038   8.745e-02  5.643e-02   1.550  0.12126
## f.22000.0.039  -1.074e-02  5.828e-02  -0.184  0.85384
## f.22000.0.04    1.420e-02  5.790e-02   0.245  0.80626
## f.22000.0.0-4   9.781e-02  5.810e-02   1.683  0.09229 .
## f.22000.0.040   4.301e-03  5.666e-02   0.076  0.93950
## f.22000.0.041   6.914e-02  5.875e-02   1.177  0.23925
## f.22000.0.042   2.145e-02  5.555e-02   0.386  0.69943
## f.22000.0.043   4.334e-02  5.921e-02   0.732  0.46414
## f.22000.0.044   9.108e-02  5.686e-02   1.602  0.10919
## f.22000.0.045   7.165e-02  5.781e-02   1.239  0.21521
## f.22000.0.046  -3.343e-02  5.868e-02  -0.570  0.56886
## f.22000.0.047  -7.612e-03  5.764e-02  -0.132  0.89493
## f.22000.0.048   5.124e-03  5.784e-02   0.089  0.92941
## f.22000.0.049   4.080e-02  5.787e-02   0.705  0.48075
## f.22000.0.05    6.294e-02  5.543e-02   1.136  0.25615
## f.22000.0.0-5   7.543e-02  5.748e-02   1.312  0.18939
## f.22000.0.050   5.269e-02  5.694e-02   0.925  0.35480
## f.22000.0.051   1.563e-01  5.622e-02   2.780  0.00544 **
## f.22000.0.052  -1.292e-02  5.712e-02  -0.226  0.82109
## f.22000.0.053  -1.270e-02  5.731e-02  -0.222  0.82465
## f.22000.0.054   6.907e-02  5.796e-02   1.192  0.23339
## f.22000.0.055   7.831e-02  5.759e-02   1.360  0.17390
## f.22000.0.056   8.887e-02  5.914e-02   1.503  0.13291
## f.22000.0.057   9.007e-02  5.954e-02   1.513  0.13038
## f.22000.0.058   8.284e-02  5.816e-02   1.424  0.15437
## f.22000.0.059   5.128e-02  5.696e-02   0.900  0.36800
## f.22000.0.06    6.027e-02  5.669e-02   1.063  0.28768
## f.22000.0.0-6   1.100e-01  5.673e-02   1.938  0.05260 .
## f.22000.0.060   3.875e-02  5.787e-02   0.670  0.50314
## f.22000.0.061   8.797e-02  6.019e-02   1.461  0.14390
## f.22000.0.062   9.251e-02  5.790e-02   1.598  0.11013
## f.22000.0.063   3.870e-02  5.769e-02   0.671  0.50235
## f.22000.0.064   4.017e-02  5.767e-02   0.696  0.48614
## f.22000.0.065   2.830e-02  5.828e-02   0.485  0.62733
## f.22000.0.066   3.872e-02  5.863e-02   0.660  0.50901
## f.22000.0.067  -1.624e-02  5.722e-02  -0.284  0.77660
## f.22000.0.068  -2.648e-02  5.914e-02  -0.448  0.65436
## f.22000.0.069   5.471e-02  5.798e-02   0.944  0.34542
## f.22000.0.07    4.149e-02  5.657e-02   0.734  0.46323
## f.22000.0.0-7   5.729e-02  5.767e-02   0.993  0.32052
## f.22000.0.070  -2.855e-03  5.958e-02  -0.048  0.96178
## f.22000.0.071   3.159e-02  5.765e-02   0.548  0.58372
## f.22000.0.072   3.950e-02  5.708e-02   0.692  0.48895
## f.22000.0.073   2.170e-03  5.982e-02   0.036  0.97107
## f.22000.0.074   4.565e-02  5.868e-02   0.778  0.43661
## f.22000.0.075   5.704e-02  5.767e-02   0.989  0.32264
## f.22000.0.076   1.018e-01  5.862e-02   1.737  0.08238 .
```

```
## f.22000.0.077   8.005e-02  5.772e-02   1.387  0.16550
## f.22000.0.078  -2.768e-03  5.790e-02  -0.048  0.96188
## f.22000.0.079   1.177e-02  5.795e-02   0.203  0.83900
## f.22000.0.08    6.151e-03  5.678e-02   0.108  0.91373
## f.22000.0.0-8   8.910e-02  5.753e-02   1.549  0.12148
## f.22000.0.080   9.464e-02  5.860e-02   1.615  0.10630
## f.22000.0.081   8.431e-02  5.961e-02   1.414  0.15730
## f.22000.0.082  -2.277e-02  5.931e-02  -0.384  0.70108
## f.22000.0.083   2.663e-02  6.001e-02   0.444  0.65723
## f.22000.0.084   8.251e-02  5.805e-02   1.421  0.15520
## f.22000.0.085   1.916e-02  5.856e-02   0.327  0.74346
## f.22000.0.086   4.341e-02  5.898e-02   0.736  0.46165
## f.22000.0.087   4.298e-02  5.784e-02   0.743  0.45744
## f.22000.0.088   1.458e-02  6.136e-02   0.238  0.81221
## f.22000.0.089   8.607e-02  5.876e-02   1.465  0.14296
## f.22000.0.09    2.779e-02  5.726e-02   0.485  0.62738
## f.22000.0.0-9   1.196e-01  5.755e-02   2.078  0.03774 *
## f.22000.0.090   3.183e-02  5.782e-02   0.551  0.58196
## f.22000.0.091  -2.959e-02  5.802e-02  -0.510  0.60997
## f.22000.0.092   4.491e-02  5.637e-02   0.797  0.42564
## f.22000.0.093   8.722e-02  5.811e-02   1.501  0.13335
## f.22000.0.094   3.373e-02  7.644e-02   0.441  0.65900
## f.22000.0.095   4.476e-02  6.204e-02   0.721  0.47069
## f.22001.0.01   -1.515e-01  8.273e-03 -18.309  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.974 on 56645 degrees of freedom
##   (63093 observations deleted due to missingness)
## Multiple R-squared:  0.05913,    Adjusted R-squared:  0.057
## F-statistic: 27.81 on 128 and 56645 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.22009.0.5 +
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.22009.0.5 + 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
## -1.5232 -0.6612 -0.4422  0.4404  4.2891
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.141e+01  1.530e+00 -20.533  < 2e-16 ***
## f.4537.0.0      1.190e-01  5.824e-03  20.428  < 2e-16 ***
## pgsfive         3.702e-02  5.786e-03   6.398 1.59e-10 ***
## f.22009.0.1     9.865e-03  5.967e-03   1.653  0.09830 .
## f.22009.0.2    -1.156e-03  5.841e-03  -0.198  0.84310
## f.22009.0.3     1.425e-03  5.896e-03   0.242  0.80903
## f.22009.0.5    -7.972e-04  6.542e-03  -0.122  0.90301
## f.22009.0.6    -4.083e-03  5.919e-03  -0.690  0.49033
## f.22009.0.7    -9.462e-03  5.996e-03  -1.578  0.11458
## f.22009.0.8     9.683e-03  6.382e-03   1.517  0.12923
## f.22009.0.9    -1.057e-02  6.512e-03  -1.623  0.10466
## f.22009.0.10    3.606e-03  6.958e-03   0.518  0.60428
## f.22009.0.11    1.029e-03  8.328e-03   0.124  0.90169
## f.22009.0.12    1.368e-03  7.219e-03   0.189  0.84974
## f.22009.0.13   -6.586e-03  5.841e-03  -1.127  0.25956
## f.22009.0.14   -1.737e-02  6.518e-03  -2.665  0.00771 **
## f.22009.0.15    1.648e-03  6.307e-03   0.261  0.79386
## f.22009.0.16   -1.216e-02  6.364e-03  -1.911  0.05606 .
```

```
## f.22009.0.17    4.586e-03  5.762e-03   0.796  0.42605
## f.22009.0.18   -3.324e-03  6.058e-03  -0.549  0.58329
## f.22009.0.19   -2.016e-03  5.757e-03  -0.350  0.72618
## f.22009.0.20    1.429e-03  5.830e-03   0.245  0.80642
## f.34.0.0        1.610e-02  7.818e-04  20.598  < 2e-16 ***
## f.22000.0.0-1   1.452e-02  8.203e-02   0.177  0.85950
## f.22000.0.010   6.672e-02  8.026e-02   0.831  0.40579
## f.22000.0.0-10  7.569e-02  8.153e-02   0.928  0.35321
## f.22000.0.011   4.946e-02  7.892e-02   0.627  0.53086
## f.22000.0.0-11  1.514e-01  7.851e-02   1.928  0.05390 .
## f.22000.0.012   3.418e-02  8.349e-02   0.409  0.68224
## f.22000.0.013   4.461e-02  8.010e-02   0.557  0.57761
## f.22000.0.014   1.639e-03  7.717e-02   0.021  0.98306
## f.22000.0.015   1.395e-01  7.904e-02   1.764  0.07767 .
## f.22000.0.016   1.451e-01  8.018e-02   1.810  0.07028 .
## f.22000.0.017   9.059e-02  8.195e-02   1.106  0.26895
## f.22000.0.018   2.504e-02  8.229e-02   0.304  0.76091
## f.22000.0.019   5.109e-02  7.906e-02   0.646  0.51809
## f.22000.0.02    5.346e-02  7.825e-02   0.683  0.49453
## f.22000.0.0-2   2.969e-02  8.159e-02   0.364  0.71597
## f.22000.0.020   3.410e-02  8.152e-02   0.418  0.67578
## f.22000.0.021   8.024e-02  8.128e-02   0.987  0.32353
## f.22000.0.022  -2.906e-03  8.180e-02  -0.036  0.97166
## f.22000.0.023   7.173e-02  7.727e-02   0.928  0.35328
## f.22000.0.024   1.015e-01  7.838e-02   1.295  0.19522
## f.22000.0.025  -2.437e-02  8.089e-02  -0.301  0.76316
## f.22000.0.026  -1.583e-02  8.011e-02  -0.198  0.84341
## f.22000.0.027   2.792e-02  7.918e-02   0.353  0.72441
## f.22000.0.028   2.181e-02  8.195e-02   0.266  0.79013
## f.22000.0.029   9.149e-02  8.229e-02   1.112  0.26622
## f.22000.0.03    1.252e-02  7.751e-02   0.162  0.87168
## f.22000.0.0-3   3.053e-02  7.871e-02   0.388  0.69807
## f.22000.0.030   2.984e-02  8.204e-02   0.364  0.71606
## f.22000.0.031   1.782e-02  7.974e-02   0.223  0.82315
## f.22000.0.032  -7.405e-03  7.818e-02  -0.095  0.92455
## f.22000.0.033   4.910e-02  8.213e-02   0.598  0.54992
## f.22000.0.034   2.214e-02  7.904e-02   0.280  0.77940
## f.22000.0.035   8.416e-02  7.938e-02   1.060  0.28907
## f.22000.0.036   1.485e-01  7.660e-02   1.938  0.05263 .
## f.22000.0.037  -2.458e-02  8.080e-02  -0.304  0.76101
## f.22000.0.038   7.889e-02  7.769e-02   1.015  0.30992
## f.22000.0.039   2.025e-02  8.152e-02   0.248  0.80379
## f.22000.0.04    1.205e-02  8.136e-02   0.148  0.88228
## f.22000.0.0-4   1.384e-01  8.169e-02   1.694  0.09024 .
## f.22000.0.040   1.522e-02  7.782e-02   0.196  0.84496
## f.22000.0.041   4.625e-02  7.946e-02   0.582  0.56054
## f.22000.0.042   7.178e-02  7.727e-02   0.929  0.35289
## f.22000.0.043   8.797e-02  8.194e-02   1.074  0.28302
## f.22000.0.044   1.163e-01  7.897e-02   1.472  0.14093
## f.22000.0.045   8.080e-02  7.975e-02   1.013  0.31098
## f.22000.0.046  -8.381e-02  8.111e-02  -1.033  0.30149
## f.22000.0.047   3.228e-02  7.939e-02   0.407  0.68428
## f.22000.0.048   1.670e-02  8.178e-02   0.204  0.83819
## f.22000.0.049  -5.949e-03  8.026e-02  -0.074  0.94091
## f.22000.0.05    8.354e-02  7.540e-02   1.108  0.26786
## f.22000.0.0-5   5.445e-02  7.939e-02   0.686  0.49280
## f.22000.0.050   4.480e-02  7.844e-02   0.571  0.56788
## f.22000.0.051   1.359e-01  7.689e-02   1.767  0.07719 .
## f.22000.0.052   2.044e-02  7.870e-02   0.260  0.79505
## f.22000.0.053  -1.718e-02  8.128e-02  -0.211  0.83260
## f.22000.0.054   3.316e-02  7.981e-02   0.415  0.67781
## f.22000.0.055   8.460e-02  7.864e-02   1.076  0.28203
## f.22000.0.056   1.532e-01  8.460e-02   1.811  0.07019 .
## f.22000.0.057   1.374e-01  8.256e-02   1.664  0.09611 .
## f.22000.0.058   6.804e-02  8.064e-02   0.844  0.39880
## f.22000.0.059   5.503e-02  7.704e-02   0.714  0.47505
## f.22000.0.06    6.792e-02  7.794e-02   0.871  0.38357
## f.22000.0.0-6   9.490e-02  7.825e-02   1.213  0.22522
## f.22000.0.060   3.497e-02  7.924e-02   0.441  0.65899
## f.22000.0.061   1.029e-01  8.349e-02   1.232  0.21792
## f.22000.0.062  -4.850e-02  8.096e-02  -0.599  0.54912
## f.22000.0.063   4.905e-02  7.967e-02   0.616  0.53808
## f.22000.0.064   4.405e-02  8.072e-02   0.546  0.58528
```

```
## f.22000.0.065   6.510e-02  8.161e-02   0.798  0.42510
## f.22000.0.066   3.831e-02  8.034e-02   0.477  0.63349
## f.22000.0.067  -3.616e-02  7.967e-02  -0.454  0.64988
## f.22000.0.068  -4.812e-02  8.248e-02  -0.583  0.55965
## f.22000.0.069  -5.594e-03  8.073e-02  -0.069  0.94476
## f.22000.0.07    1.123e-01  7.833e-02   1.433  0.15174
## f.22000.0.0-7   8.152e-02  7.996e-02   1.019  0.30801
## f.22000.0.070   6.564e-02  8.339e-02   0.787  0.43121
## f.22000.0.071   2.811e-03  7.932e-02   0.035  0.97173
## f.22000.0.072   1.303e-01  7.898e-02   1.650  0.09891 .
## f.22000.0.073   2.939e-02  8.418e-02   0.349  0.72701
## f.22000.0.074   7.675e-02  8.048e-02   0.954  0.34024
## f.22000.0.075   1.356e-01  7.890e-02   1.719  0.08567 .
## f.22000.0.076   2.104e-01  8.170e-02   2.576  0.01000 *
## f.22000.0.077   2.870e-03  7.995e-02   0.036  0.97136
## f.22000.0.078   1.980e-02  7.918e-02   0.250  0.80252
## f.22000.0.079   4.330e-03  8.065e-02   0.054  0.95718
## f.22000.0.08   -6.931e-03  7.864e-02  -0.088  0.92977
## f.22000.0.0-8   9.731e-02  8.104e-02   1.201  0.22986
## f.22000.0.080   1.328e-01  8.196e-02   1.620  0.10531
## f.22000.0.081   1.288e-01  8.479e-02   1.520  0.12863
## f.22000.0.082   2.254e-02  8.399e-02   0.268  0.78839
## f.22000.0.083   1.601e-02  8.359e-02   0.191  0.84816
## f.22000.0.084  -8.960e-03  8.027e-02  -0.112  0.91111
## f.22000.0.085   3.509e-02  8.211e-02   0.427  0.66912
## f.22000.0.086   1.070e-02  8.311e-02   0.129  0.89757
## f.22000.0.087   3.373e-02  7.982e-02   0.423  0.67256
## f.22000.0.088   1.094e-01  8.707e-02   1.257  0.20879
## f.22000.0.089   9.718e-02  8.321e-02   1.168  0.24287
## f.22000.0.09    2.224e-02  8.041e-02   0.277  0.78214
## f.22000.0.0-9   1.390e-01  8.033e-02   1.731  0.08351 .
## f.22000.0.090   4.499e-02  7.961e-02   0.565  0.57203
## f.22000.0.091  -6.374e-02  7.897e-02  -0.807  0.41958
## f.22000.0.092   1.047e-01  7.617e-02   1.374  0.16935
## f.22000.0.093   1.712e-01  7.982e-02   2.145  0.03196 *
## f.22000.0.094   5.284e-02  1.054e-01   0.501  0.61613
## f.22000.0.095   8.620e-02  8.377e-02   1.029  0.30349
## f.22001.0.01   -1.727e-01  1.160e-02 -14.882  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.001 on 30404 degrees of freedom
##   (89334 observations deleted due to missingness)
## Multiple R-squared:  0.04574,    Adjusted R-squared:  0.04172
## F-statistic: 11.38 on 128 and 30404 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.22009.0.5 + 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.22009.0.1
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 = selfharmscore ~ 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.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
## -1.1914 -0.6219 -0.4303  0.4472  4.2271
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.872e+01  7.468e-01 -51.854  < 2e-16 ***
## socfreq         4.740e-02  2.921e-03  16.228  < 2e-16 ***
## pgsfive         3.388e-02  2.866e-03  11.819  < 2e-16 ***
## f.22009.0.1     1.066e-02  2.989e-03   3.567 0.000361 ***
```

```
## f.22009.0.2    -3.529e-03  2.916e-03  -1.210 0.226224
## f.22009.0.3    -7.540e-04  2.950e-03  -0.256 0.798277
## f.22009.0.5    -1.958e-03  3.130e-03  -0.626 0.531591
## f.22009.0.6    -1.768e-04  2.959e-03  -0.060 0.952366
## f.22009.0.7    -7.972e-03  3.007e-03  -2.651 0.008031 **
## f.22009.0.8     6.848e-03  3.197e-03   2.142 0.032213 *
## f.22009.0.9    -8.791e-03  3.035e-03  -2.897 0.003771 **
## f.22009.0.10    1.975e-03  3.483e-03   0.567 0.570709
## f.22009.0.11   -1.049e-04  4.057e-03  -0.026 0.979379
## f.22009.0.12    1.456e-03  3.574e-03   0.407 0.683671
## f.22009.0.13   -2.810e-03  2.908e-03  -0.966 0.333969
## f.22009.0.14   -1.631e-02  3.073e-03  -5.309  1.1e-07 ***
## f.22009.0.15   -1.111e-03  3.149e-03  -0.353 0.724229
## f.22009.0.16   -9.768e-03  3.089e-03  -3.162 0.001565 **
## f.22009.0.17   -1.304e-04  2.869e-03  -0.045 0.963758
## f.22009.0.18    6.540e-04  2.877e-03   0.227 0.820174
## f.22009.0.19    1.959e-03  2.864e-03   0.684 0.493924
## f.22009.0.20    4.093e-03  2.870e-03   1.426 0.153897
## f.34.0.0        1.987e-02  3.821e-04  52.004  < 2e-16 ***
## f.22000.0.0-1   3.852e-02  4.045e-02   0.952 0.340946
## f.22000.0.010  -3.836e-02  4.085e-02  -0.939 0.347656
## f.22000.0.0-10  7.651e-02  4.111e-02   1.861 0.062718 .
## f.22000.0.011   5.805e-02  4.024e-02   1.443 0.149127
## f.22000.0.0-11  2.749e-02  4.072e-02   0.675 0.499604
## f.22000.0.012  -1.034e-02  4.050e-02  -0.255 0.798426
## f.22000.0.013  -1.655e-02  4.029e-02  -0.411 0.681298
## f.22000.0.014   1.361e-02  4.009e-02   0.340 0.734173
## f.22000.0.015   3.109e-02  4.038e-02   0.770 0.441349
## f.22000.0.016   4.623e-02  4.054e-02   1.140 0.254237
## f.22000.0.017   1.785e-02  4.019e-02   0.444 0.656830
## f.22000.0.018  -3.349e-02  4.061e-02  -0.825 0.409472
## f.22000.0.019  -7.398e-04  3.978e-02  -0.019 0.985162
## f.22000.0.02   -1.625e-02  3.993e-02  -0.407 0.684032
## f.22000.0.0-2   7.945e-02  4.066e-02   1.954 0.050668 .
## f.22000.0.020  -1.420e-02  4.049e-02  -0.351 0.725795
## f.22000.0.021   3.080e-02  4.032e-02   0.764 0.444848
## f.22000.0.022   1.512e-03  4.038e-02   0.037 0.970134
## f.22000.0.023  -9.544e-04  4.037e-02  -0.024 0.981140
## f.22000.0.024   1.060e-02  3.984e-02   0.266 0.790247
## f.22000.0.025   2.901e-02  4.085e-02   0.710 0.477655
## f.22000.0.026  -5.296e-02  4.061e-02  -1.304 0.192249
## f.22000.0.027  -2.318e-02  4.002e-02  -0.579 0.562494
## f.22000.0.028   4.550e-03  4.042e-02   0.113 0.910374
## f.22000.0.029  -2.938e-03  4.007e-02  -0.073 0.941538
## f.22000.0.03    4.809e-03  4.005e-02   0.120 0.904414
## f.22000.0.0-3   3.416e-03  4.022e-02   0.085 0.932318
## f.22000.0.030  -3.733e-02  4.009e-02  -0.931 0.351780
## f.22000.0.031  -2.364e-02  4.026e-02  -0.587 0.557121
## f.22000.0.032  -1.912e-02  4.035e-02  -0.474 0.635533
## f.22000.0.033  -1.576e-03  4.113e-02  -0.038 0.969434
## f.22000.0.034   3.519e-02  4.016e-02   0.876 0.380844
## f.22000.0.035   5.067e-02  4.026e-02   1.258 0.208230
## f.22000.0.036   7.039e-03  3.997e-02   0.176 0.860217
## f.22000.0.037  -2.125e-02  4.056e-02  -0.524 0.600382
## f.22000.0.038   4.010e-02  4.042e-02   0.992 0.321139
## f.22000.0.039   1.206e-02  4.086e-02   0.295 0.767856
## f.22000.0.04   -8.435e-03  4.077e-02  -0.207 0.836105
## f.22000.0.0-4   5.808e-02  4.094e-02   1.419 0.156007
## f.22000.0.040   4.565e-03  4.041e-02   0.113 0.910047
## f.22000.0.041   4.336e-03  4.096e-02   0.106 0.915684
## f.22000.0.042  -3.331e-02  4.022e-02  -0.828 0.407523
## f.22000.0.043  -3.480e-02  4.098e-02  -0.849 0.395748
## f.22000.0.044   5.806e-02  4.062e-02   1.429 0.152897
## f.22000.0.045  -5.638e-03  4.054e-02  -0.139 0.889380
## f.22000.0.046  -4.182e-02  4.074e-02  -1.026 0.304665
## f.22000.0.047  -2.174e-02  4.083e-02  -0.532 0.594410
## f.22000.0.048  -1.383e-02  4.080e-02  -0.339 0.734720
## f.22000.0.049   4.735e-02  4.072e-02   1.163 0.244841
## f.22000.0.05   -6.575e-03  4.007e-02  -0.164 0.869669
## f.22000.0.0-5   7.668e-02  4.049e-02   1.894 0.058259 .
## f.22000.0.050  -3.793e-03  4.072e-02  -0.093 0.925794
## f.22000.0.051   7.236e-02  4.019e-02   1.800 0.071790 .
## f.22000.0.052   4.114e-03  4.100e-02   0.100 0.920071
```

```
## f.22000.0.053  -1.432e-02  4.065e-02  -0.352 0.724600
## f.22000.0.054   6.124e-02  4.071e-02   1.504 0.132487
## f.22000.0.055   5.706e-02  4.114e-02   1.387 0.165411
## f.22000.0.056   3.384e-02  4.077e-02   0.830 0.406547
## f.22000.0.057   4.402e-02  4.091e-02   1.076 0.281862
## f.22000.0.058   5.310e-03  4.079e-02   0.130 0.896423
## f.22000.0.059   1.160e-02  4.059e-02   0.286 0.775016
## f.22000.0.06    8.341e-03  3.991e-02   0.209 0.834424
## f.22000.0.0-6   4.255e-02  4.087e-02   1.041 0.297791
## f.22000.0.060  -2.932e-02  4.102e-02  -0.715 0.474663
## f.22000.0.061   1.780e-02  4.119e-02   0.432 0.665574
## f.22000.0.062   2.883e-02  4.106e-02   0.702 0.482554
## f.22000.0.063   2.349e-03  4.106e-02   0.057 0.954376
## f.22000.0.064  -1.454e-02  4.075e-02  -0.357 0.721231
## f.22000.0.065  -2.164e-02  4.099e-02  -0.528 0.597457
## f.22000.0.066  -1.061e-02  4.132e-02  -0.257 0.797334
## f.22000.0.067  -2.526e-02  4.095e-02  -0.617 0.537325
## f.22000.0.068   2.512e-03  4.085e-02   0.062 0.950955
## f.22000.0.069  -1.659e-04  4.102e-02  -0.004 0.996772
## f.22000.0.07   -3.632e-02  4.023e-02  -0.903 0.366630
## f.22000.0.0-7   4.969e-02  4.052e-02   1.226 0.220119
## f.22000.0.070  -2.310e-02  4.108e-02  -0.562 0.573803
## f.22000.0.071  -1.374e-02  4.083e-02  -0.337 0.736409
## f.22000.0.072  -2.326e-03  4.112e-02  -0.057 0.954897
## f.22000.0.073  -2.503e-03  4.114e-02  -0.061 0.951480
## f.22000.0.074   3.589e-02  4.124e-02   0.870 0.384093
## f.22000.0.075   5.968e-02  4.082e-02   1.462 0.143751
## f.22000.0.076   3.654e-02  4.123e-02   0.886 0.375496
## f.22000.0.077   9.003e-03  4.101e-02   0.220 0.826220
## f.22000.0.078  -4.931e-02  4.090e-02  -1.206 0.227964
## f.22000.0.079  -1.750e-02  4.070e-02  -0.430 0.667256
## f.22000.0.08   -1.186e-02  4.012e-02  -0.296 0.767523
## f.22000.0.0-8   2.169e-02  4.084e-02   0.531 0.595385
## f.22000.0.080   3.348e-02  4.117e-02   0.813 0.416132
## f.22000.0.081  -2.145e-03  4.168e-02  -0.051 0.958957
## f.22000.0.082  -4.207e-02  4.114e-02  -1.023 0.306494
## f.22000.0.083  -1.705e-04  4.118e-02  -0.004 0.996697
## f.22000.0.084   1.844e-02  4.122e-02   0.447 0.654591
## f.22000.0.085   3.251e-02  4.106e-02   0.792 0.428385
## f.22000.0.086  -2.219e-02  4.114e-02  -0.539 0.589550
## f.22000.0.087   4.023e-02  4.109e-02   0.979 0.327502
## f.22000.0.088   3.413e-03  4.195e-02   0.081 0.935166
## f.22000.0.089   2.319e-03  4.155e-02   0.056 0.955489
## f.22000.0.09   -9.971e-03  3.991e-02  -0.250 0.802732
## f.22000.0.0-9   6.771e-02  4.085e-02   1.658 0.097409 .
## f.22000.0.090  -3.153e-03  4.122e-02  -0.076 0.939028
## f.22000.0.091  -3.515e-02  4.256e-02  -0.826 0.408883
## f.22000.0.092   1.921e-02  4.120e-02   0.466 0.641105
## f.22000.0.093   9.649e-03  4.116e-02   0.234 0.814652
## f.22000.0.094   5.909e-04  5.262e-02   0.011 0.991039
## f.22000.0.095  -1.791e-02  4.388e-02  -0.408 0.683153
## f.22001.0.01   -1.629e-01  5.846e-03 -27.862  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9816 on 117487 degrees of freedom
##   (2251 observations deleted due to missingness)
## Multiple R-squared:  0.03722,    Adjusted R-squared:  0.03617
## F-statistic: 35.48 on 128 and 117487 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.22009.0.5 +
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.22009.0.5 + 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
## -1.3321 -0.6236 -0.4119  0.4390  4.2772
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.071e+01  7.468e-01 -54.519  < 2e-16 ***
## f.20522.0.0    -1.077e-01  2.891e-03 -37.255  < 2e-16 ***
## pgsfive         3.382e-02  2.885e-03  11.724  < 2e-16 ***
## f.22009.0.1     9.596e-03  3.007e-03   3.191 0.001420 **
## f.22009.0.2    -2.773e-03  2.936e-03  -0.945 0.344847
## f.22009.0.3     9.254e-05  2.969e-03   0.031 0.975136
## f.22009.0.5    -3.471e-03  3.151e-03  -1.102 0.270626
## f.22009.0.6     6.459e-04  2.979e-03   0.217 0.828364
## f.22009.0.7    -7.579e-03  3.028e-03  -2.503 0.012319 *
## f.22009.0.8     7.236e-03  3.216e-03   2.250 0.024460 *
## f.22009.0.9    -1.091e-02  3.056e-03  -3.568 0.000359 ***
## f.22009.0.10    1.692e-03  3.505e-03   0.483 0.629348
## f.22009.0.11   -3.309e-03  4.083e-03  -0.810 0.417714
## f.22009.0.12    2.450e-03  3.599e-03   0.681 0.496122
## f.22009.0.13   -2.491e-03  2.928e-03  -0.851 0.394933
## f.22009.0.14   -1.519e-02  3.094e-03  -4.911 9.09e-07 ***
## f.22009.0.15   -2.185e-03  3.169e-03  -0.690 0.490455
## f.22009.0.16   -8.984e-03  3.108e-03  -2.890 0.003851 **
## f.22009.0.17    5.670e-04  2.887e-03   0.196 0.844312
## f.22009.0.18   -8.454e-04  2.896e-03  -0.292 0.770384
## f.22009.0.19    3.185e-03  2.883e-03   1.105 0.269254
## f.22009.0.20    1.614e-03  2.889e-03   0.559 0.576393
## f.34.0.0        2.089e-02  3.821e-04  54.663  < 2e-16 ***
## f.22000.0.0-1   2.967e-02  4.065e-02   0.730 0.465482
## f.22000.0.010  -3.118e-02  4.113e-02  -0.758 0.448423
## f.22000.0.0-10  8.019e-02  4.128e-02   1.943 0.052061 .
## f.22000.0.011   6.264e-02  4.030e-02   1.554 0.120121
## f.22000.0.0-11  2.569e-02  4.088e-02   0.628 0.529822
## f.22000.0.012   3.891e-03  4.067e-02   0.096 0.923777
## f.22000.0.013  -1.920e-02  4.046e-02  -0.475 0.635049
## f.22000.0.014   1.286e-02  4.024e-02   0.319 0.749351
## f.22000.0.015   2.505e-02  4.065e-02   0.616 0.537825
## f.22000.0.016   4.695e-02  4.064e-02   1.155 0.248008
## f.22000.0.017   2.153e-02  4.034e-02   0.534 0.593613
## f.22000.0.018  -2.782e-02  4.068e-02  -0.684 0.493956
## f.22000.0.019   1.026e-02  3.991e-02   0.257 0.797067
## f.22000.0.02   -1.778e-02  4.013e-02  -0.443 0.657622
## f.22000.0.0-2   7.623e-02  4.081e-02   1.868 0.061782 .
## f.22000.0.020   1.973e-03  4.074e-02   0.048 0.961375
## f.22000.0.021   2.931e-02  4.045e-02   0.725 0.468701
## f.22000.0.022   4.711e-03  4.051e-02   0.116 0.907426
## f.22000.0.023  -1.122e-03  4.046e-02  -0.028 0.977877
## f.22000.0.024   1.520e-02  3.998e-02   0.380 0.703881
## f.22000.0.025   2.254e-02  4.101e-02   0.550 0.582544
## f.22000.0.026  -4.979e-02  4.083e-02  -1.219 0.222755
## f.22000.0.027  -1.156e-02  4.023e-02  -0.287 0.773811
## f.22000.0.028  -7.734e-04  4.057e-02  -0.019 0.984790
## f.22000.0.029   3.617e-03  4.032e-02   0.090 0.928518
## f.22000.0.03   -3.158e-03  4.011e-02  -0.079 0.937235
## f.22000.0.0-3  -3.828e-03  4.030e-02  -0.095 0.924329
## f.22000.0.030  -4.344e-02  4.022e-02  -1.080 0.280125
## f.22000.0.031  -2.343e-02  4.047e-02  -0.579 0.562558
## f.22000.0.032  -2.310e-02  4.049e-02  -0.571 0.568320
## f.22000.0.033   5.411e-03  4.135e-02   0.131 0.895885
## f.22000.0.034   3.181e-02  4.022e-02   0.791 0.428950
## f.22000.0.035   4.291e-02  4.048e-02   1.060 0.289204
## f.22000.0.036  -5.062e-04  4.011e-02  -0.013 0.989930
## f.22000.0.037  -1.858e-02  4.078e-02  -0.456 0.648639
## f.22000.0.038   4.004e-02  4.055e-02   0.988 0.323374
## f.22000.0.039   1.430e-02  4.092e-02   0.350 0.726705
## f.22000.0.04   -9.810e-03  4.080e-02  -0.240 0.809978
## f.22000.0.0-4   5.446e-02  4.103e-02   1.327 0.184418
## f.22000.0.040   7.717e-03  4.057e-02   0.190 0.849127
```

```
## f.22000.0.041   6.915e-03  4.109e-02   0.168 0.866366
## f.22000.0.042  -2.333e-02  4.040e-02  -0.577 0.563714
## f.22000.0.043  -3.312e-02  4.118e-02  -0.804 0.421229
## f.22000.0.044   6.195e-02  4.075e-02   1.520 0.128419
## f.22000.0.045   4.625e-03  4.081e-02   0.113 0.909789
## f.22000.0.046  -3.462e-02  4.088e-02  -0.847 0.397088
## f.22000.0.047  -1.654e-02  4.090e-02  -0.404 0.686012
## f.22000.0.048  -7.021e-03  4.091e-02  -0.172 0.863758
## f.22000.0.049   5.195e-02  4.088e-02   1.271 0.203834
## f.22000.0.05   -8.628e-03  4.028e-02  -0.214 0.830416
## f.22000.0.0-5   7.697e-02  4.065e-02   1.893 0.058319 .
## f.22000.0.050   5.777e-03  4.087e-02   0.141 0.887597
## f.22000.0.051   7.640e-02  4.044e-02   1.889 0.058858 .
## f.22000.0.052   6.279e-03  4.106e-02   0.153 0.878465
## f.22000.0.053  -1.715e-02  4.079e-02  -0.420 0.674138
## f.22000.0.054   5.367e-02  4.084e-02   1.314 0.188882
## f.22000.0.055   5.819e-02  4.124e-02   1.411 0.158178
## f.22000.0.056   3.349e-02  4.090e-02   0.819 0.412972
## f.22000.0.057   4.814e-02  4.108e-02   1.172 0.241339
## f.22000.0.058   1.502e-02  4.089e-02   0.367 0.713389
## f.22000.0.059   1.344e-02  4.081e-02   0.329 0.741937
## f.22000.0.06    7.051e-03  3.999e-02   0.176 0.860035
## f.22000.0.0-6   3.356e-02  4.093e-02   0.820 0.412281
## f.22000.0.060  -2.853e-02  4.112e-02  -0.694 0.487824
## f.22000.0.061   2.037e-02  4.133e-02   0.493 0.622113
## f.22000.0.062   2.719e-02  4.126e-02   0.659 0.509906
## f.22000.0.063  -7.504e-03  4.121e-02  -0.182 0.855533
## f.22000.0.064  -1.619e-02  4.094e-02  -0.395 0.692484
## f.22000.0.065  -9.208e-03  4.121e-02  -0.223 0.823171
## f.22000.0.066  -5.041e-03  4.152e-02  -0.121 0.903364
## f.22000.0.067  -1.926e-02  4.109e-02  -0.469 0.639335
## f.22000.0.068   5.455e-03  4.101e-02   0.133 0.894176
## f.22000.0.069   5.008e-03  4.121e-02   0.122 0.903283
## f.22000.0.07   -3.234e-02  4.036e-02  -0.801 0.422930
## f.22000.0.0-7   5.005e-02  4.062e-02   1.232 0.217825
## f.22000.0.070  -1.999e-02  4.128e-02  -0.484 0.628246
## f.22000.0.071  -8.837e-03  4.090e-02  -0.216 0.828944
## f.22000.0.072   5.867e-04  4.122e-02   0.014 0.988642
## f.22000.0.073  -2.276e-04  4.126e-02  -0.006 0.995599
## f.22000.0.074   3.169e-02  4.144e-02   0.765 0.444372
## f.22000.0.075   6.116e-02  4.088e-02   1.496 0.134680
## f.22000.0.076   3.078e-02  4.139e-02   0.743 0.457190
## f.22000.0.077   1.951e-03  4.118e-02   0.047 0.962209
## f.22000.0.078  -4.078e-02  4.103e-02  -0.994 0.320312
## f.22000.0.079  -8.056e-03  4.092e-02  -0.197 0.843941
## f.22000.0.08   -1.403e-02  4.031e-02  -0.348 0.727884
## f.22000.0.0-8   1.393e-02  4.117e-02   0.338 0.735129
## f.22000.0.080   4.160e-02  4.136e-02   1.006 0.314503
## f.22000.0.081   8.800e-03  4.184e-02   0.210 0.833436
## f.22000.0.082  -3.461e-02  4.138e-02  -0.836 0.402906
## f.22000.0.083  -8.508e-03  4.143e-02  -0.205 0.837283
## f.22000.0.084   3.055e-02  4.134e-02   0.739 0.459899
## f.22000.0.085   4.190e-02  4.118e-02   1.018 0.308915
## f.22000.0.086  -3.396e-02  4.132e-02  -0.822 0.411106
## f.22000.0.087   3.876e-02  4.125e-02   0.940 0.347348
## f.22000.0.088  -1.823e-03  4.210e-02  -0.043 0.965453
## f.22000.0.089  -1.631e-03  4.182e-02  -0.039 0.968894
## f.22000.0.09   -8.277e-03  4.004e-02  -0.207 0.836235
## f.22000.0.0-9   6.532e-02  4.112e-02   1.588 0.112189
## f.22000.0.090   1.953e-03  4.126e-02   0.047 0.962254
## f.22000.0.091  -3.686e-02  4.271e-02  -0.863 0.388093
## f.22000.0.092   2.418e-02  4.140e-02   0.584 0.559255
## f.22000.0.093   6.553e-03  4.148e-02   0.158 0.874468
## f.22000.0.094   1.002e-02  5.295e-02   0.189 0.849858
## f.22000.0.095  -2.445e-02  4.410e-02  -0.554 0.579364
## f.22001.0.01   -1.492e-01  5.819e-03 -25.643  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9788 on 115273 degrees of freedom
##   (4465 observations deleted due to missingness)
## Multiple R-squared:  0.04638,    Adjusted R-squared:  0.04532
## F-statistic:  43.8 on 128 and 115273 DF,  p-value: < 2.2e-16
```

```
## F-statistic:  45.6 on 120 and 113275 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.22009.0.5 + 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 = merged))
```

```
##
## Call:
## lm(formula = anxietyscore ~ 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.9073 -0.5696  0.2371  0.8024  1.5638
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.862e+01  1.511e+00 -25.555  < 2e-16 ***
## pgsfive         1.214e-02  5.846e-03   2.077  0.03780 *
## f.22009.0.1    -9.784e-03  6.056e-03  -1.616  0.10617
## f.22009.0.2     4.448e-04  5.920e-03   0.075  0.94011
## f.22009.0.3     4.597e-03  5.968e-03   0.770  0.44111
## f.22009.0.5     1.441e-02  6.298e-03   2.289  0.02210 *
## f.22009.0.6    -7.985e-03  6.012e-03  -1.328  0.18413
## f.22009.0.7     1.406e-02  6.025e-03   2.333  0.01966 *
## f.22009.0.8     6.672e-03  6.498e-03   1.027  0.30451
## f.22009.0.9     1.242e-02  6.209e-03   2.000  0.04550 *
## f.22009.0.10   -8.049e-03  7.110e-03  -1.132  0.25763
## f.22009.0.11    2.344e-02  8.289e-03   2.828  0.00468 **
## f.22009.0.12    5.365e-03  7.218e-03   0.743  0.45731
## f.22009.0.13    2.356e-03  5.876e-03   0.401  0.68851
## f.22009.0.14   -8.216e-03  6.288e-03  -1.307  0.19139
## f.22009.0.15   -1.084e-02  6.401e-03  -1.693  0.09051 .
## f.22009.0.16    2.639e-03  6.296e-03   0.419  0.67509
## f.22009.0.17   -9.567e-03  5.827e-03  -1.642  0.10064
## f.22009.0.18    1.559e-02  5.879e-03   2.653  0.00799 **
## f.22009.0.19   -9.944e-03  5.833e-03  -1.705  0.08821 .
## f.22009.0.20   -4.056e-04  5.827e-03  -0.070  0.94450
## f.34.0.0        1.983e-02  7.727e-04  25.656  < 2e-16 ***
## f.22000.0.0-1   4.481e-02  8.281e-02   0.541  0.58843
## f.22000.0.010   8.329e-02  8.324e-02   1.001  0.31701
## f.22000.0.0-10 -2.219e-02  8.224e-02  -0.270  0.78734
## f.22000.0.011   1.167e-02  7.981e-02   0.146  0.88370
## f.22000.0.0-11  4.183e-02  8.272e-02   0.506  0.61305
## f.22000.0.012   7.527e-02  8.149e-02   0.924  0.35569
## f.22000.0.013  -7.814e-02  8.095e-02  -0.965  0.33444
## f.22000.0.014  -5.239e-02  8.010e-02  -0.654  0.51308
## f.22000.0.015  -5.014e-03  8.111e-02  -0.062  0.95071
## f.22000.0.016  -6.675e-04  8.067e-02  -0.008  0.99340
## f.22000.0.017   4.710e-02  8.306e-02   0.567  0.57070
## f.22000.0.018  -8.179e-02  8.167e-02  -1.001  0.31660
## f.22000.0.019  -8.334e-02  8.113e-02  -1.027  0.30426
## f.22000.0.02    1.366e-02  7.983e-02   0.171  0.86409
## f.22000.0.0-2   7.905e-02  7.950e-02   0.994  0.32008
## f.22000.0.020  -7.312e-02  8.058e-02  -0.908  0.36415
## f.22000.0.021  -1.753e-01  8.135e-02  -2.155  0.03118 *
## f.22000.0.022   3.774e-02  8.081e-02   0.467  0.64050
## f.22000.0.023  -8.924e-03  8.075e-02  -0.111  0.91200
## f.22000.0.024   4.749e-02  8.030e-02   0.591  0.55424
## f.22000.0.025   9.316e-02  8.240e-02   1.131  0.25823
## f.22000.0.026  -3.086e-02  8.213e-02  -0.376  0.70713
## f.22000.0.027  -7.501e-02  8.065e-02  -0.930  0.35238
## f.22000.0.028  -5.104e-02  7.996e-02  -0.638  0.52322
## f.22000.0.029  -7.512e-02  7.910e-02  -0.950  0.34227
```

```
## f.22000.0.03   -1.403e-01  8.181e-02  -1.715  0.08627 .
## f.22000.0.0-3  -6.026e-02  8.205e-02  -0.734  0.46273
## f.22000.0.030   4.773e-03  7.976e-02   0.060  0.95228
## f.22000.0.031   1.768e-02  7.955e-02   0.222  0.82410
## f.22000.0.032   6.429e-03  8.111e-02   0.079  0.93682
## f.22000.0.033  -1.388e-01  8.255e-02  -1.682  0.09261 .
## f.22000.0.034  -2.434e-02  8.089e-02  -0.301  0.76349
## f.22000.0.035  -6.123e-02  8.134e-02  -0.753  0.45155
## f.22000.0.036  -8.847e-02  8.181e-02  -1.081  0.27952
## f.22000.0.037  -1.642e-02  8.361e-02  -0.196  0.84436
## f.22000.0.038  -4.496e-02  8.247e-02  -0.545  0.58565
## f.22000.0.039   6.324e-02  8.142e-02   0.777  0.43735
## f.22000.0.04    2.875e-02  8.298e-02   0.346  0.72901
## f.22000.0.0-4  -2.744e-02  8.298e-02  -0.331  0.74086
## f.22000.0.040   1.624e-02  8.059e-02   0.202  0.84027
## f.22000.0.041   5.925e-02  8.272e-02   0.716  0.47384
## f.22000.0.042  -1.489e-01  8.111e-02  -1.835  0.06650 .
## f.22000.0.043  -8.028e-02  8.380e-02  -0.958  0.33807
## f.22000.0.044   2.706e-02  7.942e-02   0.341  0.73333
## f.22000.0.045  -1.939e-02  8.237e-02  -0.235  0.81386
## f.22000.0.046  -2.178e-02  8.229e-02  -0.265  0.79127
## f.22000.0.047   4.656e-02  8.132e-02   0.573  0.56694
## f.22000.0.048   1.591e-02  8.096e-02   0.196  0.84423
## f.22000.0.049  -7.419e-02  8.164e-02  -0.909  0.36348
## f.22000.0.05   -1.176e-01  8.016e-02  -1.467  0.14238
## f.22000.0.0-5  -2.361e-02  8.189e-02  -0.288  0.77310
## f.22000.0.050  -1.137e-01  8.427e-02  -1.349  0.17737
## f.22000.0.051  -7.189e-02  8.067e-02  -0.891  0.37283
## f.22000.0.052  -6.016e-02  8.181e-02  -0.735  0.46207
## f.22000.0.053  -6.093e-02  8.378e-02  -0.727  0.46703
## f.22000.0.054  -2.876e-02  8.096e-02  -0.355  0.72244
## f.22000.0.055  -9.164e-02  8.088e-02  -1.133  0.25720
## f.22000.0.056  -7.917e-02  8.280e-02  -0.956  0.33900
## f.22000.0.057  -1.200e-01  8.003e-02  -1.499  0.13390
## f.22000.0.058  -1.020e-01  8.280e-02  -1.232  0.21804
## f.22000.0.059  -1.025e-02  8.316e-02  -0.123  0.90187
## f.22000.0.06   -1.074e-01  7.949e-02  -1.351  0.17675
## f.22000.0.0-6  -9.623e-02  8.039e-02  -1.197  0.23132
## f.22000.0.060  -1.921e-02  7.982e-02  -0.241  0.80986
## f.22000.0.061  -1.278e-01  8.265e-02  -1.546  0.12203
## f.22000.0.062  -5.959e-02  8.351e-02  -0.714  0.47553
## f.22000.0.063  -2.683e-02  8.332e-02  -0.322  0.74748
## f.22000.0.064   5.993e-03  8.117e-02   0.074  0.94114
## f.22000.0.065  -7.755e-03  8.265e-02  -0.094  0.92524
## f.22000.0.066  -5.007e-02  8.272e-02  -0.605  0.54503
## f.22000.0.067   9.540e-02  8.206e-02   1.163  0.24501
## f.22000.0.068  -2.674e-02  8.094e-02  -0.330  0.74110
## f.22000.0.069  -2.536e-02  8.090e-02  -0.313  0.75392
## f.22000.0.07   -5.424e-02  7.921e-02  -0.685  0.49351
## f.22000.0.0-7  -8.168e-04  8.204e-02  -0.010  0.99206
## f.22000.0.070  -1.193e-01  8.289e-02  -1.440  0.14998
## f.22000.0.071  -7.704e-03  8.220e-02  -0.094  0.92533
## f.22000.0.072  -7.057e-02  8.229e-02  -0.858  0.39110
## f.22000.0.073   3.537e-02  8.369e-02   0.423  0.67254
## f.22000.0.074  -2.288e-02  8.281e-02  -0.276  0.78231
## f.22000.0.075  -9.185e-02  8.102e-02  -1.134  0.25696
## f.22000.0.076  -1.166e-02  8.343e-02  -0.140  0.88888
## f.22000.0.077   4.043e-02  8.406e-02   0.481  0.63053
## f.22000.0.078  -1.672e-01  8.165e-02  -2.048  0.04058 *
## f.22000.0.079   3.914e-02  8.080e-02   0.484  0.62812
## f.22000.0.08   -1.521e-01  8.181e-02  -1.859  0.06300 .
## f.22000.0.0-8  -8.690e-02  8.181e-02  -1.062  0.28815
## f.22000.0.080  -8.501e-02  8.126e-02  -1.046  0.29552
## f.22000.0.081  -9.673e-02  8.280e-02  -1.168  0.24268
## f.22000.0.082  -1.531e-01  8.426e-02  -1.817  0.06926 .
## f.22000.0.083  -1.354e-02  8.254e-02  -0.164  0.86971
## f.22000.0.084  -6.245e-03  8.080e-02  -0.077  0.93839
## f.22000.0.085  -4.692e-02  8.281e-02  -0.567  0.57101
## f.22000.0.086  -6.288e-03  8.150e-02  -0.077  0.93850
## f.22000.0.087  -1.123e-01  8.270e-02  -1.358  0.17454
## f.22000.0.088   1.107e-02  8.388e-02   0.132  0.89499
## f.22000.0.089  -1.313e-01  8.298e-02  -1.582  0.11362
## f.22000.0.09   -4.322e-02  8.181e-02  -0.528  0.59730
```

```
## f.22000.0.0-9   2.270e-02  8.017e-02   0.283  0.77705
## f.22000.0.090  -4.684e-02  8.230e-02  -0.569  0.56927
## f.22000.0.091  -5.112e-02  8.505e-02  -0.601  0.54779
## f.22000.0.092  -5.395e-02  8.377e-02  -0.644  0.51954
## f.22000.0.093  -1.734e-01  8.465e-02  -2.048  0.04053 *
## f.22000.0.094   6.734e-03  1.088e-01   0.062  0.95066
## f.22000.0.095   1.646e-02  8.929e-02   0.184  0.85375
## f.22001.0.01   -1.935e-01  1.206e-02 -16.037  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9828 on 28617 degrees of freedom
##   (91122 observations deleted due to missingness)
## Multiple R-squared:  0.03842,    Adjusted R-squared:  0.03415
## F-statistic: 9.003 on 127 and 28617 DF,  p-value: < 2.2e-16
```

```
summary(lm(depressionscore ~  pgsfive  + f.22009.0.1 + f.22009.0.2 + f.22009.0.3 + f.22009.0.5 + 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 = depressionscore ~ 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 = merged)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.1701 -0.6081  0.1576  0.7443  1.9786
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.877e+01  1.251e+00 -38.986  < 2e-16 ***
## pgsfive         1.773e-02  4.820e-03   3.679 0.000234 ***
## f.22009.0.1    -5.539e-03  5.009e-03  -1.106 0.268862
## f.22009.0.2     4.363e-03  4.877e-03   0.895 0.371007
## f.22009.0.3    -5.564e-03  4.942e-03  -1.126 0.260228
## f.22009.0.5     2.500e-02  5.189e-03   4.817 1.46e-06 ***
## f.22009.0.6    -4.075e-04  4.973e-03  -0.082 0.934691
## f.22009.0.7    -4.903e-03  5.038e-03  -0.973 0.330511
## f.22009.0.8     5.354e-03  5.377e-03   0.996 0.319416
## f.22009.0.9     7.233e-03  5.123e-03   1.412 0.158008
## f.22009.0.10   -2.343e-03  5.870e-03  -0.399 0.689817
## f.22009.0.11    1.944e-02  6.862e-03   2.833 0.004616 **
## f.22009.0.12   -1.394e-04  5.978e-03  -0.023 0.981391
## f.22009.0.13   -4.859e-04  4.880e-03  -0.100 0.920678
## f.22009.0.14   -1.710e-02  5.177e-03  -3.303 0.000956 ***
## f.22009.0.15   -3.260e-03  5.304e-03  -0.615 0.538811
## f.22009.0.16   -1.141e-02  5.243e-03  -2.177 0.029502 *
## f.22009.0.17   -7.493e-03  4.830e-03  -1.551 0.120863
## f.22009.0.18    2.432e-03  4.865e-03   0.500 0.617175
## f.22009.0.19   -5.733e-03  4.810e-03  -1.192 0.233345
## f.22009.0.20    1.291e-02  4.838e-03   2.669 0.007610 **
## f.34.0.0        2.503e-02  6.399e-04  39.112  < 2e-16 ***
## f.22000.0.0-1   4.302e-02  6.803e-02   0.632 0.527163
## f.22000.0.010   1.812e-02  6.848e-02   0.265 0.791260
## f.22000.0.0-10  5.842e-02  6.879e-02   0.849 0.395751
## f.22000.0.011   9.108e-02  6.815e-02   1.336 0.181418
## f.22000.0.0-11  1.748e-01  6.869e-02   2.544 0.010955 *
## f.22000.0.012   3.414e-02  6.803e-02   0.502 0.615802
## f.22000.0.013   3.451e-02  6.795e-02   0.508 0.611521
## f.22000.0.014   5.444e-02  6.811e-02   0.799 0.424165
## f.22000.0.015   3.349e-02  6.774e-02   0.494 0.620994
## f.22000.0.016   6.222e-02  6.790e-02   0.916 0.359526
## f.22000.0.017   7.456e-02  6.834e-02   1.091 0.275258
## f.22000.0.018   6.469e-02  6.813e-02   0.949 0.342373
## f.22000.0.019   3.309e-02  6.710e-02   0.493 0.621938
```

```
## f.22000.0.02   -3.180e-02  6.676e-02  -0.476 0.633839
## f.22000.0.0-2   1.003e-01  6.838e-02   1.467 0.142463
## f.22000.0.020   7.356e-02  6.935e-02   1.061 0.288872
## f.22000.0.021   2.760e-02  6.897e-02   0.400 0.689049
## f.22000.0.022   6.767e-02  6.897e-02   0.981 0.326559
## f.22000.0.023  -2.276e-02  6.887e-02  -0.330 0.741064
## f.22000.0.024   3.816e-02  6.741e-02   0.566 0.571376
## f.22000.0.025  -2.645e-03  6.804e-02  -0.039 0.968985
## f.22000.0.026  -7.855e-02  6.902e-02  -1.138 0.255094
## f.22000.0.027  -4.033e-02  6.761e-02  -0.597 0.550826
## f.22000.0.028   4.201e-02  6.709e-02   0.626 0.531201
## f.22000.0.029   4.996e-02  6.765e-02   0.738 0.460245
## f.22000.0.03    8.210e-02  6.741e-02   1.218 0.223306
## f.22000.0.0-3   7.303e-02  6.829e-02   1.069 0.284877
## f.22000.0.030   7.498e-02  6.770e-02   1.108 0.268072
## f.22000.0.031   3.228e-02  6.861e-02   0.471 0.637986
## f.22000.0.032   1.238e-02  6.912e-02   0.179 0.857854
## f.22000.0.033   2.823e-02  6.985e-02   0.404 0.686061
## f.22000.0.034   4.253e-02  6.847e-02   0.621 0.534514
## f.22000.0.035  -7.561e-04  6.799e-02  -0.011 0.991127
## f.22000.0.036   1.029e-02  6.717e-02   0.153 0.878302
## f.22000.0.037  -2.685e-02  6.912e-02  -0.388 0.697679
## f.22000.0.038   3.186e-02  6.935e-02   0.459 0.645982
## f.22000.0.039   1.453e-01  6.866e-02   2.116 0.034356 *
## f.22000.0.04    4.903e-02  6.980e-02   0.702 0.482420
## f.22000.0.0-4   4.033e-02  6.794e-02   0.594 0.552831
## f.22000.0.040  -2.842e-02  6.812e-02  -0.417 0.676495
## f.22000.0.041   2.457e-02  6.912e-02   0.355 0.722270
## f.22000.0.042  -2.366e-02  7.022e-02  -0.337 0.736135
## f.22000.0.043   6.703e-02  6.931e-02   0.967 0.333466
## f.22000.0.044   1.165e-01  6.880e-02   1.694 0.090317 .
## f.22000.0.045   3.920e-02  6.898e-02   0.568 0.569852
## f.22000.0.046  -1.702e-02  7.099e-02  -0.240 0.810482
## f.22000.0.047  -6.290e-03  6.901e-02  -0.091 0.927375
## f.22000.0.048   4.678e-02  6.807e-02   0.687 0.491993
## f.22000.0.049   7.935e-02  6.851e-02   1.158 0.246801
## f.22000.0.05   -1.825e-02  6.811e-02  -0.268 0.788740
## f.22000.0.0-5   1.177e-01  6.737e-02   1.748 0.080536 .
## f.22000.0.050  -2.049e-02  6.960e-02  -0.294 0.768446
## f.22000.0.051   1.598e-02  6.816e-02   0.234 0.814645
## f.22000.0.052  -4.773e-02  7.006e-02  -0.681 0.495686
## f.22000.0.053   5.760e-02  6.985e-02   0.825 0.409600
## f.22000.0.054   4.590e-02  6.839e-02   0.671 0.502126
## f.22000.0.055   9.121e-02  6.817e-02   1.338 0.180885
## f.22000.0.056  -2.050e-02  7.071e-02  -0.290 0.771929
## f.22000.0.057   4.231e-02  6.799e-02   0.622 0.533748
## f.22000.0.058  -2.684e-02  6.951e-02  -0.386 0.699403
## f.22000.0.059  -1.551e-02  6.930e-02  -0.224 0.822915
## f.22000.0.06    7.760e-02  6.710e-02   1.156 0.247526
## f.22000.0.0-6   9.059e-02  6.730e-02   1.346 0.178281
## f.22000.0.060   6.140e-02  6.897e-02   0.890 0.373336
## f.22000.0.061  -1.150e-02  6.902e-02  -0.167 0.867705
## f.22000.0.062   4.870e-02  7.039e-02   0.692 0.489002
## f.22000.0.063  -3.302e-02  6.897e-02  -0.479 0.632097
## f.22000.0.064   7.474e-02  6.883e-02   1.086 0.277555
## f.22000.0.065  -1.495e-02  7.001e-02  -0.214 0.830922
## f.22000.0.066  -3.327e-03  6.954e-02  -0.048 0.961844
## f.22000.0.067   8.747e-02  6.970e-02   1.255 0.209514
## f.22000.0.068   2.557e-02  6.941e-02   0.368 0.712574
## f.22000.0.069   2.778e-02  7.060e-02   0.393 0.693965
## f.22000.0.07    4.739e-02  6.642e-02   0.713 0.475594
## f.22000.0.0-7   6.668e-02  6.860e-02   0.972 0.331089
## f.22000.0.070   1.376e-02  6.945e-02   0.198 0.843002
## f.22000.0.071  -7.959e-03  6.860e-02  -0.116 0.907638
## f.22000.0.072  -2.027e-02  6.898e-02  -0.294 0.768857
## f.22000.0.073  -8.318e-02  6.870e-02  -1.211 0.225955
## f.22000.0.074   4.249e-02  6.935e-02   0.613 0.540107
## f.22000.0.075  -3.107e-02  7.060e-02  -0.440 0.659845
## f.22000.0.076   8.117e-02  6.975e-02   1.164 0.244535
## f.22000.0.077  -7.575e-03  6.940e-02  -0.109 0.913073
## f.22000.0.078  -1.322e-02  6.930e-02  -0.191 0.848668
## f.22000.0.079   8.652e-02  6.807e-02   1.271 0.203741
## f.22000.0.08   -1.322e-02  6.833e-02  -0.194 0.846550
```

```
## f.22000.0.0-8   5.466e-02  6.902e-02   0.792 0.428355
## f.22000.0.080   5.297e-02  6.996e-02   0.757 0.448983
## f.22000.0.081  -5.609e-02  7.077e-02  -0.793 0.428015
## f.22000.0.082  -2.469e-02  7.032e-02  -0.351 0.725478
## f.22000.0.083   9.248e-02  6.916e-02   1.337 0.181207
## f.22000.0.084   7.087e-02  6.971e-02   1.017 0.309274
## f.22000.0.085   7.745e-02  6.931e-02   1.118 0.263771
## f.22000.0.086   3.062e-02  6.996e-02   0.438 0.661656
## f.22000.0.087  -1.882e-02  7.017e-02  -0.268 0.788545
## f.22000.0.088   5.140e-02  7.128e-02   0.721 0.470825
## f.22000.0.089   8.921e-02  7.093e-02   1.258 0.208538
## f.22000.0.09   -4.166e-03  6.735e-02  -0.062 0.950682
## f.22000.0.0-9   1.011e-01  6.794e-02   1.488 0.136823
## f.22000.0.090  -2.895e-03  6.926e-02  -0.042 0.966655
## f.22000.0.091  -4.127e-02  7.290e-02  -0.566 0.571336
## f.22000.0.092   5.235e-02  6.985e-02   0.750 0.453551
## f.22000.0.093  -4.548e-02  6.991e-02  -0.651 0.515334
## f.22000.0.094   6.094e-02  8.842e-02   0.689 0.490726
## f.22000.0.095  -6.390e-02  7.582e-02  -0.843 0.399390
## 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: 0.9618 on 39978 degrees of freedom
##   (79761 observations deleted due to missingness)
## Multiple R-squared:  0.07778,    Adjusted R-squared:  0.07485
## F-statistic: 26.55 on 127 and 39978 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.22009.0.6 + 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.22009.0.6 + 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
## -2.0218 -0.4240 -0.2515  0.9436  5.3203
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.384e+01  1.069e+00 -12.942  < 2e-16 ***
## pgsfive         1.428e-02  4.162e-03   3.430 0.000603 ***
## f.22009.0.1     3.522e-03  4.325e-03   0.814 0.415504
## f.22009.0.2    -5.498e-03  4.223e-03  -1.302 0.192939
## f.22009.0.3     9.208e-03  4.282e-03   2.151 0.031512 *
## f.22009.0.5    -8.518e-03  4.654e-03  -1.830 0.067192 .
## f.22009.0.6     8.317e-05  4.304e-03   0.019 0.984583
## f.22009.0.7     4.308e-04  4.343e-03   0.099 0.920991
## f.22009.0.8    -2.412e-03  4.618e-03  -0.522 0.601471
## f.22009.0.9    -1.049e-03  4.538e-03  -0.231 0.817231
## f.22009.0.10   -5.830e-03  5.043e-03  -1.156 0.247622
## f.22009.0.11   -6.718e-03  5.944e-03  -1.130 0.258340
## f.22009.0.12    1.614e-03  5.196e-03   0.311 0.756013
## f.22009.0.13   -3.640e-03  4.229e-03  -0.861 0.389470
## f.22009.0.14    4.657e-03  4.588e-03   1.015 0.310096
## f.22009.0.15    4.734e-03  4.568e-03   1.036 0.300042
## f.22009.0.16   -2.136e-04  4.521e-03  -0.047 0.962323
## f.22009.0.17    4.530e-04  4.187e-03   0.108 0.913850
## f.22009.0.18   -1.642e-04  4.298e-03  -0.038 0.969526
## f.22009.0.19    2.301e-03  4.152e-03   0.554 0.579421
## f.22009.0.20   -6.862e-03  4.183e-03  -1.640 0.100921
## f.34.0.0        7.036e-03  5.471e-04  12.861  < 2e-16 ***
## f.22000.0.0-1   3.652e-02  5.892e-02   0.620 0.535395
```

```
## f.22000.0.010  -6.867e-02  5.878e-02  -1.168 0.242678
## f.22000.0.0-10 -2.888e-02  5.869e-02  -0.492 0.622725
## f.22000.0.011  -6.962e-03  5.729e-02  -0.122 0.903271
## f.22000.0.0-11  4.236e-02  5.838e-02   0.726 0.468027
## f.22000.0.012   8.000e-02  6.025e-02   1.328 0.184262
## f.22000.0.013   3.909e-02  5.786e-02   0.676 0.499249
## f.22000.0.014   8.837e-02  5.672e-02   1.558 0.119214
## f.22000.0.015   4.086e-02  5.802e-02   0.704 0.481295
## f.22000.0.016   9.086e-02  5.810e-02   1.564 0.117872
## f.22000.0.017   5.645e-02  5.866e-02   0.962 0.335909
## f.22000.0.018  -2.338e-03  5.889e-02  -0.040 0.968336
## f.22000.0.019   4.201e-02  5.756e-02   0.730 0.465471
## f.22000.0.02   -2.913e-02  5.794e-02  -0.503 0.615165
## f.22000.0.0-2  -3.538e-02  5.892e-02  -0.600 0.548211
## f.22000.0.020  -1.703e-02  5.907e-02  -0.288 0.773086
## f.22000.0.021  -3.913e-02  5.821e-02  -0.672 0.501424
## f.22000.0.022   4.463e-02  5.904e-02   0.756 0.449760
## f.22000.0.023   8.622e-03  5.676e-02   0.152 0.879264
## f.22000.0.024  -4.737e-03  5.758e-02  -0.082 0.934433
## f.22000.0.025   1.811e-02  5.874e-02   0.308 0.757818
## f.22000.0.026   4.815e-02  5.860e-02   0.822 0.411231
## f.22000.0.027   4.021e-02  5.763e-02   0.698 0.485327
## f.22000.0.028   1.139e-01  5.878e-02   1.938 0.052658 .
## f.22000.0.029   4.193e-02  5.922e-02   0.708 0.478963
## f.22000.0.03   -8.207e-03  5.684e-02  -0.144 0.885190
## f.22000.0.0-3   3.420e-02  5.743e-02   0.596 0.551465
## f.22000.0.030  -1.831e-02  5.816e-02  -0.315 0.752883
## f.22000.0.031   1.876e-02  5.805e-02   0.323 0.746543
## f.22000.0.032   5.397e-02  5.702e-02   0.947 0.343810
## f.22000.0.033   3.033e-02  5.937e-02   0.511 0.609505
## f.22000.0.034  -4.799e-03  5.745e-02  -0.084 0.933423
## f.22000.0.035  -7.125e-03  5.792e-02  -0.123 0.902095
## f.22000.0.036   1.519e-02  5.704e-02   0.266 0.790048
## f.22000.0.037   1.059e-01  5.895e-02   1.796 0.072564 .
## f.22000.0.038   3.107e-02  5.728e-02   0.542 0.587503
## f.22000.0.039  -1.590e-03  5.922e-02  -0.027 0.978583
## f.22000.0.04   -2.952e-02  5.874e-02  -0.502 0.615320
## f.22000.0.0-4  -4.241e-02  5.886e-02  -0.721 0.471159
## f.22000.0.040  -4.667e-02  5.741e-02  -0.813 0.416270
## f.22000.0.041  -6.194e-02  5.957e-02  -1.040 0.298415
## f.22000.0.042  -1.341e-02  5.651e-02  -0.237 0.812474
## f.22000.0.043   3.341e-02  5.998e-02   0.557 0.577526
## f.22000.0.044   9.218e-03  5.763e-02   0.160 0.872909
## f.22000.0.045   9.307e-02  5.869e-02   1.586 0.112754
## f.22000.0.046  -5.920e-03  5.953e-02  -0.099 0.920786
## f.22000.0.047   4.570e-02  5.854e-02   0.781 0.434979
## f.22000.0.048   1.884e-02  5.875e-02   0.321 0.748397
## f.22000.0.049  -4.588e-03  5.863e-02  -0.078 0.937619
## f.22000.0.05   -2.247e-02  5.640e-02  -0.398 0.690312
## f.22000.0.0-5  -5.422e-02  5.843e-02  -0.928 0.353458
## f.22000.0.050   1.325e-01  5.781e-02   2.292 0.021922 *
## f.22000.0.051   6.441e-02  5.721e-02   1.126 0.260289
## f.22000.0.052  -3.136e-02  5.794e-02  -0.541 0.588375
## f.22000.0.053   6.544e-02  5.816e-02   1.125 0.260496
## f.22000.0.054  -1.495e-02  5.898e-02  -0.253 0.799945
## f.22000.0.055   3.878e-02  5.841e-02   0.664 0.506667
## f.22000.0.056   7.666e-02  5.998e-02   1.278 0.201254
## f.22000.0.057   1.859e-02  6.042e-02   0.308 0.758388
## f.22000.0.058  -1.689e-02  5.901e-02  -0.286 0.774743
## f.22000.0.059  -6.151e-02  5.773e-02  -1.065 0.286684
## f.22000.0.06   -5.290e-02  5.763e-02  -0.918 0.358696
## f.22000.0.0-6   3.210e-02  5.748e-02   0.558 0.576522
## f.22000.0.060   1.438e-02  5.871e-02   0.245 0.806563
## f.22000.0.061   6.763e-02  6.107e-02   1.107 0.268104
## f.22000.0.062  -1.672e-02  5.881e-02  -0.284 0.776211
## f.22000.0.063   3.403e-02  5.857e-02   0.581 0.561169
## f.22000.0.064   1.066e-02  5.857e-02   0.182 0.855573
## f.22000.0.065   2.582e-02  5.913e-02   0.437 0.662410
## f.22000.0.066  -1.499e-02  5.957e-02  -0.252 0.801340
## f.22000.0.067   3.474e-02  5.802e-02   0.599 0.549301
## f.22000.0.068   4.599e-02  5.995e-02   0.767 0.442970
## f.22000.0.069  -9.540e-04  5.871e-02  -0.016 0.987036
## f.22000.0.07    3.551e-02  5.744e-02   0.618 0.536352
```

```
## f.22000.0.0-7   4.911e-02  5.852e-02   0.839 0.401355
## f.22000.0.070   2.348e-02  6.022e-02   0.390 0.696593
## f.22000.0.071  -1.013e-02  5.852e-02  -0.173 0.862619
## f.22000.0.072  -1.175e-02  5.797e-02  -0.203 0.839368
## f.22000.0.073   4.454e-02  6.039e-02   0.738 0.460744
## f.22000.0.074   6.629e-02  5.959e-02   1.113 0.265924
## f.22000.0.075   1.045e-01  5.863e-02   1.782 0.074734 .
## f.22000.0.076   2.182e-02  5.944e-02   0.367 0.713613
## f.22000.0.077   7.333e-03  5.863e-02   0.125 0.900464
## f.22000.0.078  -7.002e-03  5.869e-02  -0.119 0.905035
## f.22000.0.079   3.229e-03  5.877e-02   0.055 0.956180
## f.22000.0.08    1.249e-02  5.768e-02   0.216 0.828620
## f.22000.0.0-8   2.358e-02  5.819e-02   0.405 0.685261
## f.22000.0.080   1.564e-02  5.929e-02   0.264 0.791970
## f.22000.0.081  -2.244e-03  6.042e-02  -0.037 0.970374
## f.22000.0.082   4.711e-02  6.005e-02   0.785 0.432698
## f.22000.0.083  -5.592e-03  6.103e-02  -0.092 0.926994
## f.22000.0.084  -2.558e-02  5.895e-02  -0.434 0.664306
## f.22000.0.085   7.263e-02  5.956e-02   1.220 0.222656
## f.22000.0.086   6.660e-02  5.995e-02   1.111 0.266611
## f.22000.0.087   5.220e-02  5.889e-02   0.886 0.375400
## f.22000.0.088   3.950e-02  6.246e-02   0.632 0.527088
## f.22000.0.089  -1.981e-02  5.989e-02  -0.331 0.740771
## f.22000.0.09    1.938e-02  5.813e-02   0.333 0.738816
## f.22000.0.0-9  -4.589e-02  5.821e-02  -0.788 0.430431
## f.22000.0.090   7.358e-02  5.861e-02   1.255 0.209336
## f.22000.0.091  -4.031e-02  5.875e-02  -0.686 0.492616
## f.22000.0.092   2.120e-03  5.726e-02   0.037 0.970466
## f.22000.0.093   2.135e-02  5.895e-02   0.362 0.717273
## f.22000.0.094   1.731e-02  7.766e-02   0.223 0.823599
## f.22000.0.095   4.117e-02  6.283e-02   0.655 0.512373
## f.22001.0.01    1.937e-01  8.393e-03  23.082  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9943 on 57383 degrees of freedom
##   (62356 observations deleted due to missingness)
## Multiple R-squared:  0.0135, Adjusted R-squared:  0.01132
## F-statistic: 6.184 on 127 and 57383 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.22009.0.6 + f.220
09.0.7 + 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.22009.0.1
4 + 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.22009.0.6 + 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
## -1.6631 -0.3339 -0.2000  0.8750  4.6194
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.479e+01  1.072e+00 -13.798  < 2e-16 ***
## pgsfive         1.985e-02  4.175e-03   4.754    2e-06 ***
## f.22009.0.1    -2.026e-03  4.341e-03  -0.467  0.64082
## f.22009.0.2    -4.986e-03  4.232e-03  -1.178  0.23873
## f.22009.0.3     2.970e-03  4.295e-03   0.691  0.48926
## f.22009.0.5    -3.828e-04  4.669e-03  -0.082  0.93465
## f.22009.0.6    -2.002e-04  4.316e-03  -0.046  0.96300
## f.22009.0.7    -2.724e-05  4.359e-03  -0.006  0.99501
## f.22009.0.8     2.318e-03  4.634e-03   0.500  0.61690
## f.22009.0.9     5.979e-04  4.548e-03   0.131  0.89540
## f.22009.0.10    1.494e-03  5.057e-03   0.295  0.76771
```

```
## f.22009.0.11   -8.288e-03  5.959e-03  -1.391  0.16429
## f.22009.0.12    5.750e-03  5.212e-03   1.103  0.26990
## f.22009.0.13   -9.876e-03  4.243e-03  -2.327  0.01995 *
## f.22009.0.14   -7.676e-03  4.602e-03  -1.668  0.09535 .
## f.22009.0.15    3.173e-03  4.581e-03   0.693  0.48850
## f.22009.0.16   -2.943e-03  4.529e-03  -0.650  0.51584
## f.22009.0.17    2.266e-03  4.199e-03   0.540  0.58948
## f.22009.0.18   -1.881e-03  4.309e-03  -0.436  0.66248
## f.22009.0.19    2.786e-03  4.163e-03   0.669  0.50335
## f.22009.0.20   -1.419e-02  4.195e-03  -3.382  0.00072 ***
## f.34.0.0        7.581e-03  5.485e-04  13.819  < 2e-16 ***
## f.22000.0.0-1  -1.845e-02  5.910e-02  -0.312  0.75483
## f.22000.0.010  -2.571e-02  5.901e-02  -0.436  0.66303
## f.22000.0.0-10  5.821e-02  5.886e-02   0.989  0.32270
## f.22000.0.011  -3.648e-02  5.745e-02  -0.635  0.52541
## f.22000.0.0-11 -5.346e-03  5.855e-02  -0.091  0.92724
## f.22000.0.012   7.685e-02  6.047e-02   1.271  0.20375
## f.22000.0.013   3.130e-02  5.800e-02   0.540  0.58941
## f.22000.0.014   6.539e-02  5.686e-02   1.150  0.25011
## f.22000.0.015  -2.866e-02  5.806e-02  -0.494  0.62151
## f.22000.0.016   8.848e-02  5.813e-02   1.522  0.12803
## f.22000.0.017  -1.696e-03  5.883e-02  -0.029  0.97700
## f.22000.0.018   5.889e-03  5.906e-02   0.100  0.92058
## f.22000.0.019  -7.563e-04  5.783e-02  -0.013  0.98957
## f.22000.0.02    2.024e-02  5.817e-02   0.348  0.72785
## f.22000.0.0-2   3.364e-02  5.915e-02   0.569  0.56956
## f.22000.0.020  -4.236e-02  5.921e-02  -0.715  0.47433
## f.22000.0.021  -4.467e-03  5.836e-02  -0.077  0.93898
## f.22000.0.022   9.348e-03  5.922e-02   0.158  0.87457
## f.22000.0.023  -4.422e-02  5.688e-02  -0.778  0.43685
## f.22000.0.024  -7.096e-02  5.780e-02  -1.228  0.21957
## f.22000.0.025  -6.082e-02  5.906e-02  -1.030  0.30315
## f.22000.0.026  -4.908e-03  5.883e-02  -0.083  0.93352
## f.22000.0.027  -3.698e-02  5.777e-02  -0.640  0.52209
## f.22000.0.028   5.687e-02  5.881e-02   0.967  0.33347
## f.22000.0.029  -4.660e-02  5.958e-02  -0.782  0.43415
## f.22000.0.03   -8.924e-02  5.700e-02  -1.566  0.11744
## f.22000.0.0-3  -9.701e-02  5.755e-02  -1.686  0.09186 .
## f.22000.0.030  -4.332e-02  5.835e-02  -0.742  0.45788
## f.22000.0.031  -5.085e-04  5.809e-02  -0.009  0.99301
## f.22000.0.032   1.073e-02  5.706e-02   0.188  0.85081
## f.22000.0.033   1.616e-02  5.942e-02   0.272  0.78566
## f.22000.0.034  -1.977e-03  5.767e-02  -0.034  0.97265
## f.22000.0.035   2.085e-02  5.806e-02   0.359  0.71955
## f.22000.0.036   5.015e-02  5.720e-02   0.877  0.38068
## f.22000.0.037   7.434e-02  5.915e-02   1.257  0.20888
## f.22000.0.038  -4.081e-02  5.742e-02  -0.711  0.47725
## f.22000.0.039  -2.447e-02  5.928e-02  -0.413  0.67978
## f.22000.0.04   -3.077e-02  5.897e-02  -0.522  0.60181
## f.22000.0.0-4   2.720e-03  5.906e-02   0.046  0.96327
## f.22000.0.040  -6.316e-02  5.752e-02  -1.098  0.27221
## f.22000.0.041  -8.622e-02  5.974e-02  -1.443  0.14895
## f.22000.0.042   3.167e-02  5.658e-02   0.560  0.57566
## f.22000.0.043   7.671e-02  6.030e-02   1.272  0.20329
## f.22000.0.044  -6.062e-02  5.774e-02  -1.050  0.29382
## f.22000.0.045   7.194e-02  5.886e-02   1.222  0.22159
## f.22000.0.046  -7.975e-02  5.980e-02  -1.334  0.18235
## f.22000.0.047  -3.520e-02  5.862e-02  -0.600  0.54819
## f.22000.0.048   1.702e-02  5.878e-02   0.289  0.77220
## f.22000.0.049   2.343e-02  5.886e-02   0.398  0.69052
## f.22000.0.05   -3.785e-02  5.641e-02  -0.671  0.50215
## f.22000.0.0-5   4.212e-02  5.858e-02   0.719  0.47208
## f.22000.0.050   5.161e-03  5.806e-02   0.089  0.92916
## f.22000.0.051   4.057e-02  5.711e-02   0.710  0.47749
## f.22000.0.052  -2.745e-02  5.811e-02  -0.472  0.63672
## f.22000.0.053  -7.036e-02  5.838e-02  -1.205  0.22812
## f.22000.0.054   2.015e-02  5.906e-02   0.341  0.73301
## f.22000.0.055  -5.416e-03  5.847e-02  -0.093  0.92619
## f.22000.0.056   4.669e-02  6.010e-02   0.777  0.43720
## f.22000.0.057  -2.467e-02  6.060e-02  -0.407  0.68394
## f.22000.0.058   2.123e-04  5.915e-02   0.004  0.99714
## f.22000.0.059  -5.983e-02  5.787e-02  -1.034  0.30119
## f.22000.0.06   -5.156e-02  5.765e-02  -0.894  0.37113
```

```
## f.22000.0.0-6  -1.660e-03  5.762e-02  -0.029  0.97702
## f.22000.0.060   1.031e-02  5.889e-02   0.175  0.86105
## f.22000.0.061  -2.241e-02  6.122e-02  -0.366  0.71434
## f.22000.0.062  -6.514e-02  5.901e-02  -1.104  0.26961
## f.22000.0.063   2.206e-02  5.880e-02   0.375  0.70746
## f.22000.0.064   1.828e-02  5.872e-02   0.311  0.75549
## f.22000.0.065   8.705e-02  5.930e-02   1.468  0.14217
## f.22000.0.066  -3.481e-02  5.962e-02  -0.584  0.55927
## f.22000.0.067  -1.647e-02  5.819e-02  -0.283  0.77707
## f.22000.0.068  -4.634e-03  6.020e-02  -0.077  0.93863
## f.22000.0.069   2.121e-02  5.903e-02   0.359  0.71939
## f.22000.0.07    3.988e-02  5.750e-02   0.694  0.48798
## f.22000.0.0-7   3.948e-02  5.877e-02   0.672  0.50170
## f.22000.0.070   2.847e-02  6.040e-02   0.471  0.63742
## f.22000.0.071  -3.670e-02  5.872e-02  -0.625  0.53193
## f.22000.0.072   2.348e-04  5.806e-02   0.004  0.99677
## f.22000.0.073  -1.773e-02  6.064e-02  -0.292  0.77004
## f.22000.0.074   4.437e-02  5.970e-02   0.743  0.45735
## f.22000.0.075   7.849e-02  5.869e-02   1.337  0.18109
## f.22000.0.076   1.226e-02  5.968e-02   0.205  0.83729
## f.22000.0.077  -5.776e-02  5.883e-02  -0.982  0.32613
## f.22000.0.078  -5.241e-02  5.883e-02  -0.891  0.37299
## f.22000.0.079  -4.486e-02  5.894e-02  -0.761  0.44665
## f.22000.0.08   -3.414e-02  5.779e-02  -0.591  0.55468
## f.22000.0.0-8  -1.768e-03  5.836e-02  -0.030  0.97583
## f.22000.0.080   2.440e-02  5.955e-02   0.410  0.68201
## f.22000.0.081  -5.061e-02  6.053e-02  -0.836  0.40314
## f.22000.0.082   4.301e-02  6.016e-02   0.715  0.47472
## f.22000.0.083   9.527e-03  6.114e-02   0.156  0.87618
## f.22000.0.084  -4.485e-02  5.913e-02  -0.759  0.44813
## f.22000.0.085   7.310e-02  5.961e-02   1.226  0.22004
## f.22000.0.086  -2.981e-02  6.000e-02  -0.497  0.61934
## f.22000.0.087   4.427e-02  5.898e-02   0.751  0.45286
## f.22000.0.088  -2.264e-03  6.231e-02  -0.036  0.97102
## f.22000.0.089  -2.208e-02  5.997e-02  -0.368  0.71273
## f.22000.0.09   -3.760e-02  5.833e-02  -0.645  0.51916
## f.22000.0.0-9  -3.741e-02  5.838e-02  -0.641  0.52159
## f.22000.0.090   5.693e-02  5.878e-02   0.969  0.33278
## f.22000.0.091  -1.899e-02  5.895e-02  -0.322  0.74740
## f.22000.0.092   2.198e-02  5.738e-02   0.383  0.70166
## f.22000.0.093  -1.883e-02  5.919e-02  -0.318  0.75044
## f.22000.0.094   3.936e-04  7.791e-02   0.005  0.99597
## f.22000.0.095  -7.414e-03  6.302e-02  -0.118  0.90635
## f.22001.0.01   -5.255e-03  8.419e-03  -0.624  0.53253
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.998 on 57461 degrees of freedom
##   (62278 observations deleted due to missingness)
## Multiple R-squared:  0.006198,   Adjusted R-squared:  0.004001
## F-statistic: 2.822 on 127 and 57461 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.22009.0.6 + f.22
009.0.7 + 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 = 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.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
## -2.2477 -0.7168  0.0253  0.4463  4.2779
##
## Coefficients:
```

```
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -3.185e+01  7.352e-01 -43.319  < 2e-16 ***
## pgsfive         1.340e-02  2.843e-03   4.714 2.43e-06 ***
## f.22009.0.1     8.720e-04  2.967e-03   0.294 0.768812
## f.22009.0.2     6.373e-04  2.894e-03   0.220 0.825737
## f.22009.0.3     4.142e-03  2.928e-03   1.414 0.157224
## f.22009.0.5    -5.707e-03  3.106e-03  -1.838 0.066100 .
## f.22009.0.6     5.476e-03  2.938e-03   1.864 0.062371 .
## f.22009.0.7     3.659e-03  2.984e-03   1.226 0.220137
## f.22009.0.8     7.473e-03  3.173e-03   2.355 0.018520 *
## f.22009.0.9    -1.330e-02  3.014e-03  -4.414 1.02e-05 ***
## f.22009.0.10   -1.531e-02  3.457e-03  -4.428 9.50e-06 ***
## f.22009.0.11   -1.992e-02  4.025e-03  -4.949 7.46e-07 ***
## f.22009.0.12    6.043e-03  3.547e-03   1.704 0.088440 .
## f.22009.0.13   -4.055e-03  2.886e-03  -1.405 0.160037
## f.22009.0.14   -1.309e-02  3.050e-03  -4.290 1.78e-05 ***
## f.22009.0.15   -1.830e-03  3.125e-03  -0.585 0.558222
## f.22009.0.16   -4.558e-03  3.066e-03  -1.487 0.137053
## f.22009.0.17    2.807e-03  2.847e-03   0.986 0.324094
## f.22009.0.18   -1.936e-02  2.854e-03  -6.782 1.19e-11 ***
## f.22009.0.19    1.054e-02  2.842e-03   3.709 0.000208 ***
## f.22009.0.20   -2.247e-02  2.848e-03  -7.891 3.01e-15 ***
## f.34.0.0        1.624e-02  3.762e-04  43.170  < 2e-16 ***
## f.22000.0.0-1  -2.780e-02  4.012e-02  -0.693 0.488347
## f.22000.0.010   6.894e-03  4.059e-02   0.170 0.865126
## f.22000.0.0-10  5.711e-02  4.083e-02   1.399 0.161924
## f.22000.0.011   6.342e-03  3.997e-02   0.159 0.873920
## f.22000.0.0-11  8.175e-03  4.041e-02   0.202 0.839672
## f.22000.0.012  -8.687e-03  4.020e-02  -0.216 0.828912
## f.22000.0.013   7.768e-03  4.004e-02   0.194 0.846165
## f.22000.0.014   6.270e-03  3.981e-02   0.158 0.874846
## f.22000.0.015   5.260e-02  4.005e-02   1.313 0.189042
## f.22000.0.016   1.760e-02  4.026e-02   0.437 0.662007
## f.22000.0.017   6.701e-02  3.990e-02   1.679 0.093072 .
## f.22000.0.018   3.844e-02  4.034e-02   0.953 0.340620
## f.22000.0.019  -1.245e-02  3.950e-02  -0.315 0.752544
## f.22000.0.02   -2.059e-02  3.967e-02  -0.519 0.603660
## f.22000.0.0-2  -2.791e-03  4.037e-02  -0.069 0.944880
## f.22000.0.020   3.901e-02  4.020e-02   0.970 0.331845
## f.22000.0.021   5.858e-02  4.008e-02   1.461 0.143889
## f.22000.0.022   4.893e-02  4.009e-02   1.220 0.222284
## f.22000.0.023  -1.408e-03  4.005e-02  -0.035 0.971950
## f.22000.0.024  -4.555e-02  3.953e-02  -1.152 0.249183
## f.22000.0.025  -2.165e-03  4.053e-02  -0.053 0.957408
## f.22000.0.026   2.466e-02  4.027e-02   0.612 0.540261
## f.22000.0.027   3.210e-02  3.966e-02   0.810 0.418216
## f.22000.0.028  -2.803e-02  4.004e-02  -0.700 0.483870
## f.22000.0.029   5.099e-02  3.977e-02   1.282 0.199854
## f.22000.0.03    2.249e-02  3.973e-02   0.566 0.571335
## f.22000.0.0-3  -3.647e-02  3.999e-02  -0.912 0.361799
## f.22000.0.030  -3.813e-03  3.980e-02  -0.096 0.923681
## f.22000.0.031   2.235e-02  3.993e-02   0.560 0.575643
## f.22000.0.032  -6.610e-03  4.011e-02  -0.165 0.869102
## f.22000.0.033   5.559e-02  4.087e-02   1.360 0.173790
## f.22000.0.034   1.690e-02  3.990e-02   0.424 0.671918
## f.22000.0.035   1.706e-02  3.992e-02   0.427 0.669180
## f.22000.0.036  -4.486e-03  3.965e-02  -0.113 0.909925
## f.22000.0.037   2.874e-02  4.024e-02   0.714 0.475069
## f.22000.0.038   7.719e-02  4.013e-02   1.923 0.054457 .
## f.22000.0.039   4.330e-02  4.057e-02   1.067 0.285809
## f.22000.0.04    2.461e-02  4.049e-02   0.608 0.543374
## f.22000.0.0-4  -9.393e-03  4.064e-02  -0.231 0.817193
## f.22000.0.040   4.696e-02  4.006e-02   1.172 0.241090
## f.22000.0.041   1.912e-02  4.068e-02   0.470 0.638329
## f.22000.0.042  -8.145e-03  3.999e-02  -0.204 0.838592
## f.22000.0.043   1.315e-02  4.069e-02   0.323 0.746518
## f.22000.0.044   6.662e-03  4.024e-02   0.166 0.868517
## f.22000.0.045   9.133e-02  4.030e-02   2.266 0.023434 *
## f.22000.0.046   9.053e-02  4.051e-02   2.235 0.025437 *
## f.22000.0.047   5.139e-02  4.052e-02   1.268 0.204652
## f.22000.0.048  -1.981e-03  4.045e-02  -0.049 0.960933
## f.22000.0.049  -2.181e-04  4.046e-02  -0.005 0.995698
## f.22000.0.05   -3.513e-02  3.977e-02  -0.883 0.377058
```

```
## f.22000.0.0-5   1.324e-02  4.020e-02   0.329 0.741889
## f.22000.0.050   8.930e-02  4.054e-02   2.203 0.027605 *
## f.22000.0.051   8.577e-04  3.989e-02   0.022 0.982846
## f.22000.0.052  -1.153e-02  4.063e-02  -0.284 0.776537
## f.22000.0.053  -5.546e-03  4.037e-02  -0.137 0.890729
## f.22000.0.054  -6.169e-02  4.045e-02  -1.525 0.127285
## f.22000.0.055   4.614e-03  4.078e-02   0.113 0.909924
## f.22000.0.056   9.832e-02  4.044e-02   2.431 0.015059 *
## f.22000.0.057   3.880e-02  4.064e-02   0.955 0.339631
## f.22000.0.058   3.655e-02  4.046e-02   0.903 0.366376
## f.22000.0.059   2.191e-02  4.030e-02   0.544 0.586597
## f.22000.0.06    2.227e-02  3.963e-02   0.562 0.574263
## f.22000.0.0-6  -1.353e-02  4.054e-02  -0.334 0.738476
## f.22000.0.060  -3.429e-02  4.072e-02  -0.842 0.399780
## f.22000.0.061   9.600e-03  4.096e-02   0.234 0.814682
## f.22000.0.062  -1.525e-02  4.078e-02  -0.374 0.708392
## f.22000.0.063  -3.944e-03  4.079e-02  -0.097 0.922970
## f.22000.0.064  -2.650e-03  4.043e-02  -0.066 0.947739
## f.22000.0.065   4.329e-02  4.070e-02   1.064 0.287497
## f.22000.0.066   7.748e-03  4.108e-02   0.189 0.850423
## f.22000.0.067   2.630e-02  4.066e-02   0.647 0.517684
## f.22000.0.068   2.859e-02  4.059e-02   0.704 0.481195
## f.22000.0.069   1.343e-02  4.071e-02   0.330 0.741418
## f.22000.0.07    4.186e-02  3.994e-02   1.048 0.294563
## f.22000.0.0-7  -2.842e-02  4.027e-02  -0.706 0.480308
## f.22000.0.070   5.517e-02  4.071e-02   1.355 0.175354
## f.22000.0.071   3.027e-02  4.052e-02   0.747 0.455037
## f.22000.0.072  -3.497e-02  4.079e-02  -0.857 0.391298
## f.22000.0.073   1.386e-02  4.072e-02   0.340 0.733523
## f.22000.0.074   2.957e-02  4.094e-02   0.722 0.470086
## f.22000.0.075   3.631e-02  4.054e-02   0.896 0.370434
## f.22000.0.076   5.282e-04  4.097e-02   0.013 0.989715
## f.22000.0.077  -5.022e-03  4.070e-02  -0.123 0.901803
## f.22000.0.078  -2.102e-02  4.050e-02  -0.519 0.603833
## f.22000.0.079  -2.678e-02  4.039e-02  -0.663 0.507326
## f.22000.0.08   -1.054e-02  3.988e-02  -0.264 0.791528
## f.22000.0.0-8   3.587e-02  4.044e-02   0.887 0.375103
## f.22000.0.080   8.086e-03  4.083e-02   0.198 0.843015
## f.22000.0.081   9.195e-02  4.130e-02   2.226 0.026013 *
## f.22000.0.082  -5.541e-03  4.080e-02  -0.136 0.891978
## f.22000.0.083  -3.344e-02  4.090e-02  -0.818 0.413612
## f.22000.0.084  -1.503e-03  4.094e-02  -0.037 0.970714
## f.22000.0.085   9.739e-02  4.078e-02   2.388 0.016930 *
## f.22000.0.086   6.572e-05  4.086e-02   0.002 0.998717
## f.22000.0.087   7.922e-03  4.086e-02   0.194 0.846273
## f.22000.0.088   1.157e-02  4.159e-02   0.278 0.780816
## f.22000.0.089   3.256e-02  4.128e-02   0.789 0.430150
## f.22000.0.09    5.504e-02  3.969e-02   1.387 0.165525
## f.22000.0.0-9   2.220e-03  4.045e-02   0.055 0.956233
## f.22000.0.090   3.412e-02  4.088e-02   0.835 0.403881
## f.22000.0.091  -4.552e-02  4.225e-02  -1.077 0.281268
## f.22000.0.092   7.407e-02  4.095e-02   1.809 0.070507 .
## f.22000.0.093   5.655e-02  4.087e-02   1.384 0.166457
## f.22000.0.094   1.141e-01  5.228e-02   2.183 0.029022 *
## f.22000.0.095   2.432e-02  4.356e-02   0.558 0.576696
## f.22001.0.01    2.917e-01  5.741e-03  50.812  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9816 on 119267 degrees of freedom
##   (472 observations deleted due to missingness)
## Multiple R-squared:  0.03757,    Adjusted R-squared:  0.03654
## F-statistic: 36.66 on 127 and 119267 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.22009.0.6 +
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 = 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.22009.0.6 + 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
## -2.2860 -0.6549  0.2183  0.5483  4.2819
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.337e+01  1.478e+00 -29.346  < 2e-16 ***
## pgsfive         1.226e-02  5.661e-03   2.166  0.03034 *
## f.22009.0.1    -4.909e-03  5.844e-03  -0.840  0.40092
## f.22009.0.2     4.457e-03  5.721e-03   0.779  0.43599
## f.22009.0.3    -5.967e-03  5.775e-03  -1.033  0.30146
## f.22009.0.5     3.083e-03  6.415e-03   0.481  0.63082
## f.22009.0.6    -7.026e-04  5.804e-03  -0.121  0.90365
## f.22009.0.7     1.063e-03  5.869e-03   0.181  0.85624
## f.22009.0.8     3.405e-04  6.250e-03   0.054  0.95656
## f.22009.0.9    -5.685e-05  6.375e-03  -0.009  0.99288
## f.22009.0.10   -2.970e-04  6.816e-03  -0.044  0.96524
## f.22009.0.11    4.350e-03  8.161e-03   0.533  0.59399
## f.22009.0.12    1.127e-02  7.075e-03   1.593  0.11112
## f.22009.0.13   -4.896e-03  5.721e-03  -0.856  0.39206
## f.22009.0.14    3.096e-03  6.389e-03   0.485  0.62800
## f.22009.0.15   -8.815e-04  6.180e-03  -0.143  0.88659
## f.22009.0.16   -1.348e-02  6.231e-03  -2.163  0.03059 *
## f.22009.0.17   -7.692e-03  5.641e-03  -1.364  0.17269
## f.22009.0.18   -9.413e-03  5.930e-03  -1.587  0.11244
## f.22009.0.19   -5.737e-03  5.640e-03  -1.017  0.30905
## f.22009.0.20   -8.722e-04  5.710e-03  -0.153  0.87860
## f.34.0.0        2.215e-02  7.554e-04  29.319  < 2e-16 ***
## f.22000.0.0-1   1.388e-01  8.037e-02   1.727  0.08416 .
## f.22000.0.010   1.132e-01  7.866e-02   1.439  0.15015
## f.22000.0.0-10 -1.533e-03  7.997e-02  -0.019  0.98470
## f.22000.0.011   1.355e-01  7.756e-02   1.747  0.08066 .
## f.22000.0.0-11  1.794e-01  7.685e-02   2.335  0.01955 *
## f.22000.0.012   1.049e-02  8.205e-02   0.128  0.89825
## f.22000.0.013   9.186e-02  7.851e-02   1.170  0.24200
## f.22000.0.014   7.758e-02  7.567e-02   1.025  0.30531
## f.22000.0.015   6.683e-02  7.742e-02   0.863  0.38804
## f.22000.0.016  -3.173e-02  7.873e-02  -0.403  0.68690
## f.22000.0.017   2.920e-02  8.037e-02   0.363  0.71634
## f.22000.0.018   8.840e-02  8.071e-02   1.095  0.27341
## f.22000.0.019   2.044e-02  7.743e-02   0.264  0.79179
## f.22000.0.02    2.490e-02  7.685e-02   0.324  0.74596
## f.22000.0.0-2   4.219e-02  7.987e-02   0.528  0.59733
## f.22000.0.020   7.419e-02  7.957e-02   0.932  0.35114
## f.22000.0.021  -3.179e-02  7.996e-02  -0.398  0.69099
## f.22000.0.022   1.716e-01  8.014e-02   2.141  0.03230 *
## f.22000.0.023   6.764e-02  7.572e-02   0.893  0.37172
## f.22000.0.024  -2.619e-03  7.672e-02  -0.034  0.97277
## f.22000.0.025   2.071e-01  7.934e-02   2.610  0.00906 **
## f.22000.0.026   1.326e-01  7.845e-02   1.691  0.09092 .
## f.22000.0.027   1.037e-01  7.742e-02   1.339  0.18062
## f.22000.0.028  -1.141e-02  7.996e-02  -0.143  0.88657
## f.22000.0.029   6.709e-02  8.070e-02   0.831  0.40581
## f.22000.0.03    9.294e-02  7.607e-02   1.222  0.22176
## f.22000.0.0-3   5.553e-02  7.729e-02   0.718  0.47250
## f.22000.0.030   1.136e-01  8.037e-02   1.413  0.15770
## f.22000.0.031   7.924e-02  7.816e-02   1.014  0.31071
## f.22000.0.032   1.137e-01  7.678e-02   1.481  0.13871
## f.22000.0.033   1.627e-01  8.045e-02   2.023  0.04311 *
## f.22000.0.034   1.576e-01  7.742e-02   2.035  0.04185 *
## f.22000.0.035   3.995e-02  7.781e-02   0.513  0.60770
## f.22000.0.036   9.024e-02  7.523e-02   1.200  0.23034
## f.22000.0.037   3.139e-02  7.934e-02   0.396  0.69234
## f.22000.0.038   9.394e-02  7.630e-02   1.231  0.21823
## f.22000.0.039   8.583e-02  7.988e-02   1.075  0.28259
## f.22000.0.04    1.196e-01  7.980e-02   1.498  0.13406
```

```
## f.22000.0.0-4   1.647e-01  8.020e-02   2.054  0.03998 *
## f.22000.0.040   1.269e-01  7.624e-02   1.665  0.09597 .
## f.22000.0.041   2.228e-02  7.796e-02   0.286  0.77500
## f.22000.0.042  -1.652e-03  7.588e-02  -0.022  0.98263
## f.22000.0.043   9.836e-02  8.036e-02   1.224  0.22097
## f.22000.0.044   1.132e-02  7.735e-02   0.146  0.88362
## f.22000.0.045   1.993e-01  7.802e-02   2.555  0.01063 *
## f.22000.0.046   1.283e-01  7.972e-02   1.610  0.10750
## f.22000.0.047   9.020e-02  7.775e-02   1.160  0.24600
## f.22000.0.048   9.668e-02  8.021e-02   1.205  0.22811
## f.22000.0.049  -2.386e-02  7.880e-02  -0.303  0.76206
## f.22000.0.05    6.045e-02  7.396e-02   0.817  0.41374
## f.22000.0.0-5   1.499e-01  7.796e-02   1.923  0.05451 .
## f.22000.0.050   3.341e-02  7.703e-02   0.434  0.66445
## f.22000.0.051   2.824e-02  7.529e-02   0.375  0.70761
## f.22000.0.052   9.874e-02  7.709e-02   1.281  0.20027
## f.22000.0.053   9.807e-02  7.980e-02   1.229  0.21913
## f.22000.0.054   9.274e-02  7.830e-02   1.184  0.23627
## f.22000.0.055   6.658e-02  7.691e-02   0.866  0.38670
## f.22000.0.056   1.069e-01  8.274e-02   1.293  0.19615
## f.22000.0.057   4.986e-02  8.079e-02   0.617  0.53714
## f.22000.0.058   8.066e-02  7.888e-02   1.023  0.30655
## f.22000.0.059   5.173e-02  7.528e-02   0.687  0.49198
## f.22000.0.06    1.401e-02  7.642e-02   0.183  0.85459
## f.22000.0.0-6   2.881e-02  7.672e-02   0.375  0.70730
## f.22000.0.060   1.640e-01  7.768e-02   2.111  0.03478 *
## f.22000.0.061   1.460e-01  8.186e-02   1.784  0.07451 .
## f.22000.0.062   1.268e-01  7.933e-02   1.598  0.11012
## f.22000.0.063   9.067e-03  7.830e-02   0.116  0.90781
## f.22000.0.064   9.049e-02  7.925e-02   1.142  0.25356
## f.22000.0.065   1.295e-02  8.004e-02   0.162  0.87152
## f.22000.0.066   4.758e-02  7.896e-02   0.603  0.54681
## f.22000.0.067   8.645e-02  7.795e-02   1.109  0.26745
## f.22000.0.068   7.237e-02  8.106e-02   0.893  0.37197
## f.22000.0.069   8.869e-02  7.926e-02   1.119  0.26319
## f.22000.0.07    6.188e-02  7.661e-02   0.808  0.41926
## f.22000.0.0-7   2.703e-02  7.845e-02   0.345  0.73041
## f.22000.0.070  -6.826e-03  8.140e-02  -0.084  0.93317
## f.22000.0.071  -8.972e-03  7.789e-02  -0.115  0.90830
## f.22000.0.072   1.264e-01  7.743e-02   1.633  0.10250
## f.22000.0.073   1.432e-01  8.215e-02   1.743  0.08138 .
## f.22000.0.074   3.324e-02  7.910e-02   0.420  0.67434
## f.22000.0.075  -3.008e-02  7.742e-02  -0.388  0.69766
## f.22000.0.076   1.112e-01  8.004e-02   1.389  0.16491
## f.22000.0.077   3.502e-02  7.851e-02   0.446  0.65553
## f.22000.0.078   4.324e-02  7.776e-02   0.556  0.57811
## f.22000.0.079   3.516e-02  7.911e-02   0.444  0.65671
## f.22000.0.08    3.934e-02  7.698e-02   0.511  0.60933
## f.22000.0.0-8   4.449e-02  7.918e-02   0.562  0.57423
## f.22000.0.080   1.043e-01  8.030e-02   1.299  0.19395
## f.22000.0.081   4.558e-02  8.282e-02   0.550  0.58205
## f.22000.0.082   1.323e-01  8.216e-02   1.610  0.10738
## f.22000.0.083   8.444e-02  8.206e-02   1.029  0.30344
## f.22000.0.084   1.386e-01  7.896e-02   1.755  0.07927 .
## f.22000.0.085   2.099e-02  8.062e-02   0.260  0.79455
## f.22000.0.086   1.328e-02  8.159e-02   0.163  0.87069
## f.22000.0.087   4.723e-02  7.838e-02   0.603  0.54677
## f.22000.0.088   1.723e-02  8.520e-02   0.202  0.83973
## f.22000.0.089   5.592e-02  8.178e-02   0.684  0.49412
## f.22000.0.09    9.708e-02  7.902e-02   1.229  0.21926
## f.22000.0.0-9   1.277e-02  7.865e-02   0.162  0.87100
## f.22000.0.090   7.733e-02  7.797e-02   0.992  0.32128
## f.22000.0.091   8.123e-02  7.729e-02   1.051  0.29328
## f.22000.0.092   3.568e-02  7.476e-02   0.477  0.63319
## f.22000.0.093   5.721e-02  7.838e-02   0.730  0.46539
## f.22000.0.094   2.037e-02  1.035e-01   0.197  0.84393
## f.22000.0.095  -4.972e-02  8.204e-02  -0.606  0.54450
## f.22001.0.01    5.175e-02  1.136e-02   4.554 5.29e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9863 on 30791 degrees of freedom
```

```
##   (88948 observations deleted due to missingness)
## Multiple R-squared:  0.03117,    Adjusted R-squared:  0.02718
## F-statistic: 7.801 on 127 and 30791 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.22009.0.6 +
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 = 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.22009.0.6 + 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
## -2.5250 -0.7719  0.6935  0.7819  1.0359
##
## Coefficients:
##                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -4.8125653  0.7568218  -6.359 2.04e-10 ***
## pgsfive        -0.0056290  0.0029236  -1.925 0.054183 .
## f.22009.0.1    -0.0013138  0.0030491  -0.431 0.666546
## f.22009.0.2     0.0013099  0.0029763   0.440 0.659862
## f.22009.0.3     0.0047171  0.0030098   1.567 0.117061
## f.22009.0.5    -0.0208897  0.0031937  -6.541 6.14e-11 ***
## f.22009.0.6     0.0002476  0.0030219   0.082 0.934702
## f.22009.0.7     0.0001211  0.0030693   0.039 0.968528
## f.22009.0.8    -0.0011493  0.0032612  -0.352 0.724533
## f.22009.0.9    -0.0097761  0.0030999  -3.154 0.001613 **
## f.22009.0.10   -0.0009844  0.0035539  -0.277 0.781796
## f.22009.0.11   -0.0146823  0.0041380  -3.548 0.000388 ***
## f.22009.0.12    0.0015306  0.0036483   0.420 0.674816
## f.22009.0.13    0.0066547  0.0029680   2.242 0.024952 *
## f.22009.0.14    0.0146163  0.0031375   4.659 3.19e-06 ***
## f.22009.0.15   -0.0073855  0.0032130  -2.299 0.021527 *
## f.22009.0.16    0.0078415  0.0031512   2.488 0.012833 *
## f.22009.0.17   -0.0007557  0.0029268  -0.258 0.796255
## f.22009.0.18   -0.0088561  0.0029357  -3.017 0.002557 **
## f.22009.0.19    0.0070243  0.0029227   2.403 0.016245 *
## f.22009.0.20   -0.0091446  0.0029285  -3.123 0.001793 **
## f.34.0.0        0.0024767  0.0003873   6.395 1.61e-10 ***
## f.22000.0.0-1  -0.0512294  0.0411807  -1.244 0.213497
## f.22000.0.010   0.0106116  0.0417472   0.254 0.799352
## f.22000.0.0-10 -0.0651107  0.0418730  -1.555 0.119960
## f.22000.0.011  -0.0206865  0.0408937  -0.506 0.612956
## f.22000.0.0-11 -0.0560380  0.0414383  -1.352 0.176274
## f.22000.0.012   0.0300267  0.0412443   0.728 0.466602
## f.22000.0.013  -0.0312136  0.0410669  -0.760 0.447216
## f.22000.0.014  -0.0088539  0.0408167  -0.217 0.828273
## f.22000.0.015  -0.0670465  0.0411790  -1.628 0.103491
## f.22000.0.016   0.0157787  0.0412249   0.383 0.701908
## f.22000.0.017  -0.0588984  0.0409305  -1.439 0.150158
## f.22000.0.018  -0.0084613  0.0412970  -0.205 0.837660
## f.22000.0.019   0.0508740  0.0404922   1.256 0.208977
## f.22000.0.02   -0.0326730  0.0407279  -0.802 0.422423
## f.22000.0.0-2  -0.0706930  0.0413971  -1.708 0.087698 .
## f.22000.0.020   0.0241547  0.0413004   0.585 0.558647
## f.22000.0.021  -0.0764635  0.0410756  -1.862 0.062672 .
## f.22000.0.022  -0.0582785  0.0410964  -1.418 0.156167
## f.22000.0.023  -0.0303380  0.0410391  -0.739 0.459758
## f.22000.0.024   0.0333033  0.0405503   0.821 0.411487
## f.22000.0.025  -0.0045226  0.0415546  -0.109 0.913333
## f.22000.0.026  -0.0495260  0.0413789  -1.197 0.231353
## f.22000.0.027   0.0180245  0.0407640   0.442 0.658369
## f.22000.0.028  -0.0174620  0.0410682  -0.425 0.670694
## f.22000.0.029  -0.0431383  0.0409053  -1.055 0.291616
## f.22000.0.03   -0.0088627  0.0406761  -0.218 0.827519
```

```
## f.22000.0.0-3  -0.0538311  0.0409306  -1.315 0.188452
## f.22000.0.030  -0.0446110  0.0407813  -1.094 0.273998
## f.22000.0.031  -0.0293912  0.0410328  -0.716 0.473815
## f.22000.0.032  -0.0594675  0.0411137  -1.446 0.148063
## f.22000.0.033  -0.0406151  0.0419564  -0.968 0.333031
## f.22000.0.034  -0.0425215  0.0408130  -1.042 0.297478
## f.22000.0.035  -0.0272701  0.0410121  -0.665 0.506098
## f.22000.0.036  -0.0404425  0.0406584  -0.995 0.319889
## f.22000.0.037  -0.0314577  0.0413218  -0.761 0.446487
## f.22000.0.038  -0.0410642  0.0411417  -0.998 0.318225
## f.22000.0.039   0.0066882  0.0414948   0.161 0.871950
## f.22000.0.04   -0.0557659  0.0413796  -1.348 0.177768
## f.22000.0.0-4  -0.0652725  0.0416264  -1.568 0.116871
## f.22000.0.040  -0.0283129  0.0410868  -0.689 0.490762
## f.22000.0.041   0.0258401  0.0416954   0.620 0.535433
## f.22000.0.042   0.0140942  0.0410395   0.343 0.731275
## f.22000.0.043  -0.0478713  0.0417689  -1.146 0.251756
## f.22000.0.044   0.0097114  0.0412728   0.235 0.813978
## f.22000.0.045  -0.0066856  0.0414376  -0.161 0.871825
## f.22000.0.046  -0.0336899  0.0415352  -0.811 0.417300
## f.22000.0.047  -0.0174663  0.0414847  -0.421 0.673733
## f.22000.0.048  -0.0243993  0.0414391  -0.589 0.555998
## f.22000.0.049  -0.0333121  0.0415060  -0.803 0.422216
## f.22000.0.05    0.0256475  0.0408583   0.628 0.530189
## f.22000.0.0-5  -0.0636423  0.0412354  -1.543 0.122739
## f.22000.0.050  -0.0281919  0.0415542  -0.678 0.497497
## f.22000.0.051  -0.0572421  0.0409867  -1.397 0.162536
## f.22000.0.052   0.0019243  0.0415555   0.046 0.963067
## f.22000.0.053  -0.0234905  0.0413873  -0.568 0.570322
## f.22000.0.054  -0.0598107  0.0414568  -1.443 0.149101
## f.22000.0.055  -0.0410515  0.0417784  -0.983 0.325806
## f.22000.0.056  -0.0521294  0.0414373  -1.258 0.208383
## f.22000.0.057  -0.0184085  0.0416976  -0.441 0.658869
## f.22000.0.058  -0.0163611  0.0414369  -0.395 0.692958
## f.22000.0.059  -0.0071271  0.0413867  -0.172 0.863274
## f.22000.0.06    0.0090237  0.0405643   0.222 0.823960
## f.22000.0.0-6  -0.1146570  0.0414956  -2.763 0.005726 **
## f.22000.0.060  -0.0633912  0.0416953  -1.520 0.128427
## f.22000.0.061  -0.0374186  0.0419751  -0.891 0.372691
## f.22000.0.062  -0.0481210  0.0418507  -1.150 0.250218
## f.22000.0.063  -0.0792091  0.0418386  -1.893 0.058333 .
## f.22000.0.064  -0.0520457  0.0414843  -1.255 0.209631
## f.22000.0.065   0.0056373  0.0418100   0.135 0.892746
## f.22000.0.066   0.0001819  0.0421711   0.004 0.996559
## f.22000.0.067  -0.0238697  0.0416948  -0.572 0.566993
## f.22000.0.068  -0.0327968  0.0416341  -0.788 0.430851
## f.22000.0.069   0.0514264  0.0418283   1.229 0.218900
## f.22000.0.07    0.0013691  0.0409429   0.033 0.973324
## f.22000.0.0-7  -0.0487098  0.0412360  -1.181 0.237508
## f.22000.0.070  -0.0427238  0.0417896  -1.022 0.306614
## f.22000.0.071  -0.0487738  0.0414766  -1.176 0.239623
## f.22000.0.072   0.0220949  0.0417580   0.529 0.596725
## f.22000.0.073   0.0012430  0.0417177   0.030 0.976230
## f.22000.0.074  -0.0634568  0.0420397  -1.509 0.131186
## f.22000.0.075  -0.0435795  0.0414659  -1.051 0.293273
## f.22000.0.076  -0.0373496  0.0420301  -0.889 0.374199
## f.22000.0.077  -0.0469815  0.0417562  -1.125 0.260532
## f.22000.0.078  -0.0064275  0.0414867  -0.155 0.876877
## f.22000.0.079  -0.0202450  0.0414951  -0.488 0.625630
## f.22000.0.08   -0.0256267  0.0409489  -0.626 0.531433
## f.22000.0.0-8  -0.1064053  0.0416357  -2.556 0.010601 *
## f.22000.0.080  -0.0081397  0.0419149  -0.194 0.846024
## f.22000.0.081  -0.0187556  0.0423817  -0.443 0.658100
## f.22000.0.082   0.0256491  0.0419224   0.612 0.540656
## f.22000.0.083  -0.0112009  0.0420426  -0.266 0.789918
## f.22000.0.084   0.0402096  0.0419564   0.958 0.337880
## f.22000.0.085  -0.0285848  0.0417662  -0.684 0.493725
## f.22000.0.086  -0.0743742  0.0419237  -1.774 0.076060 .
## f.22000.0.087  -0.0354885  0.0418813  -0.847 0.396797
## f.22000.0.088  -0.0212875  0.0426477  -0.499 0.617677
## f.22000.0.089  -0.0305004  0.0424526  -0.718 0.472477
## f.22000.0.09   -0.0251763  0.0406677  -0.619 0.535869
```

```
## f.22000.0.0-9  -0.0390713  0.0415947  -0.939 0.347562
## f.22000.0.090  -0.0269021  0.0417897  -0.644 0.519740
## f.22000.0.091  -0.0338663  0.0433008  -0.782 0.434148
## f.22000.0.092   0.0165820  0.0420515   0.394 0.693341
## f.22000.0.093   0.0024028  0.0420649   0.057 0.954448
## f.22000.0.094  -0.0263908  0.0537206  -0.491 0.623243
## f.22000.0.095  -0.0721639  0.0447515  -1.613 0.106846
## f.22001.0.01    0.0100215  0.0059005   1.698 0.089433 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9993 on 116902 degrees of freedom
##   (2837 observations deleted due to missingness)
## Multiple R-squared:  0.002514,   Adjusted R-squared:  0.00143
## F-statistic:  2.32 on 127 and 116902 DF,  p-value: 2.557e-15
```

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            0.00891      0.00409         0.01  <2e-16 ***
## ADE             0.03020      0.01990         0.04  <2e-16 ***
## Total Effect    0.03911      0.02708         0.05  <2e-16 ***
## Prop. Mediated  0.22628      0.12082         0.34  <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            0.00873      0.00415         0.01  <2e-16 ***
## ADE             0.03256      0.02177         0.04  <2e-16 ***
## Total Effect    0.04129      0.02963         0.05  <2e-16 ***
## Prop. Mediated  0.21098      0.10659         0.32  <2e-16 ***
## ---
## 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            0.00304      0.00165         0.00  <2e-16 ***
## ADE             0.02928      0.02140         0.04  <2e-16 ***
## Total Effect    0.03231      0.02403         0.04  <2e-16 ***
## Prop. Mediated  0.09312      0.05244         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.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.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)

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            0.00298      0.00169         0.00  <2e-16 ***
## ADE             0.03206      0.02460         0.04  <2e-16 ***
## Total Effect    0.03504      0.02735         0.04  <2e-16 ***
## Prop. Mediated  0.08549      0.04772         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           0.001824     0.000648         0.00  <2e-16 ***
## ADE            0.030371     0.022244         0.04  <2e-16 ***
## Total Effect   0.032195     0.023946         0.04  <2e-16 ***
## Prop. Mediated 0.056995     0.019593         0.10  <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           0.001726     0.000589         0.00   0.004 **
## ADE            0.033207     0.024808         0.04  <2e-16 ***
## Total Effect   0.034933     0.026428         0.04  <2e-16 ***
## Prop. Mediated 0.049687     0.017509         0.08   0.004 **
## ---
## 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           0.000671     0.000393         0.00  <2e-16 ***
## ADE            0.030860     0.025251         0.04  <2e-16 ***
## Total Effect   0.031532     0.025898         0.04  <2e-16 ***
## Prop. Mediated 0.021101     0.012103         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           0.000631     0.000359         0.00  <2e-16 ***
## ADE            0.033841     0.028085         0.04  <2e-16 ***
## Total Effect   0.034471     0.028772         0.04  <2e-16 ***
## Prop. Mediated 0.018231     0.010644         0.03  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sample Size Used: 117616
##
##
## Simulations: 1000
```

Let's look at centile effects

```
merged$percentile25 = ntile(merged$`0.250000`, 100)
merged$percentile50 = ntile(merged$pgsfive, 100)
```

Average scores for childhood traumatic experiences by percentile

```
childtraumasumaverage <- ddply(merged, "percentile25", 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, "percentile25", 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, "percentile25", 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, "percentile25", 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
```

```
##     percentile25    N          mean        sd         se
## 1              1 1197 -0.0496702470 0.9414326 0.02721085
## 2              2 1193 -0.0223122991 0.9477359 0.02743893
## 3              3 1194 -0.0999549784 0.8830739 0.02555612
## 4              4 1197 -0.0630849744 0.9582324 0.02769643
## 5              5 1197 -0.0203028708 0.9575367 0.02767632
## 6              6 1196 -0.0113695208 1.0003830 0.02892682
## 7              7 1197 -0.0638100948 0.9354533 0.02703803
## 8              8 1197 -0.0493076868 0.9233520 0.02668826
## 9              9 1194 -0.0359840549 0.9600568 0.02778400
## 10            10 1194 -0.0697868724 0.9233574 0.02672192
## 11            11 1196 -0.0458415385 0.9503703 0.02748067
## 12            12 1195 -0.0572594360 0.9656427 0.02793396
## 13            13 1198 -0.0639980330 0.9153579 0.02644615
## 14            14 1197 -0.0406062420 0.9562789 0.02763997
## 15            15 1194 -0.0534306704 0.9569298 0.02769351
## 16            16 1198 -0.0288590494 0.9541231 0.02756614
## 17            17 1196 -0.0371328183 0.9634340 0.02785841
## 18            18 1196 -0.0146352909 1.0090457 0.02917731
## 19            19 1198 -0.0332061401 1.0627405 0.03070427
## 20            20 1197 -0.0304545564 0.9908375 0.02863884
## 21            21 1198 -0.0361042007 0.9572216 0.02765566
## 22            22 1193 -0.0052148353 1.0046608 0.02908702
## 23            23 1198 -0.0419003217 0.9012093 0.02603738
## 24            24 1194 -0.0112680163 0.9801430 0.02836529
## 25            25 1192 -0.0588607831 0.9686177 0.02805526
## 26            26 1196  0.0129423233 0.9791675 0.02831336
## 27            27 1196 -0.0418500418 0.9691383 0.02802336
## 28            28 1195  0.0048421203 1.0315097 0.02983935
## 29            29 1195 -0.0292955773 0.9298434 0.02689836
## 30            30 1194  0.0207174454 1.0161183 0.02940642
## 31            31 1195 -0.0115003945 0.9804092 0.02836112
## 32            32 1196 -0.0371328183 0.9492609 0.02744859
## 33            33 1191 -0.0182206611 1.0084484 0.02922118
## 34            34 1192 -0.0362877607 0.9490765 0.02748926
## 35            35 1195 -0.0463644261 0.9442693 0.02731567
## 36            36 1196  0.0104022799 1.0505065 0.03037618
## 37            37 1193 -0.0154005585 0.9661748 0.02797277
## 38            38 1196  0.0006049696 0.9838514 0.02844880
## 39            39 1197  0.0119649871 1.0058370 0.02907238
```

```
## 39            39 1197  0.0119649871 1.0058570 0.02907258
## 40            40 1197 -0.0003620597 0.9954649 0.02877258
## 41            41 1197 -0.0174023892 0.9833417 0.02842218
## 42            42 1193  0.0162479384 1.0395158 0.03009615
## 43            43 1196  0.0158452300 1.0332704 0.02987779
## 44            44 1195 -0.0794126228 0.9004726 0.02604873
## 45            45 1196  0.0093136898 1.0427612 0.03015222
## 46            46 1193  0.0373469363 1.0145621 0.02937368
## 47            47 1198 -0.0650848057 0.9549076 0.02758881
## 48            48 1194 -0.0079967759 0.9906700 0.02866994
## 49            49 1197  0.0050763433 1.0165087 0.02938083
## 50            50 1195  0.0062947883 1.0384117 0.03003901
## 51            51 1193  0.0220683516 1.0139140 0.02935492
## 52            52 1195  0.0611330046 1.0533774 0.03047194
## 53            53 1194  0.0239886858 1.0350590 0.02995456
## 54            54 1195  0.0171897981 0.9938928 0.02875118
## 55            55 1193 -0.0026684046 0.9999161 0.02894965
## 56            56 1197 -0.0112388658 0.9420781 0.02722951
## 57            57 1195  0.0073842892 1.0547580 0.03051187
## 58            58 1195  0.0397061519 1.0133280 0.02931339
## 59            59 1197  0.0257422747 1.0128652 0.02927552
## 60            60 1195 -0.0162215655 0.9667574 0.02796620
## 61            61 1195 -0.0020580526 0.9518522 0.02753503
## 62            62 1195 -0.0318377463 0.9951789 0.02878838
## 63            63 1195  0.0462431578 1.0771981 0.03116102
## 64            64 1197  0.0609106142 1.0820571 0.03127542
## 65            65 1197  0.0094270657 1.0069845 0.02910554
## 66            66 1195 -0.0006053847 0.9740240 0.02817641
## 67            67 1196  0.0256425403 1.0484477 0.03031665
## 68            68 1197  0.0199413115 1.0399442 0.03005820
## 69            69 1197  0.0116024269 1.0044572 0.02903250
## 70            70 1193  0.0067897669 0.9936651 0.02876867
## 71            71 1198  0.0359850543 1.0564613 0.03052286
## 72            72 1196  0.0303597638 1.0760459 0.03111467
## 73            73 1195  0.0335323130 1.0338630 0.02990743
## 74            74 1194  0.0076324838 0.9493113 0.02747303
## 75            75 1196 -0.0226182845 0.9469536 0.02738187
## 76            76 1190 -0.0015819682 0.9665916 0.02802009
## 77            77 1198 -0.0179913225 0.9249231 0.02672251
## 78            78 1196 -0.0052008440 1.0086212 0.02916504
## 79            79 1195  0.0469694918 1.0755060 0.03111207
## 80            80 1195  0.0131949612 1.0190025 0.02947754
## 81            81 1193 -0.0150367826 0.9851019 0.02852075
## 82            82 1195  0.0328059790 0.9867878 0.02854564
## 83            83 1196  0.0198367268 0.9462831 0.02736248
## 84            84 1197  0.0213915523 1.0219420 0.02953787
## 85            85 1191  0.0258701297 1.0470810 0.03034062
## 86            86 1194  0.0519759648 1.0469626 0.03029905
## 87            87 1196  0.0713633217 1.0739960 0.03105540
## 88            88 1193  0.0235234549 1.0269404 0.02973206
## 89            89 1195  0.0407956529 1.0295776 0.02978346
## 90            90 1196  0.0699118684 1.0998524 0.03180305
## 91            91 1196 -0.0131838375 0.9968615 0.02882499
## 92            92 1195 -0.0024212196 0.9694482 0.02804405
## 93            93 1197  0.0413323633 1.0621268 0.03069936
## 94            94 1194  0.0396179455 1.0576483 0.03060829
## 95            95 1198  0.0827162799 1.0744730 0.03104324
## 96            96 1196  0.0680975516 1.0493436 0.03034255
## 97            97 1195  0.0200951341 0.9874169 0.02856384
## 98            98 1195  0.0397061519 1.0582536 0.03061299
## 99            99 1194  0.1766465713 1.1693098 0.03383977
## 100          100 1196  0.0710004584 1.0813567 0.03126824
```

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

```
felthatedaverage
```

```
##     percentile25    N          mean        sd         se
## 1              1 1199 -0.0632086005 0.9301734 0.02686299
## 2              2 1199 -0.0506707168 0.9115664 0.02632563
## 3              3 1199 -0.0882843679 0.8689602 0.02509518
```

```
## 4              4 1197 -0.0295923699 0.9810255 0.02835523
## 5              5 1199 -0.0062182201 0.9661248 0.02790125
## 6              6 1199 -0.0495309092 0.9389774 0.02711724
## 7              7 1198 -0.0081990878 0.9769509 0.02822567
## 8              8 1199 -0.0518105244 0.9347541 0.02699528
## 9              9 1199 -0.0096376429 1.0138202 0.02927867
## 10            10 1198 -0.0572517262 0.8776754 0.02535744
## 11            11 1199 -0.0780260994 0.8736743 0.02523132
## 12            12 1198 -0.0595332442 0.9098853 0.02628804
## 13            13 1198 -0.0583924852 0.9171870 0.02649900
## 14            14 1199  0.0268362005 1.0592709 0.03059127
## 15            15 1199 -0.0347134103 0.9429791 0.02723281
## 16            16 1198 -0.0504071720 0.8911324 0.02574624
## 17            17 1198 -0.0401403407 0.9411782 0.02719214
## 18            18 1199  0.0154381244 1.0139048 0.02928111
## 19            19 1198 -0.0344365455 0.9822193 0.02837789
## 20            20 1199 -0.0130570658 0.9893506 0.02857200
## 21            21 1199 -0.0677678309 0.8958186 0.02587084
## 22            22 1198 -0.0275919913 0.9408855 0.02718369
## 23            23 1199 -0.0358532179 0.9408974 0.02717269
## 24            24 1199 -0.0404124483 0.9391740 0.02712292
## 25            25 1198 -0.0675185575 0.9185067 0.02653713
## 26            26 1199 -0.0039386049 0.9765113 0.02820121
## 27            27 1199 -0.0290143723 0.9483798 0.02738878
## 28            28 1197  0.0172178240 1.0302408 0.02977773
## 29            29 1199 -0.0221755266 0.9751322 0.02816138
## 30            30 1199  0.0142983168 1.0089400 0.02913773
## 31            31 1198 -0.0127621239 0.9527614 0.02752680
## 32            32 1199 -0.0244551418 0.9711304 0.02804581
## 33            33 1199 -0.0107774505 0.9885328 0.02854838
## 34            34 1197 -0.0398677784 0.9298417 0.02687583
## 35            35 1198 -0.0549702081 0.9387430 0.02712179
## 36            36 1198  0.0157568519 1.0127286 0.02925935
## 37            37 1198 -0.0070583287 1.0149228 0.02932274
## 38            38 1198  0.0089122977 1.0290255 0.02973019
## 39            39 1199  0.0359546614 1.0587872 0.03057730
## 40            40 1197  0.0229263843 1.0212373 0.02951750
## 41            41 1199  0.0154381244 1.0246116 0.02959032
## 42            42 1199  0.0325352386 1.0325162 0.02981860
## 43            43 1198 -0.0081990878 0.9912206 0.02863795
## 44            44 1199 -0.0848649450 0.8169650 0.02359358
## 45            45 1198  0.0260236832 1.0666785 0.03081805
## 46            46 1198  0.0385720326 1.0743900 0.03104085
## 47            47 1199 -0.0335736027 0.9630298 0.02781187
## 48            48 1199 -0.0244551418 0.9695238 0.02799941
## 49            49 1198  0.0499796229 1.0973731 0.03170486
## 50            50 1198 -0.0161844010 0.9564758 0.02763412
## 51            51 1199  0.0279760081 1.0190828 0.02943065
## 52            52 1197  0.0526108975 1.0883200 0.03145644
## 53            53 1198 -0.0264512323 0.9462624 0.02733904
## 54            54 1199  0.0051798560 0.9999406 0.02887783
## 55            55 1198  0.0214606471 1.0128694 0.02926342
## 56            56 1199 -0.0518105244 0.9042352 0.02611391
## 57            57 1199 -0.0050784125 1.0029191 0.02896385
## 58            58 1198  0.0032085026 1.0212061 0.02950428
## 59            59 1199  0.0017604331 1.0158906 0.02933846
## 60            60 1198  0.0214606471 1.0251191 0.02961733
## 61            61 1197 -0.0113249772 0.9567688 0.02765413
## 62            62 1199 -0.0233153342 0.9842844 0.02842569
## 63            63 1199  0.0439333146 1.0652736 0.03076462
## 64            64 1198  0.0374312736 1.0550399 0.03048179
## 65            65 1199  0.0530517755 1.0992283 0.03174522
## 66            66 1199  0.0131585092 1.0300097 0.02974622
## 67            67 1198  0.0317274784 1.0520291 0.03039480
## 68            68 1199  0.0006206255 0.9906692 0.02861008
## 69            69 1199 -0.0233153342 0.9471547 0.02735340
## 70            70 1197 -0.0056164169 0.9860117 0.02849935
## 71            71 1199  0.0302556233 1.0303732 0.02975671
## 72            72 1198  0.0168976110 1.0344051 0.02988562
## 73            73 1197  0.0023755674 1.0011496 0.02893689
## 74            74 1199  0.0097390864 0.9386713 0.02710840
## 75            75 1199 -0.0187561038 0.9858499 0.02847090
## 76            76 1198  0.0168976110 1.0404212 0.03005943
```

```
## 77            77 1199 -0.0039386049 0.9939176 0.02870389
## 78            78 1199  0.0359546614 1.0379684 0.02997606
## 79            79 1198  0.0556834181 1.0973250 0.03170348
## 80            80 1199  0.0439333146 1.0841317 0.03130924
## 81            81 1198  0.0271644423 1.0418330 0.03010022
## 82            82 1198  0.0214606471 1.0035840 0.02899515
## 83            83 1199 -0.0187561038 0.9322051 0.02692166
## 84            84 1199  0.0416536994 1.0394956 0.03002016
## 85            85 1197  0.0046589915 1.0219269 0.02953743
## 86            86 1199  0.0154381244 1.0397157 0.03002652
## 87            87 1198  0.0739355626 1.1113852 0.03210970
## 88            88 1198  0.0134753339 1.0105039 0.02919507
## 89            89 1199  0.0256963929 1.0381426 0.02998109
## 90            90 1199  0.0484925451 1.0546726 0.03045847
## 91            91 1197 -0.0067581290 0.9872203 0.02853428
## 92            92 1199  0.0063196636 0.9861690 0.02848012
## 93            93 1198  0.0408535507 1.0922577 0.03155707
## 94            94 1198  0.0579649362 1.0849998 0.03134738
## 95            95 1199  0.0587508135 1.0805686 0.03120633
## 96            96 1199  0.0473527375 1.0364867 0.02993327
## 97            97 1198  0.0168976110 1.0253148 0.02962298
## 98            98 1199  0.0142983168 1.0423798 0.03010346
## 99            99 1197  0.1690655264 1.2084999 0.03493008
## 100          100 1198  0.0613872133 1.0742542 0.03103692
```

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

```
feltlovedaverage
```

```
##     percentile25    N          mean        sd         se
## 1              1 1197 -6.134201e-02 0.9689050 0.02800491
## 2              2 1193 -5.891016e-02 0.9406467 0.02723368
## 3              3 1194 -1.148441e-01 0.9291775 0.02689036
## 4              4 1197 -6.484587e-02 0.9809365 0.02835266
## 5              5 1197 -2.893129e-02 0.9692220 0.02801407
## 6              6 1196 -8.133697e-03 0.9850494 0.02848344
## 7              7 1197 -6.484587e-02 0.9724660 0.02810783
## 8              8 1197 -9.660045e-03 1.0118189 0.02924528
## 9              9 1194 -4.371265e-02 0.9745414 0.02820318
## 10            10 1194 -6.127598e-02 0.9486691 0.02745444
## 11            11 1196 -3.618803e-02 0.9769193 0.02824835
## 12            12 1195 -6.627014e-02 0.9686240 0.02802020
## 13            13 1198 -2.431236e-02 0.9408380 0.02718232
## 14            14 1197 -6.134201e-02 0.9651026 0.02789500
## 15            15 1194 -4.371265e-02 0.9997474 0.02893264
## 16            16 1198 -2.431502e-03 0.9866437 0.02850571
## 17            17 1196 -9.010395e-03 0.9852755 0.02848998
## 18            18 1196 -2.917445e-02 1.0031688 0.02900737
## 19            19 1198 -5.932173e-02 1.0135986 0.02928449
## 20            20 1197 -4.820253e-02 1.0025058 0.02897609
## 21            21 1198 -5.231986e-02 0.9695294 0.02801126
## 22            22 1193  1.755436e-02 0.9958443 0.02883176
## 23            23 1198 -1.468478e-02 0.9944224 0.02873045
## 24            24 1194 -5.951498e-03 1.0109839 0.02925783
## 25            25 1192 -9.260560e-02 0.9239270 0.02676083
## 26            26 1196  2.386678e-03 0.9841432 0.02845723
## 27            27 1196 -2.742105e-02 0.9748462 0.02818841
## 28            28 1195  4.146577e-04 1.0208035 0.02952964
## 29            29 1195 -4.849932e-03 0.9722843 0.02812609
## 30            30 1194  3.971316e-02 1.0138519 0.02934083
## 31            31 1195  2.169521e-03 0.9722922 0.02812632
## 32            32 1196 -5.985887e-02 0.9689000 0.02801647
## 33            33 1191 -3.479827e-02 0.9724833 0.02817904
## 34            34 1192 -4.598469e-02 0.9897610 0.02866766
## 35            35 1195 -1.713397e-02 0.9467158 0.02738645
## 36            36 1196 -1.076379e-02 1.0115210 0.02924888
## 37            37 1193  1.843326e-02 0.9787792 0.02833770
## 38            38 1196  2.079733e-02 1.0276006 0.02971384
## 39            39 1197  8.515409e-04 0.9972207 0.02882333
## 40            40 1197 -9.660045e-03 0.9869844 0.02852747
## 41            41 1197 -2.104760e-02 1.0118758 0.02924692
```

```
## 41            41 1197 -2.104760e-02 1.0118758 0.02924692
## 42            42 1193 -8.812716e-03 1.0247225 0.02966785
## 43            43 1196  1.466045e-02 1.0066792 0.02910888
## 44            44 1195 -5.486353e-02 0.9897797 0.02863219
## 45            45 1196  2.518082e-02 1.0272775 0.02970450
## 46            46 1193  3.864802e-02 1.0181481 0.02947751
## 47            47 1198 -4.794369e-02 0.9494151 0.02743012
## 48            48 1194  1.424633e-02 1.0265012 0.02970690
## 49            49 1197 -3.856691e-02 0.9837181 0.02843306
## 50            50 1195  4.146577e-04 1.0090091 0.02918846
## 51            51 1193 -1.760174e-02 0.9818612 0.02842693
## 52            52 1195  5.393798e-02 1.0405957 0.03010219
## 53            53 1194  1.600266e-02 1.0133733 0.02932698
## 54            54 1195  3.375706e-02 1.0224907 0.02957845
## 55            55 1193 -5.297105e-03 1.0038311 0.02906300
## 56            56 1197  1.399102e-02 0.9683564 0.02798905
## 57            57 1195 -6.604795e-03 1.0089893 0.02918788
## 58            58 1195  2.498274e-02 0.9995235 0.02891406
## 59            59 1197  6.830088e-02 1.0398139 0.03005443
## 60            60 1195  5.679247e-03 0.9807634 0.02837137
## 61            61 1195 -3.972500e-03 0.9852236 0.02850039
## 62            62 1195 -1.713397e-02 0.9895157 0.02862456
## 63            63 1195  1.884072e-02 1.0382903 0.03003550
## 64            64 1197  5.340947e-02 1.0618934 0.03069261
## 65            65 1197 -2.104760e-02 0.9935406 0.02871696
## 66            66 1195 -1.011452e-02 1.0007139 0.02894849
## 67            67 1196  2.605752e-02 0.9914800 0.02866938
## 68            68 1197  2.888244e-02 1.0105339 0.02920813
## 69            69 1197  6.304509e-02 1.0343869 0.02989757
## 70            70 1193 -8.812716e-03 0.9908601 0.02868746
## 71            71 1198  2.645123e-02 1.0035936 0.02899543
## 72            72 1196  3.131771e-02 1.0092614 0.02918355
## 73            73 1195  1.006640e-02 1.0018589 0.02898162
## 74            74 1194  7.220999e-03 0.9890862 0.02862411
## 75            75 1196 -2.040747e-02 0.9511345 0.02750276
## 76            76 1190  1.078261e-03 1.0123559 0.02934673
## 77            77 1198  7.196076e-03 0.9933444 0.02869931
## 78            78 1196 -4.144822e-02 0.9939848 0.02874181
## 79            79 1195  3.814421e-02 1.0239102 0.02961951
## 80            80 1195 -2.152113e-02 0.9924510 0.02870947
## 81            81 1193 -4.660552e-02 0.9707583 0.02810547
## 82            82 1195  4.340880e-02 0.9903245 0.02864795
## 83            83 1196  4.797497e-02 1.0242163 0.02961598
## 84            84 1197 -2.442459e-05 0.9956068 0.02877669
## 85            85 1191  2.330671e-02 1.0077969 0.02920231
## 86            86 1194  6.254548e-02 1.0374167 0.03002279
## 87            87 1196  8.742638e-02 1.0506733 0.03038100
## 88            88 1193  2.810119e-02 1.0212097 0.02956615
## 89            89 1195  6.008000e-02 1.0289099 0.02976414
## 90            90 1196  3.920799e-02 1.0339770 0.02989822
## 91            91 1196 -1.427058e-02 0.9847476 0.02847471
## 92            92 1195 -1.099195e-02 0.9944745 0.02876800
## 93            93 1197  6.304509e-02 1.0520105 0.03040696
## 94            94 1194  2.829699e-02 1.0162801 0.02941110
## 95            95 1198  1.174756e-01 1.0604092 0.03063692
## 96            96 1196  8.742638e-02 1.0231684 0.02958568
## 97            97 1195  3.200219e-02 1.0256944 0.02967113
## 98            98 1195  3.726678e-02 1.0096802 0.02920787
## 99            99 1194  1.591438e-01 1.0960297 0.03171905
## 100          100 1196  4.885167e-02 1.0653426 0.03080518
```

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

```
physicalabuseaverage
```

```
##     percentile25    N          mean        sd         se
## 1              1 1199 -0.0347756756 0.9406568 0.02716574
## 2              2 1199 -0.0101339105 0.9800404 0.02830312
## 3              3 1199 -0.0762775959 0.9042003 0.02611290
## 4              4 1197 -0.0523325135 0.9569130 0.02765829
## 5              5 1199  0.0028354396 0.9662949 0.02790616
```

```
## 6              6 1199  0.0132109197 1.0188386 0.02942360
## 7              7 1198 -0.0072022744 0.9977029 0.02882523
## 8              8 1199 -0.0671990509 0.8860879 0.02558982
## 9              9 1199 -0.0334787406 0.9707671 0.02803532
## 10            10 1198 -0.0305665911 0.9866114 0.02850478
## 11            11 1199 -0.0529327658 0.9196425 0.02655886
## 12            12 1198 -0.0227784855 0.9937775 0.02871182
## 13            13 1198 -0.0617190133 0.9201832 0.02658557
## 14            14 1199  0.0106170497 1.0317245 0.02979574
## 15            15 1199 -0.0607143758 0.9116430 0.02632784
## 16            16 1198 -0.0240765031 0.9706393 0.02804332
## 17            17 1198 -0.0487388374 0.9455298 0.02731787
## 18            18 1199  0.0132109197 1.0286965 0.02970829
## 19            19 1198 -0.0046062392 1.0107333 0.02920170
## 20            20 1199 -0.0088369755 0.9928109 0.02867193
## 21            21 1199 -0.0399634157 0.9554835 0.02759393
## 22            22 1198 -0.0149903800 1.0088731 0.02914796
## 23            23 1199 -0.0334787406 0.9106897 0.02630031
## 24            24 1199  0.0041323746 0.9874382 0.02851677
## 25            25 1198 -0.0188844327 0.9706288 0.02804302
## 26            26 1199  0.0002415696 1.0182320 0.02940608
## 27            27 1199 -0.0477450257 0.9109743 0.02630853
## 28            28 1197 -0.0211540658 1.0087640 0.02915698
## 29            29 1199 -0.0295879356 0.9471203 0.02735241
## 30            30 1199 -0.0373695457 0.9607914 0.02774722
## 31            31 1198 -0.0357586614 0.9447198 0.02729447
## 32            32 1199 -0.0464480907 0.9137733 0.02638936
## 33            33 1199 -0.0088369755 1.0307156 0.02976660
## 34            34 1197  0.0113234838 1.0026371 0.02897989
## 35            35 1198 -0.0811892772 0.9219088 0.02663542
## 36            36 1198 -0.0110963272 1.0123312 0.02924787
## 37            37 1198 -0.0357586614 0.9208977 0.02660621
## 38            38 1198 -0.0370566790 0.9377264 0.02709242
## 39            39 1199 -0.0114308455 0.9566069 0.02762638
## 40            40 1197 -0.0133594539 0.9750837 0.02818349
## 41            41 1199 -0.0542297008 0.9321353 0.02691965
## 42            42 1199  0.0158047897 1.0868050 0.03138644
## 43            43 1198 -0.0072022744 1.0057695 0.02905829
## 44            44 1199 -0.0581205058 0.9194612 0.02655363
## 45            45 1198  0.0109699719 1.0143139 0.02930515
## 46            46 1198 -0.0240765031 0.9559596 0.02761920
## 47            47 1199 -0.0334787406 0.9749167 0.02815516
## 48            48 1199  0.0209925297 1.0055650 0.02904026
## 49            49 1198  0.0239501478 1.0067917 0.02908782
## 50            50 1198 -0.0175864151 0.9835439 0.02841616
## 51            51 1199 -0.0049461704 1.0103800 0.02917932
## 52            52 1197  0.0412028294 1.0633415 0.03073447
## 53            53 1198  0.0031818663 0.9995030 0.02887724
## 54            54 1199  0.0287741398 1.0141866 0.02928925
## 55            55 1198 -0.0033082216 1.0191675 0.02944538
## 56            56 1199 -0.0062431054 0.9815234 0.02834595
## 57            57 1199  0.0495250999 1.0952451 0.03163019
## 58            58 1198  0.0330362709 1.0118280 0.02923333
## 59            59 1199  0.0171017247 1.0042231 0.02900151
## 60            60 1198 -0.0331626263 0.9285746 0.02682801
## 61            61 1197 -0.0068639440 0.9650947 0.02789477
## 62            62 1199 -0.0334787406 0.9412079 0.02718166
## 63            63 1199  0.0430404249 1.0442515 0.03015751
## 64            64 1198  0.0421223941 1.0403270 0.03005671
## 65            65 1199  0.0339618798 1.0198609 0.02945312
## 66            66 1199  0.0093201147 1.0253888 0.02961277
## 67            67 1198 -0.0085002920 1.0152852 0.02933321
## 68            68 1199  0.0054293096 0.9919899 0.02864822
## 69            69 1199  0.0391496199 1.0622171 0.03067635
## 70            70 1197  0.0178189937 1.0346480 0.02990512
## 71            71 1199  0.0261802698 1.0310928 0.02977750
## 72            72 1198  0.0083739367 1.0544337 0.03046428
## 73            73 1197  0.0282118096 1.0631016 0.03072753
## 74            74 1199  0.0209925297 1.0135623 0.02927122
## 75            75 1199  0.0248833348 0.9907231 0.02861164
## 76            76 1198 -0.0383546966 0.9436125 0.02726247
## 77            77 1199  0.0119139847 1.0003920 0.02889087
## 78            78 1199 -0.0114308455 0.9938617 0.02870228
```

```
## 79            79 1198  0.0343342885 1.0685623 0.03087248
## 80            80 1199  0.0002415696 0.9982121 0.02882792
## 81            81 1198  0.0161620422 0.9960351 0.02877705
## 82            82 1198  0.0291422182 1.0025116 0.02896416
## 83            83 1199  0.0067262446 0.9380923 0.02709168
## 84            84 1199  0.0767607351 1.0935500 0.03158123
## 85            85 1197  0.0061270758 1.0306439 0.02978939
## 86            86 1199  0.0521189699 1.0623232 0.03067942
## 87            87 1198  0.0369303237 1.0503028 0.03034493
## 88            88 1198  0.0564005876 1.0542841 0.03045995
## 89            89 1199  0.0456342949 1.0314405 0.02978754
## 90            90 1199  0.0663852550 1.1589448 0.03346980
## 91            91 1197 -0.0159576579 0.9615353 0.02779189
## 92            92 1199  0.0417434899 1.0164184 0.02935370
## 93            93 1198  0.0239501478 1.0595833 0.03061306
## 94            94 1198  0.0213541126 1.0257931 0.02963680
## 95            95 1199  0.0171017247 1.0300212 0.02974655
## 96            96 1199  0.0158047897 1.0451475 0.03018339
## 97            97 1198  0.0174600598 0.9718581 0.02807853
## 98            98 1199  0.0586036450 1.0922946 0.03154498
## 99            99 1197  0.1646175179 1.1856609 0.03426995
## 100          100 1198  0.0784668867 1.0775135 0.03113109
```

Average scores for adult self-harm experiences by percentile

```
selfharmscoreaverage <- ddply(merged, "percentile50", 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, "percentile50", 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, "percentile50", 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, "percentile50", 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, "percentile50", 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
```

```
##     percentile50    N         mean        sd         se
## 1              1 1171 -0.077989182 0.9154694 0.02675256
## 2              2 1183 -0.061392238 0.9496175 0.02760936
## 3              3 1181 -0.053889521 0.9614693 0.02797760
```

```
## 3              3 1181  0.053869521 0.9614093 0.02797760
## 4              4 1186 -0.046700826 1.0042590 0.02916107
## 5              5 1179 -0.080465530 0.9385166 0.02733286
## 6              6 1187 -0.059384658 0.9683963 0.02810786
## 7              7 1173 -0.104558451 0.8773505 0.02561676
## 8              8 1185 -0.096203337 0.9096284 0.02642438
## 9              9 1184 -0.042965654 0.9718487 0.02824378
## 10            10 1180 -0.030724648 0.9850014 0.02867450
## 11            11 1186 -0.073069741 0.9326262 0.02708103
## 12            12 1182 -0.028823569 0.9747415 0.02835180
## 13            13 1183  0.023579925 1.0136760 0.02947181
## 14            14 1183 -0.023626832 0.9679556 0.02814253
## 15            15 1180 -0.008954332 0.9955923 0.02898281
## 16            16 1183 -0.080274941 0.9227449 0.02682806
## 17            17 1185 -0.061329296 0.9311623 0.02704993
## 18            18 1183 -0.074610130 0.9523362 0.02768840
## 19            19 1183 -0.016073751 0.9525348 0.02769418
## 20            20 1182 -0.032603305 0.9844208 0.02863334
## 21            21 1182 -0.090244273 0.8813377 0.02563502
## 22            22 1184 -0.021268887 0.9828166 0.02856253
## 23            23 1179 -0.069097470 0.9391308 0.02735075
## 24            24 1184 -0.020325549 0.9785122 0.02843743
## 25            25 1176  0.011042035 1.0225438 0.02981798
## 26            26 1180 -0.082784100 0.9347259 0.02721092
## 27            27 1180 -0.021259293 0.9698644 0.02823384
## 28            28 1178 -0.010824905 1.0130787 0.02951689
## 29            29 1181  0.013257594 1.0178298 0.02961763
## 30            30 1174  0.019664257 1.0238628 0.02988187
## 31            31 1177 -0.007492309 0.9738264 0.02838529
## 32            32 1181 -0.041594979 0.9562600 0.02782602
## 33            33 1182 -0.030713437 0.9703860 0.02822512
## 34            34 1185  0.009361329 0.9851828 0.02861921
## 35            35 1185 -0.029282879 0.9825259 0.02854203
## 36            36 1180 -0.024098900 0.9893111 0.02879996
## 37            37 1185  0.009361329 1.0073914 0.02926436
## 38            38 1179  0.011426287 0.9878873 0.02877071
## 39            39 1174 -0.012682424 1.0016422 0.02923335
## 40            40 1179 -0.036887967 0.9557622 0.02783511
## 41            41 1182  0.061890085 1.0850078 0.03155906
## 42            42 1182 -0.054336785 0.9764494 0.02840148
## 43            43 1174 -0.032661257 0.9931405 0.02898522
## 44            44 1182  0.008028853 1.0062248 0.02926754
## 45            45 1180 -0.032617719 0.9871329 0.02873655
## 46            46 1187 -0.027392237 1.0000170 0.02902565
## 47            47 1181  0.021769200 1.0091350 0.02936462
## 48            48 1179  0.044583128 1.0292233 0.02997455
## 49            49 1178  0.011930515 1.0250088 0.02986448
## 50            50 1182 -0.015594495 0.9660073 0.02809776
## 51            51 1179  0.010478949 1.0133210 0.02951142
## 52            52 1178  0.010034230 1.0209295 0.02974562
## 53            53 1178  0.016671228 1.0289595 0.02997959
## 54            54 1181 -0.009440023 1.0079758 0.02933089
## 55            55 1181 -0.027408969 0.9890199 0.02877929
## 56            56 1178  0.026152653 1.0098207 0.02942196
## 57            57 1183  0.029244736 1.0227236 0.02973486
## 58            58 1178 -0.029787755 0.9693097 0.02824164
## 59            59 1174  0.088163111 1.0902367 0.03181902
## 60            60 1185  0.011246413 0.9989243 0.02901839
## 61            61 1182 -0.040162776 0.9886095 0.02875518
## 62            62 1181 -0.021734565 0.9943529 0.02893447
## 63            63 1184  0.019294636 1.0463325 0.03040842
## 64            64 1182  0.052440746 1.0236198 0.02977350
## 65            65 1181 -0.001874150 0.9962317 0.02898915
## 66            66 1183  0.043406763 1.0218859 0.02971050
## 67            67 1182  0.052440746 1.0531206 0.03063158
## 68            68 1178  0.011930515 0.9956350 0.02900865
## 69            69 1183 -0.006632400 0.9710641 0.02823290
## 70            70 1177 -0.019828633 0.9717780 0.02832558
## 71            71 1179  0.064477233 1.0470965 0.03049508
## 72            72 1189  0.034611775 1.0154502 0.02944881
## 73            73 1179  0.037951760 1.0316997 0.03004667
## 74            74 1185  0.013131496 1.0062124 0.02923011
## 75            75 1183  0.003753087 0.9837806 0.02860262
```

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## 76            76 1171 -0.027437236 0.9767295 0.02854275
## 77            77 1189  0.061853528 1.0640501 0.03085824
## 78            78 1182  0.039211672 1.0224598 0.02973976
## 79            79 1184  0.057971483 1.0348787 0.03007555
## 80            80 1180  0.031746694 1.0078802 0.02934053
## 81            81 1174  0.046302700 1.0460270 0.03052874
## 82            82 1181  0.037846678 1.0280039 0.02991368
## 83            83 1176  0.053781010 1.0659802 0.03108461
## 84            84 1187  0.035651651 1.0024403 0.02909599
## 85            85 1182  0.022202861 1.0088179 0.02934297
## 86            86 1186  0.048415615 1.0380155 0.03014127
## 87            87 1181 -0.006602820 1.0047790 0.02923786
## 88            88 1183  0.080228033 1.0752321 0.03126150
## 89            89 1182  0.015588324 0.9911450 0.02882893
## 90            90 1181  0.019877732 0.9912512 0.02884422
## 91            91 1176  0.029087380 1.0290113 0.03000658
## 92            92 1178  0.018567513 1.0278519 0.02994732
## 93            93 1172  0.020691935 1.0171285 0.02971064
## 94            94 1180  0.066768507 1.0302760 0.02999249
## 95            95 1187  0.048825001 1.0467568 0.03038229
## 96            96 1173  0.049695363 1.0077639 0.02942455
## 97            97 1181  0.059598561 1.0698319 0.03113082
## 98            98 1181  0.090807783 1.0589720 0.03081481
## 99            99 1174  0.080552128 1.0623489 0.03100510
## 100          100 1174  0.120509793 1.0834755 0.03162169
```

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

```
selfharmideationaverage
```

```
##     percentile50    N          mean        sd         se
## 1              1 1172 -0.0643809350 0.9307437 0.02718731
## 2              2 1184 -0.0518531308 0.9606716 0.02791895
## 3              3 1182 -0.0653018609 0.9307523 0.02707231
## 4              4 1186 -0.0540018298 0.9893914 0.02872935
## 5              5 1181 -0.0739955465 0.9437930 0.02746324
## 6              6 1187 -0.0440666944 0.9933120 0.02883104
## 7              7 1175 -0.1003056388 0.8845379 0.02580462
## 8              8 1185 -0.1035152703 0.8946546 0.02598940
## 9              9 1185 -0.0341204431 0.9871518 0.02867641
## 10            10 1182 -0.0282406973 0.9909328 0.02882275
## 11            11 1187 -0.0712598898 0.9179108 0.02664251
## 12            12 1185 -0.0075299018 1.0021324 0.02911159
## 13            13 1184  0.0208457947 1.0137805 0.02946240
## 14            14 1183 -0.0325859622 0.9656588 0.02807575
## 15            15 1181  0.0021417822 1.0134049 0.02948886
## 16            16 1183 -0.0663675665 0.9486255 0.02758052
## 17            17 1189 -0.0526867489 0.9306301 0.02698896
## 18            18 1186 -0.0747379241 0.9326155 0.02708072
## 19            19 1184 -0.0148545705 0.9661780 0.02807898
## 20            20 1183 -0.0325859622 0.9800408 0.02849389
## 21            21 1182 -0.0978116535 0.8713431 0.02534431
## 22            22 1185 -0.0263378456 0.9784045 0.02842230
## 23            23 1182 -0.0535983356 0.9600250 0.02792375
## 24            24 1185 -0.0114212005 1.0151293 0.02948914
## 25            25 1180  0.0273653744 1.0504448 0.03057963
## 26            26 1184 -0.0687296671 0.9724596 0.02826153
## 27            27 1180 -0.0175741792 0.9737183 0.02834603
## 28            28 1179 -0.0210273286 0.9975052 0.02905081
## 29            29 1185  0.0236004880 1.0371997 0.03013028
## 30            30 1175  0.0115402217 0.9990330 0.02914479
## 31            31 1178 -0.0016522129 0.9997569 0.02912874
## 32            32 1184 -0.0271874240 0.9701813 0.02819532
## 33            33 1183 -0.0384327784 0.9685589 0.02816007
## 34            34 1185  0.0067381935 0.9896357 0.02874857
## 35            35 1187 -0.0246429834 0.9774316 0.02837011
## 36            36 1185 -0.0224465469 0.9854347 0.02862653
## 37            37 1186  0.0185745005 1.0149235 0.02947074
## 38            38 1179  0.0226466412 1.0183124 0.02965679
## 39            39 1179  0.0043948329 1.0245974 0.02983983
## 40            40 1179 -0.0229828794 0.9645868 0.02809211
```

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## 41            41 1182  0.0491326091 1.0604436 0.03084458
## 42            42 1183 -0.0520753493 0.9708762 0.02822744
## 43            43 1176 -0.0294614732 0.9948288 0.02900980
## 44            44 1184  0.0130566241 1.0078383 0.02928970
## 45            45 1181 -0.0336492697 0.9788692 0.02848392
## 46            46 1187 -0.0220531553 1.0066582 0.02921842
## 47            47 1181  0.0242671598 1.0088267 0.02935565
## 48            48 1182  0.0406800631 1.0189259 0.02963697
## 49            49 1179  0.0213429406 1.0366160 0.03018985
## 50            50 1183 -0.0169944526 0.9564894 0.02780915
## 51            51 1181 -0.0128253850 0.9606774 0.02795456
## 52            52 1178 -0.0003474056 1.0100200 0.02942777
## 53            53 1179  0.0219947909 1.0350411 0.03014399
## 54            54 1182 -0.0360430475 0.9503327 0.02764184
## 55            55 1182 -0.0288908932 0.9890072 0.02876674
## 56            56 1180  0.0306218638 1.0286063 0.02994389
## 57            57 1187  0.0349230636 1.0385218 0.03014326
## 58            58 1179 -0.0249384303 0.9839283 0.02865541
## 59            59 1178  0.0668501702 1.0667210 0.03107980
## 60            60 1185 -0.0036386031 0.9675315 0.02810645
## 61            61 1185 -0.0477399886 0.9727019 0.02825665
## 62            62 1183 -0.0137462214 0.9948866 0.02892552
## 63            63 1186  0.0198705064 1.0461197 0.03037659
## 64            64 1183  0.0408240625 1.0160508 0.02954085
## 65            65 1183  0.0005459958 1.0069829 0.02927721
## 66            66 1184  0.0409678187 1.0341450 0.03005423
## 67            67 1184  0.0558970623 1.0633592 0.03090325
## 68            68 1180  0.0065238423 0.9736801 0.02834492
## 69            69 1183 -0.0124469289 0.9697488 0.02819466
## 70            70 1177 -0.0266453144 0.9808239 0.02858925
## 71            71 1181  0.0737238862 1.0769908 0.03133914
## 72            72 1189  0.0352192929 1.0290120 0.02984211
## 73            73 1182  0.0159726207 0.9995834 0.02907437
## 74            74 1187  0.0090247823 0.9874719 0.02866153
## 75            75 1183  0.0044438732 0.9933072 0.02887960
## 76            76 1174 -0.0167786416 1.0022296 0.02925049
## 77            77 1190  0.0418252820 1.0296748 0.02984878
## 78            78 1184  0.0338277456 1.0082399 0.02930138
## 79            79 1186  0.0723587453 1.0546051 0.03062298
## 80            80 1181  0.0281716382 0.9970700 0.02901354
## 81            81 1178  0.0648929592 1.0666896 0.03107888
## 82            82 1182  0.0127216414 0.9876141 0.02872622
## 83            83 1179  0.0402465992 1.0435102 0.03039064
## 84            84 1189  0.0294019813 1.0067426 0.02919628
## 85            85 1184  0.0299331603 1.0325100 0.03000671
## 86            86 1188  0.0311898307 1.0097214 0.02929499
## 87            87 1182 -0.0087348217 1.0251457 0.02981789
## 88            88 1183  0.0765546055 1.0829018 0.03148449
## 89            89 1185  0.0320316352 1.0190526 0.02960312
## 90            90 1184  0.0098111363 0.9746974 0.02832657
## 91            91 1177  0.0275501947 1.0186244 0.02969107
## 92            92 1179  0.0174318388 1.0334691 0.03009821
## 93            93 1175  0.0318163719 1.0278936 0.02998674
## 94            94 1180  0.0501608002 1.0235585 0.02979694
## 95            95 1189  0.0242310376 0.9888459 0.02867726
## 96            96 1175  0.0377029961 0.9902837 0.02888954
## 97            97 1181  0.0685179150 1.0711860 0.03117022
## 98            98 1184  0.0922465250 1.0754882 0.03125574
## 99            99 1176  0.0940525175 1.0812463 0.03152978
## 100          100 1177  0.1039462739 1.0480866 0.03054984
```

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

```
lifenotworthlivingaverage
```

```
##     percentile50    N         mean        sd         se
## 1              1 1190 -0.034186535 0.9851383 0.02855773
## 2              2 1192 -0.062596171 0.9713431 0.02813420
## 3              3 1192 -0.046181238 0.9794378 0.02836865
## 4              4 1190 -0.072552418 0.9662650 0.02801062
## 5              5 1192 -0.069891697 0.9676342 0.02802677
```

```
## 5              5 1192 -0.009891097 0.9670542 0.02802677
## 6              6 1196 -0.062779170 0.9712495 0.02808441
## 7              7 1187 -0.067402491 0.9689092 0.02812274
## 8              8 1188 -0.089862278 0.9571249 0.02776901
## 9              9 1192 -0.046181238 0.9794378 0.02836865
## 10            10 1192 -0.029766305 0.9871930 0.02859328
## 11            11 1196 -0.070050296 0.9675515 0.02797747
## 12            12 1194 -0.016256751 0.9933259 0.02874681
## 13            13 1192  0.030421783 1.0128467 0.02933632
## 14            14 1193 -0.023005866 0.9902898 0.02867095
## 15            15 1191 -0.010982317 0.9956616 0.02885067
## 16            16 1191 -0.076697179 0.9641122 0.02793648
## 17            17 1197 -0.039667376 0.9825537 0.02839940
## 18            18 1194 -0.081806501 0.9614265 0.02782364
## 19            19 1191  0.009097225 1.0042461 0.02909942
## 20            20 1192 -0.018823016 0.9921785 0.02873768
## 21            21 1191 -0.054792225 0.9752347 0.02825877
## 22            22 1193 -0.028472924 0.9877896 0.02859856
## 23            23 1195 -0.051362893 0.9769186 0.02826015
## 24            24 1193 -0.019361161 0.9919364 0.02871862
## 25            25 1188 -0.007511267 0.9971808 0.02893115
## 26            26 1192 -0.095426038 0.9541002 0.02763477
## 27            27 1195 -0.002241721 0.9994557 0.02891210
## 28            28 1189 -0.020860119 0.9912626 0.02874735
## 29            29 1191  0.005446399 1.0027207 0.02905521
## 30            30 1186  0.019253969 1.0084099 0.02928160
## 31            31 1190  0.011487135 1.0052366 0.02914035
## 32            32 1193 -0.039407040 0.9826786 0.02845059
## 33            33 1193 -0.028472924 0.9877896 0.02859856
## 34            34 1193  0.006151776 1.0030159 0.02903940
## 35            35 1192 -0.027942424 0.9880341 0.02861764
## 36            36 1191 -0.032887271 0.9857447 0.02856331
## 37            37 1197  0.014820511 1.0066040 0.02909454
## 38            38 1191  0.038303830 1.0158944 0.02943694
## 39            39 1187 -0.003297744 0.9990048 0.02899627
## 40            40 1190 -0.004955386 0.9982888 0.02893895
## 41            41 1194  0.020159777 1.0087724 0.02919383
## 42            42 1193 -0.057630566 0.9738277 0.02819434
## 43            43 1189 -0.040973435 0.9819357 0.02847686
## 44            44 1194  0.007413992 1.0035436 0.02904251
## 45            45 1191 -0.027411032 0.9882788 0.02863674
## 46            46 1190 -0.056109897 0.9745835 0.02825176
## 47            47 1190  0.031583550 1.0133010 0.02937413
## 48            48 1188  0.040069318 1.0165684 0.02949364
## 49            49 1190  0.015141028 1.0067375 0.02918386
## 50            50 1193  0.007974129 1.0037778 0.02906145
## 51            51 1194  0.009234819 1.0043022 0.02906446
## 52            52 1194  0.007413992 1.0035436 0.02904251
## 53            53 1189  0.017538032 1.0077141 0.02922445
## 54            54 1194 -0.019898404 0.9916944 0.02869959
## 55            55 1189 -0.050115852 0.9775298 0.02834909
## 56            56 1193  0.038954124 1.0161420 0.02941942
## 57            57 1195  0.019589912 1.0085423 0.02917495
## 58            58 1192 -0.033414068 0.9854986 0.02854420
## 59            59 1191  0.041954656 1.0172821 0.02947715
## 60            60 1191  0.021875115 1.0094628 0.02925058
## 61            61 1190 -0.063417684 0.9709296 0.02814584
## 62            62 1195 -0.031350564 0.9864581 0.02853610
## 63            63 1194 -0.007152619 0.9973347 0.02886282
## 64            64 1190  0.066295539 1.0261541 0.02974672
## 65            65 1189 -0.006232252 0.9977362 0.02893509
## 66            66 1193  0.035309419 1.0147443 0.02937896
## 67            67 1188  0.008958936 1.0041896 0.02913450
## 68            68 1189  0.013881065 1.0062220 0.02918118
## 69            69 1191  0.009097225 1.0042461 0.02909942
## 70            70 1189 -0.024517085 0.9896038 0.02869924
## 71            71 1193  0.055355298 1.0222469 0.02959617
## 72            72 1194  0.032905562 1.0138139 0.02933973
## 73            73 1193  0.042598829 1.0175246 0.02945946
## 74            74 1194  0.012876471 1.0058077 0.02910803
## 75            75 1193  0.022552950 1.0097336 0.02923389
## 76            76 1189 -0.020860119 0.9912626 0.02874735
## 77            77 1195  0.030505728 1.0128785 0.02930039
```

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## 78            78 1192  0.032245665 1.0135581 0.02935692
## 79            79 1194  0.072963742 1.0284691 0.02976385
## 80            80 1189  0.054107699 1.0217945 0.02963279
## 81            81 1195  0.054156662 1.0218101 0.02955876
## 82            82 1189  0.021194999 1.0091906 0.02926727
## 83            83 1190  0.026102709 1.0111477 0.02931171
## 84            84 1195  0.032325030 1.0135880 0.02932091
## 85            85 1193  0.026197655 1.0111842 0.02927589
## 86            86 1195  0.037782938 1.0156938 0.02938183
## 87            87 1191 -0.023760207 0.9899477 0.02868510
## 88            88 1186  0.046750597 1.0190840 0.02959155
## 89            89 1194  0.036547214 1.0152203 0.02938043
## 90            90 1193  0.037131771 1.0154450 0.02939925
## 91            91 1187  0.036996669 1.0153953 0.02947201
## 92            92 1195  0.012312701 1.0055753 0.02908912
## 93            93 1192  0.043188954 1.0177475 0.02947826
## 94            94 1189  0.055936182 1.0224590 0.02965207
## 95            95 1196  0.026292125 1.0112205 0.02924020
## 96            96 1189  0.066907082 1.0263689 0.02976546
## 97            97 1190  0.037064390 1.0154202 0.02943556
## 98            98 1194  0.098455311 1.0368812 0.03000730
## 99            99 1185  0.071198232 1.0278638 0.02985908
## 100          100 1189  0.129075516 1.0460767 0.03033700
```

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

```
contemplateselfharmaverage
```

```
##     percentile50    N         mean        sd         se
## 1              1 1192 -0.094351274 0.8945703 0.02591053
## 2              2 1195 -0.040299522 0.9577783 0.02770646
## 3              3 1195 -0.059375670 0.9363146 0.02708556
## 4              4 1197 -0.050439204 0.9464774 0.02735667
## 5              5 1197 -0.067102944 0.9273664 0.02680429
## 6              6 1196 -0.050138651 0.9468162 0.02737790
## 7              7 1195 -0.085605373 0.9053154 0.02618882
## 8              8 1195 -0.099912484 0.8876238 0.02567704
## 9              9 1195 -0.028376930 0.9707617 0.02808204
## 10            10 1193 -0.039679907 0.9584617 0.02774946
## 11            11 1195 -0.049837596 0.9471553 0.02739916
## 12            12 1196 -0.026313404 0.9729761 0.02813433
## 13            13 1192  0.018003155 1.0183705 0.02949631
## 14            14 1196 -0.023930879 0.9755215 0.02820793
## 15            15 1196 -0.004870681 0.9954448 0.02878403
## 16            16 1197 -0.059961341 0.9356410 0.02704345
## 17            17 1199 -0.048662241 0.9484747 0.02739152
## 18            18 1194 -0.042376489 0.9554836 0.02765165
## 19            19 1195 -0.021223374 0.9783993 0.02830298
## 20            20 1195 -0.061760188 0.9335695 0.02700615
## 21            21 1193 -0.068342099 0.9259188 0.02680728
## 22            22 1193 -0.001463651 0.9989270 0.02892101
## 23            23 1196 -0.050138651 0.9468162 0.02737790
## 24            24 1195 -0.006916263 0.9933436 0.02873529
## 25            25 1196  0.026102140 1.0262409 0.02967452
## 26            26 1193 -0.065953583 0.9287081 0.02688803
## 27            27 1194 -0.037603458 0.9607429 0.02780386
## 28            28 1193 -0.020571779 0.9790901 0.02834670
## 29            29 1199  0.020258099 1.0205723 0.02947367
## 30            30 1192 -0.001121003 0.9992761 0.02894326
## 31            31 1194 -0.023284365 0.9762107 0.02825149
## 32            32 1197 -0.005209052 0.9950974 0.02876196
## 33            33 1196 -0.016783305 0.9830834 0.02842659
## 34            34 1195  0.005006329 1.0054720 0.02908614
## 35            35 1194 -0.025670881 0.9736644 0.02817780
## 36            36 1196 -0.009635731 0.9905360 0.02864209
## 37            37 1193 -0.006240683 0.9940393 0.02877951
## 38            38 1194 -0.008965272 0.9912302 0.02868616
## 39            39 1195 -0.004531745 0.9957926 0.02880613
## 40            40 1191 -0.048628319 0.9485154 0.02748454
## 41            41 1192  0.072985110 1.0694682 0.03097631
## 42            42 1197 -0.021872792 0.9777099 0.02825940
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## 43            43 1193 -0.013406231 0.9866191 0.02856468
## 44            44 1193  0.022421509 1.0226801 0.02960872
## 45            45 1195 -0.037915003 0.9604009 0.02778233
## 46            46 1196 -0.019165830 0.9805750 0.02835406
## 47            47 1195 -0.004531745 0.9957926 0.02880613
## 48            48 1195  0.028851514 1.0288853 0.02976343
## 49            49 1195  0.007390847 1.0078632 0.02915531
## 50            50 1195 -0.018838856 0.9809203 0.02837591
## 51            51 1192  0.022784194 1.0230326 0.02963134
## 52            52 1194  0.029218977 1.0292380 0.02978610
## 53            53 1196  0.002276893 1.0027206 0.02899441
## 54            54 1194 -0.006578756 0.9936913 0.02875738
## 55            55 1195 -0.006916263 0.9933436 0.02873529
## 56            56 1193  0.022421509 1.0226801 0.02960872
## 57            57 1196  0.054692437 1.0530607 0.03045004
## 58            58 1191 -0.012740415 0.9873138 0.02860878
## 59            59 1191  0.094923297 1.0884124 0.03153825
## 60            60 1195 -0.030761448 0.9681907 0.02800767
## 61            61 1193 -0.034902875 0.9636958 0.02790100
## 62            62 1195 -0.016454337 0.9834291 0.02844848
## 63            63 1197  0.028118429 1.0281810 0.02971820
## 64            64 1195  0.028851514 1.0288853 0.02976343
## 65            65 1199 -0.008260662 0.9919563 0.02864725
## 66            66 1196  0.073752634 1.0701427 0.03094398
## 67            67 1195  0.028851514 1.0288853 0.02976343
## 68            68 1195  0.036005069 1.0356990 0.02996054
## 69            69 1194 -0.020897849 0.9787445 0.02832482
## 70            70 1193  0.008090413 1.0085633 0.02920001
## 71            71 1193  0.046306669 1.0453478 0.03026499
## 72            72 1197  0.020976826 1.0212735 0.02951855
## 73            73 1193  0.020032993 1.0203548 0.02954139
## 74            74 1197 -0.007589586 0.9926493 0.02869120
## 75            75 1194 -0.011351787 0.9887572 0.02861459
## 76            76 1195 -0.014069819 0.9859258 0.02852071
## 77            77 1199  0.051153424 1.0498192 0.03031830
## 78            78 1194  0.031605493 1.0315200 0.02985214
## 79            79 1194  0.007740337 1.0082131 0.02917764
## 80            80 1195  0.026466995 1.0265930 0.02969712
## 81            81 1194  0.053084133 1.0515915 0.03043301
## 82            82 1191  0.023147489 1.0233854 0.02965400
## 83            83 1192  0.041908353 1.0412523 0.03015906
## 84            84 1197  0.032879497 1.0327328 0.02984976
## 85            85 1196  0.021337090 1.0216246 0.02954104
## 86            86 1196  0.052309912 1.0508816 0.03038703
## 87            87 1197 -0.007589586 0.9926493 0.02869120
## 88            88 1193  0.084522924 1.0795279 0.03125458
## 89            89 1196  0.002276893 1.0027206 0.02899441
## 90            90 1193  0.022421509 1.0226801 0.02960872
## 91            91 1187 -0.025805587 0.9735227 0.02825665
## 92            92 1194  0.033992008 1.0337915 0.02991788
## 93            93 1192  0.003660036 1.0041179 0.02908350
## 94            94 1194  0.053084133 1.0515915 0.03043301
## 95            95 1196  0.049927387 1.0486925 0.03032373
## 96            96 1194  0.050697617 1.0494020 0.03036965
## 97            97 1191  0.068605501 1.0655923 0.03087701
## 98            98 1197  0.080490183 1.0760349 0.03110135
## 99            99 1190  0.078585756 1.0743795 0.03114471
## 100          100 1191  0.087745716 1.0823000 0.03136114
```

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

```
attemptselfharmaverage
```

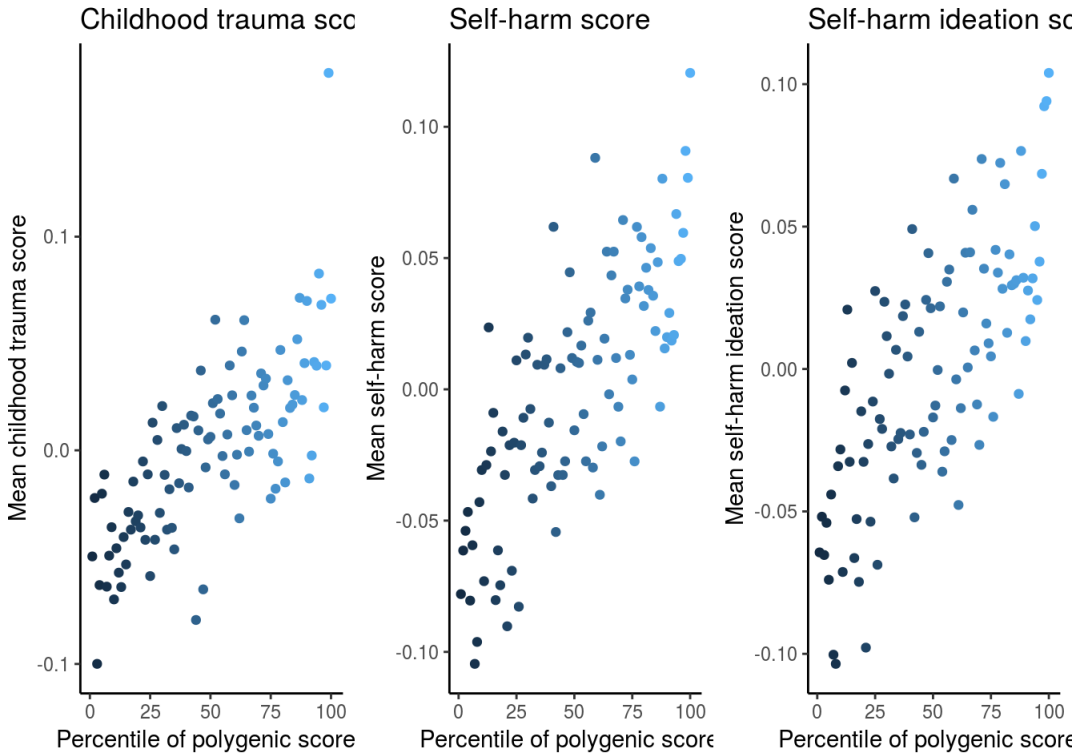
```
##     percentile50    N         mean        sd         se
## 1              1 1196 -0.069100901 0.8230538 0.02379921
## 2              2 1196 -0.060701859 0.8468988 0.02448871
## 3              3 1198 -0.019022140 0.9553805 0.02760247
## 4              4 1198  0.001940410 1.0048735 0.02903240
## 5              5 1197 -0.006276489 0.9858229 0.02849389
## 6              6 1198 -0.044177200 0.8917220 0.02576327
## 7              7 1196 -0.073300422 0.8108357 0.02344592
```

```
## 7               7 1196  0.073500422 0.8100537 0.02544592
## 8               8 1199 -0.023368504 0.9447355 0.02728354
## 9               9 1196 -0.069100901 0.8230538 0.02379921
## 10             10 1193 -0.026651594 0.9366034 0.02711662
## 11             11 1197 -0.031452564 0.9245574 0.02672310
## 12             12 1196 -0.031305213 0.9249301 0.02674505
## 13             13 1196 -0.014507129 0.9662939 0.02794111
## 14             14 1198 -0.044177200 0.8917220 0.02576327
## 15             15 1198 -0.014829630 0.9655185 0.02789537
## 16             16 1198 -0.060947240 0.8462123 0.02444843
## 17             17 1195 -0.047969755 0.8816644 0.02550465
## 18             18 1194 -0.022596659 0.9466377 0.02739565
## 19             19 1196 -0.039704255 0.9034212 0.02612310
## 20             20 1197 -0.027256552 0.9350943 0.02702765
## 21             21 1198 -0.098679830 0.7321599 0.02115327
## 22             22 1194 -0.005770438 0.9870098 0.02856402
## 23             23 1195 -0.043766720 0.8928038 0.02582689
## 24             24 1194 -0.026803214 0.9362254 0.02709432
## 25             25 1194  0.002642673 1.0064833 0.02912758
## 26             26 1194 -0.047835990 0.8820217 0.02552567
## 27             27 1197 -0.014668514 0.9659059 0.02791822
## 28             28 1194 -0.005770438 0.9870098 0.02856402
## 29             29 1195  0.036090947 1.0797893 0.03123598
## 30             30 1195  0.031887912 1.0709110 0.03097914
## 31             31 1194 -0.022596659 0.9466377 0.02739565
## 32             32 1195 -0.047969755 0.8816644 0.02550465
## 33             33 1194 -0.035216324 0.9149874 0.02647969
## 34             34 1197 -0.006276489 0.9858229 0.02849389
## 35             35 1197 -0.052432627 0.8696572 0.02513628
## 36             36 1193 -0.014021351 0.9674604 0.02800999
## 37             37 1196 -0.031305213 0.9249301 0.02674505
## 38             38 1197 -0.027256552 0.9350943 0.02702765
## 39             39 1192  0.011422798 1.0263394 0.02972712
## 40             40 1196 -0.048103296 0.8813075 0.02548366
## 41             41 1196  0.077882330 1.1635643 0.03364533
## 42             42 1198 -0.035792180 0.9135116 0.02639281
## 43             43 1193 -0.005601188 0.9874064 0.02858747
## 44             44 1197 -0.002080477 0.9956054 0.02877665
## 45             45 1197 -0.002080477 0.9956054 0.02877665
## 46             46 1197 -0.006276489 0.9858229 0.02849389
## 47             47 1197  0.023095598 1.0520410 0.03040784
## 48             48 1196  0.006490475 1.0152412 0.02935646
## 49             49 1196 -0.010307608 0.9763158 0.02823090
## 50             50 1196 -0.018706650 0.9561484 0.02764774
## 51             51 1196  0.035887121 1.0793605 0.03121051
## 52             52 1198  0.043865510 1.0959789 0.03166458
## 53             53 1197  0.002115536 1.0052752 0.02905614
## 54             54 1198  0.010325430 1.0238809 0.02958156
## 55             55 1194  0.002642673 1.0064833 0.02912758
## 56             56 1196 -0.001908567 0.9960041 0.02880020
## 57             57 1194 -0.001563882 0.9968030 0.02884743
## 58             58 1195 -0.035360650 0.9146178 0.02645792
## 59             59 1194  0.107806554 1.2191418 0.03528191
## 60             60 1196  0.027488080 1.0615191 0.03069462
## 61             61 1193  0.007029056 1.0164610 0.02942866
## 62             62 1193  0.002818975 1.0068869 0.02915147
## 63             63 1195  0.040293983 1.0885791 0.03149024
## 64             64 1196 -0.014507129 0.9662939 0.02794111
## 65             65 1197  0.006311548 1.0148355 0.02933247
## 66             66 1198  0.006132920 1.0144304 0.02930852
## 67             67 1194  0.044708225 1.0977178 0.03176790
## 68             68 1195 -0.001736369 0.9964033 0.02882380
## 69             69 1198 -0.027407160 0.9347181 0.02700550
## 70             70 1195  0.006669702 1.0156473 0.02938048
## 71             71 1196  0.040086642 1.0881471 0.03146459
## 72             72 1198  0.027095470 1.0606754 0.03064461
## 73             73 1194  0.074154112 1.1563995 0.03346615
## 74             74 1196  0.014889517 1.0340521 0.02990039
## 75             75 1197 -0.031452564 0.9245574 0.02672310
## 76             76 1193 -0.043491920 0.8935272 0.02586947
## 77             77 1197  0.077643761 1.1631070 0.03361806
## 78             78 1197  0.006311548 1.0148355 0.02933247
## 79             79 1196  0.027488080 1.0615191 0.03069462
```

```
## 80            80 1196 -0.010307608 0.9763158 0.02823090
## 81            81 1195  0.052903088 1.1144372 0.03223826
## 82            82 1196  0.073682809 1.1554888 0.03341182
## 83            83 1193  0.061760112 1.1321645 0.03277852
## 84            84 1196  0.014889517 1.0340521 0.02990039
## 85            85 1196  0.006490475 1.0152412 0.02935646
## 86            86 1195  0.036090947 1.0797893 0.03123598
## 87            87 1196 -0.010307608 0.9763158 0.02823090
## 88            88 1196  0.056884726 1.1224490 0.03245645
## 89            89 1195 -0.035360650 0.9146178 0.02645792
## 90            90 1193 -0.001391107 0.9972031 0.02887110
## 91            91 1193  0.053339950 1.1153206 0.03229085
## 92            92 1195  0.019278807 1.0437212 0.03019260
## 93            93 1193  0.011239137 1.0259284 0.02970276
## 94            94 1197  0.039879648 1.0877157 0.03143897
## 95            95 1196  0.065283767 1.1391197 0.03293850
## 96            96 1194  0.040501670 1.0890115 0.03151594
## 97            97 1196  0.019089038 1.0433051 0.03016794
## 98            98 1194  0.061534446 1.1317168 0.03275183
## 99            99 1194  0.027882004 1.0623648 0.03074479
## 100          100 1194  0.107806554 1.2191418 0.03528191
```

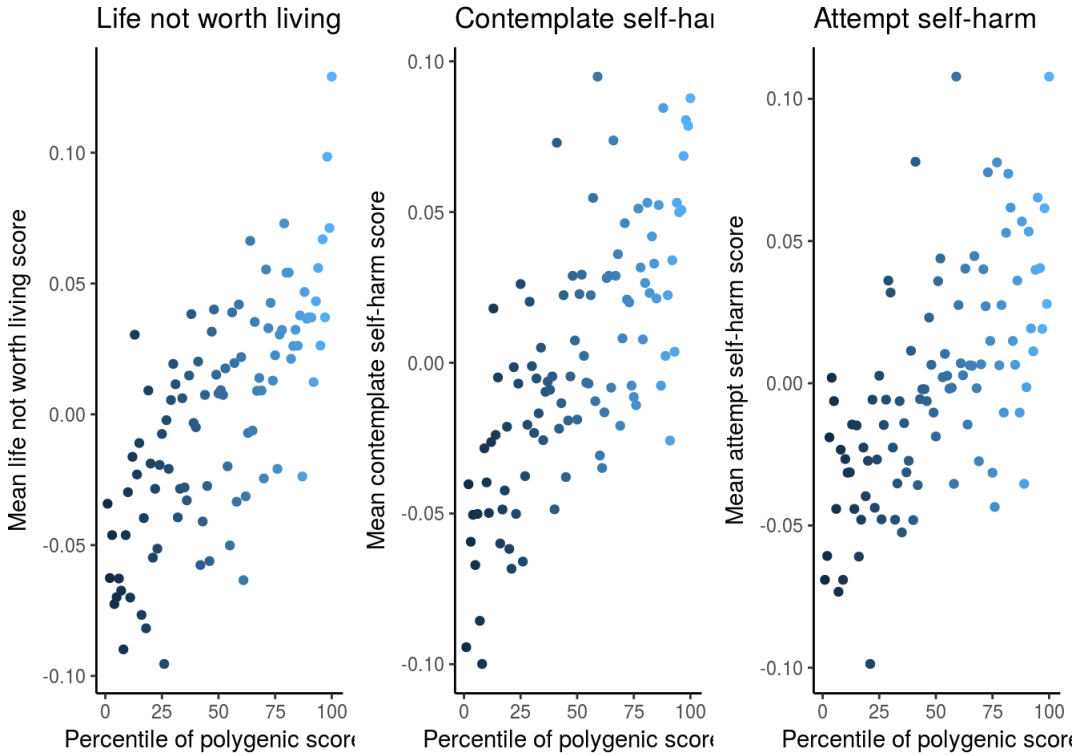
Plots based on percentile for each score item

```
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=percentile25, y=mean)) + geom_point(aes(col =
percentile25))  + xlab ("Percentile of polygenic scores") + ylab ("Mean childhood trauma score") + theme_cla
ssic()+ guides(colour = FALSE) + ggtitle("Childhood trauma score")

selfharmscoreplot = ggplot(na.omit(selfharmscoreaverage), aes(x=percentile50, y=mean)) + geom_point(aes(col
= percentile50))  + 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=percentile50, y=mean)) + geom_point(ae
s(col = percentile50))  + 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=percentile50, y=mean)) + geom_point(aes
(col = percentile50))  + 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=percentile50, y=mean)) + geom_po
int(aes(col = percentile50))  + 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=percentile50, y=mean)) + geom_point(aes(
col = percentile50))  + 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=percentile25, y=mean)) + geom_point(aes(col = percentile25))  + xlab ("Percentile of polygenic scores") + ylab ("Mean felt hated score") + theme_classic()+ guides(colour = FALSE) + ggtitle("Felt hated")

feltlovedplot = ggplot(na.omit(feltlovedaverage), aes(x=percentile25, y=mean)) + geom_point(aes(col = percentile25))  + xlab ("Percentile of polygenic scores") + ylab ("Mean felt loved (inv.) score") + theme_classic()+ guides(colour = FALSE) + ggtitle ("Felt loved (inv.)")

physicalabuseplot = ggplot(na.omit(physicalabuseaverage), aes(x=percentile25, y=mean)) + geom_point(aes(col = percentile25))  + xlab ("Percentile of polygenic scores") + ylab ("Mean physical abuse score") + theme_classic() + guides(colour = FALSE) + ggtitle("Physical abuse")

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