Regression analysis with imputed education

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```
### Data upload
df <- read.csv("~/Desktop/R/Projects/Covid-19 (Wave 4)/data/Wave4_edu_na.csv", header=TRUE)</pre>
### Packages
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.0 --
## v ggplot2 3.3.3 v purrr 0.3.4
## v tibble 3.0.6 v dplyr 1.0.4
## v tidyr 1.1.2 v stringr 1.4.0
## v readr 1.4.0 v forcats 0.5.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(mice)
## Attaching package: 'mice'
## The following object is masked from 'package:stats':
##
##
      filter
## The following objects are masked from 'package:base':
##
      cbind, rbind
##
library(VIM)
## Loading required package: colorspace
## Loading required package: grid
## VIM is ready to use.
```

```
## Suggestions and bug-reports can be submitted at: https://github.com/statistikat/VIM/issues
##
## Attaching package: 'VIM'
## The following object is masked from 'package:datasets':
##
       sleep
library(epiDisplay)
## Loading required package: foreign
## Loading required package: survival
## Loading required package: MASS
##
## Attaching package: 'MASS'
## The following object is masked from 'package:dplyr':
##
##
       select
## Loading required package: nnet
##
## Attaching package: 'epiDisplay'
## The following objects are masked from 'package:mice':
##
##
       cc, cci
## The following object is masked from 'package:ggplot2':
##
##
       alpha
library(corrplot)
## corrplot 0.84 loaded
library(Hmisc)
## Loading required package: lattice
## Attaching package: 'lattice'
```

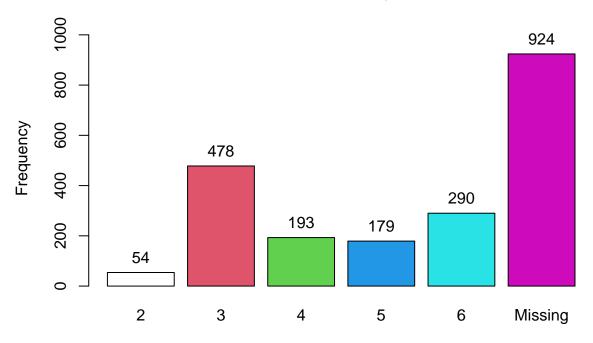
```
## The following object is masked from 'package:epiDisplay':
##
##
       dotplot
## Loading required package: Formula
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:dplyr':
##
##
       src, summarize
## The following objects are masked from 'package:base':
##
##
       format.pval, units
library(MASS)
```

1) Data preparation

2) Data imputation (education)

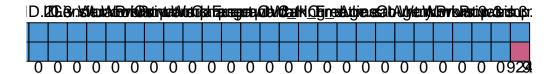
```
## Distribution of education with n = 924 NAs tab1(df$edu.na)
```

Distribution of df\$edu.na



##	df\$edu.na :			
##		Frequency	%(NA+)	%(NA-)
##	2	54	2.5	4.5
##	3	478	22.6	40.0
##	4	193	9.1	16.2
##	5	179	8.5	15.0
##	6	290	13.7	24.3
##	<na></na>	924	43.6	0.0
##	Total	2118	100.0	100.0

Imputing missing data for Education
md.pattern(df)



```
X.1 X ID.2 ID.3 Gender Liv.situation Work.wors Work.imp Privat.wors
      11 1 1 1 1 1 1
## 1194
## 924
       1 1
                       1
                                  1
                                                            1
       0 0
             0
                0
                       0
                                  0
                                          0
##
      Privat.imp Contract.change Work.quant Care.quant Free.quant mwb.cat
## 1194
                          1
                                  1
                                          1
             1
## 924
             1
                          1
                                   1
                                            1
##
                          0
                                   0
                                            0
      Ovrl_HO Work_time Caring_duties Freetime Age.cat srh Country Age.num
## 1194
                           1 1 1 1
## 924
           1
                   1
                              1
                                      1
                                            1
                   0
                              0
      Work.wors.3 Work.imp.3 Privat.wors.3 Privat.imp.3 edu.na
## 1194
         1
                      1
                             1
## 924
              1
                                   1
                                                   0
                       1
                                             1
                                                 924 924
```

```
df1 <- df %>%
    dplyr::select(-c(X, X.1, ID.2, ID.3, Age.cat, Work_time, Freetime, Caring_duties, Work.wors.3, Work.in
impute <- mice(df1, m = 5, maxit = 50, meth='pmm', seed = 500)</pre>
```

```
##
## iter imp variable
## 1 1 edu.na
```

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##
          2
             edu.na
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              edu.na
new_df <- complete(impute, 1)</pre>
```

2) Correlation matrix with imputed education

```
## Wave 4 analysis with imputed education data
new_df2 <- new_df
new_df2[,] = lapply(new_df2[,], as.numeric)

colnames(new_df2) <- c("Gender", "Living situation", "Work worsened", "Work improved", "Private worsened col_order <- c("Gender", "Age", "Country", "Education", "Living situation", "Contract change", "Work timew_df2 <- new_df2[, col_order]

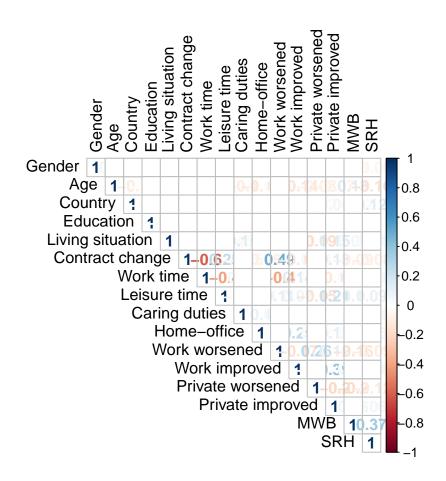
mat2 <- rcorr(as.matrix(new_df2))
mat2</pre>
```

```
##
                    Gender
                             Age Country Education Living situation
                      1.00 0.05
## Gender
                                   -0.03
                                               0.00
                                                                0.03
## Age
                      0.05 1.00
                                   -0.10
                                              -0.01
                                                                0.00
## Country
                     -0.03 -0.10
                                             -0.01
                                                               -0.01
                                    1.00
```

```
## Education
                       0.00 - 0.01
                                     -0.01
                                                 1.00
                                                                  -0.03
## Living situation
                       0.03 0.00
                                     -0.01
                                                -0.03
                                                                   1.00
                                                0.03
## Contract change
                      -0.03 - 0.01
                                      0.05
                                                                   0.01
## Work time
                                                                   0.02
                       0.03 -0.04
                                     -0.03
                                               -0.01
## Leisure time
                       0.03 0.03
                                      0.02
                                                 0.00
                                                                  -0.04
## Caring duties
                      -0.01 -0.10
                                      0.04
                                                0.02
                                                                   0.15
## Home-office
                       0.04 - 0.12
                                      0.04
                                                 0.02
                                                                   0.02
## Work worsened
                      -0.05 0.02
                                                                   0.00
                                      0.02
                                                0.00
## Work improved
                      -0.02 - 0.14
                                      0.05
                                                0.05
                                                                   0.03
## Private worsened
                     -0.02 -0.08
                                     -0.02
                                               -0.01
                                                                  -0.19
## Private improved
                     -0.03 -0.07
                                      0.06
                                                0.04
                                                                   0.15
                       0.03 0.13
## MWB
                                     -0.02
                                                0.00
                                                                   0.06
## SRH
                      -0.06 -0.16
                                      0.12
                                                -0.01
                                                                   0.04
##
                     Contract change Work time Leisure time Caring duties
## Gender
                               -0.03
                                           0.03
                                                         0.03
                                                                       -0.01
## Age
                                -0.01
                                          -0.04
                                                         0.03
                                                                       -0.10
                                 0.05
                                          -0.03
                                                         0.02
                                                                        0.04
## Country
## Education
                                 0.03
                                          -0.01
                                                         0.00
                                                                        0.02
## Living situation
                                 0.01
                                           0.02
                                                        -0.04
                                                                        0.15
## Contract change
                                 1.00
                                          -0.60
                                                         0.25
                                                                       -0.05
## Work time
                               -0.60
                                           1.00
                                                        -0.40
                                                                        0.05
## Leisure time
                                0.25
                                          -0.40
                                                         1.00
                                                                       -0.03
## Caring duties
                               -0.05
                                           0.05
                                                        -0.03
                                                                        1.00
## Home-office
                               -0.08
                                           0.02
                                                         0.04
                                                                        0.10
## Work worsened
                                          -0.40
                                                                        0.04
                                0.49
                                                         0.11
## Work improved
                               -0.14
                                           0.14
                                                         0.07
                                                                        0.05
                                                        -0.15
## Private worsened
                                 0.04
                                           0.02
                                                                        0.00
                                          -0.12
                                                                        0.05
## Private improved
                                 0.13
                                                         0.21
## MWB
                               -0.09
                                           0.03
                                                         0.10
                                                                       -0.02
## SRH
                               -0.08
                                           0.04
                                                         0.09
                                                                        0.04
##
                     Home-office Work worsened Work improved Private worsened
## Gender
                            0.04
                                          -0.05
                                                         -0.02
                                                                           -0.02
                                                                           -0.08
## Age
                           -0.12
                                           0.02
                                                         -0.14
## Country
                            0.04
                                           0.02
                                                          0.05
                                                                           -0.02
## Education
                            0.02
                                           0.00
                                                          0.05
                                                                           -0.01
## Living situation
                            0.02
                                           0.00
                                                          0.03
                                                                           -0.19
## Contract change
                           -0.08
                                           0.49
                                                         -0.14
                                                                            0.04
## Work time
                            0.02
                                          -0.40
                                                          0.14
                                                                            0.02
## Leisure time
                            0.04
                                           0.11
                                                          0.07
                                                                           -0.15
## Caring duties
                                           0.04
                                                          0.05
                                                                            0.00
                            0.10
## Home-office
                            1.00
                                           0.01
                                                          0.25
                                                                            0.02
## Work worsened
                            0.01
                                           1.00
                                                         -0.17
                                                                            0.26
## Work improved
                            0.25
                                          -0.17
                                                          1.00
                                                                           -0.02
## Private worsened
                            0.02
                                           0.26
                                                         -0.02
                                                                            1.00
                                                          0.39
                                                                           -0.20
## Private improved
                            0.11
                                           0.12
## MWB
                                          -0.16
                                                                           -0.20
                            0.03
                                                          0.03
## SRH
                            0.05
                                          -0.09
                                                          0.04
                                                                           -0.12
##
                     Private improved
                                         MWB
                                                SRH
## Gender
                                 -0.03 0.03 -0.06
## Age
                                 -0.07 0.13 -0.16
## Country
                                 0.06 -0.02 0.12
## Education
                                 0.04 0.00 -0.01
## Living situation
                                 0.15 0.06 0.04
## Contract change
                                 0.13 -0.09 -0.08
```

```
## Work time
                                -0.12 0.03 0.04
## Leisure time
                                 0.21 0.10 0.09
## Caring duties
                                 0.05 -0.02 0.04
## Home-office
                                 0.11 0.03 0.05
## Work worsened
                                 0.12 -0.16 -0.09
                                 0.39 0.03 0.04
## Work improved
                                -0.20 -0.20 -0.12
## Private worsened
                                 1.00 0.06 0.06
## Private improved
## MWB
                                 0.06 1.00 0.37
## SRH
                                 0.06 0.37 1.00
##
## n= 2118
##
## P
##
                    Gender Age
                                   Country Education Living situation
                            0.0160 0.1843 0.9431
## Gender
                                                     0.1078
                    0.0160
                                   0.0000
                                           0.7122
                                                     0.8816
## Age
                                                     0.7757
## Country
                    0.1843 0.0000
                                           0.5426
## Education
                    0.9431 0.7122 0.5426
                                                     0.1764
## Living situation 0.1078 0.8816 0.7757
                                           0.1764
## Contract change 0.1713 0.5126 0.0375
                                                     0.7747
                                           0.1686
## Work time
                    0.1864 0.0445 0.1703
                                           0.6038
                                                     0.3017
## Leisure time
                    0.1354 0.1686 0.3132
                                           0.9926
                                                     0.0817
## Caring duties
                    0.7494 0.0000 0.0591
                                           0.4210
                                                     0.0000
## Home-office
                    0.0391 0.0000 0.0815
                                           0.4550
                                                     0.2605
## Work worsened
                    0.0211 0.3010 0.4275
                                           0.9924
                                                     0.9215
## Work improved
                    0.4770 0.0000 0.0166
                                           0.0120
                                                     0.1754
## Private worsened 0.2947 0.0001 0.4044
                                           0.5000
                                                     0.0000
## Private improved 0.1265 0.0014 0.0064
                                           0.0980
                                                     0.0000
## MWB
                    0.2426 0.0000 0.2536
                                           0.9305
                                                     0.0062
## SRH
                    0.0084 0.0000 0.0000 0.6629
                                                     0.0802
##
                    Contract change Work time Leisure time Caring duties
## Gender
                    0.1713
                                     0.1864
                                               0.1354
                                                             0.7494
                    0.5126
                                     0.0445
                                               0.1686
                                                             0.0000
## Age
                                     0.1703
                                               0.3132
                                                             0.0591
## Country
                    0.0375
## Education
                    0.1686
                                     0.6038
                                               0.9926
                                                             0.4210
## Living situation 0.7747
                                     0.3017
                                               0.0817
                                                             0.0000
## Contract change
                                     0.0000
                                               0.0000
                                                             0.0191
## Work time
                                               0.0000
                    0.0000
                                                             0.0189
## Leisure time
                                                             0.1470
                    0.0000
                                     0.0000
## Caring duties
                    0.0191
                                     0.0189
                                               0.1470
                                                             0.0000
## Home-office
                    0.0001
                                     0.4245
                                               0.0886
## Work worsened
                    0.0000
                                     0.0000
                                               0.0000
                                                             0.0514
## Work improved
                    0.0000
                                     0.0000
                                               0.0020
                                                             0.0139
                                                             0.9291
## Private worsened 0.0941
                                     0.4100
                                               0.0000
## Private improved 0.0000
                                     0.0000
                                               0.0000
                                                             0.0340
## MWB
                    0.0000
                                     0.1769
                                               0.0000
                                                             0.3538
                                     0.0396
## SRH
                    0.0001
                                               0.0000
                                                             0.0504
##
                    Home-office Work worsened Work improved Private worsened
## Gender
                                 0.0211
                    0.0391
                                               0.4770
                                                              0.2947
## Age
                    0.0000
                                 0.3010
                                               0.0000
                                                              0.0001
## Country
                    0.0815
                                 0.4275
                                               0.0166
                                                              0.4044
## Education
                    0.4550
                                 0.9924
                                               0.0120
                                                              0.5000
```

```
## Living situation 0.2605
                                               0.1754
                                                              0.0000
                                 0.9215
## Contract change 0.0001
                                 0.0000
                                               0.0000
                                                              0.0941
## Work time
                    0.4245
                                 0.0000
                                               0.0000
                                                              0.4100
## Leisure time
                    0.0886
                                 0.0000
                                               0.0020
                                                              0.0000
## Caring duties
                    0.0000
                                 0.0514
                                               0.0139
                                                              0.9291
## Home-office
                                 0.6258
                                               0.0000
                                                              0.3031
## Work worsened
                    0.6258
                                               0.0000
                                                              0.0000
## Work improved
                                                              0.2528
                    0.0000
                                 0.0000
## Private worsened 0.3031
                                 0.0000
                                               0.2528
## Private improved 0.0000
                                 0.0000
                                               0.0000
                                                              0.0000
## MWB
                    0.1219
                                 0.0000
                                               0.2107
                                                              0.0000
## SRH
                                                              0.0000
                    0.0275
                                 0.0000
                                               0.0469
##
                    Private improved MWB
                                             SRH
## Gender
                    0.1265
                                      0.2426 0.0084
                    0.0014
                                      0.0000 0.0000
## Age
## Country
                    0.0064
                                      0.2536 0.0000
## Education
                                      0.9305 0.6629
                    0.0980
## Living situation 0.0000
                                      0.0062 0.0802
## Contract change 0.0000
                                      0.0000 0.0001
## Work time
                    0.0000
                                      0.1769 0.0396
## Leisure time
                    0.0000
                                      0.0000 0.0000
## Caring duties
                    0.0340
                                      0.3538 0.0504
## Home-office
                                      0.1219 0.0275
                    0.0000
## Work worsened
                    0.0000
                                      0.0000 0.0000
## Work improved
                                      0.2107 0.0469
                    0.0000
## Private worsened 0.0000
                                      0.0000 0.0000
## Private improved
                                      0.0112 0.0096
## MWB
                    0.0112
                                             0.0000
## SRH
                                      0.0000
                    0.0096
```



3) Ordinal regression with imputed education

##

##

##

##

```
## Ordinal regression + education
df$edu.b <- new_df$edu.na
df$edu_cat.b <- df$edu.b</pre>
df$edu_cat.b <- recode(df$edu_cat.b, "2" = 1, "3" = 2, "4" = 2, "5" = 3, "6" = 3)
df$edu_cat.b <- factor(df$edu_cat.b, levels = c("1", "2", "3"),
                     labels = c("Primary", "Secondary", "Tertiary"))
# Work life worsened
ord1 <- polr(Work.wors ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No ch
exp(coefficients(ord1))
##
                                                       GenderMale
##
                                                        0.9121626
##
                                               CountrySwitzerland
##
                                                        0.8705041
##
                                                     Age.cat31-40
##
                                                         0.9305751
```

Age.cat41-50

Age.cat51-60 1.2298337

1.0759641

```
##
                                                      Age.cat61-65
##
                                                         1.5552640
##
                                                edu_cat.bSecondary
##
                                                         1.0909186
                                                edu_cat.bTertiary
##
                                                         1.0098348
  relevel(Contract.change, ref = "No change")Short-time reduced
##
                                                         3.4641261
##
         relevel(Contract.change, ref = "No change")Short-time 0
##
                                                         9.7639277
             relevel(Contract.change, ref = "No change")Job loss
##
                                                        35.9233312
##
                            Liv.situationPartner/Family/Flatshare
##
                                                         0.8881331
                        relevel(Ovrl_HO, ref = "None")Experienced
##
##
                                                         1.1805547
##
                                relevel(Ovrl_HO, ref = "None")New
##
                                                         1.2114104
                  relevel(Work_time, ref = "Unchanged")Decreased
##
##
                                                         2.9459462
##
                  relevel(Work_time, ref = "Unchanged")Increased
##
                                                         2.0581031
                   relevel(Freetime, ref = "Unchanged")Decreased
##
##
                                                         1.6231534
##
                   relevel(Freetime, ref = "Unchanged")Increased
##
                                                         1.2702152
              relevel(Caring_duties, ref = "Unchanged")Decreased
##
##
                                                         1.1256348
              relevel(Caring_duties, ref = "Unchanged")Increased
##
                                                         1.5817016
```

exp(confint(ord1))

Waiting for profiling to be done...

```
2.5 %
## GenderMale
                                                                   0.7805245
## CountrySwitzerland
                                                                   0.7218580
## Age.cat31-40
                                                                   0.6899679
## Age.cat41-50
                                                                   0.8008077
## Age.cat51-60
                                                                   0.9220021
## Age.cat61-65
                                                                   1.0948978
## edu cat.bSecondary
                                                                   0.7400180
## edu_cat.bTertiary
                                                                   0.6807666
## relevel(Contract.change, ref = "No change")Short-time reduced 2.6752336
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   6.8783274
## relevel(Contract.change, ref = "No change") Job loss
                                                                  15.2507314
## Liv.situationPartner/Family/Flatshare
                                                                   0.7415359
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   0.9836641
## relevel(Ovrl_HO, ref = "None")New
                                                                   0.9807631
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                   2.3289897
## relevel(Work_time, ref = "Unchanged")Increased
                                                                   1.5519796
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   1.2935647
```

```
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   1.0357888
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                   0.8049886
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                   1.2736398
                                                                      97.5 %
## GenderMale
                                                                   1.068738
## CountrySwitzerland
                                                                   1.049161
## Age.cat31-40
                                                                   1.255797
## Age.cat41-50
                                                                   1.446681
## Age.cat51-60
                                                                   1.641901
## Age.cat61-65
                                                                   2.210616
## edu_cat.bSecondary
                                                                   1.611288
## edu_cat.bTertiary
                                                                   1.500408
## relevel(Contract.change, ref = "No change")Short-time reduced 4.491975
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   13.929541
## relevel(Contract.change, ref = "No change")Job loss
                                                                  92.198574
## Liv.situationPartner/Family/Flatshare
                                                                   1.063780
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   1.417012
## relevel(Ovrl_HO, ref = "None")New
                                                                   1.496180
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                   3.730254
## relevel(Work_time, ref = "Unchanged")Increased
                                                                   2.730828
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   2.037337
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   1.557323
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                   1.573180
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                   1.965002
# Work life improved
ord2 <- polr(Work.imp ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No cha
exp(coefficients(ord2))
##
                                                       GenderMale
##
                                                        0.9291832
                                               CountrySwitzerland
##
##
                                                        1.1543297
##
                                                     Age.cat31-40
##
                                                        1.0384390
##
                                                     Age.cat41-50
##
                                                        0.9602569
##
                                                     Age.cat51-60
##
                                                        0.7080231
##
                                                     Age.cat61-65
##
                                                        0.5030176
##
                                               edu_cat.bSecondary
##
                                                        1.0755465
##
                                                edu_cat.bTertiary
##
                                                        1.2970654
## relevel(Contract.change, ref = "No change")Short-time reduced
##
                                                        0.6753045
```

relevel(Ovrl_HO, ref = "None")Experienced

Liv.situationPartner/Family/Flatshare

0.5283738

0.3861149

relevel(Contract.change, ref = "No change")Short-time 0

relevel(Contract.change, ref = "No change") Job loss

##

##

##

##

##

##

```
##
                                                         2.5804120
##
                                relevel(Ovrl_HO, ref = "None")New
##
                                                         2.7617703
                   relevel(Freetime, ref = "Unchanged")Decreased
##
##
                                                         0.9586698
                   relevel(Freetime, ref = "Unchanged")Increased
##
##
                                                         1.9230185
##
                  relevel(Work_time, ref = "Unchanged")Decreased
##
                                                         0.6140584
##
                  relevel(Work_time, ref = "Unchanged")Increased
##
                                                         1.3255582
              relevel(Caring_duties, ref = "Unchanged")Decreased
##
##
                                                         1.1052265
              relevel(Caring_duties, ref = "Unchanged")Increased
##
##
                                                         0.9591047
```

exp(confint(ord2))

Waiting for profiling to be done...

```
## GenderMale
                                                                   0.7866735
## CountrySwitzerland
                                                                   0.9484231
## Age.cat31-40
                                                                   0.7636080
## Age.cat41-50
                                                                   0.7089614
## Age.cat51-60
                                                                   0.5258178
## Age.cat61-65
                                                                   0.3446781
## edu_cat.bSecondary
                                                                   0.7209361
## edu_cat.bTertiary
                                                                   0.8640537
## relevel(Contract.change, ref = "No change")Short-time reduced 0.5131386
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   0.3642592
## relevel(Contract.change, ref = "No change") Job loss
                                                                   0.1543427
## Liv.situationPartner/Family/Flatshare
                                                                   0.9023431
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   2.1290723
## relevel(Ovrl_HO, ref = "None")New
                                                                   2.2126082
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   0.7534824
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  1.5492102
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  0.4791954
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  0.9964536
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                  0.7781939
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  0.7629009
##
                                                                     97.5 %
## GenderMale
                                                                   1.0975995
## CountrySwitzerland
                                                                   1.4034582
## Age.cat31-40
                                                                   1.4143308
## Age.cat41-50
                                                                   1.3028667
## Age.cat51-60
                                                                   0.9548649
## Age.cat61-65
                                                                   0.7319491
## edu_cat.bSecondary
                                                                   1.6229578
## edu_cat.bTertiary
                                                                   1.9688689
## relevel(Contract.change, ref = "No change")Short-time reduced 0.8872501
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  0.7599407
## relevel(Contract.change, ref = "No change")Job loss
                                                                  0.8782200
```

2.5 %

```
## Liv.situationPartner/Family/Flatshare
                                                                   1.3190580
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   3.1296884
## relevel(Ovrl_HO, ref = "None")New
                                                                   3.4484880
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   1.2182123
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   2.3893308
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                   0.7855556
## relevel(Work_time, ref = "Unchanged")Increased
                                                                   1.7610726
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                   1.5595642
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                   1.2041471
# Private life worsened
ord3 <- polr(Privat.wors ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No
exp(coefficients(ord3))
##
                                                       GenderMale
##
                                                        1.0464516
                                               CountrySwitzerland
##
                                                        0.8570772
##
                                                     Age.cat31-40
                                                        0.7559187
##
##
                                                     Age.cat41-50
##
                                                        0.7671323
##
                                                     Age.cat51-60
##
                                                        0.7525384
##
                                                     Age.cat61-65
##
                                                        0.5805638
##
                                               edu_cat.bSecondary
##
                                                         0.8538884
##
                                                edu_cat.bTertiary
##
                                                        0.8003800
##
   relevel(Contract.change, ref = "No change")Short-time reduced
                                                         1.2256702
##
         relevel(Contract.change, ref = "No change")Short-time 0
##
                                                         1.0697473
             relevel(Contract.change, ref = "No change") Job loss
##
##
                                                         1.2225458
##
                           Liv.situationPartner/Family/Flatshare
                                                        0.4049530
                       relevel(Ovrl_HO, ref = "None")Experienced
##
##
                                                         1.0169192
##
                                relevel(Ovrl_HO, ref = "None")New
##
                                                         1.0760396
                   relevel(Freetime, ref = "Unchanged")Decreased
##
##
                                                         2.6196984
                   relevel(Freetime, ref = "Unchanged")Increased
##
##
                                                         1.2918654
##
                  relevel(Work_time, ref = "Unchanged")Decreased
##
                                                         0.8975688
##
                  relevel(Work_time, ref = "Unchanged")Increased
##
                                                         1.1296106
```

1.6278207

1.3980635

relevel(Caring_duties, ref = "Unchanged")Decreased

relevel(Caring_duties, ref = "Unchanged")Increased

##

##

##

exp(confint(ord3))

```
## Waiting for profiling to be done...
```

```
2.5 %
##
## GenderMale
                                                                  0.8958557
## CountrySwitzerland
                                                                  0.7124980
## Age.cat31-40
                                                                  0.5625655
## Age.cat41-50
                                                                  0.5716604
## Age.cat51-60
                                                                  0.5660324
## Age.cat61-65
                                                                  0.4098833
## edu_cat.bSecondary
                                                                  0.5852277
## edu_cat.bTertiary
                                                                  0.5450699
## relevel(Contract.change, ref = "No change")Short-time reduced 0.9532162
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  0.7814879
## relevel(Contract.change, ref = "No change")Job loss
                                                                  0.6055486
## Liv.situationPartner/Family/Flatshare
                                                                  0.3379501
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                  0.8504493
## relevel(Ovrl_HO, ref = "None")New
                                                                  0.8742659
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  2.0948398
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  1.0536565
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  0.7121896
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  0.8616550
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                  1.1912255
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  1.1290296
##
                                                                     97.5 %
## GenderMale
                                                                  1.2224963
## CountrySwitzerland
                                                                  1.0305484
## Age.cat31-40
                                                                  1.0154471
## Age.cat41-50
                                                                  1.0291983
## Age.cat51-60
                                                                  1.0003049
## Age.cat61-65
                                                                  0.8214443
## edu_cat.bSecondary
                                                                  1.2463090
## edu_cat.bTertiary
                                                                  1.1755607
## relevel(Contract.change, ref = "No change")Short-time reduced 1.5764976
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  1.4635893
                                                                  2.4608851
## relevel(Contract.change, ref = "No change")Job loss
## Liv.situationPartner/Family/Flatshare
                                                                  0.4848444
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                  1.2158407
## relevel(Ovrl_HO, ref = "None")New
                                                                  1.3241866
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  3.2789601
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  1.5843214
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  1.1306784
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  1.4806077
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                  2.2251122
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  1.7313719
```

```
# Private life improved
ord4 <- polr(Privat.imp ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No contract.change")
exp(coefficients(ord4))</pre>
```

GenderMale

```
##
                                                         0.8671534
##
                                                CountrySwitzerland
##
                                                         1.1343789
##
                                                      Age.cat31-40
##
                                                         0.9326995
##
                                                      Age.cat41-50
                                                         0.8817253
##
##
                                                      Age.cat51-60
##
                                                         0.7956288
##
                                                      Age.cat61-65
                                                         0.7620480
##
                                                edu_cat.bSecondary
##
                                                         1.0233009
##
                                                 edu_cat.bTertiary
##
                                                         1.1383543
   relevel(Contract.change, ref = "No change")Short-time reduced
##
                                                         1.3194003
##
         relevel(Contract.change, ref = "No change")Short-time 0
##
                                                         1.5646007
##
             relevel(Contract.change, ref = "No change")Job loss
##
                                                         1.6478062
##
                            Liv.situationPartner/Family/Flatshare
##
                                                         1.7493973
                       relevel(Ovrl_HO, ref = "None")Experienced
##
##
                                                         1.7191369
##
                                relevel(Ovrl_HO, ref = "None")New
##
                                                         1.4134217
                   relevel(Freetime, ref = "Unchanged")Decreased
##
##
                                                         0.8520655
##
                   relevel(Freetime, ref = "Unchanged")Increased
##
                                                         2.2639044
##
                  relevel(Work_time, ref = "Unchanged")Decreased
##
                                                         0.8896387
                  relevel(Work_time, ref = "Unchanged")Increased
##
##
                                                         1.0828423
##
              relevel(Caring_duties, ref = "Unchanged")Decreased
##
                                                         1.3445981
##
              relevel(Caring_duties, ref = "Unchanged")Increased
##
                                                         1.3318738
exp(confint(ord4))
## Waiting for profiling to be done...
##
                                                                        2.5 %
## GenderMale
                                                                    0.7365729
## CountrySwitzerland
                                                                    0.9349385
## Age.cat31-40
                                                                    0.6881372
## Age.cat41-50
                                                                    0.6520268
                                                                    0.5927505
## Age.cat51-60
                                                                    0.5291626
## Age.cat61-65
## edu_cat.bSecondary
                                                                    0.6903785
```

0.7636191

edu_cat.bTertiary

```
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  1.1245166
                                                                  0.7561445
## relevel(Contract.change, ref = "No change")Job loss
## Liv.situationPartner/Family/Flatshare
                                                                  1.4469275
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                  1.4249222
## relevel(Ovrl_HO, ref = "None")New
                                                                  1.1369290
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  0.6711321
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  1.8314358
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  0.6965138
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  0.8113823
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                  0.9566308
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  1.0666475
                                                                    97.5 %
## GenderMale
                                                                  1.020856
## CountrySwitzerland
                                                                  1.375090
## Age.cat31-40
                                                                  1.266076
                                                                  1.194267
## Age.cat41-50
## Age.cat51-60
                                                                  1.069775
## Age.cat61-65
                                                                  1.096195
## edu_cat.bSecondary
                                                                  1.529633
## edu_cat.bTertiary
                                                                  1.711065
## relevel(Contract.change, ref = "No change")Short-time reduced 1.720909
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  2.175794
## relevel(Contract.change, ref = "No change")Job loss
                                                                  3.520267
## Liv.situationPartner/Family/Flatshare
                                                                  2.118688
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                  2.074597
## relevel(Ovrl_HO, ref = "None")New
                                                                  1.756053
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  1.080052
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  2.800705
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  1.134914
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  1.441473
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                  1.883259
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  1.662360
# Mental well-being
ord5 <- polr(mwb.cat ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No chan
exp(coefficients(ord5))
##
                                                       GenderMale
##
                                                        1.0422960
##
                                               CountrySwitzerland
##
                                                        0.9164552
##
                                                     Age.cat31-40
##
                                                        1.0653308
##
                                                     Age.cat41-50
##
                                                        1.2537878
##
                                                     Age.cat51-60
##
                                                        1.5476030
##
                                                     Age.cat61-65
##
                                                        2.2396450
##
                                               edu_cat.bSecondary
##
                                                        1.1792041
##
                                                edu_cat.bTertiary
##
                                                        1.1265758
```

relevel(Contract.change, ref = "No change")Short-time reduced 1.0112060

```
## relevel(Contract.change, ref = "No change")Short-time reduced
##
                                                         0.9537203
##
         relevel(Contract.change, ref = "No change")Short-time 0
##
                                                         0.5706529
##
             relevel(Contract.change, ref = "No change")Job loss
##
                                                         0.7282156
                            Liv.situationPartner/Family/Flatshare
##
##
                                                         1.1537617
##
                       relevel(Ovrl_HO, ref = "None")Experienced
##
                                                         1.0522501
##
                                relevel(Ovrl_HO, ref = "None")New
##
                                                         1.1364849
##
                   relevel(Freetime, ref = "Unchanged")Decreased
                                                         0.8121531
##
##
                   relevel(Freetime, ref = "Unchanged")Increased
##
                                                         1.2339215
##
                  relevel(Work_time, ref = "Unchanged")Decreased
##
                                                         1.1395597
##
                  relevel(Work_time, ref = "Unchanged")Increased
##
                                                         1.1973091
##
              relevel(Caring_duties, ref = "Unchanged")Decreased
##
                                                         1.0623248
              relevel(Caring_duties, ref = "Unchanged")Increased
##
                                                         0.9965195
##
##
                                                      Work.wors.32
##
                                                         0.7108598
##
                                                      Work.wors.33
                                                         0.6068512
##
##
                                                       Work.imp.32
##
                                                         0.8961589
##
                                                       Work.imp.33
##
                                                         1.0713671
##
                                                    Privat.wors.32
##
                                                         0.8011573
##
                                                    Privat.wors.33
##
                                                         0.6148731
##
                                                     Privat.imp.32
##
                                                         1.0358630
##
                                                     Privat.imp.33
##
                                                         1.3974512
```

exp(confint(ord5))

Waiting for profiling to be done...

```
## CountrySwitzerland 0.8933734
## CountrySwitzerland 0.7642798
## Age.cat31-40 0.7930525
## Age.cat41-50 0.9374500
## Age.cat51-60 1.1646286
## Age.cat61-65 1.5865040
## edu_cat.bSecondary 0.8165072
```

```
## edu cat.bTertiary
                                                                   0.7748589
## relevel(Contract.change, ref = "No change")Short-time reduced 0.7342298
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                  0.4106128
## relevel(Contract.change, ref = "No change")Job loss
                                                                   0.3516185
## Liv.situationPartner/Family/Flatshare
                                                                   0.9628089
## relevel(Ovrl HO, ref = "None")Experienced
                                                                  0.8776672
## relevel(Ovrl HO, ref = "None")New
                                                                   0.9214433
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  0.6458778
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   1.0061520
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  0.9018131
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  0.9066082
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                   0.7691518
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                   0.8019717
## Work.wors.32
                                                                   0.5766147
## Work.wors.33
                                                                   0.4853344
## Work.imp.32
                                                                   0.7128568
## Work.imp.33
                                                                   0.8141640
## Privat.wors.32
                                                                   0.6509710
## Privat.wors.33
                                                                   0.5044965
## Privat.imp.32
                                                                   0.8334670
## Privat.imp.33
                                                                   1.0839741
                                                                     97.5 %
## GenderMale
                                                                   1.2160398
## CountrySwitzerland
                                                                   1.0989264
## Age.cat31-40
                                                                   1.4314371
## Age.cat41-50
                                                                   1.6775426
## Age.cat51-60
                                                                   2.0577855
## Age.cat61-65
                                                                   3.1648248
## edu_cat.bSecondary
                                                                   1.7042264
## edu_cat.bTertiary
                                                                   1.6393123
## relevel(Contract.change, ref = "No change")Short-time reduced 1.2388921
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   0.7927167
## relevel(Contract.change, ref = "No change") Job loss
                                                                   1.5150878
## Liv.situationPartner/Family/Flatshare
                                                                   1.3826983
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   1.2616664
## relevel(Ovrl_HO, ref = "None")New
                                                                   1.4018632
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                  1.0209663
## relevel(Freetime, ref = "Unchanged")Increased
                                                                  1.5135677
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                  1.4400585
## relevel(Work_time, ref = "Unchanged")Increased
                                                                  1.5820923
## relevel(Caring duties, ref = "Unchanged")Decreased
                                                                  1.4676497
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                  1.2381870
## Work.wors.32
                                                                  0.8759811
## Work.wors.33
                                                                  0.7584924
## Work.imp.32
                                                                   1.1263951
## Work.imp.33
                                                                   1.4099394
## Privat.wors.32
                                                                   0.9858660
## Privat.wors.33
                                                                   0.7491296
## Privat.imp.32
                                                                   1.2873816
## Privat.imp.33
                                                                   1.8020891
```

```
# Self-rated health
ord6 <- polr(srh ~ Gender + Country + Age.cat + edu_cat.b + relevel(Contract.change, ref = "No change")
exp(coefficients(ord6))</pre>
```

```
##
                                                        GenderMale
##
                                                         0.8441806
                                                CountrySwitzerland
##
                                                          1.6231260
##
                                                      Age.cat31-40
##
                                                         0.8436521
##
                                                      Age.cat41-50
##
                                                         0.6039255
                                                      Age.cat51-60
##
##
                                                         0.4634165
                                                      Age.cat61-65
##
                                                         0.4645842
##
                                                edu_cat.bSecondary
##
                                                         0.9084084
##
                                                 edu_cat.bTertiary
##
                                                          0.8348948
   relevel(Contract.change, ref = "No change")Short-time reduced
##
##
##
         relevel(Contract.change, ref = "No change")Short-time 0
##
                                                          0.4964601
##
             relevel(Contract.change, ref = "No change") Job loss
##
##
                            Liv.situationPartner/Family/Flatshare
                                                          1.1412855
##
                       relevel(Ovrl_HO, ref = "None")Experienced
##
                                                         0.9850409
                                relevel(Ovrl_HO, ref = "None")New
##
                                                          1.0665283
##
                   relevel(Freetime, ref = "Unchanged")Decreased
##
##
                                                          0.9219813
                   relevel(Freetime, ref = "Unchanged")Increased
##
##
                                                          1.4513966
                  relevel(Work_time, ref = "Unchanged")Decreased
##
##
                                                          1.0197447
##
                  relevel(Work_time, ref = "Unchanged")Increased
##
                                                          1.1677709
##
              relevel(Caring_duties, ref = "Unchanged")Decreased
##
                                                          0.8217287
##
              relevel(Caring_duties, ref = "Unchanged")Increased
##
                                                          1.0595499
##
                                                      Work.wors.32
##
                                                         0.9060982
                                                      Work.wors.33
##
                                                         0.7633037
                                                       Work.imp.32
                                                         0.8460000
##
##
                                                       Work.imp.33
##
                                                         0.9433892
##
                                                    Privat.wors.32
##
                                                         0.6660763
##
                                                    Privat.wors.33
                                                         0.6684191
##
##
                                                     Privat.imp.32
                                                         1.0424613
##
```

```
## Privat.imp.33
## 1.1023334
```

exp(confint(ord6))

Waiting for profiling to be done...

```
##
                                                                       2.5 %
## GenderMale
                                                                   0.7142735
## CountrySwitzerland
                                                                   1.3291918
## Age.cat31-40
                                                                   0.6098276
                                                                   0.4380922
## Age.cat41-50
## Age.cat51-60
                                                                   0.3383799
## Age.cat61-65
                                                                   0.3189227
## edu_cat.bSecondary
                                                                   0.6070786
## edu_cat.bTertiary
                                                                   0.5547337
## relevel(Contract.change, ref = "No change")Short-time reduced 0.6771458
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   0.3487418
## relevel(Contract.change, ref = "No change") Job loss
                                                                   0.3464258
## Liv.situationPartner/Family/Flatshare
                                                                   0.9394769
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   0.8084441
## relevel(Ovrl_HO, ref = "None")New
                                                                   0.8523149
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   0.7233300
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   1.1597479
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                   0.7895261
## relevel(Work time, ref = "Unchanged") Increased
                                                                   0.8661947
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                   0.5772042
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                   0.8395948
## Work.wors.32
                                                                   0.7217468
## Work.wors.33
                                                                   0.5997132
## Work.imp.32
                                                                   0.6602527
## Work.imp.33
                                                                   0.7009573
## Privat.wors.32
                                                                   0.5333800
## Privat.wors.33
                                                                   0.5393232
## Privat.imp.32
                                                                   0.8249087
## Privat.imp.33
                                                                   0.8324221
##
                                                                      97.5 %
## GenderMale
                                                                   0.9974545
## CountrySwitzerland
                                                                   1.9839477
## Age.cat31-40
                                                                   1.1662384
## Age.cat41-50
                                                                   0.8314914
## Age.cat51-60
                                                                   0.6335726
## Age.cat61-65
                                                                   0.6760396
## edu_cat.bSecondary
                                                                   1.3559181
## edu_cat.bTertiary
                                                                   1.2534151
## relevel(Contract.change, ref = "No change")Short-time reduced 1.1896894
## relevel(Contract.change, ref = "No change")Short-time 0
                                                                   0.7064855
## relevel(Contract.change, ref = "No change") Job loss
                                                                   1.8267224
## Liv.situationPartner/Family/Flatshare
                                                                   1.3863481
## relevel(Ovrl_HO, ref = "None")Experienced
                                                                   1.2004046
## relevel(Ovrl_HO, ref = "None")New
                                                                   1.3349981
## relevel(Freetime, ref = "Unchanged")Decreased
                                                                   1.1753194
## relevel(Freetime, ref = "Unchanged")Increased
                                                                   1.8174655
```

```
## relevel(Work_time, ref = "Unchanged")Decreased
                                                                 1.3174620
## relevel(Work_time, ref = "Unchanged")Increased
                                                                 1.5762685
## relevel(Caring_duties, ref = "Unchanged")Decreased
                                                                 1.1709026
## relevel(Caring_duties, ref = "Unchanged")Increased
                                                                 1.3376298
## Work.wors.32
                                                                 1.1375376
## Work.wors.33
                                                                 0.9714374
## Work.imp.32
                                                                 1.0839799
## Work.imp.33
                                                                 1.2704581
## Privat.wors.32
                                                                 0.8314925
## Privat.wors.33
                                                                 0.8280767
## Privat.imp.32
                                                                 1.3178055
## Privat.imp.33
                                                                 1.4608616
```