COMPAR - Informal care

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23-07-2020

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#Run mixed model#  
informal\_care\_pred <- glmer(formula = inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 +   
 stroke\_new2 + CKD\_new2 + (1 | mergeid), data = IC, family = binomial)

##Mixed model (all countries)

informal\_care\_pred

## Generalized linear mixed model fit by maximum likelihood (Laplace  
## Approximation) [glmerMod]  
## Family: binomial ( logit )  
## Formula:   
## inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 + stroke\_new2 +   
## CKD\_new2 + (1 | mergeid)  
## Data: IC  
## AIC BIC logLik deviance df.resid   
## 11372.833 11423.598 -5679.417 11358.833 10419   
## Random effects:  
## Groups Name Std.Dev.  
## mergeid (Intercept) 1.244   
## Number of obs: 10426, groups: mergeid, 5228  
## Fixed Effects:  
## (Intercept) factor(gender)2 scale(age) heartattack\_new2   
## -1.8322 0.4369 0.6316 0.4805   
## stroke\_new2 CKD\_new2   
## 0.5426 0.2713

#Country specific regression model#  
  
#Germany  
informal\_care\_pred\_DE <- glmer(formula = inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 +   
 stroke\_new2 + CKD\_new2 + DE + (1 | mergeid), data = IC, family = binomial)  
#Greece  
informal\_care\_pred\_GR <- glmer(formula = inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 +   
 stroke\_new2 + CKD\_new2 + GR + (1 | mergeid), data = IC, family = binomial)   
#Spain  
informal\_care\_pred\_ES <- glmer(formula = inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 +   
 stroke\_new2 + CKD\_new2 + ES + (1 | mergeid), data = IC, family = binomial)   
#The Netherlands  
informal\_care\_pred\_NL <- glmer(formula = inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 +   
 stroke\_new2 + CKD\_new2 + NL + (1 | mergeid), data = IC, family = binomial)

##Country-specific mixed models

### Germany

informal\_care\_pred\_DE

## Generalized linear mixed model fit by maximum likelihood (Laplace  
## Approximation) [glmerMod]  
## Family: binomial ( logit )  
## Formula:   
## inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 + stroke\_new2 +   
## CKD\_new2 + DE + (1 | mergeid)  
## Data: IC  
## AIC BIC logLik deviance df.resid   
## 11372.547 11430.563 -5678.273 11356.547 10418   
## Random effects:  
## Groups Name Std.Dev.  
## mergeid (Intercept) 1.242   
## Number of obs: 10426, groups: mergeid, 5228  
## Fixed Effects:  
## (Intercept) factor(gender)2 scale(age) heartattack\_new2   
## -1.8472 0.4405 0.6307 0.4821   
## stroke\_new2 CKD\_new2 DE   
## 0.5431 0.2744 0.2044

### Greece

informal\_care\_pred\_GR

## Generalized linear mixed model fit by maximum likelihood (Laplace  
## Approximation) [glmerMod]  
## Family: binomial ( logit )  
## Formula:   
## inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 + stroke\_new2 +   
## CKD\_new2 + GR + (1 | mergeid)  
## Data: IC  
## AIC BIC logLik deviance df.resid   
## 11374.24 11432.26 -5679.12 11358.24 10418   
## Random effects:  
## Groups Name Std.Dev.  
## mergeid (Intercept) 1.244   
## Number of obs: 10426, groups: mergeid, 5228  
## Fixed Effects:  
## (Intercept) factor(gender)2 scale(age) heartattack\_new2   
## -1.8369 0.4344 0.6309 0.4827   
## stroke\_new2 CKD\_new2 GR   
## 0.5448 0.2704 0.1133

### Spain

informal\_care\_pred\_ES

## Generalized linear mixed model fit by maximum likelihood (Laplace  
## Approximation) [glmerMod]  
## Family: binomial ( logit )  
## Formula:   
## inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 + stroke\_new2 +   
## CKD\_new2 + ES + (1 | mergeid)  
## Data: IC  
## AIC BIC logLik deviance df.resid   
## 11366.601 11424.618 -5675.301 11350.601 10418   
## Random effects:  
## Groups Name Std.Dev.  
## mergeid (Intercept) 1.239   
## Number of obs: 10426, groups: mergeid, 5228  
## Fixed Effects:  
## (Intercept) factor(gender)2 scale(age) heartattack\_new2   
## -1.8017 0.4348 0.6422 0.4778   
## stroke\_new2 CKD\_new2 ES   
## 0.5266 0.2704 -0.3715

### The Netherlands

informal\_care\_pred\_NL

## Generalized linear mixed model fit by maximum likelihood (Laplace  
## Approximation) [glmerMod]  
## Family: binomial ( logit )  
## Formula:   
## inf\_care ~ factor(gender) + scale(age) + heartattack\_new2 + stroke\_new2 +   
## CKD\_new2 + NL + (1 | mergeid)  
## Data: IC  
## AIC BIC logLik deviance df.resid   
## 11374.313 11432.329 -5679.157 11358.313 10418   
## Random effects:  
## Groups Name Std.Dev.  
## mergeid (Intercept) 1.244   
## Number of obs: 10426, groups: mergeid, 5228  
## Fixed Effects:  
## (Intercept) factor(gender)2 scale(age) heartattack\_new2   
## -1.8264 0.4356 0.6306 0.4789   
## stroke\_new2 CKD\_new2 NL   
## 0.5448 0.2686 -0.1319