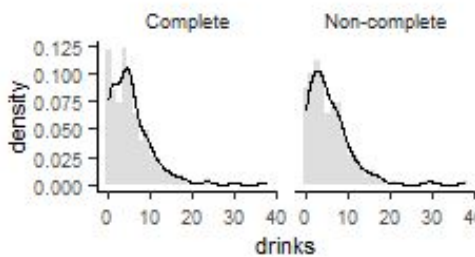
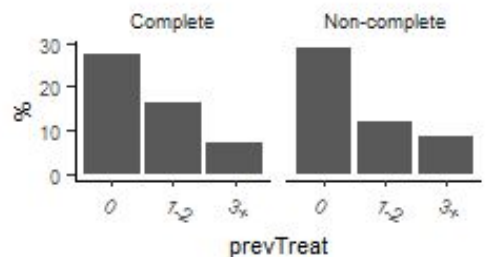
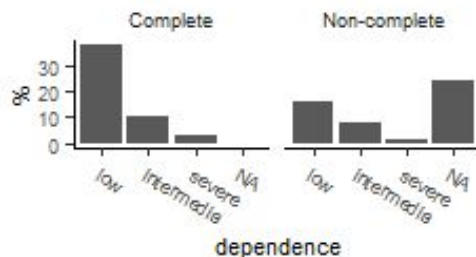
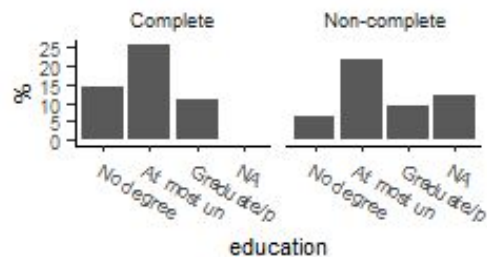
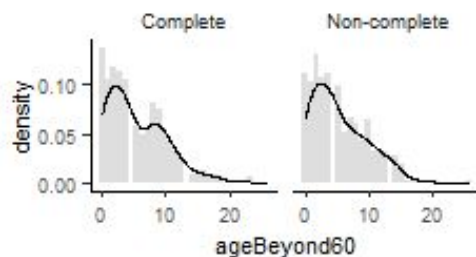
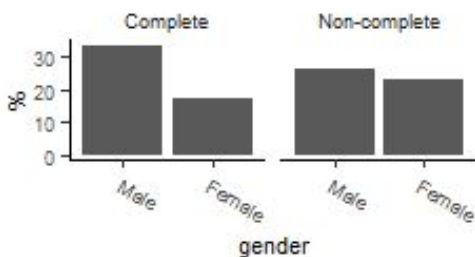
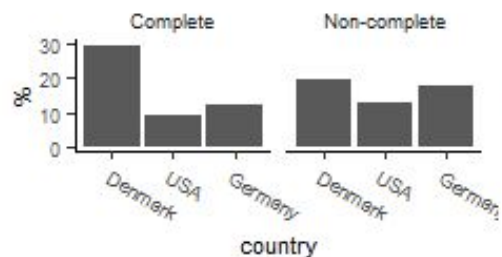


Alcodata1

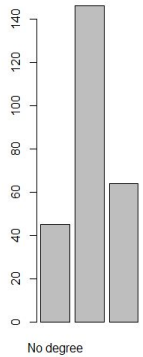
Exploratory analysis

Distributions of variables, stratified by complete case status

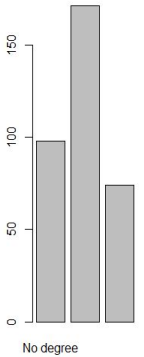


Distributions of variables, stratified by complete case status

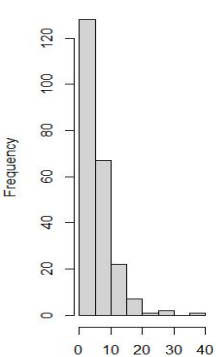
Non-complete, Educator



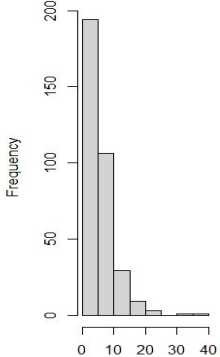
Complete, Education



Non-complete, Drinks

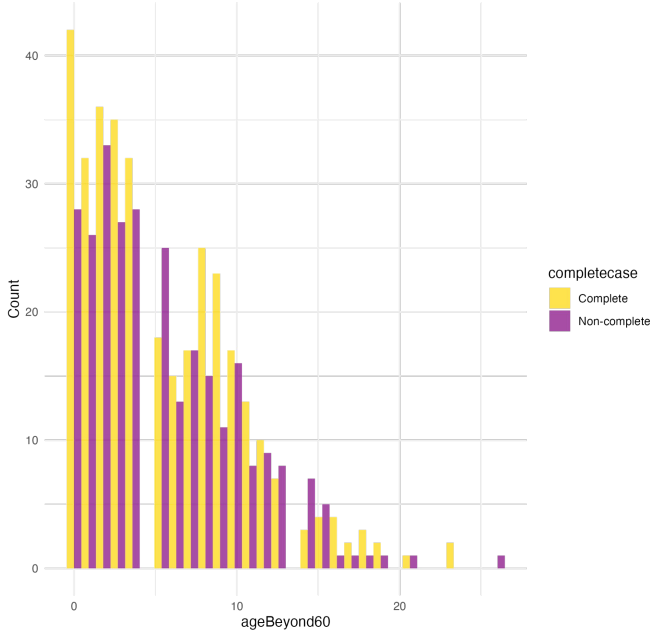


Complete, Drinks



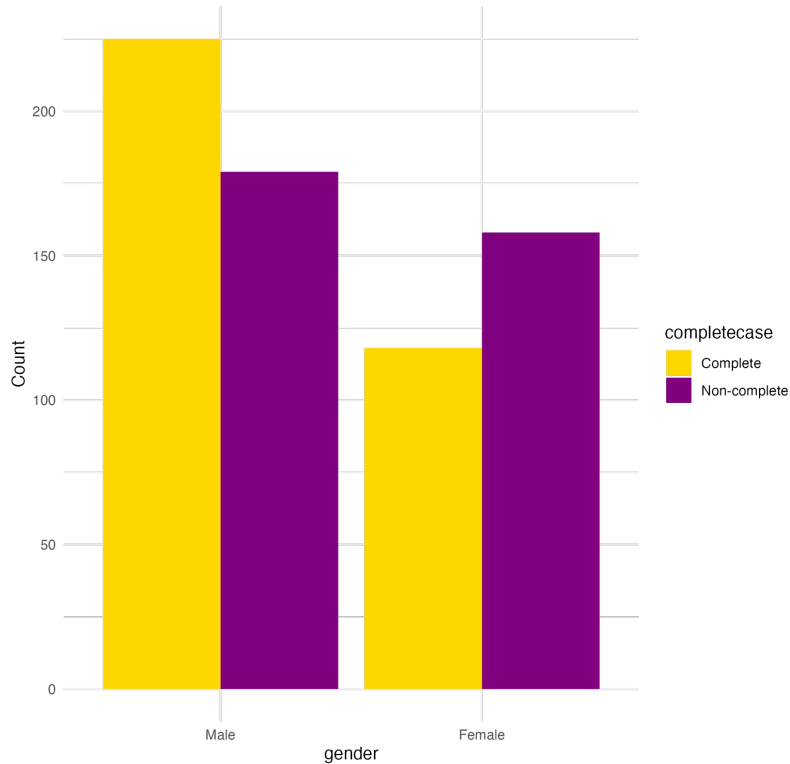
`$drinks[alcodata1$completecase == '1']$drinks[alcodata1$completecase ==`

Distribution of ageBeyond60 stratified by completecase

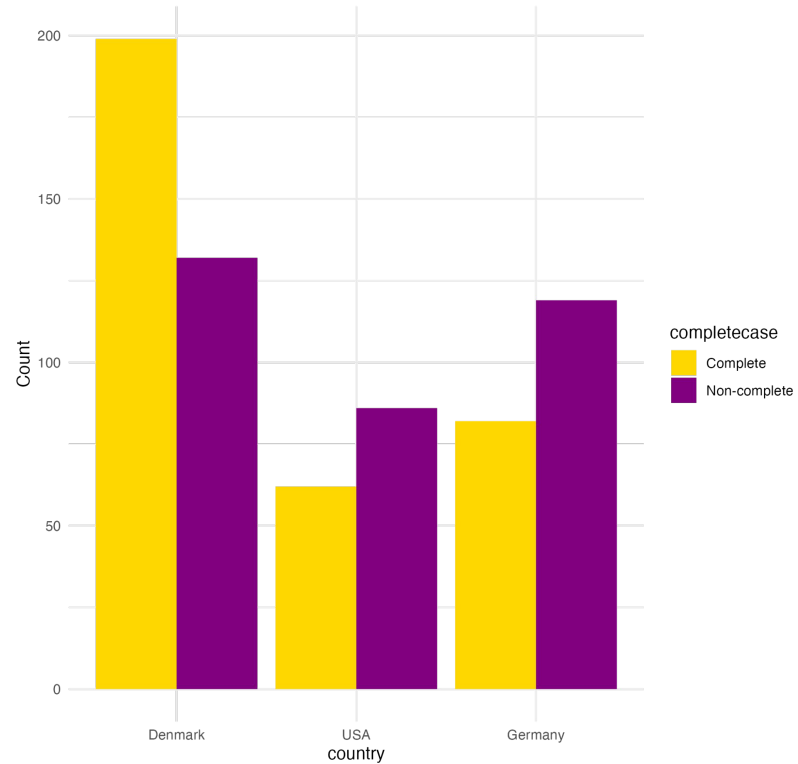


Distributions of variables, stratified by complete case status

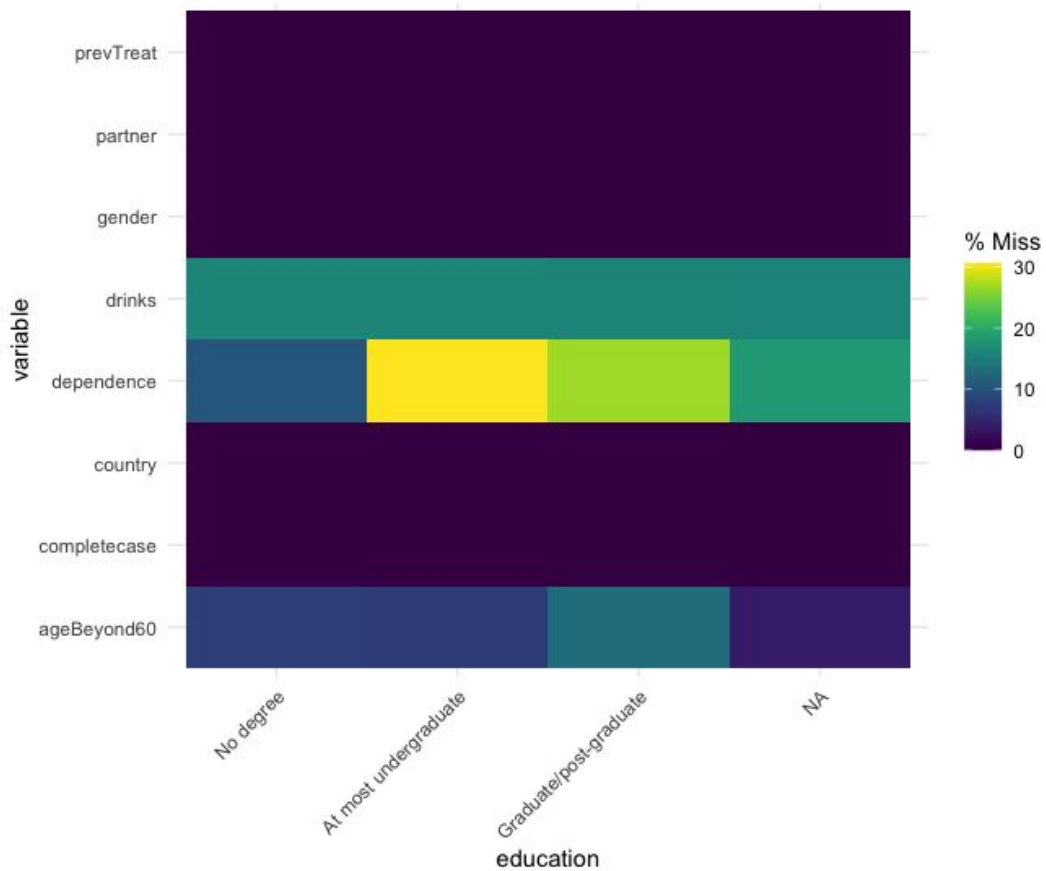
Distribution of gender stratified by completecase



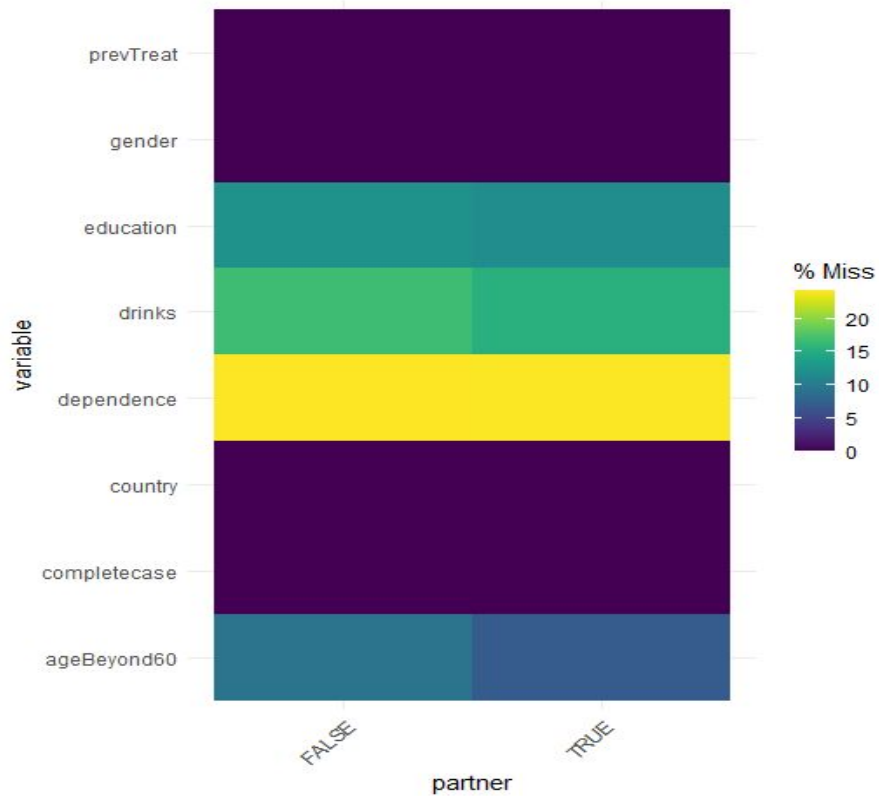
Distribution of country stratified by completecase



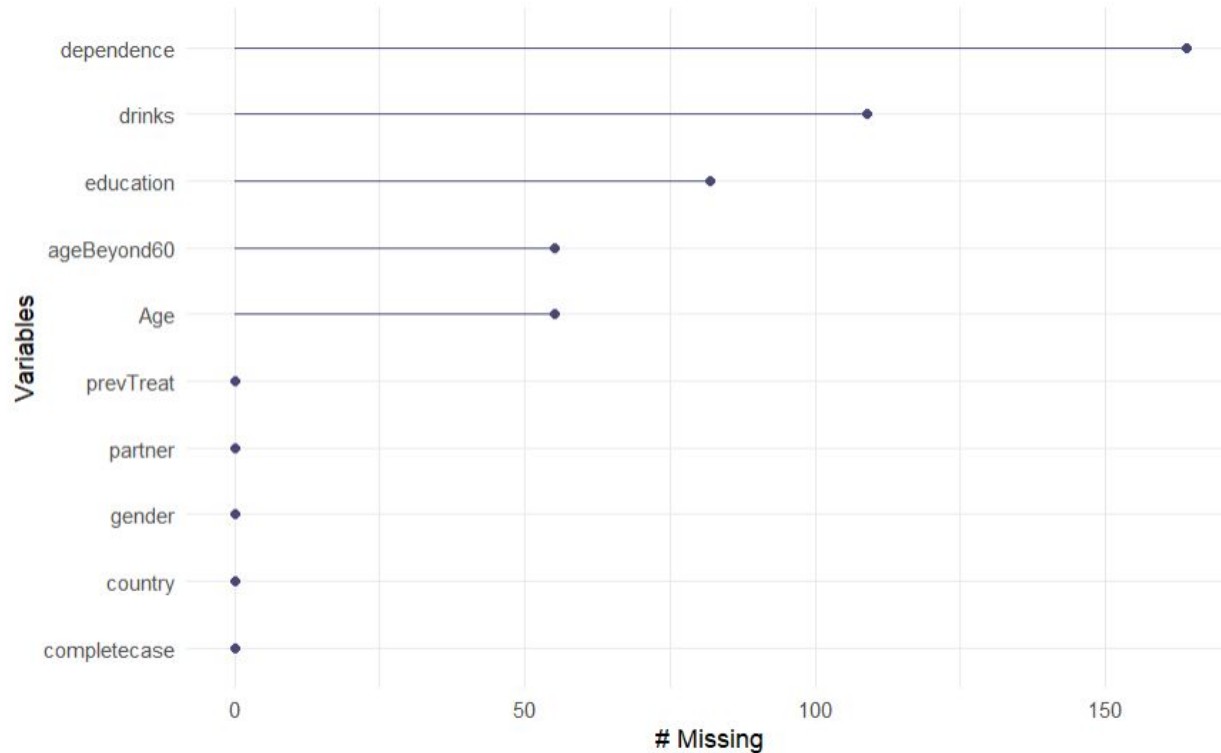
Patterns of missing information

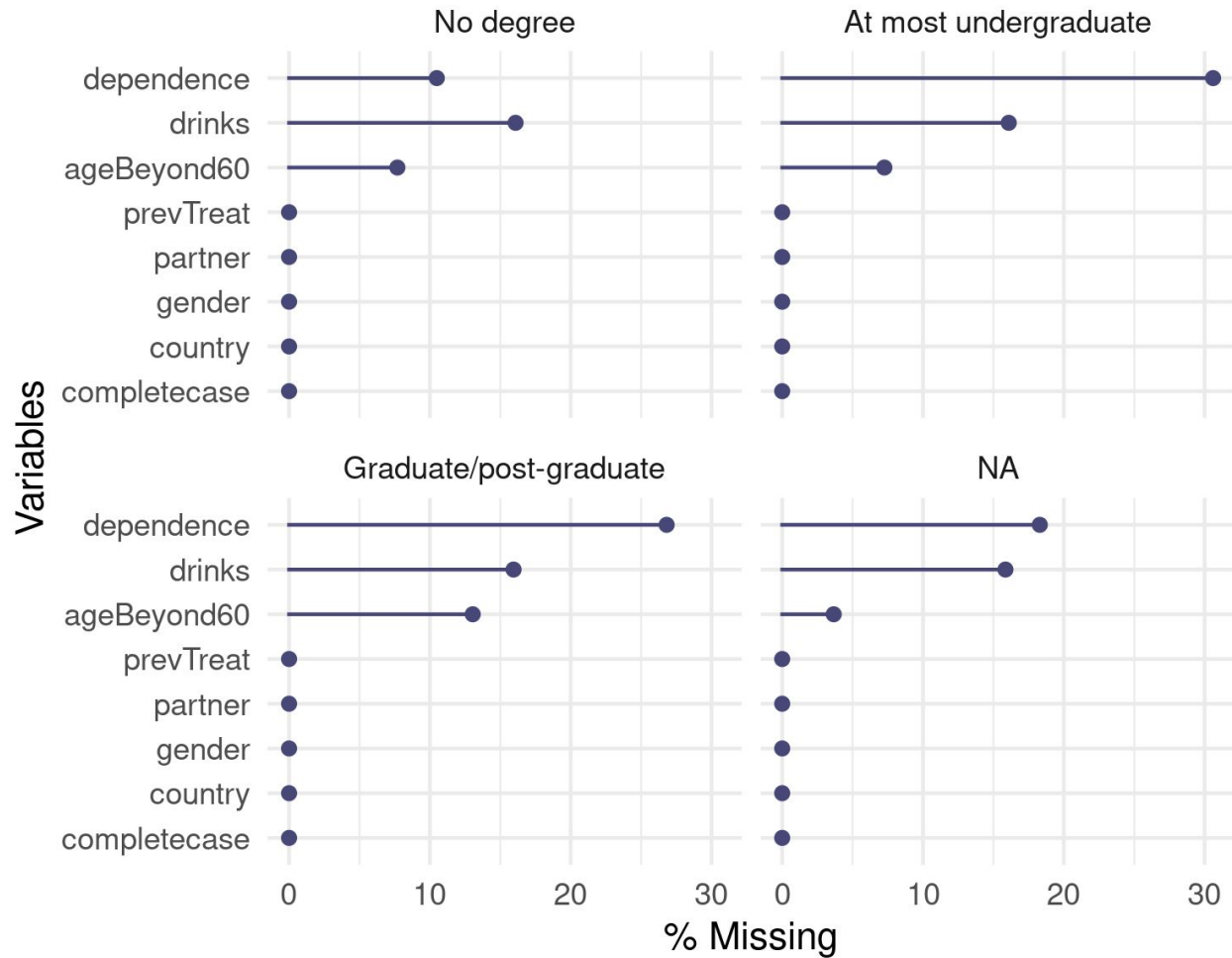


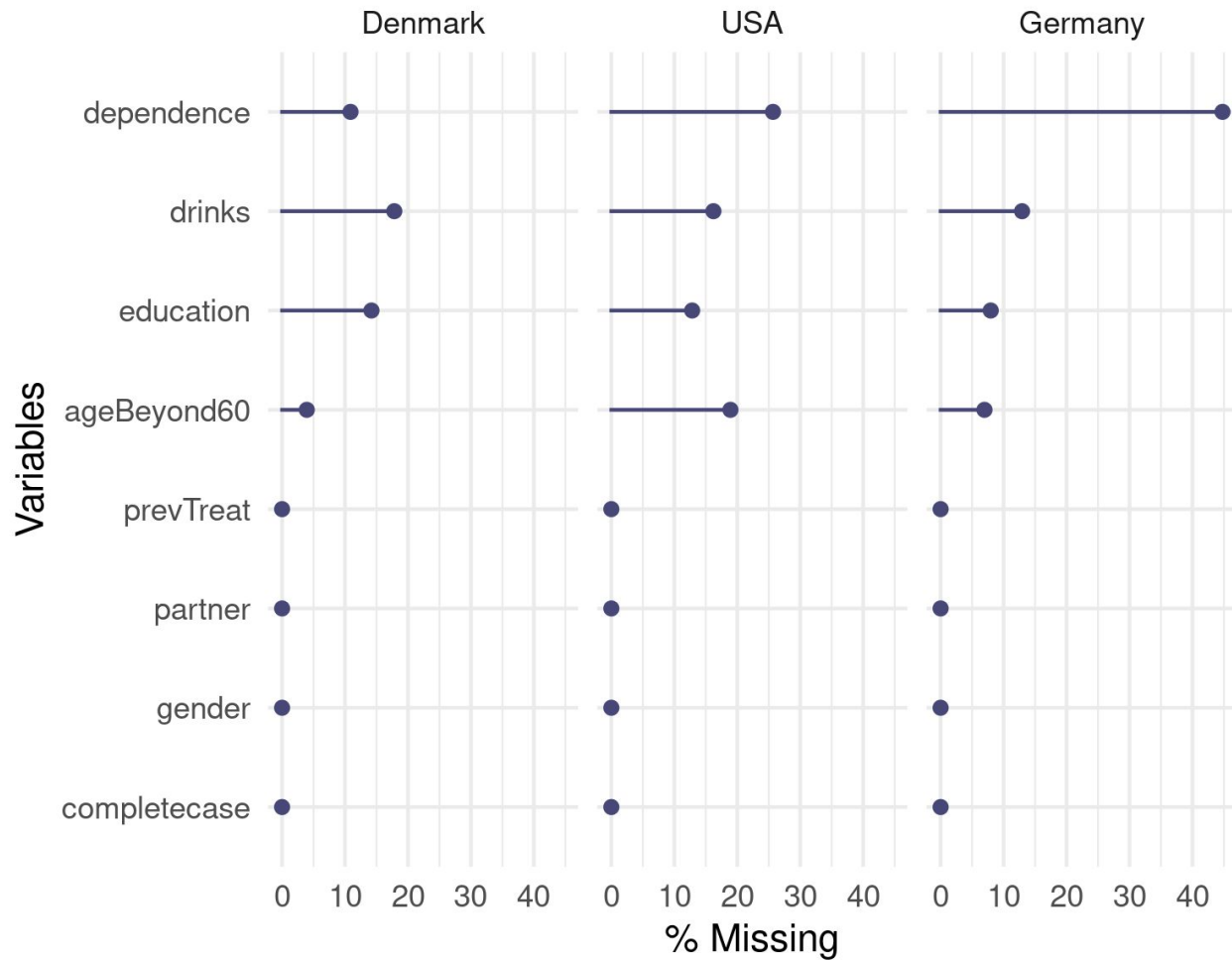
Patterns of missing information



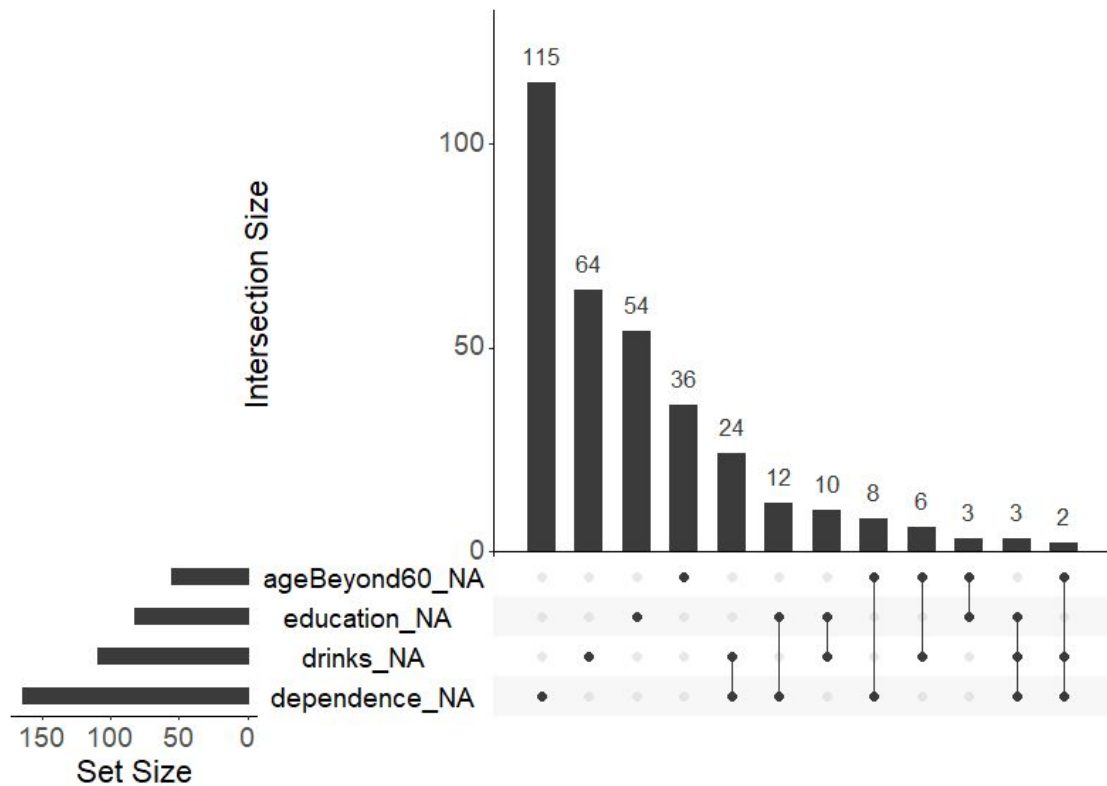
Patterns of missing information



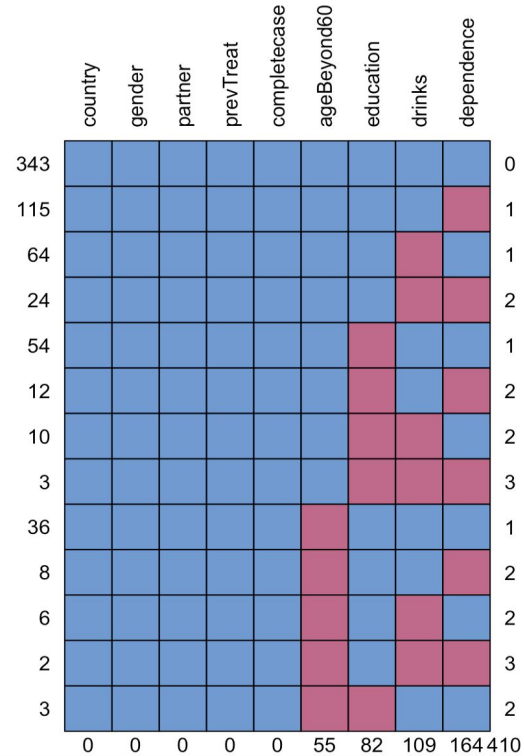


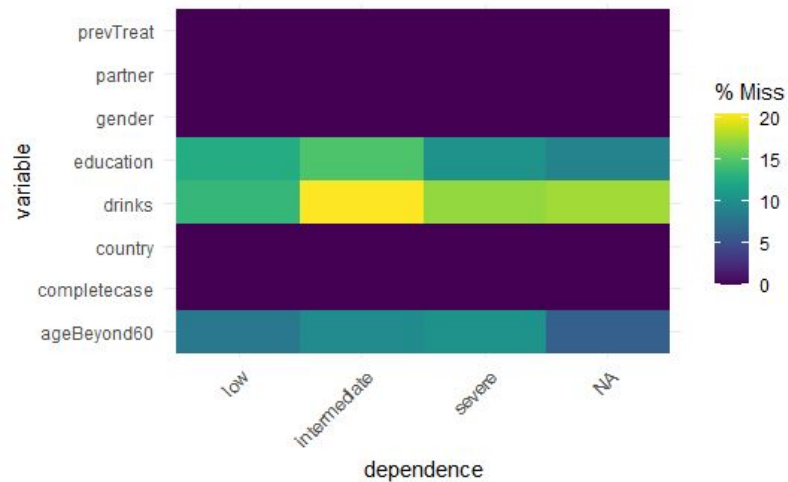
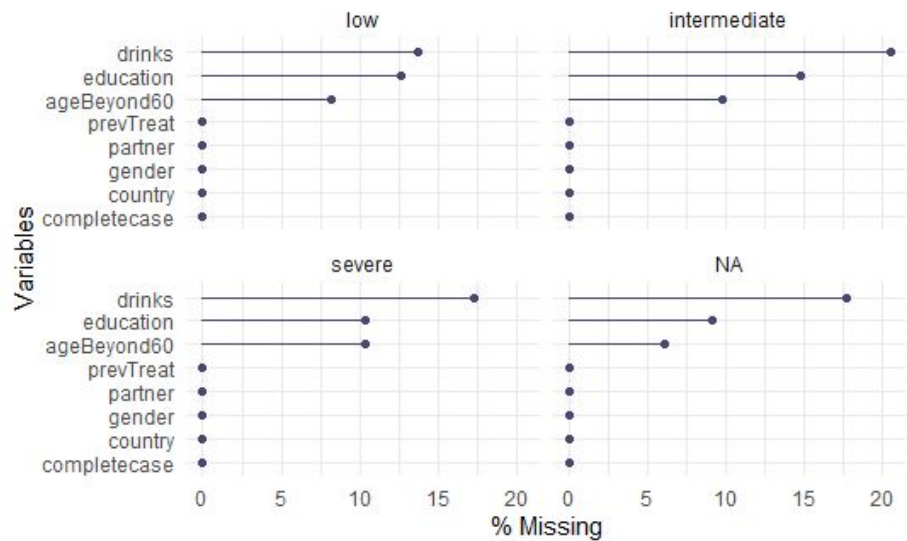


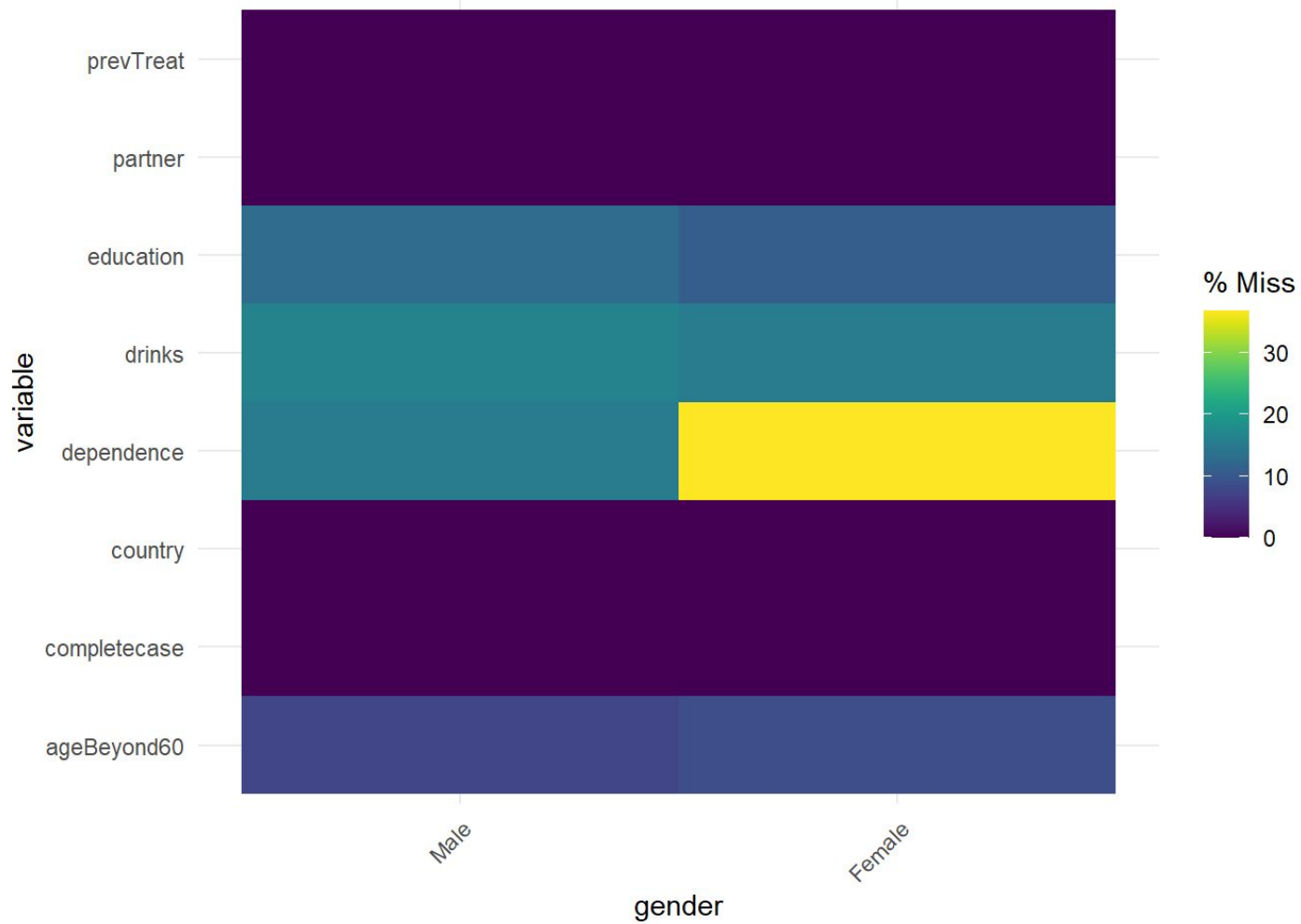
Patterns of missing information



Patterns of missing information







Overall non-response analysis

```
Call:
glm(formula = completecase == "Non-complete" ~ country + gender +
     partner + prevTreat, family = "binomial", data = alcodata1)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.7015  -1.1052  -0.8669   1.1250   1.5237

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)  -0.72058    0.19747  -3.649 0.000263 ***
countryUSA    0.80893    0.20991   3.854 0.000116 ***
countryGermany 0.82387    0.20081   4.103 4.08e-05 ***
genderFemale  0.49174    0.16453   2.989 0.002800 **
partnerTRUE   0.03628    0.16445   0.221 0.825389
prevTreat1-2 -0.06457    0.19246  -0.336 0.737238
prevTreat3+   0.54823    0.24582   2.230 0.025733 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 942.63  on 679  degrees of freedom
Residual deviance: 903.09  on 673  degrees of freedom
AIC: 917.09

Number of Fisher Scoring iterations: 4
```

Overall non-response analysis

Single term deletions

Model:

```
completecase == "Non-complete" ~ country + education + partner +  
  prevTreat
```

	Df	Deviance	AIC	LRT	Pr(>Chi)	
<none>		770.19	786.19			
country	2	801.49	813.49	31.3001	1.597e-07	***
education	2	772.21	784.21	2.0146	0.36520	
partner	1	770.30	784.30	0.1037	0.74743	
prevTreat	2	777.16	789.16	6.9653	0.03073	*

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Overall non-response analysis

```
Single term deletions

Model:
completecase == "Non-complete" ~ country + gender + partner +
  prevTreat

```

	Df	Deviance	AIC	LRT	Pr(>Chi)	
<none>		903.09	917.09			
country	2	926.45	936.45	23.3602	8.461e-06	***
gender	1	912.09	924.09	8.9999	0.00270	**
partner	1	903.14	915.14	0.0487	0.82536	
prevTreat	2	909.56	919.56	6.4714	0.03933	*

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```


Variable-specific non-response analysis: drinks

Single term deletions

Model:

```
is.na(drinks) ~ country + gender + ageBeyond60 + partner + education +  
dependence + prevTreat
```

	Df	Deviance	AIC	LRT	Pr(>Chi)
<none>		336.45	360.45		
country	2	336.47	356.47	0.0211	0.989482
gender	1	336.45	358.45	0.0043	0.947890
ageBeyond60	1	336.61	358.61	0.1653	0.684302
partner	1	337.38	359.38	0.9295	0.334988
education	2	336.52	356.52	0.0777	0.961911
dependence	2	340.91	360.91	4.4608	0.107488
prevTreat	2	347.15	367.15	10.7039	0.004739 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable-specific non-response analysis: age

Single term deletions

Model:
is.na(ageBeyond60) ~ country + gender + drinks + partner + education +
dependence + prevTreat

	Df	Deviance	AIC	LRT	Pr(>Chi)	
<none>		212.79	236.79			
country	2	226.36	246.36	13.5682	0.001132	**
gender	1	213.30	235.30	0.5135	0.473618	
drinks	1	214.20	236.20	1.4051	0.235865	
partner	1	212.81	234.81	0.0240	0.876826	
education	2	214.82	234.82	2.0301	0.362386	
dependence	2	215.57	235.57	2.7775	0.249392	
prevTreat	2	214.44	234.44	1.6441	0.439534	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable-specific non-response analysis: dependence

Single term deletions

Model:

is.na(dependence) ~ country + gender + drinks + partner + prevTreat

	Df	Deviance	AIC	LRT	Pr(>Chi)	
<none>		508.65	524.65			
country	2	583.55	595.55	74.904	< 2.2e-16	***
gender	1	534.73	548.73	26.082	3.271e-07	***
drinks	1	508.75	522.75	0.109	0.7417	
partner	1	508.65	522.65	0.001	0.9792	
prevTreat	2	510.99	522.99	2.346	0.3094	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Variable-specific non-response analysis: education

Single term deletions

Model:

is.na(education) ~ country + gender + partner + prevTreat

	Df	Deviance	AIC	LRT	Pr(>Chi)
<none>		492.94	506.94		
country	2	499.01	509.01	6.0688	0.0481 *
gender	1	493.32	505.32	0.3764	0.5396
partner	1	492.95	504.95	0.0081	0.9284
prevTreat	2	495.28	505.28	2.3320	0.3116

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Other things

Cat for happy smiles



Conclusions so far

- Best guesses for type of missing data mechanism (MCAR/MAR/MNAR):
 - Age: MCAR
 - Dependence: MAR –
 - Education: MCAR ()
 - Drinks: MCAR
-

