Online Supplement A

Detailed Results for Analyses in Paper

For paper “Sexual Orientation Differences in Treatment Expectation, Alliance, and Outcome. Findings from Patients at Risk for Suicide in a Public Psychiatric Hospital”

Content

1 Comments to Statistical Analysis

These supplemental statistical results are carried out with R 3.1.3 using additional packages suc as "psych" and "rms" (for some descriptive tabulation), ggplot2 (for interaction plots), BayesFactor (for Bayesian analysis), and foreign (for importing SPSS files).

For Bayesian analysis, Bayes factors (BF) were calculated for the ANOVAs with R's BayesFactor package (Morey and Rouder 2015).
BF < 1 means that the data are more likely under H_0 (grand mean only) than H_1 (sexual orientation effect). We used the qualitative interpretation of the BF according to Jeffreys (from Jarosz and Wiley 2014).

Support for H_0 over H_1	*Support for H_1 over H_0*	*Interpretation of Evidence*
1 – 0.33	1 – 3	Anecdotal
.33 – .10	3 – 10	Substantial
.10 – .03	10 – 30	Strong
.03 – .01	30 – 100	Very strong
<.01	>100	Decisive

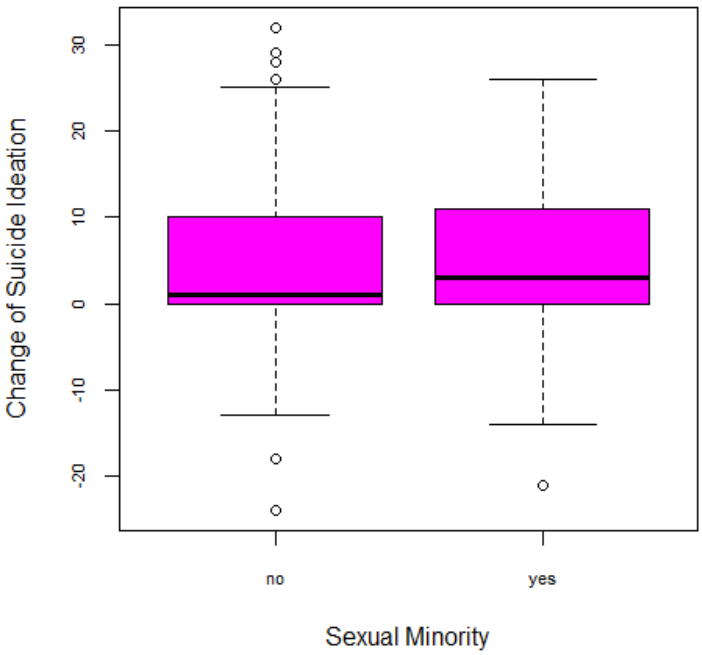
For the Bayesian One-Way ANOVAS, parameters of posterior distributions are calculated with sexual orientation as predictor variable. "mu" is the grand mean, and posteriors of the deviations from the grand mean for each categorical predictor level are given (mean, SD, quantiles) in the tables.

All statistically significant ($p < .05$) or, for Bayesian ANOVA analysis, posterior credible intervals of differences from the grand mean not covering zero are highlighted in yellow.

Jarosz, A. F. and J. Wiley. 2014. "What are the odds? A practical guide to computing and reporting Bayes factors." *The Journal of Problem Solving* 7(1): 2.
Morey, R. D. and J. N. Rouder. 2015. *BayesFactor: Computation of Bayes Factors for Common Designs. R package version 0.9.12-2* (release.

2 Treatment Outcome – Difference Intake-Discharge Assessments

2.1 Change of Suicide Ideation



Linear Regression, with heterosexuals as baseline

```
Residuals:
    Min      1Q  Median      3Q     Max
-28.797  -4.797  -3.305   5.203  27.203

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   4.7968     0.3475  13.804   <2e-16 ***
smyes         0.5085     0.7639   0.666    0.506
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.786 on 631 degrees of freedom
Multiple R-squared:  0.0007019,       Adjusted R-squared:  -0.0008818
F-statistic: 0.4432 on 1 and 631 DF,  p-value: 0.5058
```

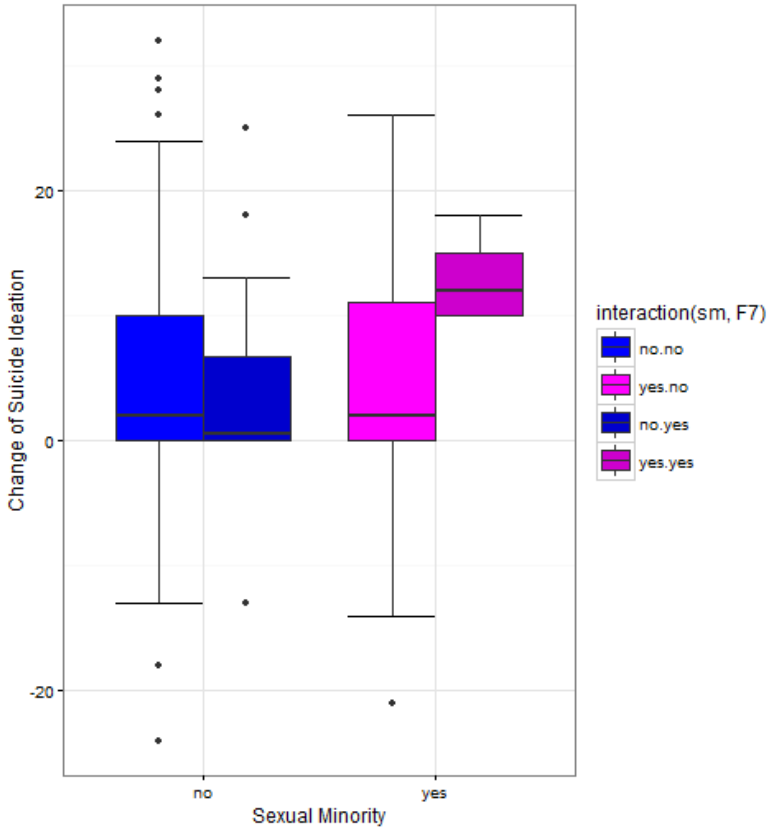
Bayesian One-Way-ANOVAs

```
BF = 0.13 ±0.02% (Substant. evidence for H0 over H1)


1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

          Mean      SD Naive SE Time-series SE
mu      5.0492  0.3801 0.003801       0.003801
sm-no  -0.2439  0.3758 0.003758       0.003758
sm-yes  0.2439  0.3758 0.003758       0.003758
sig2   60.7228  3.4436 0.034436       0.034436
g_sm    1.1515 13.3176 0.133176       0.133176

2. Quantiles for each variable:

          2.5%       25%     50%       75%   97.5%
mu      4.29748  4.793581  5.0474  5.305148  5.7946
sm-no  -0.97895 -0.497677 -0.2442  0.009486  0.4832
sm-yes -0.48318 -0.009486  0.2442  0.497677  0.9789
sig2   54.29505 58.349486 60.5817 62.990751 67.9201
g_sm    0.03542  0.092409  0.1855  0.448949  4.6342
```

2.1.1 Interaction with Confounders

F7 Diagnosis

```
lm(formula = d_BSI ~ sm * F7)

Residuals:
   Min     1Q Median     3Q    Max
-28.83  -4.83  -3.00   5.17  27.17

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   4.8298     0.3559  13.569   <2e-16 ***
smyes         0.1702     0.7780   0.219    0.827
F7yes        -0.6375     1.5640  -0.408    0.684
smyes:F7yes   8.6375     3.8711   2.231    0.026 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.766 on 629 degrees of freedom
Multiple R-squared:  0.009005, Adjusted R-squared:  0.004278
F-statistic: 1.905 on 3 and 629 DF,  p-value: 0.1275
```



2.1.2 Adjusting for Confounders

Stepwise regression results for sociodemographics

```
Call:
lm(formula = d_BSI ~ nationality)

Residuals:
    Min      1Q  Median      3Q     Max
-27.227  -5.127  -3.127   4.873  28.773

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)    7.0278     1.1117   6.322 4.89e-10 ***
nationality   -1.9006     0.9549  -1.990 0.047 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.764 on 631 degrees of freedom
Multiple R-squared:  0.006239, Adjusted R-squared:  0.004664
F-statistic: 3.962 on 1 and 631 DF,  p-value: 0.04698
```

Stepwise regression results for diagnosis

```
Call:
lm(formula = d_BSI ~ F3 + F6)

Residuals:
    Min      1Q  Median      3Q     Max
-28.349  -5.169  -2.609   4.831  29.391

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   2.6094     0.6660   3.918 9.89e-05 ***
F3yes         2.5595     0.7228   3.541 0.000427 ***
F6yes         1.7396     0.7704   2.258 0.024277 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.7 on 630 degrees of freedom
Multiple R-squared:  0.02419,  Adjusted R-squared:  0.0211
F-statistic:  7.81 on 2 and 630 DF,  p-value: 0.000446
```

Full Multivariate Model

```
Call:
lm(formula = d_BSI ~ nationality + F3 + F7*sm + log(length_stay) * sm)

Residuals:
    Min      1Q  Median      3Q     Max
-26.363  -5.141  -2.676   4.662  30.568

Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
(Intercept)             3.2972     2.1011   1.569  0.11710
nationality            -1.6587     0.9499  -1.746  0.08127 .
F3yes                   2.1572     0.7224   2.986  0.00293 **
F7yes                  -0.5045     1.5524  -0.325  0.74528
smyes                   2.2559     3.6490   0.618  0.53666
log(length_stay)        0.5845     0.5730   1.020  0.30806
F7yes:smyes             8.1731     3.8412   2.128  0.03375 *
smyes:log(length_stay) -0.6770     1.1548  -0.586  0.55790
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.701 on 625 degrees of freedom
Multiple R-squared:  0.0317,   Adjusted R-squared:  0.02086
F-statistic: 2.923 on 7 and 625 DF,  p-value: 0.00512
```

Multivariate Bayesian Analysis

Bayes Factor:

1. Only Confounders: BF = 0.33
2. Full Model (Confounders + SM): BF = 0.01
3. Model 1 compared to model 2: BF = 29.07 (very strong evidence for Model 1 over model 2)

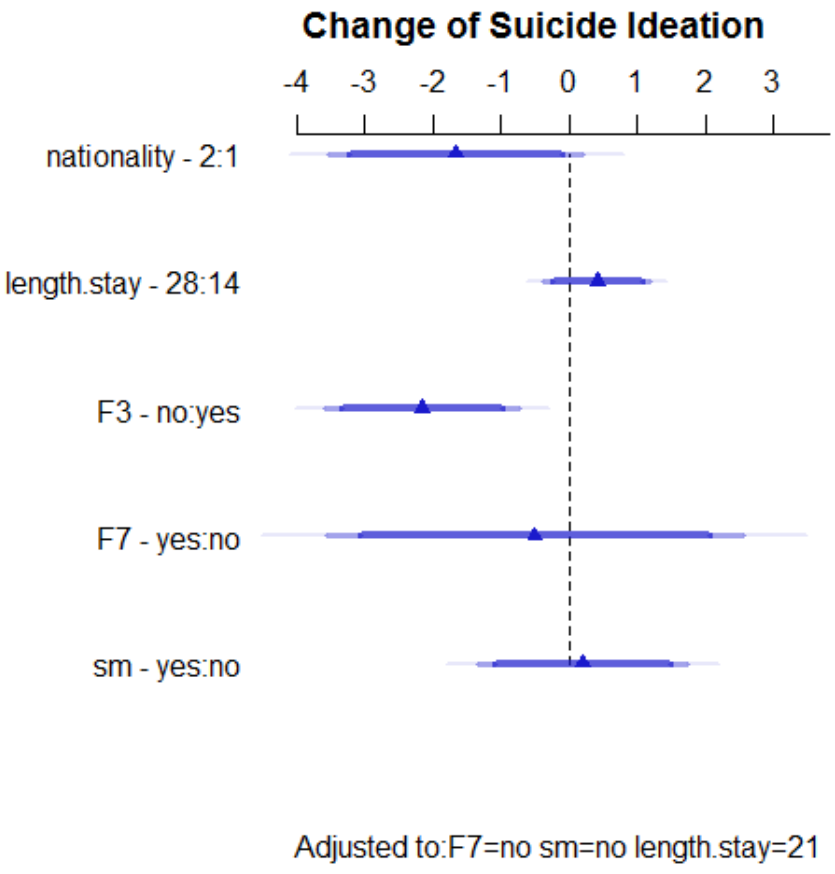
Full Bayesian Model:

1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

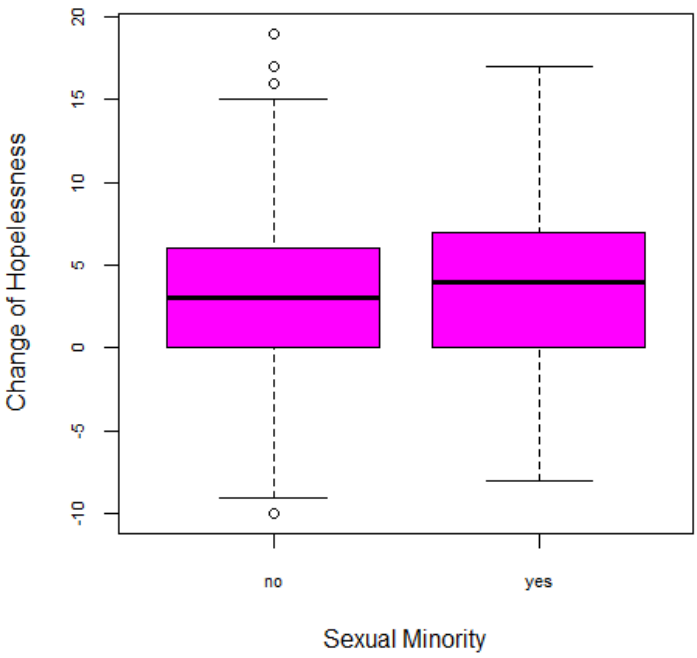
	Mean	SD	Naive SE	Time-series SE
mu	5.61094	0.8936	0.008936	0.009509
nationality-nationality	-1.60805	0.9310	0.009310	0.009409
F3-no	-1.05528	0.3561	0.003561	0.003561
F3-yes	1.05528	0.3561	0.003561	0.003561
F7-no	-1.18771	0.8639	0.008639	0.009291
F7-yes	1.18771	0.8639	0.008639	0.009291
sm-no	-1.44388	0.8360	0.008360	0.009549
sm-yes	1.44388	0.8360	0.008360	0.009549
log.length-log.length	0.25280	0.5626	0.005626	0.005626
F7:sm-no.&.no	1.30782	0.8284	0.008284	0.009598
F7:sm-no.&.yes	-1.30782	0.8284	0.008284	0.009598
F7:sm-yes.&.no	-1.30782	0.8284	0.008284	0.009598
F7:sm-yes.&.yes	1.30782	0.8284	0.008284	0.009598
sm:log.length-no.&.log.length	0.31930	0.5639	0.005639	0.005274
sm:log.length-yes.&.log.length	-0.31930	0.5639	0.005639	0.005274
sig2	59.06413	3.2864	0.032864	0.033675
g_F3	13.65221	1214.8342	12.148342	12.148342
g_F7	1.30572	14.0960	0.140960	0.140960
g_sm	1.75812	40.3853	0.403853	0.403853
g_F7:sm	2.03636	30.5998	0.305998	0.305998
g_continuous	0.06696	0.1173	0.001173	0.001216

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	3.87897	5.00367	5.60531	6.21842	7.4055
nationality-nationality	-3.41344	-2.24754	-1.60604	-0.99240	0.2285
F3-no	-1.75838	-1.29078	-1.05540	-0.81289	-0.3686
F3-yes	0.36857	0.81289	1.05540	1.29078	1.7584
F7-no	-2.90808	-1.76171	-1.18579	-0.58787	0.4811
F7-yes	-0.48108	0.58787	1.18579	1.76171	2.9081
sm-no	-3.16095	-1.99451	-1.41924	-0.87486	0.1338
sm-yes	-0.13379	0.87486	1.41924	1.99451	3.1610
log.length-log.length	-0.85636	-0.12996	0.25380	0.62699	1.3615
F7:sm-no.&.no	-0.24614	0.73632	1.29221	1.84913	2.9990
F7:sm-no.&.yes	-2.99902	-1.84913	-1.29221	-0.73632	0.2461
F7:sm-yes.&.no	-2.99902	-1.84913	-1.29221	-0.73632	0.2461
F7:sm-yes.&.yes	-0.24614	0.73632	1.29221	1.84913	2.9990
sm:log.length-no.&.log.length	-0.79459	-0.05392	0.32786	0.69649	1.4111
sm:log.length-yes.&.log.length	-1.41110	-0.69649	-0.32786	0.05392	0.7946
sig2	52.93818	56.76235	58.93551	61.25491	65.6952
g_F3	0.03936	0.10518	0.20719	0.50924	5.7377
g_F7	0.04082	0.11217	0.22609	0.54717	5.8945
g_sm	0.04196	0.11568	0.24164	0.57965	6.3022
g_F7:sm	0.04619	0.13281	0.27235	0.66441	8.1026
g_continuous	0.01214	0.02515	0.04054	0.07054	0.2679


Change of Suicide Ideation
-4
-3
-2
-1
0
1
2
3
nationality - 2:1
length.stay - 28:14
F3 - no:yes
F7 - yes:no
sm - yes:no
Adjusted to:F7=no sm=no length.stay=21

2.2 Change of Hopelessness



Linear Regression, with heterosexuals as baseline

```
Residuals:
    Min      1Q  Median      3Q     Max
-28.797  -4.797  -3.305   5.203  27.203

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   4.7968     0.3475  13.804   <2e-16 ***
smyes         0.5085     0.7639   0.666    0.506
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 7.786 on 631 degrees of freedom
Multiple R-squared:  0.0007019,       Adjusted R-squared:  -0.0008818
F-statistic: 0.4432 on 1 and 631 DF,  p-value: 0.5058
```

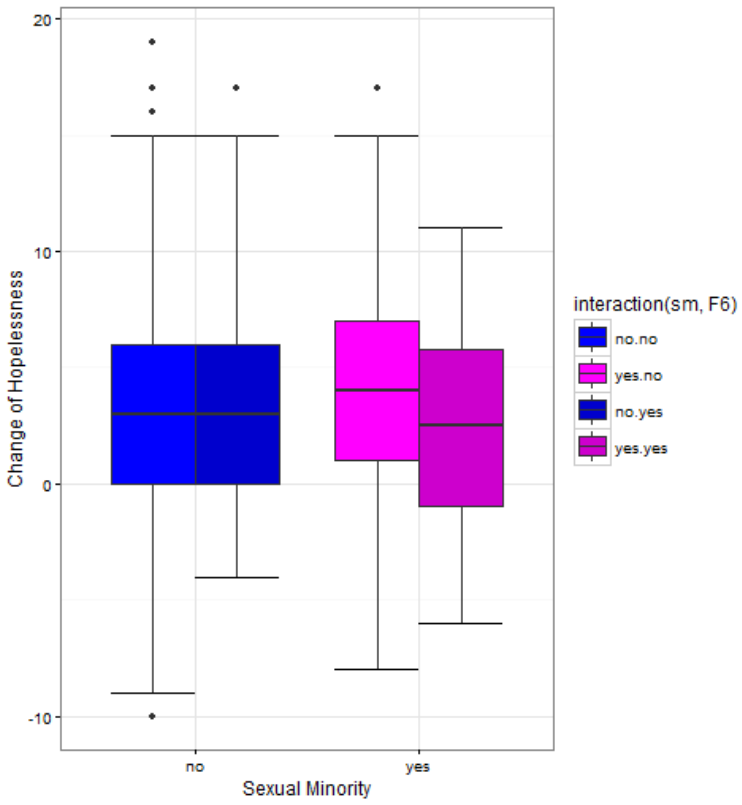
Bayesian One-Way-ANOVA

```
BF = 0.11 ±0.0%   (Substantial evidence for H0 over H1)


1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

           Mean      SD Naive SE Time-series SE
mu      3.60632  0.2344 0.002344       0.002344
sm-no  -0.05963  0.2316 0.002316       0.002316
sm-yes  0.05963  0.2316 0.002316       0.002316
sig2   23.44497  1.3272 0.013272       0.013272
g_sm    1.11814 13.5453 0.135453       0.135453

2. Quantiles for each variable:

           2.5%      25%      50%     75%   97.5%
mu      3.13321  3.44901  3.60901  3.7661  4.0590
sm-no  -0.50890 -0.21476 -0.06189  0.1003  0.3911
sm-yes -0.39111 -0.10025  0.06189  0.2148  0.5089
sig2   20.96028 22.54490 23.39655 24.2911 26.2155
g_sm    0.03432  0.09161  0.18283  0.4588  5.2338
```

2.2.1 Interaction with Confounders

F6 Diagnosis

```
lm(formula = d_BHS ~ sm * F6)

Residuals:
     Min       1Q   Median       3Q      Max
-13.5024  -3.5024  -0.5024   2.7634  15.4976

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   3.5024     0.2378  14.726   <2e-16 ***
smyes         0.7341     0.5542   1.325   0.1858
F6yes         0.2420     0.5617   0.431   0.6667
smyes:F6yes  -2.1891     1.0860  -2.016   0.0442 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.828 on 629 degrees of freedom
Multiple R-squared:  0.00733,  Adjusted R-squared:  0.002596
F-statistic: 1.548 on 3 and 629 DF,  p-value: 0.2009
```



2.2.2 Adjusting for Confounders

Stepwise regression results for sociodemographics

```
lm(formula = d_BHS ~ income     + m_languag)

Residuals:
     Min       1Q   Median       3Q      Max
-13.5700  -3.3494  -0.4587   2.8067  15.3197

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)    4.6974835  0.7776830   6.040 2.63e-09 ***
income         0.0004412  0.0001651   2.672  0.00774 **
m_languag     -1.5245184  0.6432131  -2.370  0.01808 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.788 on 630 degrees of freedom
Multiple R-squared:  0.02189,  Adjusted R-squared:  0.01878
F-statistic: 7.048 on 2 and 630 DF,  p-value: 0.0009393
```

Stepwise regression results for diagnosis

```
lm(formula = d_BHS ~ F0 + F3 + F8)

Residuals:
     Min       1Q   Median       3Q      Max
-12.8591  -3.8033   0.1409   3.1967  16.1409

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   2.8591     0.3898   7.336 6.83e-13 ***
F0yes         1.6635     1.0523   1.581   0.1144
F3yes         0.9442     0.4470   2.112   0.0351 *
F8yes        -2.1454     1.1589  -1.851   0.0646 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.808 on 629 degrees of freedom
Multiple R-squared:  0.01541,  Adjusted R-squared:  0.01071
F-statistic: 3.281 on 3 and 629 DF,  p-value: 0.02058
```

Full Multivariate Model

```
Call:
lm(formula = d_BHS ~ income     + m_languag + F0 + F3 + F8 +
    F6 * sm + log(length_stay))

Residuals:
     Min       1Q   Median       3Q      Max
-13.0885  -3.3232  -0.1569   3.0194  16.0740

Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)      4.3594531  1.2343305   3.532 0.000443 ***
income           0.0004242  0.0001659   2.556 0.010811 *
m_languag       -1.6542639  0.6420080  -2.577 0.010204 *
F0yes            1.6797839  1.0501397   1.600 0.110198
F3yes            0.8831951  0.4548372   1.942 0.052614 .
F8yes           -2.0280383  1.1485324  -1.766 0.077925 .
F6yes            0.6082591  0.5630221   1.080 0.280406
smyes            0.8180816  0.5514322   1.484 0.138432
log(length_stay)-0.1074547  0.3098608  -0.347 0.728871
F6yes:smyes     -2.3064893  1.0792971  -2.137 0.032984 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.76 on 623 degrees of freedom
Multiple R-squared:  0.04391,  Adjusted R-squared:  0.0301
F-statistic: 3.179 on 9 and 623 DF,  p-value: 0.0009075
```

Multivariate Bayesian Analysis

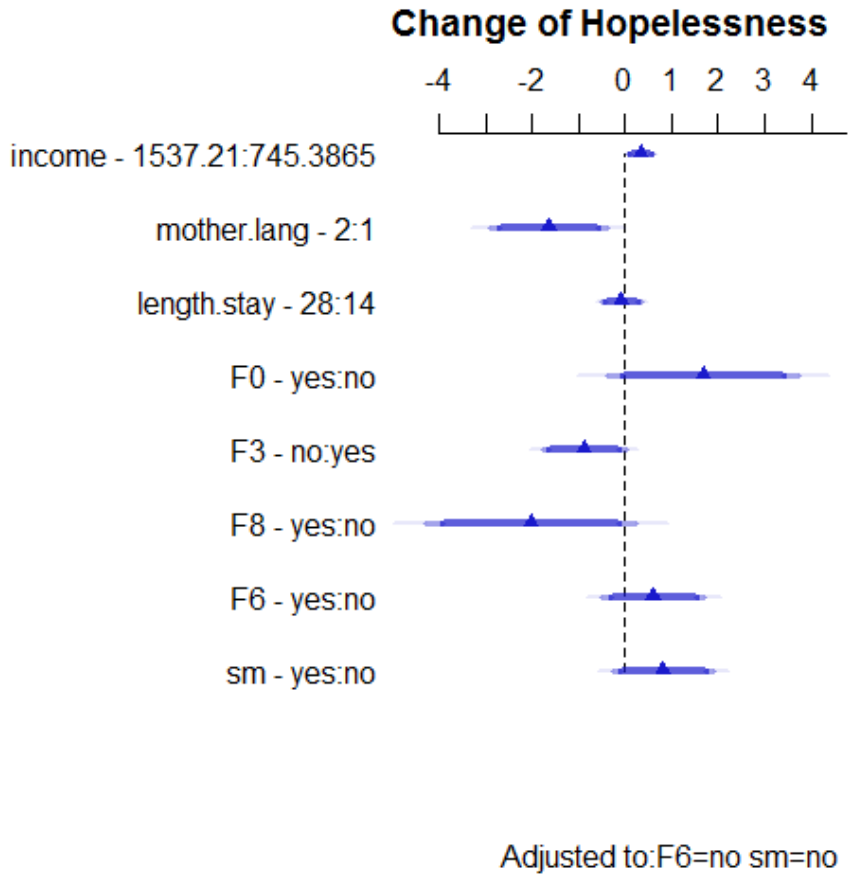
Bayes Factor:

1. Only Confounders: BF = 0.07
2. Full Model (Confounders + SM): BF = 0.01
3. Model 1 compared to model 2: BF = 5.7 (substantial evidence for Model 1 over model 2)

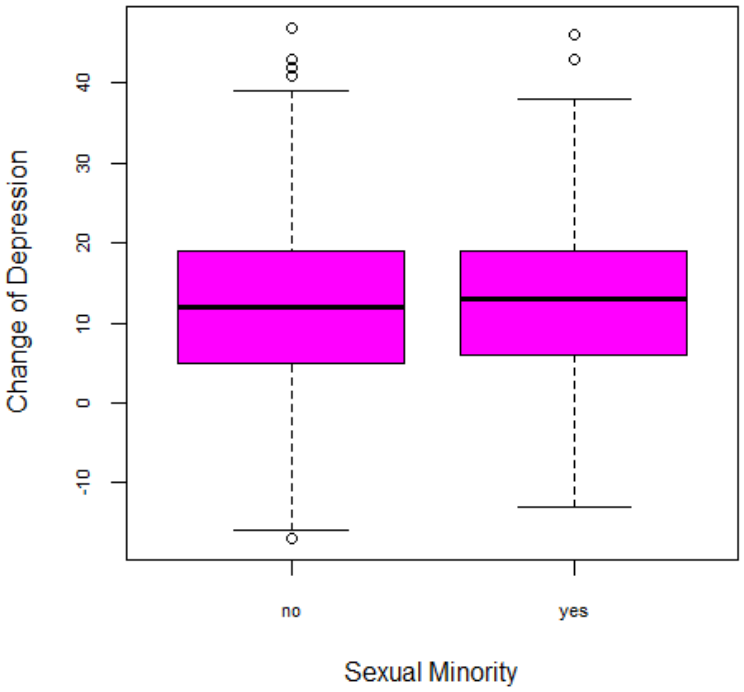
Full Bayesian Model:

```
1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

                              Mean        SD  Naive SE Time-series SE
mu                         3.1951774 7.217e-01 7.217e-03      7.538e-03
income-income              0.0004093 1.636e-04 1.636e-06      1.636e-06
mother.lang-mother.lang   -1.5824248 6.330e-01 6.330e-03      6.330e-03
F0-no                     -0.7185148 4.968e-01 4.968e-03      5.130e-03
F0-yes                     0.7185148 4.968e-01 4.968e-03      5.130e-03
F3-no                     -0.4316995 2.250e-01 2.250e-03      2.162e-03
F3-yes                     0.4316995 2.250e-01 2.250e-03      2.162e-03
F8-no                      0.8660337 5.393e-01 5.393e-03      5.707e-03
F8-yes                    -0.8660337 5.393e-01 5.393e-03      5.707e-03
F6-no                      0.2495741 2.656e-01 2.656e-03      2.726e-03
F6-yes                    -0.2495741 2.656e-01 2.656e-03      2.726e-03
sm-no                      0.1380902 2.583e-01 2.583e-03      2.632e-03
sm-yes                    -0.1380902 2.583e-01 2.583e-03      2.632e-03
log.length-log.length     -0.1005049 3.017e-01 3.017e-03      3.017e-03
F6:sm-no.&.no             -0.5276921 2.565e-01 2.565e-03      2.565e-03
F6:sm-no.&.yes             0.5276921 2.565e-01 2.565e-03      2.565e-03
F6:sm-yes.&.no             0.5276921 2.565e-01 2.565e-03      2.565e-03
F6:sm-yes.&.yes           -0.5276921 2.565e-01 2.565e-03      2.565e-03
sig2                      22.4627919 1.285e+00 1.285e-02      1.326e-02
g_F0                       2.8630201 9.582e+01 9.582e-01      9.582e-01
g_F3                       1.2851406 1.666e+01 1.666e-01      1.666e-01
g_F8                       1.3247582 9.829e+00 9.829e-02      1.050e-01
g_F6                       1.9395389 7.864e+01 7.864e-01      7.864e-01
g_sm                       1.5736413 2.503e+01 2.503e-01      2.503e-01
g_F6:sm                    2.1689603 3.705e+01 3.705e-01      3.705e-01
g_continuous               0.0752592 1.808e-01 1.808e-03      1.808e-03

2. Quantiles for each variable:

                             2.5%        25%        50%        75%      97.5%
mu                        1.7859683  2.7186183  3.1922822  3.664335  4.6192260
income-income             0.0000874  0.0003004  0.0004116  0.000519  0.0007321
mother.lang ther.lang    -2.8283160 -2.0114740 -1.5865528 -1.152754 -0.3290182
F0-no                    -1.7156073 -1.0426160 -0.7095967 -0.386154  0.2509760
F0-yes                   -0.2509760  0.3861543  0.7095967  1.042616  1.7156073
F3-no                    -0.8708692 -0.5821232 -0.4319367 -0.282763  0.0162733
F3-yes                   -0.0162733  0.2827634  0.4319367  0.582123  0.8708692
F8-no                    -0.1440552  0.4919037  0.8678657  1.225947  1.9384766
F8-yes                   -1.9384766 -1.2259473 -0.8678657 -0.491904  0.1440552
F6-no                    -0.2665656  0.0697339  0.2471700  0.426590  0.7749134
F6-yes                   -0.7749134 -0.4265902 -0.2471700 -0.069734  0.2665656
sm-no                    -0.3617087 -0.0397038  0.1383699  0.312224  0.6378705
sm-yes                   -0.6378705 -0.3122244 -0.1383699  0.039704  0.3617087
log.length-log.leng      -0.6814224 -0.3038581 -0.1013033  0.104284  0.4941751
F6:sm-no.&.no            -1.0332855 -0.7018349 -0.5271732 -0.351878 -0.0348597
F6:sm-no.&.yes            0.0348597  0.3518782  0.5271732  0.701835  1.0332855
F6:sm-yes.&.no            0.0348597  0.3518782  0.5271732  0.701835  1.0332855
F6:sm-yes.&.yes          -1.0332855 -0.7018349 -0.5271732 -0.351878 -0.0348597
sig2                     20.0832825 21.5808798 22.4150061 23.295510 25.1018222
g_F0                      0.0409178  0.1118296  0.2290931  0.549711  6.3208524
g_F3                      0.0360932  0.0957901  0.1927382  0.463206  5.5067506
g_F8                      0.0423193  0.1198875  0.2456934  0.595841  6.8210647
g_F6                      0.0351481  0.0930778  0.1880511  0.461874  5.6201750
```

```
g_sm                0.0341421  0.0917601  0.1844349  0.450286  5.0278359
g_F6:sm             0.0406700  0.1087057  0.2228777  0.543882  5.7754396
g_continuous        0.0136173  0.0277625  0.0444567  0.078508  0.3180942
```



2.3 Change of Depression



Linear Regression, with heterosexuals as baseline

```
Residuals:
     Min       1Q   Median       3Q      Max
-13.5458  -3.5458  -0.5458   2.4542  15.4542

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   3.5458     0.2159  16.423   <2e-16 ***
smyes         0.1259     0.4746   0.265    0.791
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.837 on 631 degrees of freedom
Multiple R-squared:  0.0001116,       Adjusted R-squared:  -0.001473
F-statistic: 0.07042 on 1 and 631 DF,  p-value: 0.7908
```

Bayesian One-Way-ANOVA

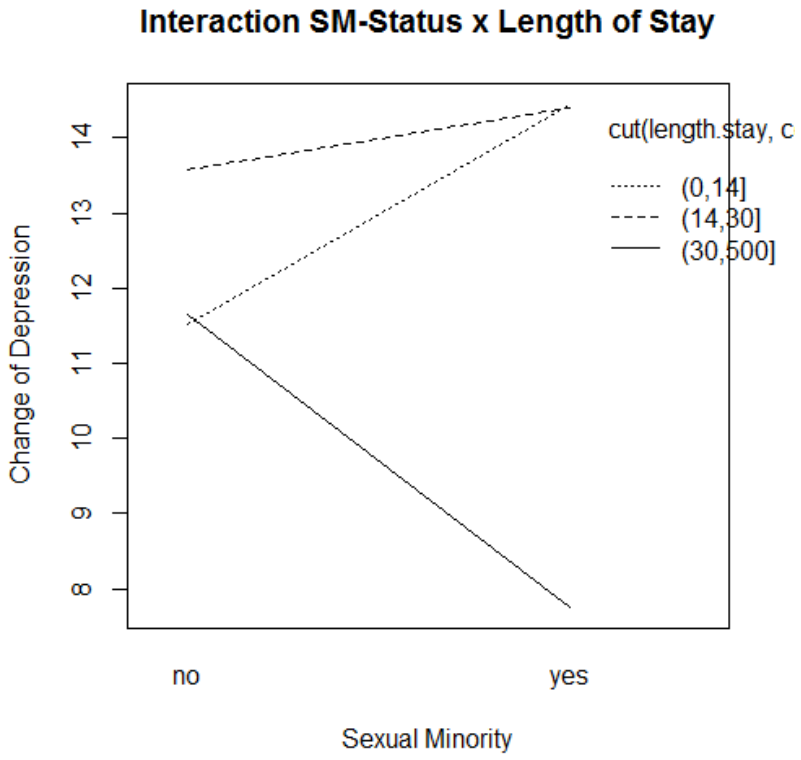
```
BF = 0.11 ±0.02% (Substantial evidence for H0 over H1)
```

```
1. Empirical mean and standard deviation for each variable,plus standard
error of the mean:

          Mean      SD Naive SE Time-series SE
mu      12.648  0.5319 0.005319       0.005405
sm-no   -0.124  0.5227 0.005227       0.005352
sm-yes   0.124  0.5227 0.005227       0.005352
sig2   117.244  6.5703 0.065703       0.065703
g_sm     1.292 33.2535 0.332535       0.332535

2. Quantiles for each variable:

            2.5%      25%      50%      75%    97.5%
mu       11.6106  12.2894  12.6415  13.0095  13.6983
sm-no    -1.1552  -0.4773  -0.1182   0.2307   0.8893
sm-yes   -0.8893  -0.2307   0.1182   0.4773   1.1552
sig2    105.1134 112.7478 116.9963 121.4255 130.6677
g_sm      0.0340   0.0930   0.1872   0.4567   5.1398
```

2.3.1 Interaction with Confounders

Length of stay

```
lm(formula = d_BDI ~ sm * length_stay)

Residuals:
    Min      1Q  Median      3Q     Max
-29.366  -7.309  -0.534   6.677  34.391

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      12.16639    0.67357  18.063   <2e-16 ***
smyes             2.67140    1.42736   1.872   0.0617 .
length_stay       0.01427    0.01957   0.729   0.4664
smyes:length_stay-0.08287    0.03400  -2.437   0.0151 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 10.78 on 629 degrees of freedom
Multiple R-squared:  0.01051,  Adjusted R-squared:  0.005794
F-statistic: 2.228 on 3 and 629 DF,  p-value: 0.08382
```



SM vs. heterosexuals: Lengh of Stay < 15 days d = - 0.28
> 30 days d = 0.34

2.3.2 Adjusting for Confounders

Stepwise regression results for sociodemographics

```
lm(formula = d_BDI ~ income     + m_languag)

Residuals:
    Min      1Q  Median      3Q     Max
-30.025  -7.227  -0.469   6.507  34.063

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   16.0491415  1.7372320   9.238  < 2e-16 ***
income         0.0008868  0.0003689   2.404  0.01650 *
m_languag     -4.1765413  1.4368456  -2.907  0.00378 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 10.7 on 630 degrees of freedom
Multiple R-squared:  0.02433,  Adjusted R-squared:  0.02123
F-statistic: 7.855 on 2 and 630 DF,  p-value: 0.000427
```

Stepwise regression results for diagnosis

```
lm(formula = d_BDI ~ F3)

Residuals:
    Min      1Q  Median      3Q     Max
-30.475  -7.475  -0.475   6.525  33.525

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   9.7124     0.8650  11.229  < 2e-16 ***
F3yes         3.7626     0.9933   3.788 0.000166 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 10.7 on 631 degrees of freedom
Multiple R-squared:  0.02223,  Adjusted R-squared:  0.02068
F-statistic: 14.35 on 1 and 631 DF,  p-value: 0.0001664
```

Full Multivariate Model

```
Call:
lm(formula = d_BDI ~ income     + m_languag + F3 + log(length_stay) *
    sm)

Residuals:
    Min      1Q  Median      3Q     Max
-30.992  -7.020  -0.964   6.579  33.256

Coefficients:
                       Estimate Std. Error t value Pr(>|t|)
(Intercept)          14.1500874  2.9502233   4.796 2.02e-06 ***
income                0.0007955  0.0003645   2.182  0.02946 *
m_languag            -4.5701916  1.4198232  -3.219  0.00135 **
F3yes                 3.9406123  0.9907661   3.977  7.78e-05 ***
log(length_stay)     -0.2130309  0.7837679  -0.272  0.78586
smyes                11.7819455  4.9793312   2.366  0.01828 *
log(length_stay):smyes-3.6224037  1.5779521  -2.296  0.02203 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 10.54 on 626 degrees of freedom
Multiple R-squared:  0.05895,  Adjusted R-squared:  0.04993
F-statistic: 6.536 on 6 and 626 DF,  p-value: 1.046e-06
```

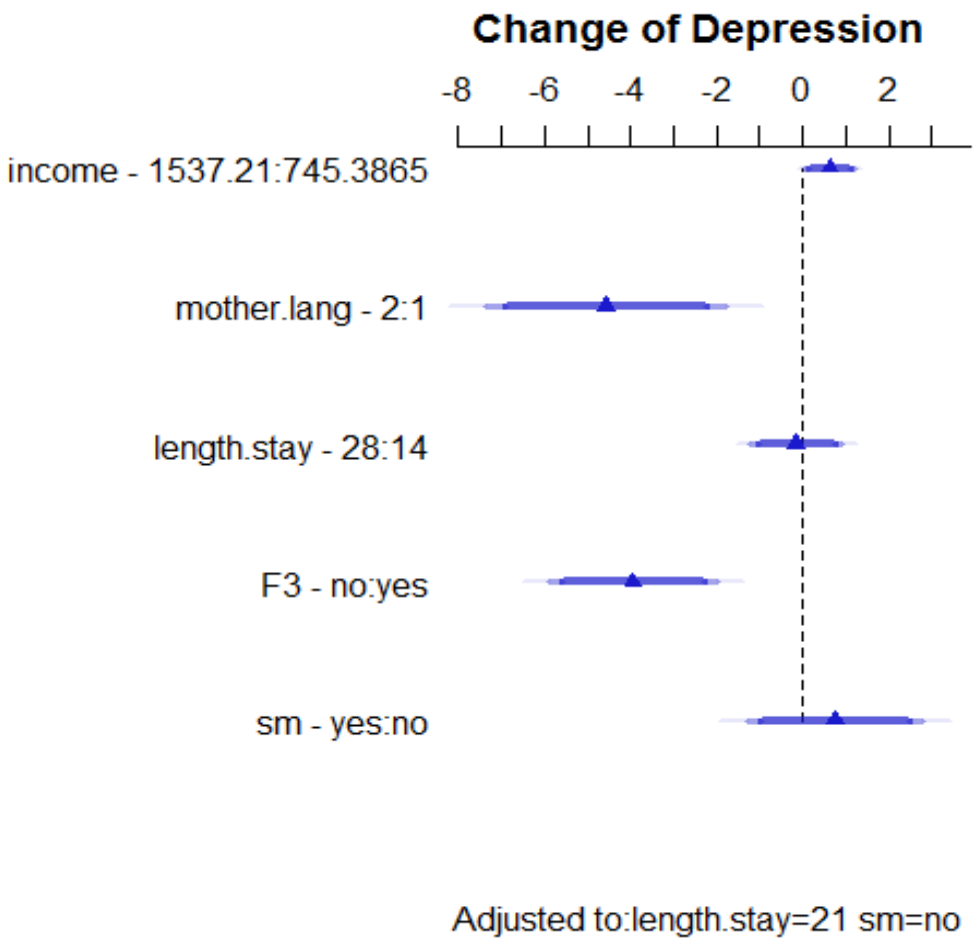
Multivariate Bayesian Analysis

Bayes Factor:

1. Only Confounders: BF = 1476.04
2. Full Model (Confounders + SM): BF = 445.06
3. Model 1 compared to model 2: BF = 3.32 (substantial evidence for Model 1 over model 2)

Full Bayesian Model:

```
1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

                             Mean        SD  Naive SE Time-series SE
mu                       1.191e+01 5.811e-01 5.811e-03      5.811e-03
income-income            7.589e-04 3.569e-04 3.569e-06      3.569e-06
mother.lang-mother.lang -4.335e+00 1.376e+00 1.376e-02      1.376e-02
F3-no                   -1.915e+00 4.920e-01 4.920e-03      4.994e-03
F3-yes                   1.915e+00 4.920e-01 4.920e-03      4.994e-03
log.length-log.length   -1.919e+00 7.721e-01 7.721e-03      7.721e-03
sm-no                   -4.230e-01 5.148e-01 5.148e-03      5.148e-03
sm-yes                   4.230e-01 5.148e-01 5.148e-03      5.148e-03
log.length:sm-no         1.725e+00 7.702e-01 7.702e-03      7.586e-03
log.length:sm-yes       -1.725e+00 7.702e-01 7.702e-03      7.586e-03
sig2                     1.106e+02 6.285e+00 6.285e-02      6.382e-02
g_F3                     1.225e+00 9.556e+00 9.556e-02      9.556e-02
g_sm                     1.061e+00 1.105e+01 1.105e-01      1.105e-01
g_continuous             5.769e-02 2.405e-01 2.405e-03      2.405e-03

2. Quantiles for each variable:

                           2.5%        25%        50%        75%      97.5%
mu                    1.076e+01  1.151e+01  1.191e+01  1.230e+01  13.044263
income-income         6.056e-05  5.168e-04  7.619e-04  9.974e-04   0.001457
mother.lang- r.lang -7.014e+00 -5.243e+00 -4.337e+00 -3.408e+00  -1.638172
F3-no               -2.885e+00 -2.244e+00 -1.909e+00 -1.588e+00  -0.951324
F3-yes               9.513e-01  1.588e+00  1.909e+00  2.244e+00   2.885351
log.length          -3.428e+00 -2.437e+00 -1.922e+00 -1.391e+00  -0.419981
sm-no               -1.433e+00 -7.668e-01 -4.239e-01 -7.735e-02   0.587176
sm-yes              -5.872e-01  7.735e-02  4.239e-01  7.668e-01   1.432923
log.length:sm-no     2.165e-01  1.208e+00  1.729e+00  2.257e+00   3.218784
log.length:sm-yes   -3.219e+00 -2.257e+00 -1.729e+00 -1.208e+00  -0.216499
sig2                 9.911e+01  1.062e+02  1.104e+02  1.146e+02 123.874317
g_F3                 4.358e-02  1.167e-01  2.273e-01  5.451e-01   6.153570
g_sm                 3.440e-02  9.271e-02  1.845e-01  4.329e-01   4.587531
g_continuous         1.273e-02  2.494e-02  3.839e-02  6.155e-02   0.197719
```


Change of Depression
-8
-6
-4
-2
0
2
income - 1537.21:745.3865
mother.lang - 2:1
length.stay - 28:14
F3 - no:yes
sm - yes:no
Adjusted to:length.stay=21 sm=no

3 Responder Analysis

Procedure accoding to Hiller, W., Schindler, A.C. & Lambert, M. J. (2011). Defining response and remission in psychotherapy research: A comparison of the RCI and the method of percent improvement. *Psychotherapy Research, 22,* 1 – 11.

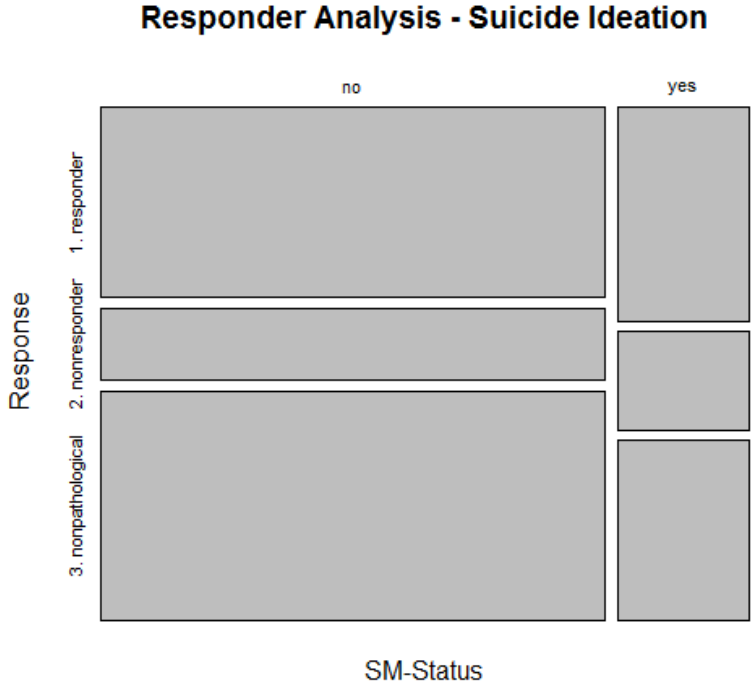
Responder if:

1. baseline is in the pathological range and there is at least 50% improvement in the clinical range (baseline minus cut-off). For example, if a patient scores 30 on the BDI at baseline 20 at follow-up (10-point difference), the cut-off is 14+, then this results in a percentual improvement of 10 / (30-14) * 100 = 62.5%
2. baseline is in the pathological range and the overall improvement has to be at least 25% in the general range (because if a patient's baseline is only slightly above the cut-off, then it is too easy to gain > 50% possible change in the clinical range). E.g, if a patient's baseline is 16 on the BDI and 14 after treatment, then this is an overall improvement of (16-14)/16*100 = 12.5% (but it would be 100% with criterion 1).
3. Patients can only be responders or nonresponders if the baseline is in the pathological range.

3.1 Suicide Ideation

Cutoff > 4 (arbitrary)

```
  res_BSI
sm    1. responder 2. nonresponder 3. nonpathological
  no           194              74                234
  yes           57              26                 48
```




```
        Pearson's Chi-squared test
data:  sm and res_BSI
X-squared = 4.6542, df = 2, p-value = 0.09758
```

3.1.1 Interactions with Confounders

F3 Diagnosis

```
lrm(formula = res_BSI_bin ~ sm * F3)
```

		Model Likelihood Ratio Test		Discrimination Indexes		Rank Discrim. Indexes	
Obs	351	LR chi2	9.51	R2	0.038	C	0.563
1. responder	251	d.f.	3	g	0.236	Dxy	0.126
2. nonresponder	100	Pr(> chi2)	0.0232	gr	1.267	gamma	0.221
max |deriv|	2e-11			gp	0.052	tau-a	0.052
				Brier	0.198		

	Coef	S.E.	Wald Z	Pr(>|Z|)
Intercept	-0.8473	0.3086	-2.75	0.0060
sm=yes	1.2993	0.5736	2.27	0.0235
F3=yes	-0.1441	0.3442	-0.42	0.6755
sm=yes * F3=yes	-1.5119	0.6625	-2.28	0.0225

Oddsratio without F3: 3.56 (1.16-11.67) (SM more likely nonresp.)
Oddsratio with F3: 0.81 (0.41-1.53)

F6 Diagnosis

```
Logistic Regression Model

lrm(formula = res_BSI_bin ~ sm * F6)
Frequencies of Missing Values Due to Each Variable
```

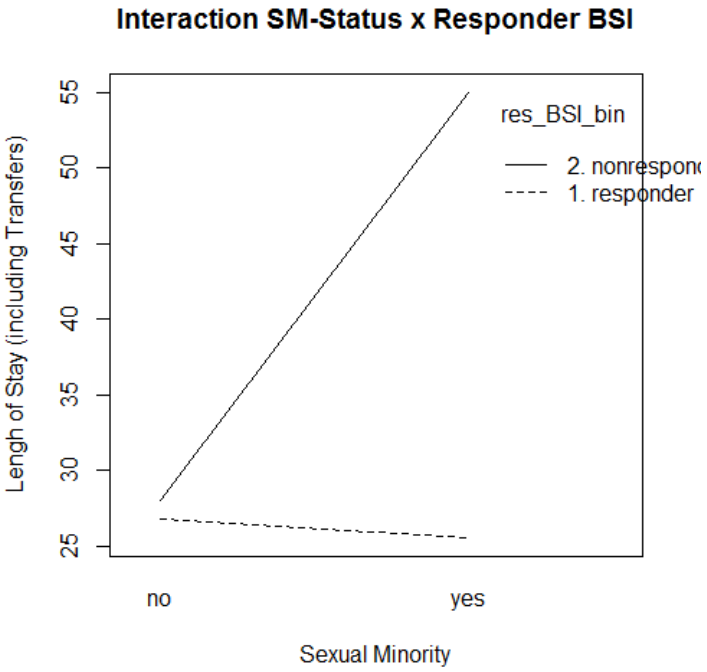
		Model Likelihood Ratio Test		Discrimination Indexes		Rank Discrim. Indexes	
Obs	351	LR chi2	12.59	R2	0.051	C	0.594
1. responder	251	d.f.	3	g	0.366	Dxy	0.187
2. nonresponder	100	Pr(> chi2)	0.0056	gr	1.442	gamma	0.301
max |deriv|	1e-12			gp	0.077	tau-a	0.077
				Brier	0.196		

	Coef	S.E.	Wald Z	Pr(>|Z|)
Intercept	-1.0269	0.1601	-6.42	<0.0001
sm=yes	-0.4547	0.3852	-1.18	0.2378
F6=yes	0.2428	0.3082	0.79	0.4308
sm=yes * F6=yes	1.4464	0.5976	2.42	0.0155

Oddsratio without F6: 0.64 (0.29-1.33) (SM less likely nonresp.)
Oddsratio with F6: 2.65 (1.08-1.68)

Length of Stay

```
lrm(formula = res_BSI_bin ~ sm * length_stay)

                      Model Likelihood     Discrimination    Rank Discrim.
                         Ratio Test           Indexes          Indexes
Obs              351    LR chi2     10.76    R2       0.043    C       0.564
 1. responder    251    d.f.            3    g        0.224    Dxy     0.128
 2. nonresponder 100    Pr(> chi2) 0.0131    gr       1.252    gamma   0.145
max |deriv|    3e-04                         gp       0.042    tau-a   0.052
                                            Brier    0.197

                     Coef    S.E.   Wald Z Pr(>|Z|)
Intercept           -0.9977 0.1787 -5.58  <0.0001
sm=yes              -0.6452 0.4533 -1.42  0.1546
length_stay          0.0012 0.0042  0.30  0.7662
sm=yes * length_stay 0.0241 0.0115  2.09  0.0370
```



Cohen d responders 0.04 vs. nonresponders 0.69

3.1.2 Adjusting for Confounders

Results from stepwise regression with sociodemographics

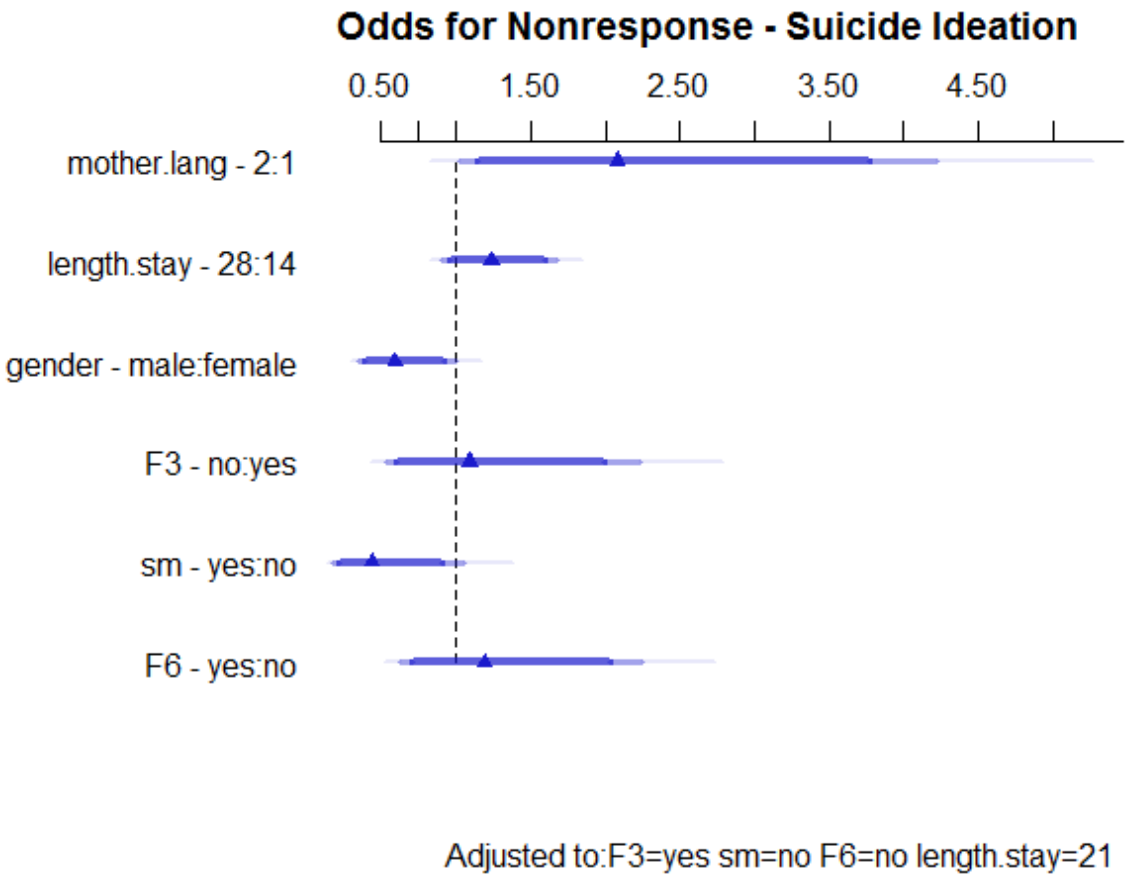
```
Call:
glm(formula = res_BSI_bin ~ geschlecht + m_languag, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.1187  -0.8744  -0.6815   1.4931   1.7742

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)  -2.5438     0.5941  -4.282 1.85e-05 ***
geschlecht    0.5774     0.2476   2.332 0.0197 *
m_languag     0.6246     0.3510   1.780 0.0751 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 419.46  on 350  degrees of freedom
Residual deviance: 411.10  on 348  degrees of freedom
  (282 observations deleted due to missingness)
AIC: 417.1

Number of Fisher Scoring iterations: 4
```

Results from stepwise regression with F0-F9 Diagnosis

```
Call:
glm(formula = res_BSI_bin ~ F6, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-0.9867  -0.7533  -0.7533   1.3809   1.6722

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)  -1.1144     0.1452  -7.675 1.65e-14 ***
F6yes         0.6477     0.2551   2.540   0.0111 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 419.46  on 350  degrees of freedom
Residual deviance: 413.13  on 349  degrees of freedom
  (282 observations deleted due to missingness)
AIC: 417.13

Number of Fisher Scoring iterations: 4
```

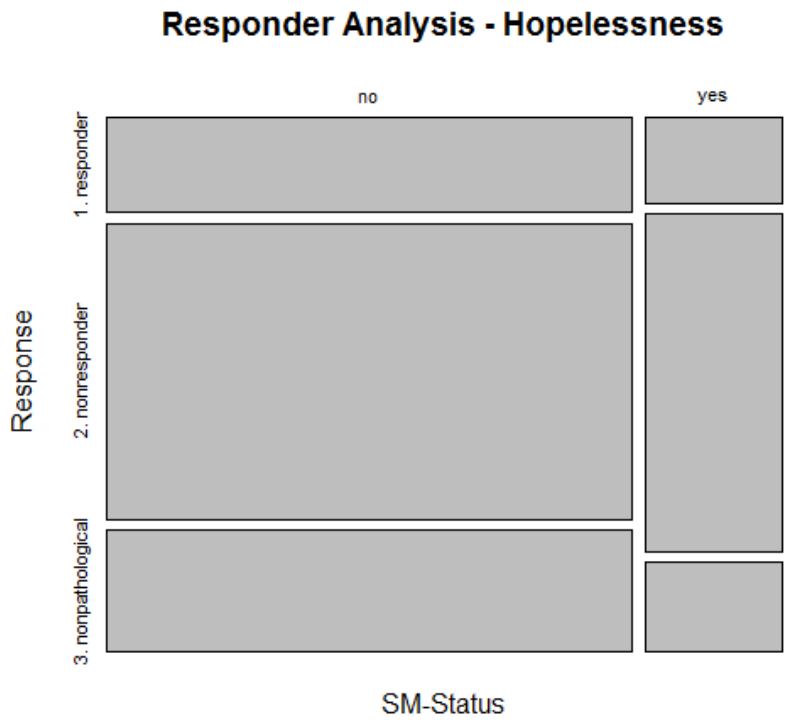
Full model

```
lrm(formula = res_BSI_bin ~ geschlecht + m_languag + F3 * sm +
    F6 * sm + log(length_stay) * sm)
Frequencies of Missing Values Due to Each Variable
res_BSI_bin  geschlecht     m_languag          F3          sm          F6
length_stay
        282           0           0           0           0           0           0


                      Model Likelihood     Discrimination    Rank Discrim.
                         Ratio Test            Indexes          Indexes
Obs              351    LR chi2     31.60    R2       0.123    C       0.675
 1. responder    251    d.f.            9    g        0.738    Dxy     0.351
 2. nonresponder 100    Pr(> chi2) 0.0002    gr       2.092    gamma   0.354
max |deriv|    3e-07                         gp       0.138    tau-a   0.143
                                             Brier    0.185

                    Coef    S.E.   Wald Z Pr(>|Z|)
Intercept           -3.5367 1.0410 -3.40  0.0007
geschlecht           0.5224 0.2637  1.98  0.0476
m_languag            0.7328 0.3605  2.03  0.0421
F3=yes              -0.0887 0.3639 -0.24  0.8074
sm=yes              -2.8614 1.8020 -1.59  0.1123
F6=yes               0.1745 0.3233  0.54  0.5893
length_stay          0.3065 0.2259  1.36  0.1749
F3=yes * sm=yes     -1.0060 0.7764 -1.30  0.1951
sm=yes * F6=yes      0.9439 0.6868  1.37  0.1694
sm=yes * length_stay 0.9976 0.5269  1.89  0.0583


             Effects              Response : res_BSI_bin

 Factor      Low High Diff. Effect    S.E.     Lower 0.95 Upper 0.95
 geschlecht   1   2    1     0.522420 0.26368  0.0056113 1.039200
  Odds Ratio  1   2    1     1.686100      NA  1.0056000 2.827000
 m_languag    1   2    1     0.732840 0.36049  0.0263010 1.439400
  Odds Ratio  1   2    1     2.081000      NA  1.0267000 4.218100
 length_stay 14  28   14     0.212430 0.15659 -0.0944910 0.519350
  Odds Ratio 14  28   14     1.236700      NA  0.9098400 1.680900
 F3 - no:yes  2   1   NA     0.088744 0.36395 -0.6245800 0.802060
  Odds Ratio  2   1   NA     1.092800      NA  0.5354900 2.230100
 sm - yes:no  1   2   NA    -0.830190 0.44766 -1.7076000 0.047195
  Odds Ratio  1   2   NA     0.435970      NA  0.1813000 1.048300
 F6 - yes:no  1   2   NA     0.174530 0.32327 -0.4590600 0.808120
  Odds Ratio  1   2   NA     1.190700      NA  0.6318800 2.243700

Adjusted to: F3=yes sm=no F6=no length_stay=21
```


Odds for Nonresponse - Suicide Ideation
0.50
1.50
2.50
3.50
4.50
mother.lang - 2:1
length.stay - 28:14
gender - male:female
F3 - no:yes
sm - yes:no
F6 - yes:no
Adjusted to:F3=yes sm=no F6=no length.stay=21

3.2 Hopelessness

```
  res_BHS
sm    1. responder 2. nonresponder 3. nonpathological
  no            93             290                119
  yes           22              86                 23
```




```
        Pearson's Chi-squared test

data:  sm and res_BHS
X-squared = 3.008, df = 2, p-value = 0.2222
```

3.2.1 Interactions with Confounders

F4 Diagnosis

```
lrm(formula = res_BHS_bin ~ sm * F4)
Frequencies of Missing Values Due to Each Variable
res_BHS_bin          sm          F4
        142           0           0

                        Model Likelihood     Discrimination    Rank Discrim.
                           Ratio Test            Indexes          Indexes
Obs              491    LR chi2      7.95    R2       0.024    C       0.568
 1. responder    115    d.f.            3    g        0.292    Dxy     0.136
 2. nonresponder 376    Pr(> chi2) 0.0470    gr       1.340    gamma   0.222
max |deriv|    4e-10                         gp       0.049    tau-a   0.049
```

```
                                        Brier    0.177

                Coef    S.E.   Wald Z Pr(>|Z|)
Intercept        1.1036 0.1410  7.83  <0.0001
sm=yes           0.7682 0.3678  2.09  0.0367
F4=yes           0.1157 0.2640  0.44  0.6613
sm=yes * F4=yes -1.4279 0.5622 -2.54  0.0111
```

Oddsratio without F4: 2.12 (1.07-4.64) (SM more likely nonresp.)
Oddsratio with F4: 0.51 (0.23-1.22)

3.2.2 Adjusting for Confounders

Results from stepwise regression with sociodemographics

```
glm(formula = res_BHS_bin ~ nationality, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.9121   0.5919   0.7474   0.7474   0.7474

Coefficients:
             Estimate Std. Error z value Pr(>|z|)
(Intercept)     0.6123     0.4269   1.434    0.152
nationality   0.5203     0.3806   1.367    0.172

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 534.52  on 490  degrees of freedom
Residual deviance: 532.47  on 489  degrees of freedom
  (142 observations deleted due to missingness)
AIC: 536.47

Number of Fisher Scoring iterations: 4
```

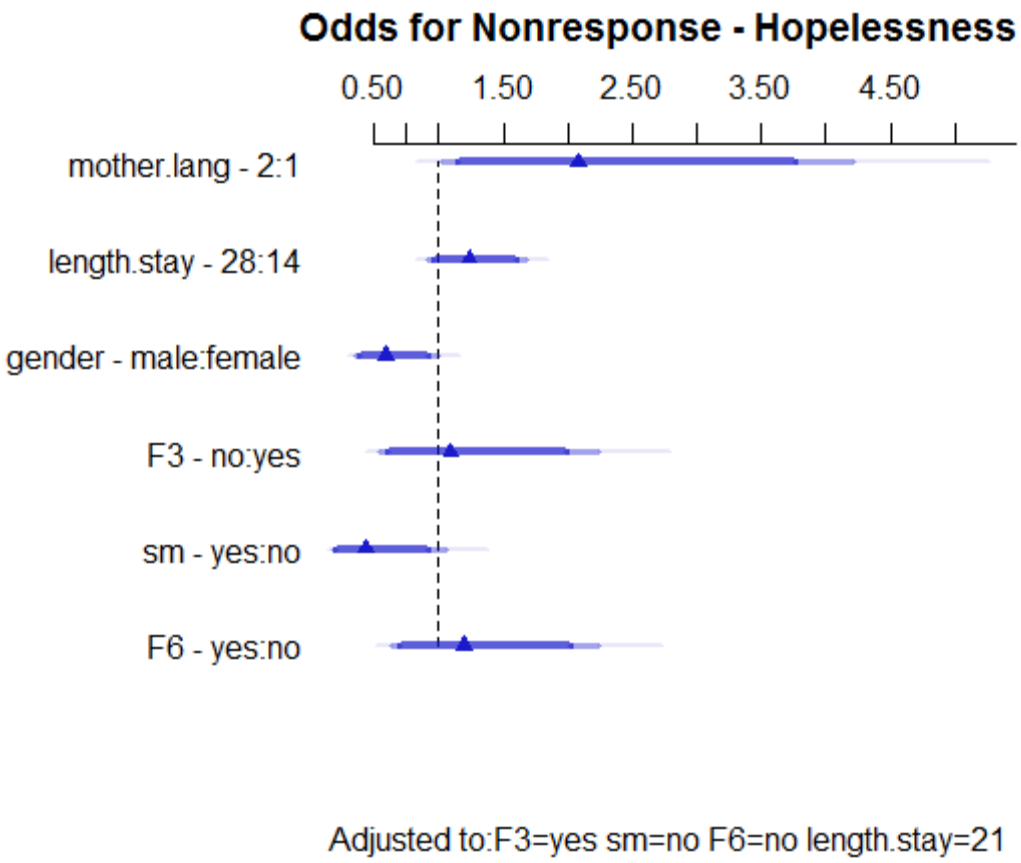
Results from stepwise regression with F0-F9 Diagnosis

```
glm(formula = res_BHS_bin ~ F0 + F6, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.8750   0.6152   0.7487   0.7487   1.1213

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)   1.1285     0.1226   9.202   <2e-16 ***
F0yes        -0.9949     0.5319  -1.871   0.0614 .
F6yes         0.4402     0.2747   1.602   0.1091
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 534.52  on 490  degrees of freedom
```

```
Residual deviance: 527.80  on 488  degrees of freedom
  (142 observations deleted due to missingness)
AIC: 533.8
Number of Fisher Scoring iterations: 4
```

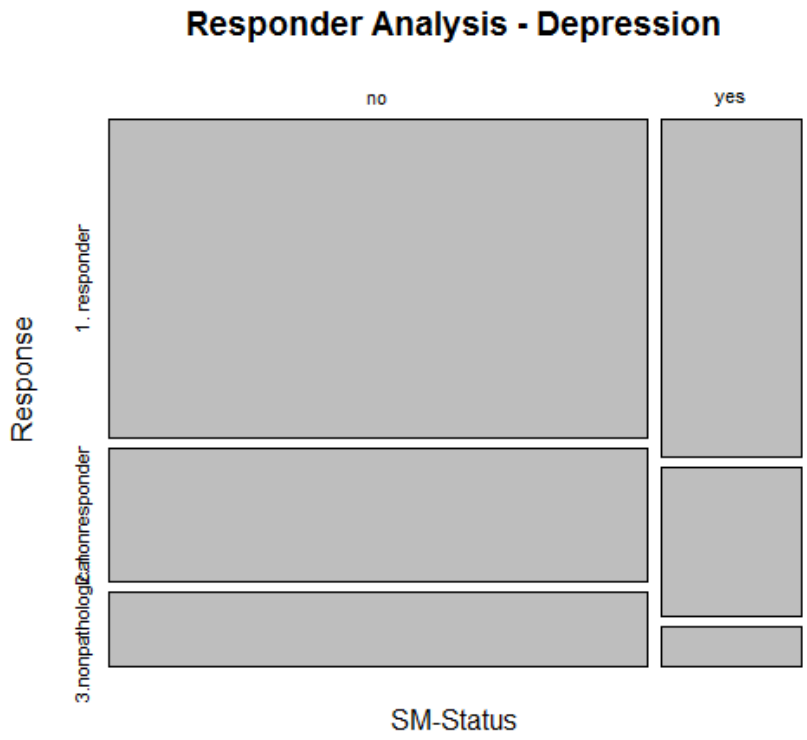
Full model

```
Logistic Regression Model

lrm(formula = res_BHS_bin ~ nationality + F0 + F4 * sm + log(length_stay))
Frequencies of Missing Values Due to Each Variable
  res_BHS_bin nationality           F0           F4           sm    length_stay
          142            0            0            0            0            0


                      Model Likelihood     Discrimination    Rank Discrim.
                         Ratio Test           Indexes          Indexes
Obs              491    LR chi2     17.35    R2       0.052    C       0.606
 1. responder    115    d.f.            6    g        0.499    Dxy     0.213
 2. nonresponder 376    Pr(> chi2) 0.0081    gr       1.647    gamma   0.216
max |deriv|    5e-09                         gp       0.086    tau-a   0.076
                                            Brier    0.173

                Coef    S.E.   Wald Z Pr(>|Z|)
Intercept       -0.4853 0.7244 -0.67  0.5029
nationality      0.5947 0.3874  1.54  0.1248
F0=yes          -1.1124 0.5380 -2.07  0.0387
F4=yes           0.1624 0.2688  0.60  0.5456
sm=yes           0.6983 0.3710  1.88  0.0598
length_stay      0.3213 0.1856  1.73  0.0834
F4=yes * sm=yes -1.4914 0.5672 -2.63  0.0086


            Effects              Response : res_BHS_bin

 Factor        Low High Diff. Effect   S.E.    Lower 0.95 Upper 0.95
 nationality    1   2    1     0.59466 0.38738 -0.164580   1.353900
  Odds Ratio    1   2    1     1.81240      NA  0.848250   3.872500
 length_stay   14  28   14     0.22269 0.12862 -0.029413   0.474780
  Odds Ratio   14  28   14     1.24940      NA  0.971010   1.607700
 F0 - yes:no    1   2   NA    -1.11240 0.53798 -2.166800  -0.057957
  Odds Ratio    1   2   NA     0.32877      NA  0.114540   0.943690
 F4 - yes:no    1   2   NA     0.16244 0.26877 -0.364340   0.689220
  Odds Ratio    1   2   NA     1.17640      NA  0.694650   1.992200
 sm - yes:no    1   2   NA     0.69832 0.37100 -0.028819   1.425500
  Odds Ratio    1   2   NA     2.01040      NA  0.971590   4.159800

Adjusted to: F4=no sm=no
```


Odds for Nonresponse - Hopelessness
0.50
1.50
2.50
3.50
4.50
mother.lang - 2:1
length.stay - 28:14
gender - male:female
F3 - no:yes
sm - yes:no
F6 - yes:no
Adjusted to:F3=yes sm=no F6=no length.stay=21

3.3 Depression

```
    res_BDI
sm    1. responder 2. nonresponder 3.nonpathological
  no           304             127                71
  yes           84              37                10
```




```
        Pearson's Chi-squared test

data:  sm and res_BDI
X-squared = 4.0038, df = 2, p-value = 0.1351
```

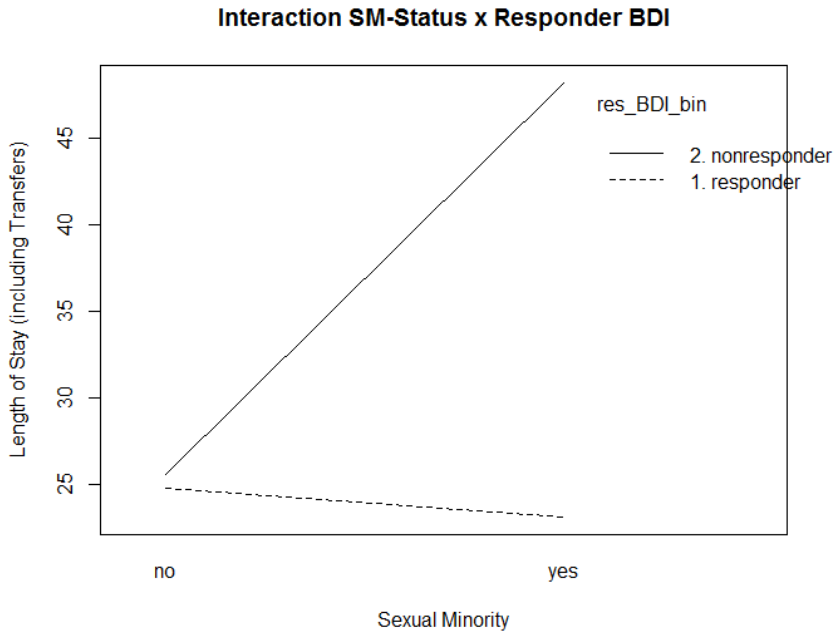
3.3.1 Interactions with Confounders

Length of Stay

```
lrm(formula = res_BDI_bin ~ sm * length_stay)
Frequencies of Missing Values Due to Each Variable
res_BDI_bin          sm  length_stay
         81           0           0
```

```
                      Model Likelihood     Discrimination    Rank Discrim.
                         Ratio Test           Indexes          Indexes
Obs              552    LR chi2     15.34    R2       0.039    C       0.584
 1. responder    388    d.f.            3    g        0.240    Dxy     0.168
 2. nonresponder 164    Pr(> chi2) 0.0015    gr       1.271    gamma   0.196
max |deriv|    3e-08                         gp       0.043    tau-a   0.070
                                             Brier    0.203
```

```
                     Coef    S.E.   Wald Z Pr(>|Z|)
Intercept           -0.9010 0.1448 -6.22  <0.0001
sm=yes              -0.8932 0.4087 -2.19  0.0288
length_stay          0.0011 0.0039  0.29  0.7748
sm=yes * length_stay 0.0315 0.0121  2.59  0.0095
```



Cohen d responders 0.06 vs. nonresponders 0.73

3.3.2 Adjusting for Confounders

Results from stepwise regression with sociodemographics

```
glm(formula = res_BDI_bin ~ income     + m_languag, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.4365  -0.8115  -0.7580   1.0742   1.8704
```

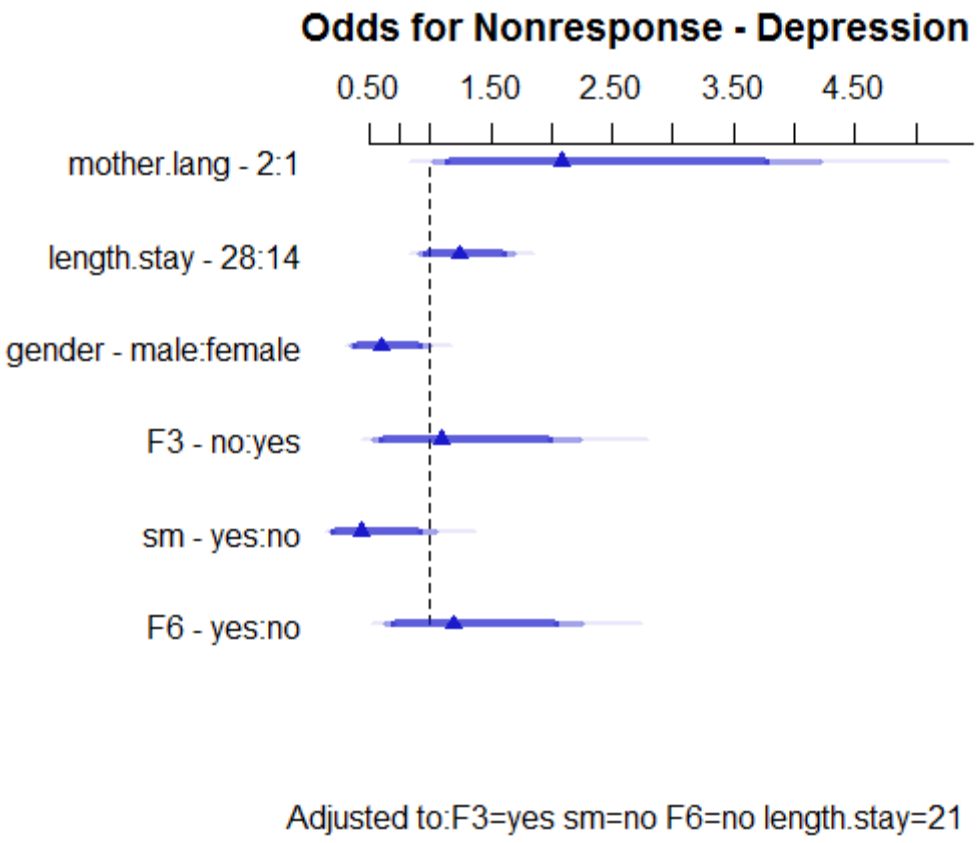
```
Coefficients:
               Estimate Std. Error z value Pr(>|z|)
(Intercept)   -1.9324600  0.3844942  -5.026 5.01e-07 ***
income        -0.0002863  0.0001289  -2.221 0.0263 *
m_languag      1.2617893  0.2941104   4.290 1.79e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 671.66  on 551  degrees of freedom
Residual deviance: 643.51  on 549  degrees of freedom
  (81 observations deleted due to missingness)
AIC: 649.51

Number of Fisher Scoring iterations: 4

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 419.46  on 350  degrees of freedom
Residual deviance: 411.10  on 348  degrees of freedom
  (282 observations deleted due to missingness)
AIC: 417.1

Number of Fisher Scoring iterations: 4
```

Results from stepwise regression with F0-F9 Diagnosis

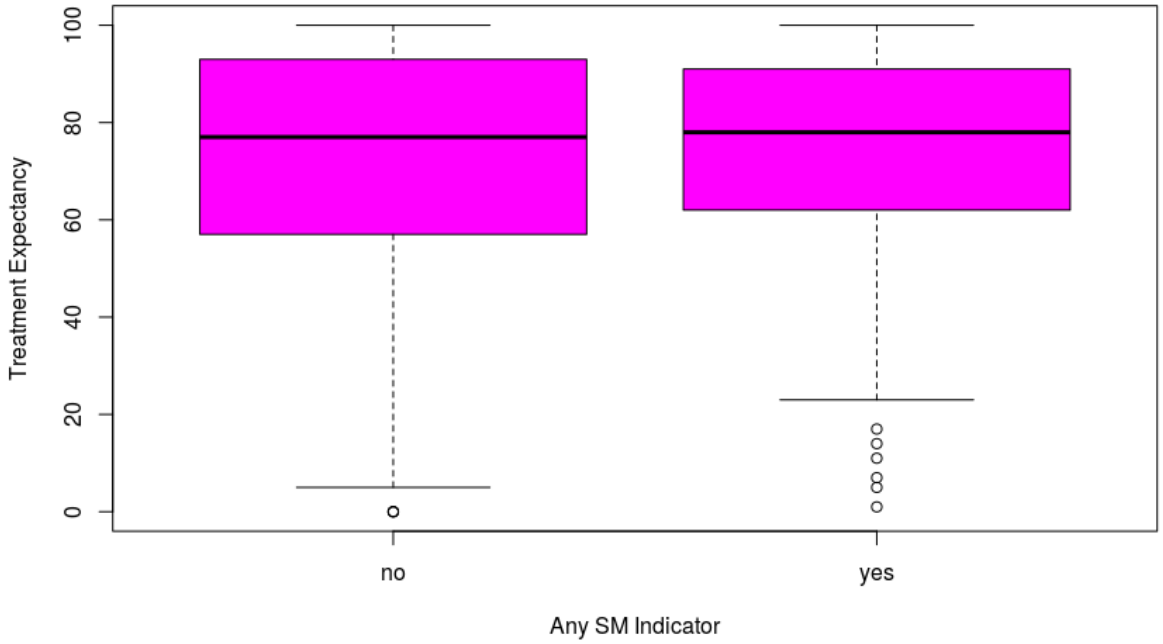
```
Call:
glm(formula = res_BDI_bin ~ F6, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-1.0108  -0.7908  -0.7908   1.3537   1.6216

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept)  -1.0022     0.1086  -9.231  < 2e-16 ***
F6yes         0.5967     0.2157   2.767  0.00566 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 671.66  on 551  degrees of freedom
Residual deviance: 664.18  on 550  degrees of freedom
  (81 observations deleted due to missingness)
AIC: 668.18

Number of Fisher Scoring iterations: 4
```

Full model

```
lrm(formula = res_BDI_bin ~ income     + m_languag + F6 + log(length_stay)
*
    sm)
Frequencies of Missing Values Due to Each Variable
  res_BDI_bin income           m_languag            F6    length_stay            sm
           81             0             0             0             0             0


                        Model Likelihood     Discrimination    Rank Discrim.
                           Ratio Test            Indexes          Indexes
Obs              552    LR chi2      52.36    R2       0.129    C       0.674
 1. responder    388    d.f.             6    g        0.743    Dxy     0.348
 2. nonresponder 164    Pr(> chi2) <0.0001    gr       2.102    gamma   0.350
max |deriv|     0.02                          gp       0.145    tau-a   0.145
                                              Brier    0.189

                     Coef    S.E.   Wald Z Pr(>|Z|)
Intercept           -2.9233 0.7151 -4.09  <0.0001
income              -0.0002 0.0001 -1.84  0.0663
m_languag            1.3052 0.2995  4.36  <0.0001
F6=yes               0.4994 0.2312  2.16  0.0308
length_stay          0.2515 0.1838  1.37  0.1712
sm=yes              -3.7088 1.4048 -2.64  0.0083
length_stay * sm=yes 1.1305 0.4282  2.64  0.0083


             Effects              Response : res_BDI_bin

 Factor        Low    High   Diff.  Effect   S.E.     Lower 0.95 Upper 0.95
 income     745.39 1537.2 791.82 -0.18265 0.099453 -0.377580  0.012271
  Odds Ratio 745.39 1537.2 791.82  0.83306       NA  0.685520  1.012300
 m_languag     1.00    2.0   1.00  1.30520 0.299500  0.718160  1.892200
  Odds Ratio   1.00    2.0   1.00  3.68830       NA  2.050700  6.633900
 length_stay  14.00   28.0  14.00  0.17435 0.127420 -0.075388  0.424090
  Odds Ratio  14.00   28.0  14.00  1.19050       NA  0.927380  1.528200
 F6 - yes:no   1.00    2.0     NA  0.49936 0.231230  0.046166  0.952550
  Odds Ratio   1.00    2.0     NA  1.64770       NA  1.047200  2.592300
 sm - yes:no   1.00    2.0     NA -0.26707 0.262130 -0.780840  0.246700
  Odds Ratio   1.00    2.0     NA  0.76562       NA  0.458020  1.279800

Adjusted to: length_stay=21 sm=no
```


Odds for Nonresponse - Depression
0.50
1.50
2.50
3.50
4.50
mother.lang - 2:1
length.stay - 28:14
gender - male:female
F3 - no:yes
sm - yes:no
F6 - yes:no
Adjusted to:F3=yes sm=no F6=no length.stay=21

4 Treatment Expectancy



Linear Regression, with heterosexuals as baseline

```
Residuals:
    Min      1Q  Median      3Q     Max
-73.127 -15.127   3.873  19.873  26.873

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  73.1275     1.0372  70.503   <2e-16 ***
smyes         0.5748     2.2800   0.252    0.801
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 23.24 on 631 degrees of freedom
Multiple R-squared:  0.0001007, Adjusted R-squared:  -0.001484
F-statistic: 0.06356 on 1 and 631 DF,  p-value: 0.801
```

Bayesian One-Way-ANOVA

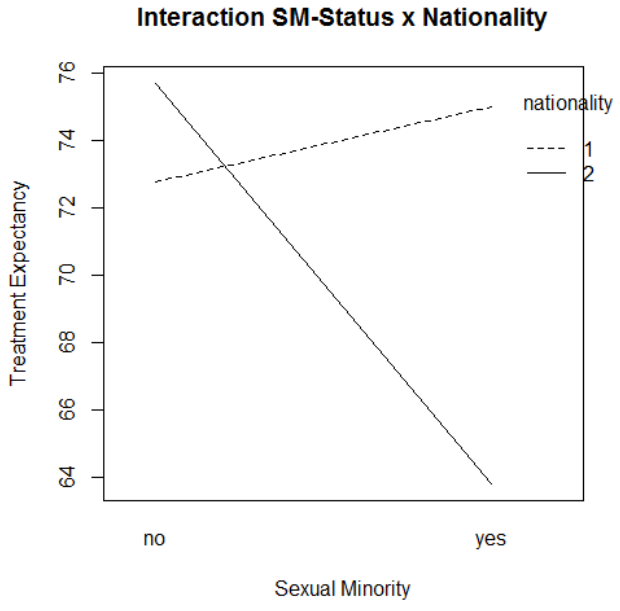
BF = 0.11 ±0% - Substantial evidence for H_0 (grand mean) over H_1 (main effect for sexual orientation)

```
1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

         Mean     SD Naive SE Time-series SE
mu      73.409  1.129  0.01129        0.01157
sm-no   -0.264  1.119  0.01119        0.01119
sm-yes   0.264  1.119  0.01119        0.01119
sig2   540.930 30.528  0.30528        0.30528
g_sm     1.201 15.155  0.15155        0.16536

2. Quantiles for each variable:

          2.5%       25%      50%      75%   97.5%
mu      71.20005  72.66074  73.3977  74.1614  75.615
sm-no   -2.48472  -1.02215  -0.2599   0.4973   1.927
sm-yes  -1.92746  -0.49726   0.2599   1.0222   2.485
sig2   483.03239 520.08465 539.8786 561.1415 602.684
g_sm     0.03567   0.08955   0.1825   0.4546   5.083
```

3.4 Interaction with Confounders

3.4.1 Nationality

```
lm(formula = EXPECTANCY ~ sm * nationality)

Residuals:
    Min      1Q  Median      3Q     Max
-72.778 -14.778   4.017  20.017  34.200

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)           69.857      3.721  18.773   <2e-16 ***
smyes                 16.309      8.265   1.973   0.0489 *
nationality            2.922      3.192   0.915   0.3604
smyes:nationality    -14.104      7.122  -1.980   0.0481 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 23.2 on 629 degrees of freedom
Multiple R-squared:  0.006298, Adjusted R-squared:  0.001558
F-statistic: 1.329 on 3 and 629 DF,  p-value: 0.264
```



3.5 Adjusting for Confounders

Stepwise regression results for sociodemographics

```
Call:
lm(formula = EXPECTANCY ~ age + education)

Residuals:
    Min      1Q  Median      3Q     Max
-77.381 -14.533   4.526  18.866  36.479

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 67.14008    3.32956  20.165  < 2e-16 ***
age          0.32440    0.07284   4.454 9.98e-06 ***
education   -2.73504    0.82751  -3.305    0.001 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 22.78 on 630 degrees of freedom
Multiple R-squared:  0.04057,  Adjusted R-squared:  0.03752
F-statistic: 13.32 on 2 and 630 DF,  p-value: 2.159e-06
```

Stepwise regression results for diagnosis

```
Call:
lm(formula = EXPECTANCY ~ F1 + F3 + F6 + F8)

Residuals:
    Min      1Q  Median      3Q     Max
-76.305 -14.816   4.184  18.597  35.502

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   77.305      2.041  37.880  < 2e-16 ***
F1yes          4.098      2.050   1.999 0.045993 *
F3yes         -4.489      2.158  -2.080 0.037889 *
F6yes         -7.671      2.307  -3.326 0.000933 ***
F8yes         -8.319      5.494  -1.514 0.130509
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 22.96 on 628 degrees of freedom
Multiple R-squared:  0.02876,  Adjusted R-squared:  0.02257
F-statistic: 4.649 on 4 and 628 DF,  p-value: 0.001052
```

Full Multivariate Model

```
lm(formula = EXPECTANCY ~ age + education + F1 + F3 + F6 + F8 +
    log(length.stay) + nationality * sm)

Residuals:
   Min     1Q Median     3Q    Max
-76.76 -13.13   3.90  16.91  38.52

Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
(Intercept)        73.33841    6.63933  11.046  < 2e-16 ***
age                 0.33529    0.07592   4.416 1.19e-05 ***
education          -2.71690    0.82170  -3.306 0.000999 ***
F1yes               3.11889    2.02283   1.542 0.123619
F3yes              -6.01239    2.17746  -2.761 0.005929 **
F6yes              -5.46526    2.33113  -2.344 0.019368 *
F8yes              -7.68336    5.39733  -1.424 0.155079
log(length.stay)   -1.70657    1.46991  -1.161 0.246085
nationality         2.66771    3.10681   0.859 0.390856
smyes              16.52923    8.05765   2.051 0.040649 *
nationality:smyes -12.69204    6.97115  -1.821 0.069140 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 22.52 on 622 degrees of freedom
Multiple R-squared:  0.07458,  Adjusted R-squared:  0.0597
F-statistic: 5.013 on 10 and 622 DF,  p-value: 4.996e-07
```

Multivariate Bayesian Analysis

Bayes Factor:

1. Confounders: BF = 179.75
2. Full Model (Confounders + SM): BF = 34.05
3. Model 1 compared to model 2: BF = 5.28 (support for Model 1 over model 2)

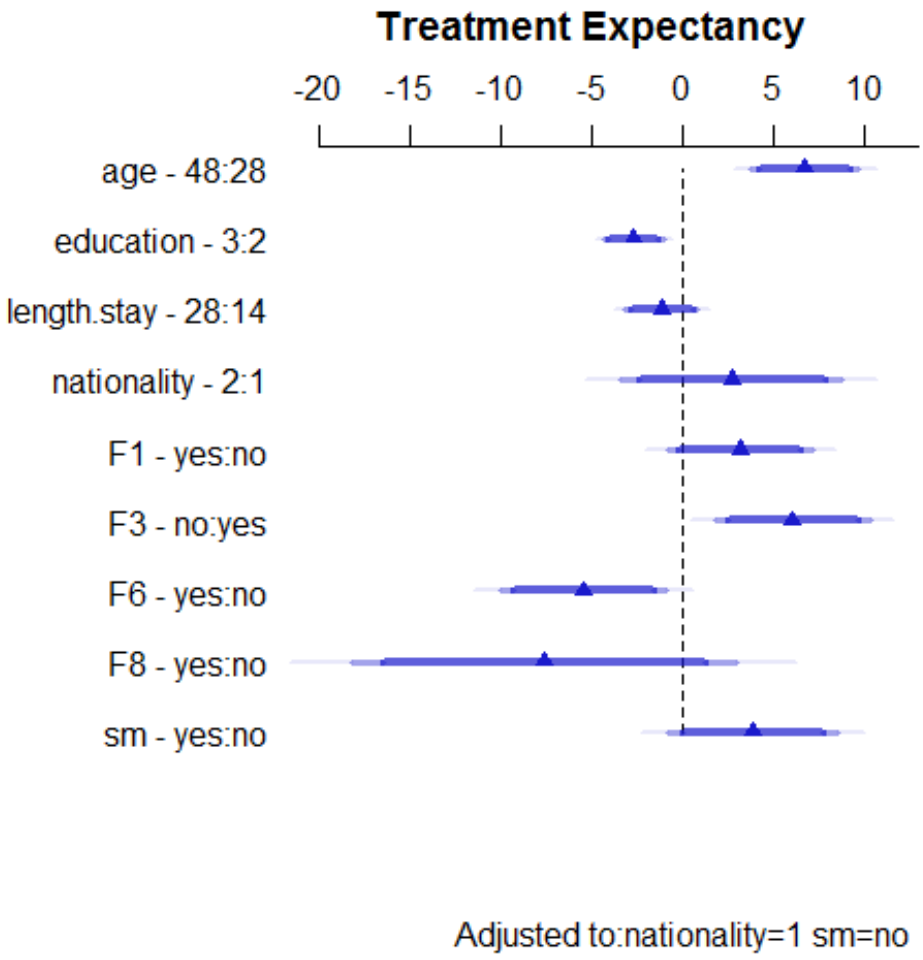
Full Bayesian Model:

1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

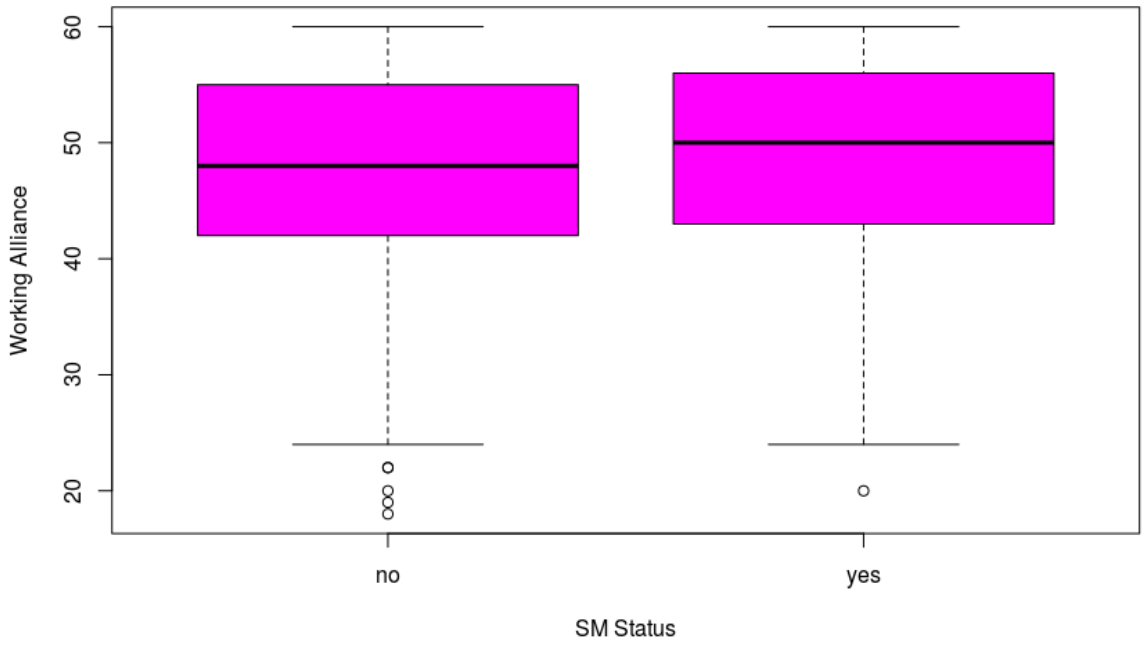
	Mean	SD	Naive SE	Time-series SE
mu	71.27012	2.78830	0.0278830	0.0291168
age-age	0.31588	0.07432	0.0007432	0.0007581
education-education	-2.59334	0.79361	0.0079361	0.0079361
F1-no	-1.51847	1.00047	0.0100047	0.0100047
F1-yes	1.51847	1.00047	0.0100047	0.0100047
F3-no	2.86833	1.06983	0.0106983	0.0109820
F3-yes	-2.86833	1.06983	0.0106983	0.0109820
F6-no	2.67989	1.12734	0.0112734	0.0112734
F6-yes	-2.67989	1.12734	0.0112734	0.0112734
F8-no	3.34291	2.51531	0.0251531	0.0258096
F8-yes	-3.34291	2.51531	0.0251531	0.0258096
log.length-log.length	-1.63568	1.40933	0.0140933	0.0140933
nationality-nationality	-3.47554	3.38545	0.0338545	0.0338545
sm-no	-1.07799	1.11041	0.0111041	0.0111041
sm-yes	1.07799	1.11041	0.0111041	0.0111041
nationality:sm-no	6.03608	3.42015	0.0342015	0.0342015
nationality:sm-yes	-6.03608	3.42015	0.0342015	0.0342015
sig2	502.86103	28.46846	0.2846846	0.2893053
g_F1	1.13834	11.78702	0.1178702	0.1232479
g_F3	2.43098	107.64445	1.0764445	1.0764445
g_F6	1.22591	12.38279	0.1238279	0.1238279
g_F8	1.77744	50.27138	0.5027138	0.5296815
g_sm	1.70781	38.61940	0.3861940	0.3861940
g_continuous	0.04443	0.04228	0.0004228	0.0004349

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	65.72874	69.45696	71.29337	73.15114	76.6777
age-age	0.17128	0.26502	0.31582	0.36615	0.4622
education-education	-4.16848	-3.12466	-2.58775	-2.04853	-1.0586
F1-no	-3.47372	-2.19840	-1.52456	-0.83879	0.4524
F1-yes	-0.45238	0.83879	1.52456	2.19840	3.4737
F3-no	0.78382	2.13603	2.84954	3.60426	4.9469
F3-yes	-4.94686	-3.60426	-2.84954	-2.13603	-0.7838
F6-no	0.45854	1.92167	2.67932	3.43542	4.9050
F6-yes	-4.90502	-3.43542	-2.67932	-1.92167	-0.4585
F8-no	-1.48554	1.61550	3.30775	5.02256	8.4227
F8-yes	-8.42267	-5.02256	-3.30775	-1.61550	1.4855
log.length-log.length	-4.40389	-2.58655	-1.62277	-0.68415	1.1265
nationality-nationality	-10.16511	-5.75426	-3.45445	-1.21503	3.1157
sm-no	-3.27146	-1.81873	-1.07280	-0.33757	1.0919
sm-yes	-1.09195	0.33757	1.07280	1.81873	3.2715
nationality:sm-no	-0.72465	3.75877	5.99703	8.36343	12.7933
nationality:sm-yes	-12.79333	-8.36343	-5.99703	-3.75877	0.7247
sig2	450.52814	483.09742	501.85141	521.15041	562.5157
g_F1	0.03512	0.09550	0.19055	0.44531	4.8457
g_F3	0.03738	0.10388	0.20808	0.49851	5.3888
g_F6	0.03804	0.10259	0.20603	0.48252	5.2919
g_F8	0.04026	0.11441	0.23377	0.54895	5.6929
g_sm	0.03504	0.09702	0.19199	0.46737	5.5338
g_continuous	0.01194	0.02256	0.03318	0.05155	0.1469


Treatment Expectancy
-20
-15
-10
-5
0
5
10
age - 48:28
education - 3:2
length.stay - 28:14
nationality - 2:1
F1 - yes:no
F3 - no:yes
F6 - yes:no
F8 - yes:no
sm - yes:no
Adjusted to:nationality=1 sm=no

5 Working Alliance



Linear Regression, with heterosexuals as baseline

```
Residuals:
    Min      1Q  Median      3Q     Max
-29.542  -5.542   1.458   7.458  12.458

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  47.5420     0.4093 116.140   <2e-16 ***
smyes         0.8301     0.9039   0.918    0.359
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.153 on 627 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.001343,  Adjusted R-squared:  -0.0002495
F-statistic: 0.8433 on 1 and 627 DF,  p-value: 0.3588
```

Bayesian One-Way-ANOVA

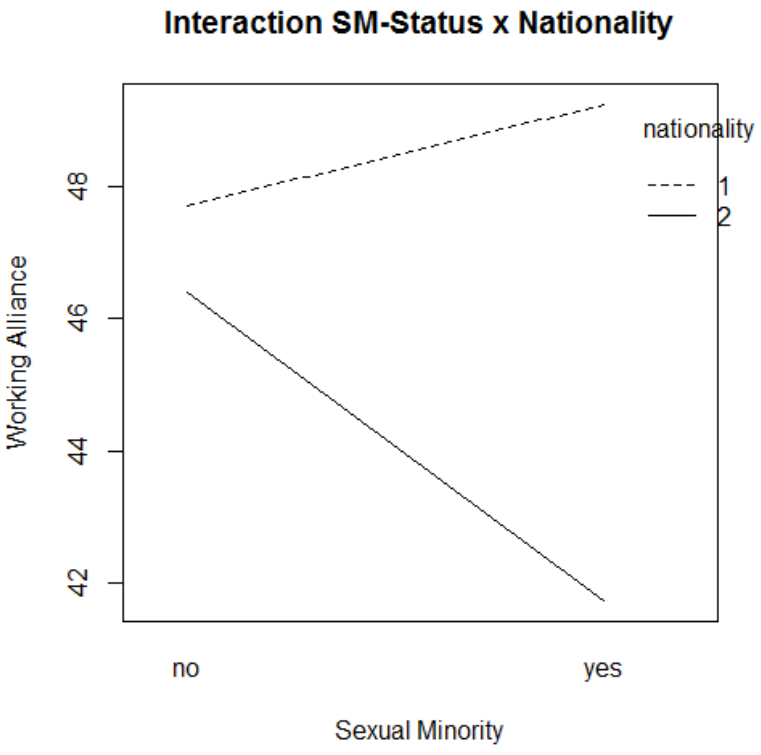
```
BF = 0.16 ±0.03% - Substantial evidence for H₀ (grand mean) over H₁ (main
effect for sexual orientation)

1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

        Mean      SD Naive SE Time-series SE
mu     47.9502  0.4472 0.004472       0.004343
sm-no  -0.4016  0.4418 0.004418       0.004418
sm-yes  0.4016  0.4418 0.004418       0.004418
sig2   83.9676  4.7374 0.047374       0.046019
g_sm    1.5077 24.2152 0.242152       0.242152
```

```
2. Quantiles for each variable:

          2.5%      25%      50%      75%   97.5%
mu     47.06837 47.64354 47.9489 48.2571 48.8153
sm-no  -1.27033 -0.69722 -0.4028 -0.0976  0.4471
sm-yes -0.44705  0.09760  0.4028  0.6972  1.2703
sig2   75.18607 80.72280 83.7850 87.0322 93.7607
g_sm    0.03486  0.09357  0.1840  0.4472  5.6566
```

3.6 Interaction with Confounders

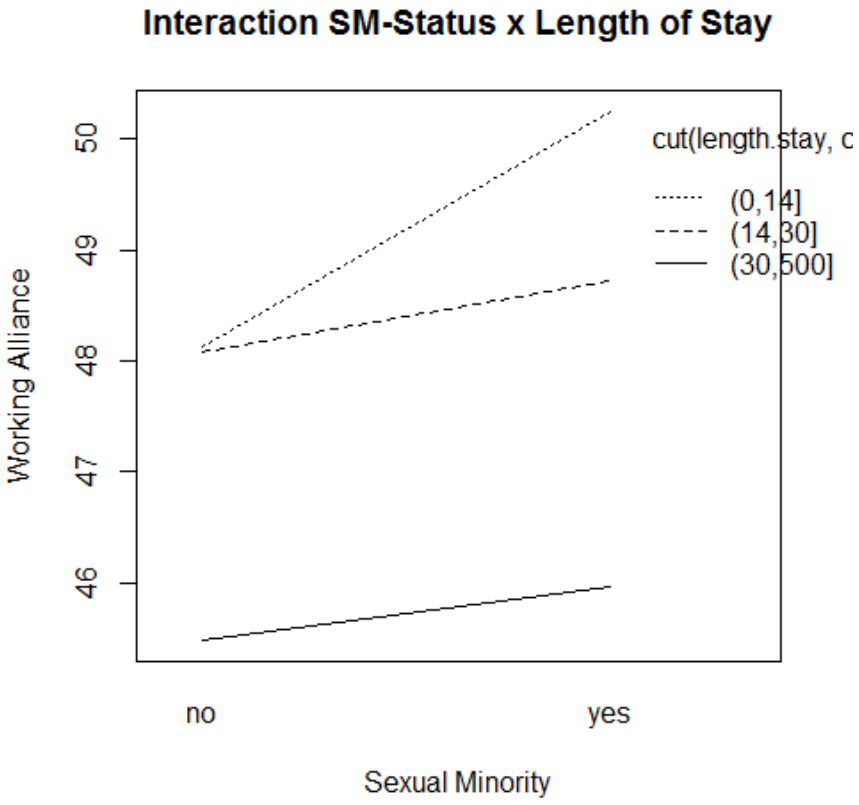
Nationality

```
lm(formula = WORKING_ALLIANCE~ sm * nationality)

Residuals:
   Min     1Q Median     3Q    Max
-29.70  -5.70   1.30   7.30  16.27

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)           49.017      1.460  33.583   <2e-16 ***
smyes                  7.741      3.248   2.384   0.0174 *
nationality           -1.317      1.252  -1.052   0.2932
smyes:nationality     -6.196      2.794  -2.218   0.0269 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.094 on 625 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.0173,   Adjusted R-squared:  0.01259
F-statistic: 3.669 on 3 and 625 DF,  p-value: 0.01217
F-statistic: 1.329 on 3 and 629 DF,  p-value: 0.264
```



Length of stay

```
lm(formula = WORKING_ALLIANCE~ sm * length_stay)

Residuals:
    Min      1Q  Median      3Q     Max
-29.545  -5.756   1.175   7.217  14.620

Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)       48.18007    0.56586  85.144   <2e-16 ***
smyes              2.91048    1.20213   2.421   0.0158 *
length_stay       -0.02648    0.01643  -1.612   0.1075
smyes:length_stay -0.06416    0.02856  -2.246   0.0250 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.041 on 625 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.02876,  Adjusted R-squared:  0.0241
F-statistic: 6.169 on 3 and 625 DF,  p-value: 0.0003902
```



3.7 Adjusting for Confounders

Stepwise regression results for sociodemographics

```
Call:
lm(formula = WORKING_ALLIANCE~ age + income + mother.lang)

Residuals:
    Min      1Q  Median      3Q     Max
-30.170  -5.247   1.239   7.175  14.941

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept) 47.5918067  1.7913966  26.567  < 2e-16 ***
age          0.0550982  0.0296830   1.856  0.06389 .
income       0.0008446  0.0003245   2.603  0.00947 **
mother.lang -2.8105508  1.2129209  -2.317  0.02082 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.025 on 625 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.0323,   Adjusted R-squared:  0.02766
F-statistic: 6.954 on 3 and 625 DF,  p-value: 0.0001313
```

Stepwise regression results for diagnosis

```
Call:
lm(formula = WORKING_ALLIANCE~ F6)

Residuals:
    Min      1Q  Median      3Q     Max
-28.522  -5.512   1.478   7.478  15.488

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  48.5219     0.4024 120.574  < 2e-16 ***
F6yes        -4.0101     0.8956  -4.478 8.97e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.016 on 627 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.03099,  Adjusted R-squared:  0.02944
F-statistic: 20.05 on 1 and 627 DF,  p-value: 8.968e-06
```

Full Multivariate Model

```
lm(formula = WORKING_ALLIANCE~ age + income + mother.lang + F6 +
nationality *
    sm + log(length.stay) * sm)

Residuals:
    Min      1Q  Median      3Q     Max
-27.846  -5.006   1.324   6.783  15.705

Coefficients:
                          Estimate Std. Error t value Pr(>|t|)
(Intercept)            53.1870257  2.8033334  18.973  < 2e-16 ***
age                     0.0372529  0.0300199   1.241 0.215098
income                  0.0008752  0.0003190   2.744 0.006251 **
mother.lang            -2.1360386  1.3435372  -1.590 0.112377
F6yes                  -3.2776815  0.9042098  -3.625 0.000313 ***
nationality            -0.4411467  1.3462041  -0.328 0.743252
smyes                  12.7364565  5.0569053   2.519 0.012032 *
log(length.stay)       -1.6213674  0.6572585  -2.467 0.013900 *
nationality:smyes      -5.1899957  2.7390247  -1.895 0.058580 .
smyes:log(length.stay) -1.6774997  1.3338478  -1.258 0.208996
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 8.796 on 619 degrees of freedom
  (4 observations deleted due to missingness)
Multiple R-squared:  0.08961, Adjusted R-squared:  0.07637
F-statistic:  6.77 on 9 and 619 DF,  p-value: 2.678e-09
```

Multivariate Bayesian Analysis

Bayes Factor:

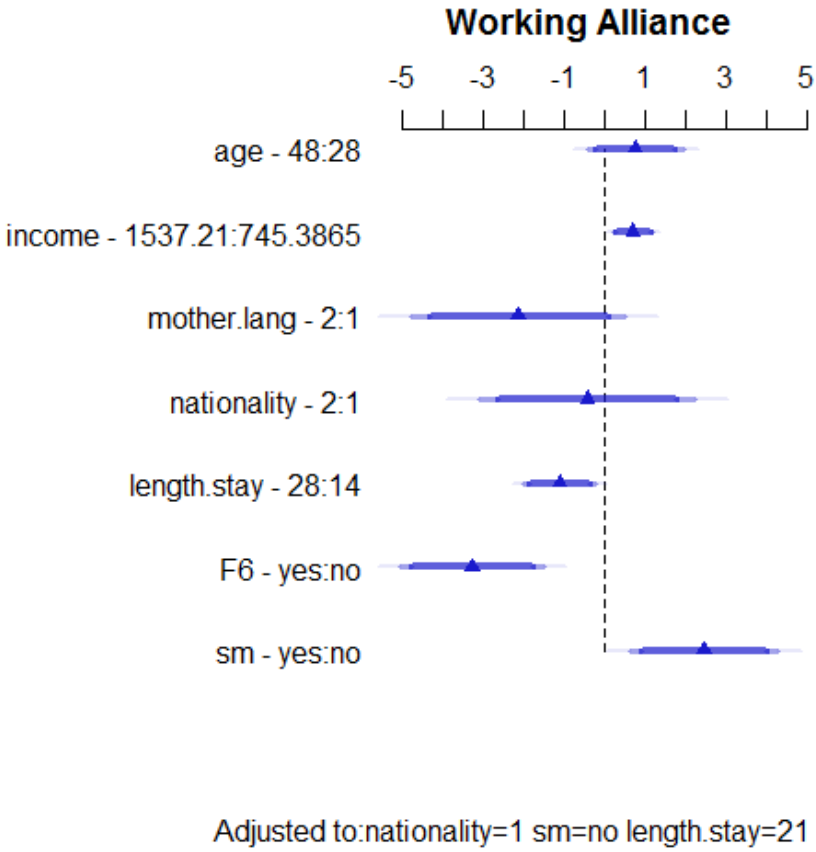
1. Confounders: BF = 169798.1
2. Full Model (Confounders + SM): BF = 83921.01
3. Model 1 compared to model 2: BF = 2.02 (anectodtal support for Model 1 over model 2)

1. Empirical mean and standard deviation for each variable,
   plus standard error of the mean:

	Mean	SD	Naive SE	Time-series
SE	47.3185841	4.962e-01	4.962e-03	4.962e-03
age-age	0.0341839	2.907e-02	2.907e-04	3.049e-04
income-income	0.0008201	3.096e-04	3.096e-06	3.096e-06
mother.lang-mother.lang	-2.0258695	1.296e+00	1.296e-02	1.296e-02
F6-no	1.5950478	4.481e-01	4.481e-03	4.594e-03
F6-yes	-1.5950478	4.481e-01	4.481e-03	4.594e-03
nationality-nationality	-2.8696455	1.433e+00	1.433e-02	1.484e-02
sm-no	-0.8808201	4.375e-01	4.375e-03	4.375e-03
sm-yes	0.8808201	4.375e-01	4.375e-03	4.375e-03
log.length-log.length	-2.2543423	6.422e-01	6.422e-03	6.518e-03
nationality:sm-no	2.4631121	1.328e+00	1.328e-02	1.328e-02
nationality:sm-yes	-2.4631121	1.328e+00	1.328e-02	1.328e-02
sm:log.length-no.&.log.length	0.7394074	6.440e-01	6.440e-03	6.924e-03
sm:log.length-yes.&.log.len	-0.7394074	6.440e-01	6.440e-03	6.924e-03
sig2	76.4389099	4.302e+00	4.302e-02	4.302e-02
g_F6	1.4928534	1.670e+01	1.670e-01	1.919e-01
g_sm	1.2202645	1.688e+01	1.688e-01	1.688e-01
g_continuous	0.0319039	2.386e-02	2.386e-04	2.386e-04

2. Quantiles for each variable:

	2.5%	25%	50%	75%	97.5%
mu	46.3359153	46.9836373	47.3254989	47.643479	48.300198
age-age	-0.0225961	0.0148531	0.0340991	0.053836	0.091758
income-income	0.0002158	0.0006061	0.0008184	0.001028	0.001429
mother.lang-mother.l	-4.5835722	-2.8954893	-2.0230154	-1.163896	0.510693
F6-no	0.7176617	1.2956012	1.5944873	1.898461	2.458356
F6-yes	-2.4583563	-1.8984611	-1.5944873	-1.295601	-0.717662
nationality-national	-5.7315366	-3.8319283	-2.8746818	-1.911374	-0.032014
sm-no	-1.7347943	-1.1725270	-0.8883389	-0.589882	-0.026702
sm-yes	0.0267022	0.5898822	0.8883389	1.172527	1.734794
log.length-log.length	-3.4919019	-2.6860264	-2.2634855	-1.819041	-0.992489
nationality:sm-no	-0.0957914	1.5631041	2.4631931	3.357007	5.060870
nationality:sm-yes	-5.0608701	-3.3570066	-2.4631931	-1.563104	0.095791
sm:log.length-no.&.log.length	-0.5040659	0.3043952	0.7297048	1.170551	2.005365
sm:log.length-yes.&.log.length	-2.0053654	-1.1705511	-0.7297048	-0.304395	0.504066
sig2	68.4630054	73.4139987	76.2942282	79.259782	85.223403
g_F6	0.0414281	0.1150946	0.2305666	0.563603	6.016946
g_sm	0.0369353	0.0992796	0.2015939	0.490815	5.377724
g_continuous	0.0106735	0.0184283	0.0259142	0.037601	0.088853


Working Alliance
-5
-3
-1
1
3
5
age - 48:28
income - 1537.21:745.3865
mother.lang - 2:1
nationality - 2:1
length.stay - 28:14
F6 - yes:no
sm - yes:no
Adjusted to:nationality=1 sm=no length.stay=21