SUPPLEMENTARY MATERIAL

Investigating the relationship of COVID-19 related stress and media consumption with schizotypy, depression and anxiety in cross-sectional surveys repeated throughout the pandemic in Germany and the UK

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# Model fit predictor measurement models

|  |
| --- |
| **Suppl. file 1a. Overview of the model fit indices for predictor models separated by timepoint** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | exact modelfit |  | relativ modelfit | | absolute modelfit | |
|  |  | Teststatistic | DF | *X2* |  | CFI |  | | RMSEA |
| Predictor | Timepoint |  |  |  |  |  |  | |  |
| COVID-19 related life concerns | 1 | 163.73 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 2 | 201.93 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 3 | 326.03 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 4 | 242.49 | 3 | .000 |  | 1.0 |  | | 0.0 |
| Social adversity | 1 | 269.48 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 2 | 258.30 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 3 | 364.40 | 3 | .000 |  | 1.0 |  | | 0.0 |
| 4 | 335.31 | 3 | .000 |  | 1.0 |  | | 0.0 |
| DF: degree of freedom, *X2*: Chi squared test, CFI: comparative fit index, TLI: Tucker-Lewis index, RMSEA: root mean square error of approximation | | | | | | | | | |

# Generalised Estimate Equation models for SPQ, Anxiety and Depression scores

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1b. Results of Generalised Estimate Equation models for the three outcome variables with survey timepoint as predictor** | | | | | | | | | | |
|  | | SPQ | | |  | Anxiety | |  | Depression | |
|  | | Coefficient | p-value | |  | Coefficient | p-value |  | Coefficient | p-value |
| Intercept | | 12.70 | .000 | |  | 0.56 | .000 |  | 0.86 | .000 |
| Sept./ Oct. 20 | | 1.28 | .051 | |  | -0.15 | .000 |  | -0.17 | .000 |
| Jan. /Feb. 21 | | 0.68 | .288 | |  | -0.15 | .000 |  | -0.04 | .343 |
| May 21 | | 0.74 | .261 | |  | -0.12 | .000 |  | -0.03 | .507 |
|  |  | | |  | | | | | | |

# Pearson’s correlation of anxiety and SPQ scores and depression and SPQ scores

|  |  |  |  |
| --- | --- | --- | --- |
| **Suppl. file 1c. Pearson’s correlation coefficient between SPQ sumscore, anxiety score (SCL-27) and depression score (SCL-27) at all four survey timepoints** | | | |
| Survey | SPQ &  Anxiety | SPQ &  Depression | Anxiety &  Depression |
| 1 - April/May 20 | 0.57 \*\*\* | 0.53 \*\*\* | 0.68 \*\*\* |
| 2 - Sept./ Oct. 20 | 0.68 \*\*\* | 0.58 \*\*\* | 0.73 \*\*\* |
| 3 - Jan. /Feb. 21 | 0.67 \*\*\* | 0.56 \*\*\* | 0.73 \*\*\* |
| 4 - May 21 | 0.66 \*\*\* | 0.56 \*\*\* | 0.71 \*\*\* |
| \*\*\* = p <.001 | | |  |

# Model fit indices without 27 participants who participated four times

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1d. Overview of the model fit indices separated by exogeneous latent variable and survey excluding 27 subjects, who completed all four time points.** | | | | | | | | | | | |
|  |  |  |  | exact model fit |  | relative model fit | |  | | absolute model fit |
|  |  | Test statistic | df | *X2* |  | CFI |  | | RMSEA | | |
| Predictor | Survey |  |  |  |  |  |  | |  | | |
| COVID-19 related  life  concerns | 1 - April/May 20 | 473.72 | 135 | .000 |  | 0.834 |  | | 0.073 | | |
| 2 - Sept./ Oct. 20 | 432.84 | 135 | .000 |  | 0.857 |  | | 0.074 | | |
| 3 - Jan. /Feb. 21 | 411.69 | 135 | .000 |  | 0.885 |  | | 0.066 | | |
| 4 - May 21 | 392.08 | 135 | .000 |  | 0.868 |  | | 0.067 | | |
| Social adversity | 1 - April/May 20 | 487.92 | 135 | .000 |  | 0.851 |  | | 0.075 | | |
| 2 - Sept./ Oct. 20 | 466.64 | 135 | .000 |  | 0.856 |  | | 0.078 | | |
| 3 - Jan. /Feb. 21 | 479.34 | 135 | .000 |  | 0.868 |  | | 0.074 | | |
| 4 - May 21 | 420.65 | 135 | .000 |  | 0.869 |  | | 0.071 | | |
| df: degree of freedom, *X2*: Chi squared test, CFI: comparative fit index, TLI: Tucker-Lewis index, RMSEA: root mean square error of approximation | | | | | | | | | | | |

# Complete outcome of structural equation models

## COVID-19 related life concerns’ model – first to forth timepoint

### First Timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1e. Complete outcome of structural equation with COVID-19 related life concerns from first survey timepoint.** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
| Number of observations | 480 |  |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Test statistic | 480.156 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2326.466 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.836 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.726 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -10237.799 |  |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -9997.722 |  |  |  |  |  |
| Akaike (AIC) | 20691.599 |  |  |  |  |  |
| Bayesian (BIC) | 21142.368 |  |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 20799.587 |  |  |  |  |  |
| **Root Mean Square Error of Approximation:** |  |  |  |  |  |  |
| RMSEA | 0.073 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.066 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.080 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** |  |  |  |  |  |  |
| SRMR | 0.067 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| Living Conditions =~ |  |  |  |  |  |  |
| Number\_rooms | 1.000 |  |  |  | 2.201 | 0.789 |
| Number people per household | 0.232 | 0.023 | 10.299 | 0.000 | 0.510 | 0.642 |
| Living Area | 0.324 | 0.030 | 10.924 | 0.000 | 0.713 | 0.528 |
| Garden\_yard | 0.132 | 0.014 | 9.264 | 0.000 | 0.290 | 0.630 |
| Health before COVID19 =~ | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.163 | 0.477 |
| Mental health status before COVID19 | 5.523 | 0.981 | 5.628 | 0.000 | 0.898 | 0.815 |
| Physical health status before COVID19 | 3.489 | 0.628 | 5.554 | 0.000 | 0.567 | 0.574 |
| COVID19 related life concerns =~ | |  |  |  |  |  |
| Financial impact due to COVID19 | 0.593 | 0.124 | 4.798 | 0.000 | 0.593 | 0.498 |
| Concerns about life stability | 1.005 | 0.199 | 5.052 | 0.000 | 1.005 | 0.786 |
| Restrictions perceived as stressful | 0.557 | 0.159 | 3.512 | 0.000 | 0.557 | 0.467 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression ~** | |  |  |  |  |  |
| Health before COVID19 | 2.306 | 0.348 | 6.626 | 0.000 | 0.375 | 0.533 |
| Country (residence) | -0.284 | 0.067 | -4.210 | 0.000 | -0.284 | -0.182 |
| Age | -0.057 | 0.030 | -1.854 | 0.064 | -0.057 | -0.080 |
| Gender | 0.061 | 0.060 | 1.015 | 0.310 | 0.061 | 0.038 |
| Highest education | -0.031 | 0.022 | -1.447 | 0.148 | -0.031 | -0.054 |
| Living Conditions | 0.009 | 0.018 | 0.483 | 0.629 | 0.019 | 0.027 |
| **anxiety ~** |  |  |  |  |  |  |
| Health before COVID19 | 1.632 | 0.294 | 5.553 | 0.000 | 0.265 | 0.458 |
| Country (residence) | -0.240 | 0.061 | -3.969 | 0.000 | -0.240 | -0.187 |
| Age | -0.085 | 0.024 | -3.542 | 0.000 | -0.085 | -0.146 |
| Gender | 0.032 | 0.049 | 0.656 | 0.512 | 0.032 | 0.025 |
| Highest education | 0.006 | 0.019 | 0.290 | 0.772 | 0.006 | 0.011 |
| Living Conditions | 0.006 | 0.015 | 0.376 | 0.707 | 0.012 | 0.022 |
| **SPQ\_total ~** | |  |  |  |  |  |
| Health before COVID19 | 2.671 | 0.488 | 5.469 | 0.000 | 0.434 | 0.447 |
| Country (residence) | 0.028 | 0.112 | 0.247 | 0.805 | 0.028 | 0.013 |
| Age | -0.087 | 0.048 | -1.813 | 0.070 | -0.087 | -0.089 |
| Gender | -0.141 | 0.088 | -1.604 | 0.109 | -0.141 | -0.064 |
| Highest education | -0.063 | 0.040 | -1.586 | 0.113 | -0.063 | -0.078 |
| Living Conditions | -0.020 | 0.024 | -0.857 | 0.392 | -0.045 | -0.046 |
| **Media ~** | |  |  |  |  |  |
| Health before COVID19 | 0.105 | 0.181 | 0.581 | 0.561 | 0.017 | 0.037 |
| Country (residence) | -0.174 | 0.050 | -3.492 | 0.000 | -0.174 | -0.169 |
| Age | -0.070 | 0.021 | -3.309 | 0.001 | -0.070 | -0.151 |
| Gender | -0.009 | 0.047 | -0.193 | 0.847 | -0.009 | -0.009 |
| Highest education | -0.046 | 0.017 | -2.642 | 0.008 | -0.046 | -0.119 |
| Living Conditions | -0.018 | 0.013 | -1.397 | 0.162 | -0.039 | -0.084 |
| **Drugs ~** | |  |  |  |  |  |
| Health before COVID19 | 0.556 | 0.147 | 3.779 | 0.000 | 0.090 | 0.272 |
| Country (residence) | 0.011 | 0.036 | 0.300 | 0.764 | 0.011 | 0.015 |
| Age | 0.025 | 0.016 | 1.562 | 0.118 | 0.025 | 0.075 |
| Gender | -0.007 | 0.035 | -0.209 | 0.835 | -0.007 | -0.010 |
| Highest education | -0.005 | 0.012 | -0.371 | 0.711 | -0.005 | -0.016 |
| Living Conditions | -0.004 | 0.008 | -0.436 | 0.663 | -0.008 | -0.024 |
| **Alcohol ~** | |  |  |  |  |  |
| Health before COVID19 | -1.439 | 0.880 | -1.635 | 0.102 | -0.234 | -0.104 |
| Country (residence) | -0.504 | 0.232 | -2.169 | 0.030 | -0.504 | -0.101 |
| Age | 0.456 | 0.102 | 4.466 | 0.000 | 0.456 | 0.202 |
| Gender | -0.490 | 0.228 | -2.144 | 0.032 | -0.490 | -0.096 |
| Highest education | 0.063 | 0.092 | 0.686 | 0.493 | 0.063 | 0.034 |
| Living Conditions | 0.051 | 0.059 | 0.860 | 0.390 | 0.112 | 0.050 |
| **Exercise ~** | |  |  |  |  |  |
| Health before COVID19 | -1.090 | 0.523 | -2.084 | 0.037 | -0.177 | -0.142 |
| Country (residence) | -0.508 | 0.138 | -3.667 | 0.000 | -0.508 | -0.184 |
| Age | 0.174 | 0.060 | 2.895 | 0.004 | 0.174 | 0.139 |
| Gender | -0.047 | 0.127 | -0.369 | 0.712 | -0.047 | -0.017 |
| Highest education | 0.036 | 0.045 | 0.812 | 0.417 | 0.036 | 0.035 |
| Living Conditions | -0.013 | 0.032 | -0.411 | 0.681 | -0.029 | -0.023 |
| **Sleep during week ~** | |  |  |  |  |  |
| Health before COVID19 | -0.095 | 0.256 | -0.370 | 0.711 | -0.015 | -0.024 |
| Country (residence) | -0.087 | 0.067 | -1.301 | 0.193 | -0.087 | -0.062 |
| Age | -0.075 | 0.029 | -2.575 | 0.010 | -0.075 | -0.118 |
| Gender | 0.102 | 0.067 | 1.526 | 0.127 | 0.102 | 0.071 |
| Highest education | -0.044 | 0.024 | -1.799 | 0.072 | -0.044 | -0.083 |
| Living Conditions | -0.019 | 0.017 | -1.118 | 0.264 | -0.042 | -0.066 |
| **healthBeforeCo19 ~** | |  |  |  |  |  |
| Country (residence) | -0.060 | 0.021 | -2.812 | 0.005 | -0.370 | -0.167 |
| Age | -0.025 | 0.010 | -2.589 | 0.010 | -0.154 | -0.153 |
| Gender | 0.045 | 0.020 | 2.281 | 0.023 | 0.278 | 0.123 |
| Highest education | -0.020 | 0.008 | -2.608 | 0.009 | -0.124 | -0.149 |
| Living Conditions | -0.008 | 0.006 | -1.424 | 0.154 | -0.107 | -0.107 |
| **depression ~** | |  |  |  |  |  |
| COVID19 related life concerns (c1) | 0.217 | 0.076 | 2.851 | 0.004 | 0.217 | 0.309 |
| **anxiety ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c2) | 0.069 | 0.049 | 1.405 | 0.160 | 0.069 | 0.119 |
| **SPQ\_total ~** | |  |  |  |  |  |
| COVID19 related life concerns (c3) | -0.004 | 0.065 | -0.063 | 0.950 | -0.004 | -0.004 |
| **Media ~** | |  |  |  |  |  |
| COVID19 related life concerns (a1) | 0.048 | 0.027 | 1.762 | 0.078 | 0.048 | 0.103 |
| **Drugs ~** | |  |  |  |  |  |
| COVID19 related life concerns (a2) | 0.030 | 0.027 | 1.112 | 0.266 | 0.030 | 0.089 |
| **Alcohol ~** | |  |  |  |  |  |
| COVID19 related life concerns (a3) | 0.199 | 0.180 | 1.102 | 0.271 | 0.199 | 0.088 |
| **Exercise ~** | |  |  |  |  |  |
| COVID19 related life concerns (a4) | -0.079 | 0.082 | -0.955 | 0.340 | -0.079 | -0.063 |
| **Sleep during week ~** | |  |  |  |  |  |
| COVID19 related life concerns (a5) | -0.080 | 0.050 | -1.600 | 0.110 | -0.080 | -0.125 |
| **depression ~** | |  |  |  |  |  |
| Media (b1) | 0.084 | 0.061 | 1.372 | 0.170 | 0.084 | 0.056 |
| Drugs (b2) | 0.076 | 0.098 | 0.775 | 0.439 | 0.076 | 0.036 |
| Alcohol (b3) | 0.036 | 0.014 | 2.588 | 0.010 | 0.036 | 0.114 |
| Exercise (b4) | -0.008 | 0.022 | -0.343 | 0.731 | -0.008 | -0.014 |
| Sleep during week(b5) | -0.152 | 0.054 | -2.797 | 0.005 | -0.152 | -0.137 |
| **anxiety ~** |  |  |  |  |  |  |
| Media (b6) | 0.095 | 0.057 | 1.674 | 0.094 | 0.095 | 0.076 |
| Drug (b7) | 0.052 | 0.097 | 0.538 | 0.591 | 0.052 | 0.030 |
| Alcohol (b8) | 0.011 | 0.011 | 0.948 | 0.343 | 0.011 | 0.041 |
| Exercise (b9) | 0.011 | 0.021 | 0.514 | 0.607 | 0.011 | 0.023 |
| Sleep during week (b10) | -0.094 | 0.046 | -2.023 | 0.043 | -0.094 | -0.103 |
| **SPQ\_total ~** | |  |  |  |  |  |
| Media (b11) | 0.231 | 0.100 | 2.323 | 0.020 | 0.231 | 0.111 |
| Drug (b12) | 0.147 | 0.148 | 0.998 | 0.318 | 0.147 | 0.050 |
| Alcohol (b13) | 0.010 | 0.021 | 0.489 | 0.625 | 0.010 | 0.024 |
| Exercise (b14) | -0.041 | 0.033 | -1.233 | 0.218 | -0.041 | -0.053 |
| Sleep during week (b15) | -0.118 | 0.066 | -1.791 | 0.073 | -0.118 | -0.077 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.135 | 0.025 | 5.446 | 0.000 | 0.135 | 0.363 |
| .depression ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.058 | 0.026 | 2.222 | 0.026 | 0.058 | 0.151 |
| .anxiety | 0.099 | 0.019 | 5.086 | 0.000 | 0.099 | 0.458 |
| Living Conditions ~~ |  |  |  |  |  |  |
| COVID19 related life concerns | -0.443 | 0.150 | -2.958 | 0.003 | -0.201 | -0.201 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| COVID19 related life concerns | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 2.931 | 0.457 | 6.410 | 0.000 | 2.931 | 0.377 |
| .Number people per household | 0.371 | 0.028 | 13.260 | 0.000 | 0.371 | 0.588 |
| .Living Area | 1.318 | 0.098 | 13.503 | 0.000 | 1.318 | 0.722 |
| .Garden\_yard | 0.128 | 0.010 | 13.073 | 0.000 | 0.128 | 0.603 |
| .Regular treatment physical illness | 0.089 | 0.009 | 10.132 | 0.000 | 0.089 | 0.772 |
| .Mental health status before COVID19 | 0.409 | 0.098 | 4.164 | 0.000 | 0.409 | 0.336 |
| .Physical health status before COVID19 | 0.655 | 0.050 | 13.064 | 0.000 | 0.655 | 0.671 |
| .Financial Impact due to COVID19 | 1.064 | 0.111 | 9.620 | 0.000 | 1.064 | 0.752 |
| .Concerns about life stability | 0.624 | 0.387 | 1.613 | 0.107 | 0.624 | 0.381 |
| .Restrictions perceived as stressful | 1.114 | 0.195 | 5.717 | 0.000 | 1.114 | 0.782 |
| .depression | 0.224 | 0.033 | 6.752 | 0.000 | 0.224 | 0.453 |
| .anxiety | 0.207 | 0.022 | 9.239 | 0.000 | 0.207 | 0.618 |
| .SPQ\_total | 0.664 | 0.061 | 10.812 | 0.000 | 0.664 | 0.705 |
| .Media | 0.193 | 0.009 | 21.552 | 0.000 | 0.193 | 0.896 |
| .Drug | 0.101 | 0.010 | 9.649 | 0.000 | 0.101 | 0.917 |
| .Alcohol | 4.606 | 0.199 | 23.100 | 0.000 | 4.606 | 0.913 |
| .Exercise | 1.438 | 0.076 | 18.908 | 0.000 | 1.438 | 0.929 |
| .Sleep during week | 0.383 | 0.027 | 14.418 | 0.000 | 0.383 | 0.951 |
| Living Conditions | 4.846 | 0.569 | 8.518 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.023 | 0.006 | 3.620 | 0.000 | 0.886 | 0.886 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.004 | 0.004 | 1.075 | 0.282 | 0.004 | 0.006 |
| indirect2 | 0.002 | 0.004 | 0.520 | 0.603 | 0.002 | 0.003 |
| indirect3 | 0.007 | 0.006 | 1.250 | 0.211 | 0.007 | 0.010 |
| indirect4 | 0.001 | 0.002 | 0.256 | 0.798 | 0.001 | 0.001 |
| indirect5 | 0.012 | 0.007 | 1.721 | 0.085 | 0.012 | 0.017 |
| indirect6 | 0.005 | 0.004 | 1.174 | 0.240 | 0.005 | 0.008 |
| indirect7 | 0.002 | 0.004 | 0.351 | 0.726 | 0.002 | 0.003 |
| indirect8 | 0.002 | 0.003 | 0.620 | 0.535 | 0.002 | 0.004 |
| indirect9 | -0.001 | 0.002 | -0.390 | 0.696 | -0.001 | -0.001 |
| indirect10 | 0.007 | 0.006 | 1.293 | 0.196 | 0.007 | 0.013 |
| indirect11 | 0.011 | 0.008 | 1.337 | 0.181 | 0.011 | 0.011 |
| indirect12 | 0.004 | 0.008 | 0.581 | 0.561 | 0.004 | 0.005 |
| indirect13 | 0.002 | 0.007 | 0.304 | 0.761 | 0.002 | 0.002 |
| indirect14 | 0.003 | 0.005 | 0.666 | 0.506 | 0.003 | 0.003 |
| indirect15 | 0.009 | 0.009 | 1.021 | 0.307 | 0.009 | 0.010 |
| total1 | 0.221 | 0.075 | 2.934 | 0.003 | 0.221 | 0.315 |
| total2 | 0.220 | 0.076 | 2.897 | 0.004 | 0.220 | 0.312 |
| total3 | 0.225 | 0.077 | 2.899 | 0.004 | 0.225 | 0.319 |
| total4 | 0.218 | 0.076 | 2.868 | 0.004 | 0.218 | 0.310 |
| total5 | 0.229 | 0.078 | 2.933 | 0.003 | 0.229 | 0.326 |
| total6 | 0.073 | 0.049 | 1.509 | 0.131 | 0.073 | 0.127 |
| total7 | 0.070 | 0.049 | 1.449 | 0.147 | 0.070 | 0.122 |
| total8 | 0.071 | 0.049 | 1.449 | 0.147 | 0.071 | 0.123 |
| total9 | 0.068 | 0.049 | 1.383 | 0.167 | 0.068 | 0.117 |
| total10 | 0.076 | 0.050 | 1.523 | 0.128 | 0.076 | 0.132 |
| total11 | 0.007 | 0.066 | 0.107 | 0.915 | 0.007 | 0.007 |
| total12 | 0.000 | 0.064 | 0.004 | 0.997 | 0.000 | 0.000 |
| total13 | -0.002 | 0.064 | -0.033 | 0.974 | -0.002 | -0.002 |
| total14 | -0.001 | 0.066 | -0.014 | 0.989 | -0.001 | -0.001 |
| total15 | 0.005 | 0.063 | 0.083 | 0.934 | 0.005 | 0.005 |
|  |  |  |  |  |  |  |

### Second Timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1f. Complete outcome of structural equation with COVID-19 related life concerns from second survey timepoint.** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
|  | Used | Total |  |  |  |  |
| Number of observations | 431 | 464 |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
| Test statistic | 440.014 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2.430.458 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.862 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.770 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -8403.637 |  |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -8183.630 |  |  |  |  |  |
| Akaike (AIC) | 17023.274 | |  |  |  |  |
| Bayesian (BIC) | 17462.414 | |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 17119.684 | |  |  |  |  |
| **Root Mean Square Error of Approximation:** | |  |  |  |  |  |
| RMSEA | 0.072 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.065 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.080 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** | | |  |  |  |  |
| SRMR | 0.063 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **Living Conditions =~** |  |  |  |  |  |  |
| Number\_rooms | 1.000 |  |  |  | 1.988 | 0.905 |
| Number people per household | 0.412 | 0.035 | 11.667 | 0.000 | 0.819 | 0.647 |
| Living Area | 0.344 | 0.041 | 8.287 | 0.000 | 0.683 | 0.498 |
| Garden\_yard | 0.134 | 0.017 | 8.018 | 0.000 | 0.267 | 0.569 |
| **Health before COVID19 =~** | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.159 | 0.496 |
| Mental health status before COVID19 | -5.172 | 1.110 | -4.661 | 0.000 | -0.824 | -0.803 |
| Physical health status before COVID19 | -3.316 | 0.679 | -4.880 | 0.000 | -0.528 | -0.573 |
| **COVID19 related life concerns =~** | |  |  |  |  |  |
| Financial impact due to COVID19 | 0.602 | 0.065 | 9.220 | 0.000 | 0.602 | 0.628 |
| Concerns about life stability | 0.912 | 0.078 | 11.727 | 0.000 | 0.912 | 0.813 |
| Restrictions perceived as stressful | 0.453 | 0.065 | 6.973 | 0.000 | 0.453 | 0.437 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression ~** |  |  |  |  |  |  |
| Health before COVID19 | -1.724 | 0.358 | -4.810 | 0.000 | -0.275 | -0.412 |
| Country (residence) | -0.277 | 0.068 | -4.061 | 0.000 | -0.277 | -0.174 |
| Age | -0.006 | 0.002 | -3.793 | 0.000 | -0.006 | -0.144 |
| Gender | -0.009 | 0.061 | -0.146 | 0.884 | -0.009 | -0.006 |
| Highest education | 0.012 | 0.021 | 0.553 | 0.580 | 0.012 | 0.022 |
| Living Conditions | -0.003 | 0.015 | -0.216 | 0.829 | -0.007 | -0.010 |
| **anxiety ~** |  |  |  |  |  |  |
| Health before COVID19 | -1.390 | 0.254 | -5.476 | 0.000 | -0.221 | -0.406 |
| Country (residence) | -0.163 | 0.065 | -2.496 | 0.013 | -0.163 | -0.125 |
| Age | -0.008 | 0.001 | -5.806 | 0.000 | -0.008 | -0.220 |
| Gender | 0.019 | 0.048 | 0.384 | 0.701 | 0.019 | 0.015 |
| Highest education | -0.040 | 0.020 | -2.033 | 0.042 | -0.040 | -0.090 |
| Living Conditions | 0.012 | 0.014 | 0.829 | 0.407 | 0.023 | 0.043 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| Health before COVID19 | -2.861 | 0.534 | -5.353 | 0.000 | -0.456 | -0.466 |
| Country (residence) | -0.034 | 0.118 | -0.286 | 0.775 | -0.034 | -0.014 |
| Age | -0.006 | 0.002 | -2.606 | 0.009 | -0.006 | -0.100 |
| Gender | -0.213 | 0.093 | -2.284 | 0.022 | -0.213 | -0.096 |
| Highest education | -0.119 | 0.034 | -3.482 | 0.000 | -0.119 | -0.150 |
| Living Conditions | 0.020 | 0.026 | 0.788 | 0.430 | 0.040 | 0.041 |
| **Media ~** |  |  |  |  |  |  |
| Health before COVID19 | -0.272 | 0.161 | -1.695 | 0.090 | -0.043 | -0.105 |
| Country (residence) | -0.122 | 0.047 | -2.605 | 0.009 | -0.122 | -0.123 |
| Age | -0.004 | 0.001 | -2.911 | 0.004 | -0.004 | -0.154 |
| Gender | -0.039 | 0.043 | -0.912 | 0.362 | -0.039 | -0.042 |
| Highest education | -0.080 | 0.015 | -5.174 | 0.000 | -0.080 | -0.239 |
| Living Conditions | -0.007 | 0.011 | -0.645 | 0.519 | -0.014 | -0.035 |
| **Drugs ~** |  |  |  |  |  |  |
| Health before COVID19 | -0.256 | 0.152 | -1.679 | 0.093 | -0.041 | -0.119 |
| Country (residence) | -0.103 | 0.047 | -2.172 | 0.030 | -0.103 | -0.126 |
| Age | -0.000 | 0.001 | -0.366 | 0.714 | -0.000 | -0.016 |
| Gender | 0.029 | 0.035 | 0.850 | 0.395 | 0.029 | 0.038 |
| Highest education | -0.032 | 0.015 | -2.045 | 0.041 | -0.032 | -0.114 |
| Living Conditions | -0.021 | 0.008 | -2.465 | 0.014 | -0.041 | -0.120 |
| **Alcohol ~** |  |  |  |  |  |  |
| Health before COVID19 | 1.471 | 0.915 | 1.608 | 0.108 | 0.234 | 0.109 |
| Country (residence) | -0.506 | 0.247 | -2.046 | 0.041 | -0.506 | -0.099 |
| Age | 0.018 | 0.007 | 2.665 | 0.008 | 0.018 | 0.134 |
| Gender | -0.462 | 0.236 | -1.955 | 0.051 | -0.462 | -0.095 |
| Highest education | 0.166 | 0.093 | 1.772 | 0.076 | 0.166 | 0.095 |
| Living Conditions | 0.042 | 0.058 | 0.720 | 0.471 | 0.083 | 0.039 |
| **Exercise ~** | |  |  |  |  |  |
| Health before COVID19 | 1.044 | 0.443 | 2.355 | 0.019 | 0.166 | 0.164 |
| Country (residence) | -0.186 | 0.126 | -1.472 | 0.141 | -0.186 | -0.077 |
| Age | 0.000 | 0.003 | 0.042 | 0.967 | 0.000 | 0.002 |
| Gender | -0.165 | 0.115 | -1.438 | 0.150 | -0.165 | -0.072 |
| Highest education | 0.055 | 0.042 | 1.308 | 0.191 | 0.055 | 0.067 |
| Living Conditions | -0.010 | 0.027 | -0.369 | 0.712 | -0.020 | -0.019 |
| **Sleep during week ~** | |  |  |  |  |  |
| Health before COVID19 | 0.397 | 0.153 | 2.588 | 0.010 | 0.063 | 0.183 |
| Country (residence) | 0.070 | 0.042 | 1.664 | 0.096 | 0.070 | 0.085 |
| Age | -0.001 | 0.001 | -1.356 | 0.175 | -0.001 | -0.061 |
| Gender | 0.061 | 0.041 | 1.472 | 0.141 | 0.061 | 0.078 |
| Highest education | 0.020 | 0.016 | 1.289 | 0.197 | 0.020 | 0.072 |
| Living Conditions | -0.003 | 0.010 | -0.360 | 0.719 | -0.007 | -0.020 |
| **healthBeforeCo19 ~** | |  |  |  |  |  |
| Country (residence) | 0.085 | 0.028 | 3.052 | 0.002 | 0.534 | 0.224 |
| Age | 0.001 | 0.001 | 1.598 | 0.110 | 0.006 | 0.089 |
| Gender | 0.013 | 0.019 | 0.654 | 0.513 | 0.079 | 0.035 |
| Highest education | 0.015 | 0.010 | 1.572 | 0.116 | 0.095 | 0.117 |
| Living Conditions | 0.017 | 0.007 | 2.573 | 0.010 | 0.217 | 0.217 |
| **depression ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c1) | 0.278 | 0.044 | 6.352 | 0.000 | 0.278 | 0.417 |
| **anxiety ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c2) | 0.183 | 0.047 | 3.899 | 0.000 | 0.183 | 0.336 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c3) | 0.225 | 0.066 | 3.400 | 0.001 | 0.225 | 0.230 |
| **Media ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a1) | 0.005 | 0.024 | 0.217 | 0.828 | 0.005 | 0.012 |
| **Drugs ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a2) | 0.038 | 0.023 | 1.650 | 0.099 | 0.038 | 0.110 |
| **Alcohol ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a3) | -0.041 | 0.137 | -0.300 | 0.764 | -0.041 | -0.019 |
| **Exercise ~** | |  |  |  |  |  |
| COVID19 related life concerns (a4) | -0.099 | 0.066 | -1.503 | 0.133 | -0.099 | -0.097 |
| **Sleep during week ~** | |  |  |  |  |  |
| COVID19 related life concerns (a5) | -0.022 | 0.023 | -0.969 | 0.332 | -0.022 | -0.063 |
| **depression ~** |  |  |  |  |  |  |
| Media (b1) | 0.099 | 0.065 | 1.523 | 0.128 | 0.099 | 0.061 |
| Drugs (b2) | 0.140 | 0.115 | 1.219 | 0.223 | 0.140 | 0.072 |
| Alcohol (b3) | 0.020 | 0.013 | 1.489 | 0.137 | 0.020 | 0.063 |
| Exercise (b4) | -0.015 | 0.025 | -0.606 | 0.544 | -0.015 | -0.023 |
| Sleep during week(b5) | -0.189 | 0.083 | -2.272 | 0.023 | -0.189 | -0.098 |
| **anxiety ~** |  |  |  |  |  |  |
| Media (b6) | 0.105 | 0.054 | 1.942 | 0.052 | 0.105 | 0.080 |
| Drug (b7) | 0.110 | 0.089 | 1.233 | 0.218 | 0.110 | 0.069 |
| Alcohol (b8) | 0.002 | 0.011 | 0.181 | 0.857 | 0.002 | 0.008 |
| Exercise (b9) | 0.018 | 0.023 | 0.792 | 0.428 | 0.018 | 0.034 |
| Sleep during week (b10) | -0.130 | 0.072 | -1.792 | 0.073 | -0.130 | -0.082 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| Media (b11) | 0.255 | 0.101 | 2.532 | 0.011 | 0.255 | 0.108 |
| Drug (b12) | 0.138 | 0.132 | 1.048 | 0.295 | 0.138 | 0.048 |
| Alcohol (b13) | 0.013 | 0.019 | 0.706 | 0.480 | 0.013 | 0.030 |
| Exercise (b14) | 0.031 | 0.044 | 0.708 | 0.479 | 0.031 | 0.032 |
| Sleep during week (b15) | -0.300 | 0.124 | -2.428 | 0.015 | -0.300 | -0.106 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.121 | 0.024 | 5.041 | 0.000 | 0.121 | 0.416 |
| .depression ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.076 | 0.027 | 2.791 | 0.005 | 0.076 | 0.225 |
| .anxiety | 0.088 | 0.017 | 5.181 | 0.000 | 0.088 | 0.495 |
| Living Conditions ~~ |  |  |  |  |  |  |
| COVID19 related life concerns | -0.176 | 0.123 | -1.422 | 0.155 | -0.088 | -0.088 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| COVID19 related life concerns | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 0.870 | 0.309 | 2.819 | 0.005 | 0.870 | 0.180 |
| .Number people per household | 0.928 | 0.076 | 12.292 | 0.000 | 0.928 | 0.581 |
| .Living Area | 1.412 | 0.092 | 15.393 | 0.000 | 1.412 | 0.752 |
| .Garden\_yard | 0.149 | 0.010 | 14.352 | 0.000 | 0.149 | 0.677 |
| .Regular treatment physical illness | 0.078 | 0.008 | 9.167 | 0.000 | 0.078 | 0.754 |
| .Mental health status before COVID19 | 0.374 | 0.092 | 4.068 | 0.000 | 0.374 | 0.356 |
| .Physical health status before COVID19 | 0.571 | 0.057 | 10.019 | 0.000 | 0.571 | 0.672 |
| .Financial Impact due to COVID19 | 0.557 | 0.063 | 8.874 | 0.000 | 0.557 | 0.606 |
| .Concerns about life stability | 0.426 | 0.109 | 3.915 | 0.000 | 0.426 | 0.339 |
| .Restrictions perceived as stressful | 0.868 | 0.067 | 12.934 | 0.000 | 0.868 | 0.809 |
| .depression | 0.206 | 0.028 | 7.301 | 0.000 | 0.206 | 0.464 |
| .anxiety | 0.155 | 0.020 | 7.892 | 0.000 | 0.155 | 0.521 |
| .SPQ\_total | 0.550 | 0.047 | 11.603 | 0.000 | 0.550 | 0.576 |
| .Media | 0.149 | 0.010 | 182 | 0.000 | 0.149 | 0.873 |
| .Drug | 0.106 | 0.011 | 9.588 | 0.000 | 0.106 | 0.910 |
| .Alcohol | 4.300 | 0.169 | 25.434 | 0.000 | 4.300 | 0.936 |
| .Exercise | 0.981 | 0.072 | 13.698 | 0.000 | 0.981 | 0.951 |
| .Sleep during week | 0.112 | 0.011 | 10.198 | 0.000 | 0.112 | 0.935 |
| Living Conditions | 3.953 | 0.475 | 8.319 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.022 | 0.006 | 3.490 | 0.000 | 0.879 | 0.879 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.001 | 0.003 | 0.188 | 0.851 | 0.001 | 0.001 |
| indirect2 | 0.005 | 0.006 | 0.877 | 0.381 | 0.005 | 0.008 |
| indirect3 | -0.001 | 0.003 | -0.243 | 0.808 | -0.001 | -0.001 |
| indirect4 | 0.001 | 0.003 | 0.506 | 0.613 | 0.001 | 0.002 |
| indirect5 | 0.004 | 0.005 | 0.855 | 0.392 | 0.004 | 0.006 |
| indirect6 | 0.001 | 0.003 | 0.197 | 0.844 | 0.001 | 0.001 |
| indirect7 | 0.004 | 0.005 | 0.870 | 0.384 | 0.004 | 0.008 |
| indirect8 | -0.000 | 0.002 | -0.049 | 0.961 | -0.000 | -0.000 |
| indirect9 | -0.002 | 0.003 | -0.613 | 0.540 | -0.002 | -0.003 |
| indirect10 | 0.003 | 0.004 | 0.798 | 0.425 | 0.003 | 0.005 |
| indirect11 | 0.001 | 0.007 | 0.201 | 0.840 | 0.001 | 0.001 |
| indirect12 | 0.005 | 0.007 | 0.776 | 0.437 | 0.005 | 0.005 |
| indirect13 | -0.001 | 0.003 | -0.161 | 0.872 | -0.001 | -0.001 |
| indirect14 | -0.003 | 0.006 | -0.540 | 0.589 | -0.003 | -0.003 |
| indirect15 | 0.007 | 0.007 | 0.898 | 0.369 | 0.007 | 0.007 |
| total1 | 0.278 | 0.044 | 6.350 | 0.000 | 0.278 | 0.418 |
| total2 | 0.283 | 0.045 | 6.347 | 0.000 | 0.283 | 0.425 |
| total3 | 0.277 | 0.044 | 6.227 | 0.000 | 0.277 | 0.416 |
| total4 | 0.279 | 0.043 | 6.432 | 0.000 | 0.279 | 0.419 |
| total5 | 0.282 | 0.044 | 6.388 | 0.000 | 0.282 | 0.423 |
| total6 | 0.183 | 0.047 | 3.924 | 0.000 | 0.183 | 0.337 |
| total7 | 0.187 | 0.047 | 3.957 | 0.000 | 0.187 | 0.343 |
| total8 | 0.183 | 0.047 | 3.906 | 0.000 | 0.183 | 0.335 |
| total9 | 0.181 | 0.046 | 3.899 | 0.000 | 0.181 | 0.332 |
| total10 | 0.186 | 0.047 | 3.914 | 0.000 | 0.186 | 0.341 |
| total11 | 0.226 | 0.066 | 3.408 | 0.001 | 0.226 | 0.231 |
| total12 | 0.230 | 0.066 | 3.480 | 0.001 | 0.230 | 0.235 |
| total13 | 0.224 | 0.066 | 3.397 | 0.001 | 0.224 | 0.229 |
| total14 | 0.222 | 0.066 | 3.384 | 0.001 | 0.222 | 0.227 |
| total15 | 0.231 | 0.066 | 3.492 | 0.000 | 0.231 | 0.237 |
|  |  |  |  |  |  |  |

### Third timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1g. Complete outcome of structural equation with COVID-19 related life concerns from third survey timepoint.** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
|  | Used | Total |  |  |  |  |
| Number of observations | 496 | 532 |  |  |  |  |
|  |  |  |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
| Test statistic | 426.425 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2.725.462 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.883 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.806 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -10554.934 | |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -10341.722 | |  |  |  |  |
| Akaike (AIC) | 21325.868 | |  |  |  |  |
| Bayesian (BIC) | 21780.178 | |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 21437.383 | |  |  |  |  |
| **Root Mean Square Error of Approximation:** | | |  |  |  |  |
| RMSEA | 0.066 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.059 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.073 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** |  |  |  |  |  |  |
| SRMR | 0.056 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **Living Conditions =~** |  |  |  |  |  |  |
| Number\_rooms | 1.000 |  |  |  | 1.744 | 0.804 |
| Number people per household | 0.402 | 0.041 | 9.927 | 0.000 | 0.702 | 0.531 |
| Living Area | 0.424 | 0.062 | 6.815 | 0.000 | 0.739 | 0.535 |
| Garden\_yard | 0.159 | 0.023 | 6.783 | 0.000 | 0.278 | 0.605 |
| **Health before COVID19 =~** | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.205 | 0.566 |
| Mental health status before COVID19 | -4.338 | 0.614 | -7.069 | 0.000 | -0.889 | -0.867 |
| Physical health status before COVID19 | -2.995 | 0.416 | -7.207 | 0.000 | -0.614 | -0.619 |
| **COVID19 related life concerns =~** | |  |  |  |  |  |
| Financial impact due to COVID19 | 0.672 | 0.066 | 10.154 | 0.000 | 0.672 | 0.627 |
| Concerns about life stability | 0.997 | 0.062 | 16.127 | 0.000 | 0.997 | 0.772 |
| Restrictions perceived as stressful | 0.780 | 0.064 | 12.109 | 0.000 | 0.780 | 0.660 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression ~** |  |  |  |  |  |  |
| Health before COVID19 | -1.575 | 0.228 | -6.893 | 0.000 | -0.323 | -0.434 |
| Country (residence) | -0.189 | 0.069 | -2.755 | 0.006 | -0.189 | -0.117 |
| Age | -0.005 | 0.002 | -2.952 | 0.003 | -0.005 | -0.107 |
| Gender | 0.027 | 0.062 | 0.434 | 0.664 | 0.027 | 0.016 |
| Highest education | 0.020 | 0.019 | 1.038 | 0.299 | 0.020 | 0.039 |
| Living Conditions | 0.019 | 0.020 | 0.973 | 0.331 | 0.034 | 0.045 |
| **anxiety ~** |  |  |  |  |  |  |
| Health before COVID19 | -1.120 | 0.206 | -5.447 | 0.000 | -0.229 | -0.400 |
| Country (residence) | -0.140 | 0.063 | -2.226 | 0.026 | -0.140 | -0.112 |
| Age | -0.007 | 0.001 | -4.627 | 0.000 | -0.007 | -0.172 |
| Gender | 0.125 | 0.043 | 2.911 | 0.004 | 0.125 | 0.098 |
| Highest education | 0.011 | 0.017 | 0.678 | 0.498 | 0.011 | 0.030 |
| Living Conditions | 0.021 | 0.016 | 1.317 | 0.188 | 0.037 | 0.065 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| Health before COVID19 | -1.836 | 0.300 | -6.112 | 0.000 | -0.376 | -0.373 |
| Country (residence) | -0.083 | 0.109 | -0.761 | 0.446 | -0.083 | -0.038 |
| Age | -0.011 | 0.003 | -4.336 | 0.000 | -0.011 | -0.167 |
| Gender | 0.039 | 0.095 | 0.411 | 0.681 | 0.039 | 0.017 |
| Highest education | -0.065 | 0.028 | -2.286 | 0.022 | -0.065 | -0.096 |
| Living Conditions | -0.023 | 0.029 | -0.787 | 0.431 | -0.039 | -0.039 |
| **Media ~** |  |  |  |  |  |  |
| Health before COVID19 | -0.130 | 0.123 | -1.055 | 0.292 | -0.027 | -0.055 |
| Country (residence) | -0.059 | 0.044 | -1.331 | 0.183 | -0.059 | -0.056 |
| Age | -0.001 | 0.001 | -0.836 | 0.403 | -0.001 | -0.037 |
| Gender | -0.140 | 0.048 | -2.907 | 0.004 | -0.140 | -0.130 |
| Highest education | -0.071 | 0.014 | -5.258 | 0.000 | -0.071 | -0.218 |
| Living Conditions | -0.031 | 0.015 | -2.033 | 0.042 | -0.054 | -0.110 |
| **Drugs ~** |  |  |  |  |  |  |
| Health before COVID19 | -0.387 | 0.101 | -3.818 | 0.000 | -0.079 | -0.214 |
| Country (residence) | 0.054 | 0.038 | 1.393 | 0.164 | 0.054 | 0.067 |
| Age | -0.001 | 0.001 | -1.364 | 0.173 | -0.001 | -0.058 |
| Gender | 0.008 | 0.034 | 0.247 | 0.805 | 0.008 | 0.010 |
| Highest education | -0.004 | 0.011 | -0.346 | 0.729 | -0.004 | -0.016 |
| Living Conditions | -0.014 | 0.011 | -1.258 | 0.208 | -0.024 | -0.065 |
| **Alcohol ~** |  |  |  |  |  |  |
| Health before COVID19 | 1.292 | 0.567 | 2.279 | 0.023 | 0.265 | 0.119 |
| Country (residence) | -0.233 | 0.209 | -1.114 | 0.265 | -0.233 | -0.048 |
| Age | 0.022 | 0.007 | 3.212 | 0.001 | 0.022 | 0.147 |
| Gender | -0.237 | 0.232 | -1.022 | 0.307 | -0.237 | -0.048 |
| Highest education | 0.233 | 0.070 | 3.342 | 0.001 | 0.233 | 0.156 |
| Living Conditions | 0.012 | 0.063 | 0.183 | 0.855 | 0.020 | 0.009 |
| **Exercise ~** | |  |  |  |  |  |
| Health before COVID19 | -0.130 | 0.291 | -0.448 | 0.654 | -0.027 | -0.023 |
| Country (residence) | -0.201 | 0.116 | -1.737 | 0.082 | -0.201 | -0.080 |
| Age | 0.004 | 0.004 | 1.056 | 0.291 | 0.004 | 0.050 |
| Gender | 0.110 | 0.113 | 0.971 | 0.331 | 0.110 | 0.043 |
| Highest education | 0.142 | 0.035 | 4.023 | 0.000 | 0.142 | 0.183 |
| Living Conditions | 0.070 | 0.036 | 1.914 | 0.056 | 0.121 | 0.105 |
| **Sleep during week ~** | |  |  |  |  |  |
| Health before COVID19 | -0.065 | 0.189 | -0.341 | 0.733 | -0.013 | -0.021 |
| Country (residence) | 0.143 | 0.071 | 2.026 | 0.043 | 0.143 | 0.104 |
| Age | -0.004 | 0.002 | -2.324 | 0.020 | -0.004 | -0.105 |
| Gender | 0.264 | 0.058 | 4.532 | 0.000 | 0.264 | 0.188 |
| Highest education | 0.008 | 0.018 | 0.468 | 0.640 | 0.008 | 0.019 |
| Living Conditions | -0.016 | 0.020 | -0.832 | 0.405 | -0.028 | -0.045 |
| **healthBeforeCo19 ~** | |  |  |  |  |  |
| Country (residence) | 0.050 | 0.026 | 1.929 | 0.054 | 0.245 | 0.113 |
| Age | 0.001 | 0.001 | 2.203 | 0.028 | 0.007 | 0.107 |
| Gender | -0.022 | 0.022 | -1.016 | 0.310 | -0.109 | -0.049 |
| Highest education | 0.002 | 0.007 | 0.235 | 0.814 | 0.008 | 0.012 |
| Living Conditions | 0.011 | 0.009 | 1.260 | 0.208 | 0.092 | 0.092 |
| **depression ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c1) | 0.305 | 0.048 | 6.387 | 0.000 | 0.305 | 0.409 |
| **anxiety ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c2) | 0.144 | 0.036 | 3.987 | 0.000 | 0.144 | 0.252 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| COVID19 related life concerns (c3) | 0.090 | 0.060 | 1.510 | 0.131 | 0.090 | 0.089 |
| **Media ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a1) | 0.099 | 0.026 | 3.850 | 0.000 | 0.099 | 0.203 |
| **Drugs ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a2) | 0.091 | 0.025 | 3.693 | 0.000 | 0.091 | 0.246 |
| **Alcohol ~** |  |  |  |  |  |  |
| COVID19 related life concerns (a3) | 0.075 | 0.120 | 0.621 | 0.535 | 0.075 | 0.034 |
| **Exercise ~** | |  |  |  |  |  |
| COVID19 related life concerns (a4) | -0.107 | 0.057 | -1.887 | 0.059 | -0.107 | -0.093 |
| **Sleep during week ~** | |  |  |  |  |  |
| COVID19 related life concerns (a5) | -0.168 | 0.033 | -5.099 | 0.000 | -0.168 | -0.264 |
| **depression ~** |  |  |  |  |  |  |
| Media (b1) | 0.189 | 0.062 | 3.054 | 0.002 | 0.189 | 0.124 |
| Drugs (b2) | 0.140 | 0.101 | 1.386 | 0.166 | 0.140 | 0.070 |
| Alcohol (b3) | 0.020 | 0.012 | 1.653 | 0.098 | 0.020 | 0.061 |
| Exercise (b4) | -0.025 | 0.024 | -1.049 | 0.294 | -0.025 | -0.039 |
| Sleep during week(b5) | -0.046 | 0.050 | -0.934 | 0.350 | -0.046 | -0.040 |
| **anxiety ~** |  |  |  |  |  |  |
| Media (b6) | 0.174 | 0.051 | 3.406 | 0.001 | 0.174 | 0.148 |
| Drug (b7) | 0.143 | 0.082 | 1.731 | 0.083 | 0.143 | 0.092 |
| Alcohol (b8) | -0.009 | 0.011 | -0.767 | 0.443 | -0.009 | -0.034 |
| Exercise (b9) | 0.009 | 0.019 | 0.503 | 0.615 | 0.009 | 0.019 |
| Sleep during week (b10) | -0.005 | 0.049 | -0.107 | 0.915 | -0.005 | -0.006 |
| **SPQ\_total ~** |  |  |  |  |  |  |
| Media (b11) | 0.306 | 0.089 | 3.444 | 0.001 | 0.306 | 0.148 |
| Drug (b12) | 0.114 | 0.136 | 0.842 | 0.400 | 0.114 | 0.042 |
| Alcohol (b13) | -0.020 | 0.020 | -0.995 | 0.320 | -0.020 | -0.043 |
| Exercise (b14) | 0.007 | 0.035 | 0.187 | 0.852 | 0.007 | 0.007 |
| Sleep during week (b15) | -0.145 | 0.076 | -1.906 | 0.057 | -0.145 | -0.091 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.209 | 0.028 | 7.382 | 0.000 | 0.209 | 0.550 |
| .depression ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.178 | 0.029 | 6.099 | 0.000 | 0.178 | 0.394 |
| .anxiety | 0.131 | 0.020 | 6.710 | 0.000 | 0.131 | 0.553 |
| Living Conditions ~~ |  |  |  |  |  |  |
| COVID19 related life concerns | -0.094 | 0.116 | -0.811 | 0.418 | -0.054 | -0.054 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| COVID19 related life concerns | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 1.667 | 0.364 | 4.574 | 0.000 | 1.667 | 0.354 |
| .Number people per household | 1.253 | 0.150 | 8.375 | 0.000 | 1.253 | 0.718 |
| .Living Area | 1.362 | 0.112 | 12.187 | 0.000 | 1.362 | 0.714 |
| .Garden\_yard | 0.134 | 0.012 | 11.147 | 0.000 | 0.134 | 0.634 |
| .Regular treatment physical illness | 0.089 | 0.009 | 9.835 | 0.000 | 0.089 | 0.680 |
| .Mental health status before COVID19 | 0.260 | 0.072 | 3.615 | 0.000 | 0.260 | 0.248 |
| .Physical health status before COVID19 | 0.607 | 0.051 | 12.012 | 0.000 | 0.607 | 0.617 |
| .Financial Impact due to COVID19 | 0.698 | 0.068 | 10.314 | 0.000 | 0.698 | 0.607 |
| .Concerns about life stability | 0.673 | 0.103 | 6.518 | 0.000 | 0.673 | 0.404 |
| .Restrictions perceived as stressful | 0.787 | 0.091 | 8.609 | 0.000 | 0.787 | 0.564 |
| .depression | 0.282 | 0.028 | 10.157 | 0.000 | 0.282 | 0.510 |
| .anxiety | 0.200 | 0.023 | 8.669 | 0.000 | 0.200 | 0.605 |
| .SPQ\_total | 0.724 | 0.059 | 12.251 | 0.000 | 0.724 | 0.711 |
| .Media | 0.208 | 0.008 | 26.634 | 0.000 | 0.208 | 0.878 |
| .Drug | 0.121 | 0.009 | 12.953 | 0.000 | 0.121 | 0.877 |
| .Alcohol | 4.586 | 0.161 | 28.528 | 0.000 | 4.586 | 0.926 |
| .Exercise | 1.238 | 0.077 | 16.139 | 0.000 | 1.238 | 0.933 |
| .Sleep during week | 0.352 | 0.026 | 13.710 | 0.000 | 0.352 | 0.876 |
| Living Conditions | 3.042 | 0.457 | 6.651 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.040 | 0.009 | 4.546 | 0.000 | 0.963 | 0.963 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.019 | 0.007 | 2.561 | 0.010 | 0.019 | 0.025 |
| indirect2 | 0.013 | 0.009 | 1.353 | 0.176 | 0.013 | 0.017 |
| indirect3 | 0.002 | 0.003 | 0.531 | 0.596 | 0.002 | 0.002 |
| indirect4 | 0.003 | 0.003 | 0.881 | 0.378 | 0.003 | 0.004 |
| indirect5 | 0.008 | 0.009 | 0.894 | 0.371 | 0.008 | 0.010 |
| indirect6 | 0.017 | 0.007 | 2.643 | 0.008 | 0.017 | 0.030 |
| indirect7 | 0.013 | 0.008 | 1.550 | 0.121 | 0.013 | 0.023 |
| indirect8 | -0.001 | 0.002 | -0.337 | 0.736 | -0.001 | -0.001 |
| indirect9 | -0.001 | 0.002 | -0.419 | 0.675 | -0.001 | -0.002 |
| indirect10 | 0.001 | 0.008 | 0.106 | 0.916 | 0.001 | 0.002 |
| indirect11 | 0.030 | 0.012 | 2.433 | 0.015 | 0.030 | 0.030 |
| indirect12 | 0.010 | 0.013 | 0.789 | 0.430 | 0.010 | 0.010 |
| indirect13 | -0.001 | 0.004 | -0.384 | 0.701 | -0.001 | -0.001 |
| indirect14 | -0.001 | 0.004 | -0.162 | 0.871 | -0.001 | -0.001 |
| indirect15 | 0.024 | 0.014 | 1.746 | 0.081 | 0.024 | 0.024 |
| total1 | 0.323 | 0.047 | 6.852 | 0.000 | 0.323 | 0.434 |
| total2 | 0.317 | 0.045 | 7.065 | 0.000 | 0.317 | 0.426 |
| total3 | 0.306 | 0.048 | 6.362 | 0.000 | 0.306 | 0.411 |
| total4 | 0.307 | 0.047 | 6.490 | 0.000 | 0.307 | 0.413 |
| total5 | 0.312 | 0.045 | 6.993 | 0.000 | 0.312 | 0.420 |
| total6 | 0.162 | 0.036 | 4.459 | 0.000 | 0.162 | 0.282 |
| total7 | 0.157 | 0.036 | 4.386 | 0.000 | 0.157 | 0.274 |
| total8 | 0.144 | 0.036 | 3.975 | 0.000 | 0.144 | 0.251 |
| total9 | 0.143 | 0.036 | 3.975 | 0.000 | 0.143 | 0.250 |
| total10 | 0.145 | 0.033 | 4.351 | 0.000 | 0.145 | 0.253 |
| total11 | 0.120 | 0.059 | 2.050 | 0.040 | 0.120 | 0.119 |
| total12 | 0.101 | 0.057 | 1.767 | 0.077 | 0.101 | 0.100 |
| total13 | 0.089 | 0.060 | 1.488 | 0.137 | 0.089 | 0.088 |
| total14 | 0.089 | 0.059 | 1.503 | 0.133 | 0.089 | 0.089 |
| total15 | 0.114 | 0.056 | 2.036 | 0.042 | 0.114 | 0.113 |
|  |  |  |  |  |  |  |

### Fourth timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1h. Complete outcome of structural equation with COVID-19 related life concerns from fourth survey timepoint.** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
|  | Used | Total |  |  |  |  |
| Number of observations | 452 | 478 |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
| Test statistic | 413528 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2315.281 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.867 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.778 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -9247.599 |  |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -9040.835 |  |  |  |  |  |
| Akaike (AIC) | 18711.199 |  |  |  |  |  |
| Bayesian (BIC) | 19155.476 |  |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 18812.723 |  |  |  |  |  |
| **Root Mean Square Error of Approximation:** |  |  |  |  |  |  |
| RMSEA | 0.068 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.060 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.075 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** |  |  |  |  |  |  |
| SRMR | 0.058 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **Living Conditions** =~ |  |  |  |  |  |  |
| Number\_rooms | 1.000 |  |  |  | 1.773 | 0.846 |
| Number people per household | 0.399 | 0.034 | 11.721 | 0.000 | 0.707 | 0.605 |
| Living Area | 0.346 | 0.051 | 6.763 | 0.000 | 0.613 | 0.456 |
| Garden\_yard | 0.164 | 0.019 | 8.692 | 0.000 | 0.291 | 0.616 |
| **Health before COVID19** =~ | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.145 | 0.434 |
| Mental health status before COVID19 | -5.618 | 1.279 | -4.392 | 0.000 | -0.816 | -0.813 |
| Physical health status before COVID19 | -3.995 | 0.877 | -4.553 | 0.000 | -0.580 | -0.633 |
| **COVID19 related life concerns** =~ | |  |  |  |  |  |
| Financial impact due to COVID19 | 0.577 | 0.072 | 7.957 | 0.000 | 0.577 | 0.583 |
| Concerns about life stability | 0.893 | 0.062 | 14.522 | 0.000 | 0.893 | 0.759 |
| Restrictions perceived as stressful | 0.740 | 0.066 | 11.254 | 0.000 | 0.740 | 0.601 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression** ~ | |  |  |  |  |  |
| Health before COVID19 | -2.027 | 0.461 | -4.401 | 0.000 | -0.294 | -0.394 |
| Country (residence) | -0.052 | 0.082 | -0.637 | 0.524 | -0.052 | -0.029 |
| Age | -0.004 | 0.002 | -2.154 | 0.031 | -0.004 | -0.082 |
| Gender | 0.004 | 0.075 | 0.058 | 0.954 | 0.004 | 0.002 |
| Highest education | -0.052 | 0.024 | -2.186 | 0.029 | -0.052 | -0.095 |
| Living Conditions | -0.010 | 0.020 | -0.476 | 0.634 | -0.017 | -0.023 |
| **anxiety** ~ |  |  |  |  |  |  |
| Health before COVID19 | -1.550 | 0.328 | -4.720 | 0.000 | -0.225 | -0.416 |
| Country (residence) | -0.154 | 0.064 | -2.429 | 0.015 | -0.154 | -0.117 |
| Age | -0.006 | 0.001 | -4.535 | 0.000 | -0.006 | -0.175 |
| Gender | 0.009 | 0.059 | 0.154 | 0.878 | 0.009 | 0.007 |
| Highest education | -0.056 | 0.017 | -3.247 | 0.001 | -0.056 | -0.143 |
| Living Conditions | -0.011 | 0.015 | -0.697 | 0.486 | -0.019 | -0.035 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| Health before COVID19 | -2.660 | 0.643 | -4.134 | 0.000 | -0.386 | -0.398 |
| Country (residence) | -0.058 | 0.130 | -0.445 | 0.656 | -0.058 | -0.024 |
| Age | -0.007 | 0.003 | -2.659 | 0.008 | -0.007 | -0.109 |
| Gender | -0.202 | 0.104 | -1.949 | 0.051 | -0.202 | -0.089 |
| Highest education | -0.123 | 0.033 | -3.766 | 0.000 | -0.123 | -0.174 |
| Living Conditions | -0.044 | 0.027 | -1.642 | 0.101 | -0.078 | -0.081 |
| **Media** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.334 | 0.187 | -1.790 | 0.074 | -0.048 | -0.105 |
| Country (residence) | -0.053 | 0.052 | -1.026 | 0.305 | -0.053 | -0.048 |
| Age | -0.001 | 0.002 | -0.469 | 0.639 | -0.001 | -0.023 |
| Gender | -0.171 | 0.052 | -3.291 | 0.001 | -0.171 | -0.159 |
| Highest education | -0.039 | 0.016 | -2.447 | 0.014 | -0.039 | -0.115 |
| Living Conditions | -0.021 | 0.014 | -1.423 | 0.155 | -0.036 | -0.079 |
| **Drugs** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.590 | 0.153 | -3.865 | 0.000 | -0.086 | -0.228 |
| Country (residence) | -0.003 | 0.044 | -0.067 | 0.947 | -0.003 | -0.003 |
| Age | 0.001 | 0.001 | 1.162 | 0.245 | 0.001 | 0.050 |
| Gender | 0.015 | 0.042 | 0.370 | 0.712 | 0.015 | 0.018 |
| Highest education | -0.038 | 0.014 | -2.664 | 0.008 | -0.038 | -0.139 |
| Living Conditions | -0.023 | 0.011 | -2.130 | 0.033 | -0.040 | -0.107 |
| **Alcohol** ~ | |  |  |  |  |  |
| Health before COVID19 | 2.950 | 1.115 | 2.647 | 0.008 | 0.428 | 0.189 |
| Country (residence) | 0.050 | 0.251 | 0.198 | 0.843 | 0.050 | 0.009 |
| Age | 0.027 | 0.007 | 3.697 | 0.000 | 0.027 | 0.174 |
| Gender | -0.381 | 0.254 | -1.497 | 0.135 | -0.381 | -0.072 |
| Highest education | 0.258 | 0.082 | 3.151 | 0.002 | 0.258 | 0.157 |
| Living Conditions | 0.092 | 0.063 | 1.457 | 0.145 | 0.162 | 0.072 |
| **Exercise** ~ | |  |  |  |  |  |
| Health before COVID19 | 0.210 | 0.487 | 0.430 | 0.667 | 0.030 | 0.027 |
| Country (residence) | -0.062 | 0.144 | -0.431 | 0.666 | -0.062 | -0.023 |
| Age | 0.001 | 0.004 | 0.318 | 0.751 | 0.001 | 0.017 |
| Gender | -0.049 | 0.131 | -0.375 | 0.707 | -0.049 | -0.019 |
| Highest education | 0.138 | 0.036 | 3.783 | 0.000 | 0.138 | 0.171 |
| Living Conditions | 0.024 | 0.041 | 0.591 | 0.554 | 0.043 | 0.039 |
| **Sleep during week** ~ | |  |  |  |  |  |
| Health before COVID19 | 0.310 | 0.165 | 1.884 | 0.059 | 0.045 | 0.113 |
| Country (residence) | 0.034 | 0.049 | 0.689 | 0.491 | 0.034 | 0.035 |
| Age | 0.000 | 0.001 | 0.069 | 0.945 | 0.000 | 0.003 |
| Gender | 0.045 | 0.047 | 0.950 | 0.342 | 0.045 | 0.048 |
| Highest education | 0.037 | 0.015 | 2.524 | 0.012 | 0.037 | 0.128 |
| Living Conditions | 0.002 | 0.012 | 0.150 | 0.881 | 0.003 | 0.008 |
| **Health before COVI19** ~ | |  |  |  |  |  |
| Country (residence) | 0.044 | 0.021 | 2.097 | 0.036 | 0.305 | 0.126 |
| Age | 0.001 | 0.001 | 1.730 | 0.084 | 0.007 | 0.099 |
| Gender | 0.008 | 0.019 | 0.457 | 0.648 | 0.058 | 0.025 |
| Highest education | -0.008 | 0.006 | -1.333 | 0.182 | -0.055 | -0.075 |
| Living Conditions | -0.003 | 0.006 | -0.521 | 0.602 | -0.035 | -0.035 |
| **depression** ~ | |  |  |  |  |  |
| COVID19 related life concerns (c1) | 0.351 | 0.050 | 7.084 | 0.000 | 0.351 | 0.470 |
| **anxiet**y ~ |  |  |  |  |  |  |
| COVID19 related life concerns (c2) | 0.198 | 0.035 | 5.634 | 0.000 | 0.198 | 0.366 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| COVID19 related life concerns (c3) | 0.202 | 0.059 | 3.439 | 0.001 | 0.202 | 0.208 |
| **Media** ~ | |  |  |  |  |  |
| COVID19 related life concerns (a1) | 0.037 | 0.029 | 1.292 | 0.196 | 0.037 | 0.081 |
| **Drugs** ~ | |  |  |  |  |  |
| COVID19 related life concerns (a2) | 0.064 | 0.027 | 2.365 | 0.018 | 0.064 | 0.170 |
| **Alcohol** ~ | |  |  |  |  |  |
| COVID19 related life concerns (a3) | 0.331 | 0.139 | 2.387 | 0.017 | 0.331 | 0.146 |
| **Exercise** ~ | |  |  |  |  |  |
| COVID19 related life concerns (a4) | -0.095 | 0.060 | -1.579 | 0.114 | -0.095 | -0.086 |
| **Sleep during week** ~ | |  |  |  |  |  |
| COVID19 related life concerns (a5) | -0.086 | 0.028 | -3.036 | 0.002 | -0.086 | -0.214 |
| **depression** ~ | |  |  |  |  |  |
| Media (b1) | 0.106 | 0.072 | 1.479 | 0.139 | 0.106 | 0.066 |
| Drugs (b2) | 0.118 | 0.106 | 1.114 | 0.265 | 0.118 | 0.059 |
| Alcohol (b3) | 0.005 | 0.015 | 0.361 | 0.718 | 0.005 | 0.016 |
| Exercise (b4) | 0.006 | 0.029 | 0.212 | 0.832 | 0.006 | 0.009 |
| Sleep during week(b5) | -0.095 | 0.087 | -1.086 | 0.278 | -0.095 | -0.051 |
| **anxiety** ~ |  |  |  |  |  |  |
| Media (b6) | 0.116 | 0.050 | 2.304 | 0.021 | 0.116 | 0.099 |
| Drug (b7) | -0.005 | 0.079 | -0.069 | 0.945 | -0.005 | -0.004 |
| Alcohol (b8) | -0.003 | 0.011 | -0.250 | 0.802 | -0.003 | -0.011 |
| Exercise (b9) | 0.057 | 0.023 | 2.444 | 0.015 | 0.057 | 0.117 |
| Sleep during week (b10) | -0.017 | 0.067 | -0.261 | 0.794 | -0.017 | -0.013 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| Media (b11) | 0.023 | 0.092 | 0.255 | 0.799 | 0.023 | 0.011 |
| Drug (b12) | 0.149 | 0.137 | 1.088 | 0.277 | 0.149 | 0.058 |
| Alcohol (b13) | -0.030 | 0.020 | -1.489 | 0.136 | -0.030 | -0.070 |
| Exercise (b14) | 0.035 | 0.043 | 0.805 | 0.421 | 0.035 | 0.040 |
| Sleep during week (b15) | -0.015 | 0.123 | -0.119 | 0.906 | -0.015 | -0.006 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.168 | 0.027 | 6.150 | 0.000 | 0.168 | 0.505 |
| .depression ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.147 | 0.031 | 4.803 | 0.000 | 0.147 | 0.330 |
| .anxiety | 0.107 | 0.020 | 5.278 | 0.000 | 0.107 | 0.473 |
| Living conditions ~~ |  |  |  |  |  |  |
| COVID19 related life concerns | -0.265 | 0.115 | -2.316 | 0.021 | -0.150 | -0.150 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| COVID19 related life concerns | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 1.247 | 0.319 | 3.911 | 0.000 | 1.247 | 0.284 |
| .Number people per household | 0.865 | 0.061 | 14.072 | 0.000 | 0.865 | 0.634 |
| .Living Area | 1.427 | 0.102 | 13.939 | 0.000 | 1.427 | 0.792 |
| .Garden\_yard | 0.139 | 0.012 | 12.040 | 0.000 | 0.139 | 0.621 |
| .Regular treatment physical illness | 0.091 | 0.010 | 9.293 | 0.000 | 0.091 | 0.811 |
| .Mental health status before COVID19 | 0.341 | 0.086 | 3.966 | 0.000 | 0.341 | 0.339 |
| .Physical health status before COVID19 | 0.502 | 0.053 | 9.530 | 0.000 | 0.502 | 0.599 |
| .Financial Impact due to COVID19 | 0.645 | 0.071 | 9.032 | 0.000 | 0.645 | 0.660 |
| .Concerns about life stability | 0.586 | 0.088 | 6.691 | 0.000 | 0.586 | 0.424 |
| .Restrictions perceived as stressful | 0.968 | 0.091 | 10.643 | 0.000 | 0.968 | 0.639 |
| .depression | 0.303 | 0.032 | 9.540 | 0.000 | 0.303 | 0.542 |
| .anxiety | 0.168 | 0.020 | 8.198 | 0.000 | 0.168 | 0.572 |
| .SPQ\_total | 0.657 | 0.059 | 11.038 | 0.000 | 0.657 | 0.698 |
| .Media | 0.200 | 0.010 | 20.910 | 0.000 | 0.200 | 0.936 |
| .Drug | 0.126 | 0.010 | 12.212 | 0.000 | 0.126 | 0.890 |
| .Alcohol | 4.492 | 0.201 | 22.352 | 0.000 | 4.492 | 0.874 |
| .Exercise | 1.183 | 0.079 | 14.905 | 0.000 | 1.183 | 0.959 |
| .Sleep during week | 0.148 | 0.012 | 12.820 | 0.000 | 0.148 | 0.924 |
| Living Conditions | 3.143 | 0.402 | 7.825 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.020 | 0.007 | 2.853 | 0.004 | 0.965 | 0.965 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.004 | 0.004 | 0.950 | 0.342 | 0.004 | 0.005 |
| indirect2 | 0.008 | 0.008 | 0.988 | 0.323 | 0.008 | 0.010 |
| indirect3 | 0.002 | 0.005 | 0.339 | 0.735 | 0.002 | 0.002 |
| indirect4 | -0.001 | 0.004 | -0.169 | 0.866 | -0.001 | -0.001 |
| indirect5 | 0.008 | 0.008 | 1.031 | 0.303 | 0.008 | 0.011 |
| indirect6 | 0.004 | 0.004 | 1.111 | 0.266 | 0.004 | 0.008 |
| indirect7 | -0.000 | 0.006 | -0.062 | 0.951 | -0.000 | -0.001 |
| indirect8 | -0.001 | 0.004 | -0.230 | 0.818 | -0.001 | -0.002 |
| indirect9 | -0.005 | 0.005 | -1.174 | 0.240 | -0.005 | -0.010 |
| indirect10 | 0.001 | 0.006 | 0.246 | 0.805 | 0.001 | 0.003 |
| indirect11 | 0.001 | 0.004 | 0.204 | 0.839 | 0.001 | 0.001 |
| indirect12 | 0.010 | 0.010 | 0.967 | 0.334 | 0.010 | 0.010 |
| indirect13 | -0.010 | 0.008 | -1.210 | 0.226 | -0.010 | -0.010 |
| indirect14 | -0.003 | 0.005 | -0.627 | 0.531 | -0.003 | -0.003 |
| indirect15 | 0.001 | 0.011 | 0.115 | 0.909 | 0.001 | 0.001 |
| total1 | 0.355 | 0.050 | 7.120 | 0.000 | 0.355 | 0.475 |
| total2 | 0.359 | 0.049 | 7.276 | 0.000 | 0.359 | 0.480 |
| total3 | 0.353 | 0.048 | 7.290 | 0.000 | 0.353 | 0.472 |
| total4 | 0.351 | 0.049 | 7.150 | 0.000 | 0.351 | 0.469 |
| total5 | 0.359 | 0.047 | 7.589 | 0.000 | 0.359 | 0.481 |
| total6 | 0.203 | 0.036 | 5.665 | 0.000 | 0.203 | 0.374 |
| total7 | 0.198 | 0.034 | 5.759 | 0.000 | 0.198 | 0.366 |
| total8 | 0.198 | 0.035 | 5.716 | 0.000 | 0.198 | 0.365 |
| total9 | 0.193 | 0.035 | 5.537 | 0.000 | 0.193 | 0.356 |
| total10 | 0.200 | 0.033 | 5.989 | 0.000 | 0.200 | 0.369 |
| total11 | 0.203 | 0.059 | 3.453 | 0.001 | 0.203 | 0.209 |
| total12 | 0.211 | 0.058 | 3.655 | 0.000 | 0.211 | 0.218 |
| total13 | 0.192 | 0.058 | 3.301 | 0.001 | 0.192 | 0.198 |
| total14 | 0.198 | 0.058 | 3.412 | 0.001 | 0.198 | 0.205 |
| total15 | 0.203 | 0.056 | 3.611 | 0.000 | 0.203 | 0.209 |
|  |  |  |  |  |  |  |

## ‘Social adversity’ Model – first to forth timepoint

### Social adversity Model – first timepoint

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1i. Complete outcome of structural equation with Social adversity as predictor from the first survey timepoint** | | | | | | | | | | | | | | | | | | |
| **Estimator** | **ML** | |  | | |  | | |  | | |  | | |  | | |
| Optimization method | NLMINB | |  | | |  | | |  | | |  | | |  | | |
| Number of free parameters | 108 | |  | | |  | | |  | | |  | | |  | | |
| Number of observations | 480 | |  | | |  | | |  | | |  | | |  | | |
| **Model Test User Model:** |  | |  | | |  | | |  | | |  | | |  | | |
| Test statistic | 492.394 | |  | | |  | | |  | | |  | | |  | | |
| Degrees of freedom | 135 | |  | | |  | | |  | | |  | | |  | | |
| P-value (Chi-square) | 0.000 | |  | | |  | | |  | | |  | | |  | | |
| **Model Test Baseline Model:** |  | |  | | |  | | |  | | |  | | |  | | |
| Test statistic | 2.653.514 | |  | | |  | | |  | | |  | | |  | | |
| Degrees of freedom | 225 | |  | | |  | | |  | | |  | | |  | | |
| P-value | 0.000 | |  | | |  | | |  | | |  | | |  | | |
| **User Model versus Baseline Model:** |  | |  | | |  | | |  | | |  | | |  | | |
| Comparative Fit Index (CFI) | 0.853 | |  | | |  | | |  | | |  | | |  | | |
| Tucker-Lewis Index (TLI) | 0.755 | |  | | |  | | |  | | |  | | |  | | |
| **Loglikelihood and Information Criteria:** |  | |  | | |  | | |  | | |  | | |  | | |
| Loglikelihood user model (H0) | -10089.290 | |  | | |  | | |  | | |  | | |  | | |
| Loglikelihood unrestricted model (H1) | -9843.093 | |  | | |  | | |  | | |  | | |  | | |
| Akaike (AIC) | 20394.580 | |  | | |  | | |  | | |  | | |  | | |
| Bayesian (BIC) | 20845.349 | |  | | |  | | |  | | |  | | |  | | |
| Sample-size adjusted Bayesian (BIC) | 20502.568 | |  | | |  | | |  | | |  | | |  | | |
| **Root Mean Square Error of Approximation:** |  | |  | | |  | | |  | | |  | | |  | | |
| RMSEA | 0.074 | |  | | |  | | |  | | |  | | |  | | |
| 90 Percent confidence interval - lower | 0.067 | |  | | |  | | |  | | |  | | |  | | |
| 90 Percent confidence interval - upper | 0.081 | |  | | |  | | |  | | |  | | |  | | |
| P-value RMSEA <= 0.05 | 0.000 | |  | | |  | | |  | | |  | | |  | | |
| **Standardized Root Mean Square Residual:** |  | |  | | |  | | |  | | |  | | |  | | |
| SRMR | 0.082 | |  | | |  | | |  | | |  | | |  | | |
| **Parameter Estimates:** |  | |  | | |  | | |  | | |  | | |  | | |
| Standard errors | Bootstrap | |  | | |  | | |  | | |  | | |  | | |
| Number of requested bootstrap draws | 1000 | |  | | |  | | |  | | |  | | |  | | |
| Number of successful bootstrap draws | 1000 | |  | | |  | | |  | | |  | | |  | | |
| **Latent Variables:** |  | |  | | |  | | |  | | |  | | |  | | |
|  | Estimate | | Std. err. | | | z-value | | | P(>|z|) | | | Std.lv | | | Std.all | | |
| **Living Conditions =~** |  | |  | | |  | | |  | | |  | | |  | | |
| Number\_rooms | 1.000 | |  | | |  | | |  | | | 2.182 | | | 0.783 | | |
| Number people per household | 0.236 | | 0.023 | | | 10.085 | | | 0.000 | | | 0.516 | | | 0.649 | | |
| Living Area | 0.323 | | 0.030 | | | 10.671 | | | 0.000 | | | 0.704 | | | 0.521 | | |
| Garden\_yard | 0.134 | | 0.014 | | | 9.268 | | | 0.000 | | | 0.293 | | | 0.635 | | |
| **Health before COVID19 =~** | | | |  | | | |  | | |  | | |  | | |  | | | |
| Regular treatment physical illness | 1.000 | |  | | |  | | |  | | | 0.155 | | | 0.457 | | |
| Mental health status before COVID19 | 5.886 | | 1.056 | | | 5.574 | | | 0.000 | | | 0.915 | | | 0.830 | | |
| Physical health status before COVID19 | 3.673 | | 0.695 | | | 5.286 | | | 0.000 | | | 0.571 | | | 0.578 | | |
| **Social adversity =~** | |  | | |  | |  | | |  | | |  | | |  | | | |
| Lonely during COVID19 | 0.860 | | 0.061 | | | 14.086 | | | 0.000 | | | 0.860 | | | 0.678 | | |
| Negative Thoughts during COVID19 | 0.813 | | 0.046 | | | 17.639 | | | 0.000 | | | 0.813 | | | 0.754 | | |
| Stressful social relationship changes | 0.765 | | 0.061 | | | 12.575 | | | 0.000 | | | 0.765 | | | 0.566 | | |
|  | |  | | |  | |  | | |  | | |  | | |  | | | |
| **Regressions:** |  | |  | | |  | | |  | | |  | | |  | | |
|  | Estimate | | Std.Err | | | z-value | | | P(>|z|) | | | Std.lv | | | Std.all | | |
| **depression** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | 1.580 | | 0.297 | | | 5.315 | | | 0.000 | | | 0.246 | | | 0.368 | | |
| Country (residence) | -0.304 | | 0.057 | | | -5.366 | | | 0.000 | | | -0.304 | | | -0.205 | | |
| Age | 0.020 | | 0.023 | | | 0.887 | | | 0.375 | | | 0.020 | | | 0.030 | | |
| Gender | 0.063 | | 0.048 | | | 1.298 | | | 0.194 | | | 0.063 | | | 0.041 | | |
| Highest education | -0.051 | | 0.018 | | | -2.777 | | | 0.005 | | | -0.051 | | | -0.091 | | |
| Living Conditions | 0.023 | | 0.013 | | | 1.687 | | | 0.092 | | | 0.049 | | | 0.074 | | |
| **anxiety** ~ |  | |  | | |  | | |  | | |  | | |  | | |
| Health before COVID19 | 1.198 | | 0.252 | | | 4.753 | | | 0.000 | | | 0.186 | | | 0.336 | | |
| Country (residence) | -0.260 | | 0.059 | | | -4.417 | | | 0.000 | | | -0.260 | | | -0.211 | | |
| Age | -0.045 | | 0.021 | | | -2.089 | | | 0.037 | | | -0.045 | | | -0.081 | | |
| Gender | 0.024 | | 0.044 | | | 0.537 | | | 0.591 | | | 0.024 | | | 0.019 | | |
| Highest education | -0.005 | | 0.019 | | | -0.269 | | | 0.788 | | | -0.005 | | | -0.011 | | |
| Living Conditions | 0.017 | | 0.014 | | | 1.159 | | | 0.246 | | | 0.036 | | | 0.065 | | |
| **SPQ\_total** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | 2.472 | | 0.506 | | | 4.889 | | | 0.000 | | | 0.384 | | | 0.403 | | |
| Country (residence) | 0.012 | | 0.109 | | | 0.112 | | | 0.911 | | | 0.012 | | | 0.006 | | |
| Age | -0.070 | | 0.047 | | | -1.503 | | | 0.133 | | | -0.070 | | | -0.074 | | |
| Gender | -0.149 | | 0.090 | | | -1.658 | | | 0.097 | | | -0.149 | | | -0.069 | | |
| Highest education | -0.069 | | 0.039 | | | -1.774 | | | 0.076 | | | -0.069 | | | -0.087 | | |
| Living Conditions | -0.014 | | 0.025 | | | -0.545 | | | 0.585 | | | -0.030 | | | -0.031 | | |
| **Media** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | 0.043 | | 0.196 | | | 0.219 | | | 0.827 | | | 0.007 | | | 0.014 | | |
| Country (residence) | -0.171 | | 0.050 | | | -3.389 | | | 0.001 | | | -0.171 | | | -0.166 | | |
| Age | -0.065 | | 0.021 | | | -3.028 | | | 0.002 | | | -0.065 | | | -0.139 | | |
| Gender | -0.001 | | 0.046 | | | -0.015 | | | 0.988 | | | -0.001 | | | -0.001 | | |
| Highest education | -0.049 | | 0.017 | | | -2.872 | | | 0.004 | | | -0.049 | | | -0.127 | | |
| Living Conditions | -0.019 | | 0.012 | | | -1.558 | | | 0.119 | | | -0.041 | | | -0.088 | | |
| **Drugs** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | 0.454 | | 0.153 | | | 2.958 | | | 0.003 | | | 0.071 | | | 0.213 | | |
| Country (residence) | 0.010 | | 0.036 | | | 0.287 | | | 0.774 | | | 0.010 | | | 0.014 | | |
| Age | 0.032 | | 0.016 | | | 2.029 | | | 0.042 | | | 0.032 | | | 0.095 | | |
| Gender | -0.003 | | 0.033 | | | -0.088 | | | 0.930 | | | -0.003 | | | -0.004 | | |
| Highest education | -0.008 | | 0.013 | | | -0.644 | | | 0.519 | | | -0.008 | | | -0.029 | | |
| Living Conditions | -0.002 | | 0.008 | | | -0.238 | | | 0.812 | | | -0.004 | | | -0.012 | | |
| **Alcohol** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | -2.456 | | 0.953 | | | -2.578 | | | 0.010 | | | -0.382 | | | -0.167 | | |
| Country (residence) | -0.512 | | 0.229 | | | -2.238 | | | 0.025 | | | -0.512 | | | -0.101 | | |
| Age | 0.507 | | 0.102 | | | 4.991 | | | 0.000 | | | 0.507 | | | 0.221 | | |
| Gender | -0.470 | | 0.229 | | | -2.047 | | | 0.041 | | | -0.470 | | | -0.091 | | |
| Highest education | 0.038 | | 0.088 | | | 0.432 | | | 0.666 | | | 0.038 | | | 0.020 | | |
| Living Conditions | 0.068 | | 0.056 | | | 1.200 | | | 0.230 | | | 0.148 | | | 0.065 | | |
| **Exercise** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | -1.301 | | 0.571 | | | -2.277 | | | 0.023 | | | -0.202 | | | -0.162 | | |
| Country (residence) | -0.523 | | 0.138 | | | -3.793 | | | 0.000 | | | -0.523 | | | -0.189 | | |
| Age | 0.175 | | 0.059 | | | 2.988 | | | 0.003 | | | 0.175 | | | 0.140 | | |
| Gender | -0.063 | | 0.129 | | | -0.490 | | | 0.624 | | | -0.063 | | | -0.022 | | |
| Highest education | 0.035 | | 0.046 | | | 0.774 | | | 0.439 | | | 0.035 | | | 0.034 | | |
| Living Conditions | -0.006 | | 0.030 | | | -0.191 | | | 0.849 | | | -0.013 | | | -0.010 | | |
| **Sleep during week** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Health before COVID19 | 0.153 | | 0.254 | | | 0.600 | | | 0.548 | | | 0.024 | | | 0.037 | | |
| Country (residence) | -0.089 | | 0.070 | | | -1.283 | | | 0.199 | | | -0.089 | | | -0.063 | | |
| Age | -0.093 | | 0.031 | | | -3.025 | | | 0.002 | | | -0.093 | | | -0.144 | | |
| Gender | 0.094 | | 0.060 | | | 1.550 | | | 0.121 | | | 0.094 | | | 0.065 | | |
| Highest education | -0.036 | | 0.024 | | | -1.508 | | | 0.132 | | | -0.036 | | | -0.068 | | |
| Living Conditions | -0.023 | | 0.015 | | | -1.513 | | | 0.130 | | | -0.051 | | | -0.080 | | |
| **Health before COVI19** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Country (residence) | -0.058 | | 0.021 | | | -2.732 | | | 0.006 | | | -0.374 | | | -0.169 | | |
| Age | -0.024 | | 0.010 | | | -2.485 | | | 0.013 | | | -0.154 | | | -0.154 | | |
| Gender | 0.043 | | 0.020 | | | 2.161 | | | 0.031 | | | 0.275 | | | 0.122 | | |
| Highest education | -0.019 | | 0.008 | | | -2.500 | | | 0.012 | | | -0.124 | | | -0.148 | | |
| Living Conditions | -0.008 | | 0.005 | | | -1.453 | | | 0.146 | | | -0.110 | | | -0.110 | | |
| **depression** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (c1) | 0.474 | | 0.035 | | | 13.362 | | | 0.000 | | | 0.474 | | | 0.710 | | |
| **anxiet**y ~ |  | |  | | |  | | |  | | |  | | |  | | |
| Social adversity (c2) | 0.253 | | 0.033 | | | 7.582 | | | 0.000 | | | 0.253 | | | 0.456 | | |
| **SPQ\_total** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (c3) | 0.118 | | 0.058 | | | 2.021 | | | 0.043 | | | 0.118 | | | 0.123 | | |
| **Media** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (a1) | 0.050 | | 0.027 | | | 1.866 | | | 0.062 | | | 0.050 | | | 0.108 | | |
| **Drugs** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (a2) | 0.065 | | 0.020 | | | 3.223 | | | 0.001 | | | 0.065 | | | 0.196 | | |
| **Alcohol** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (a3) | 0.497 | | 0.127 | | | 3.905 | | | 0.000 | | | 0.497 | | | 0.218 | | |
| **Exercise** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (a4) | 0.029 | | 0.078 | | | 0.366 | | | 0.715 | | | 0.029 | | | 0.023 | | |
| **Sleep during week** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Social adversity (a5) | -0.158 | | 0.038 | | | -4.196 | | | 0.000 | | | -0.158 | | | -0.246 | | |
| **depression** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Media (b1) | 0.040 | | 0.050 | | | 0.789 | | | 0.430 | | | 0.040 | | | 0.028 | | |
| Drugs (b2) | -0.031 | | 0.083 | | | -0.375 | | | 0.708 | | | -0.031 | | | -0.015 | | |
| Alcohol (b3) | 0.005 | | 0.011 | | | 0.436 | | | 0.663 | | | 0.005 | | | 0.016 | | |
| Exercise (b4) | -0.029 | | 0.018 | | | -1.586 | | | 0.113 | | | -0.029 | | | -0.055 | | |
| Sleep during week(b5) | -0.034 | | 0.038 | | | -0.894 | | | 0.371 | | | -0.034 | | | -0.033 | | |
| **anxiety** ~ |  | |  | | |  | | |  | | |  | | |  | | |
| Media (b6) | 0.063 | | 0.052 | | | 1.211 | | | 0.226 | | | 0.063 | | | 0.053 | | |
| Drug (b7) | -0.009 | | 0.085 | | | -0.106 | | | 0.915 | | | -0.009 | | | -0.005 | | |
| Alcohol (b8) | -0.007 | | 0.010 | | | -0.694 | | | 0.487 | | | -0.007 | | | -0.030 | | |
| Exercise (b9) | 0.001 | | 0.020 | | | 0.061 | | | 0.951 | | | 0.001 | | | 0.003 | | |
| Sleep during week (b10) | -0.024 | | 0.038 | | | -0.637 | | | 0.524 | | | -0.024 | | | -0.028 | | |
| **SPQ\_total** ~ | | | |  | | | |  | | |  | | |  | | |  | | | |
| Media (b11) | 0.213 | | 0.093 | | | 2.294 | | | 0.022 | | | 0.213 | | | 0.104 | | |
| Drug (b12) | 0.133 | | 0.142 | | | 0.931 | | | 0.352 | | | 0.133 | | | 0.046 | | |
| Alcohol (b13) | 0.002 | | 0.020 | | | 0.125 | | | 0.901 | | | 0.002 | | | 0.006 | | |
| Exercise (b14) | -0.044 | | 0.034 | | | -1.277 | | | 0.202 | | | -0.044 | | | -0.058 | | |
| Sleep during week (b15) | -0.085 | | 0.069 | | | -1.235 | | | 0.217 | | | -0.085 | | | -0.057 | | |
|  | |  | | |  | |  | | |  | | |  | | |  | | | |
| **Covariances:** |  | |  | | |  | | |  | | |  | | |  | | |
|  | Estimate | | Std.Err | | | z-value | | | P(>|z|) | | | Std.lv | | | Std.all | | |
| .anxiety ~~ |  | |  | | |  | | |  | | |  | | |  | | |
| .SPQ\_total | 0.125 | | 0.023 | | | 5.436 | | | 0.000 | | | 0.125 | | | 0.366 | | |
| .depression ~~ |  | |  | | |  | | |  | | |  | | |  | | |
| .SPQ\_total | 0.034 | | 0.021 | | | 1.592 | | | 0.111 | | | 0.034 | | | 0.121 | | |
| .anxiety | 0.036 | | 0.012 | | | 3.070 | | | 0.002 | | | 0.036 | | | 0.254 | | |
| Living conditions~~ |  | |  | | |  | | |  | | |  | | |  | | |
| Social adversity | -0.355 | | 0.146 | | | -2.427 | | | 0.015 | | | -0.162 | | | -0.162 | | |
|  |  | |  | | |  | | |  | | |  | | |  | | |
| **Variances:** |  | |  | | |  | | |  | | |  | | |  | | |
|  | Estimate | | Std.Err | | | z-value | | | P(>|z|) | | | Std.lv | | | Std.all | | |
| Social adversity | 1.000 | |  | | |  | | |  | | | 1.000 | | | 1.000 | | |
| .Number rooms | 3.014 | | 0.473 | | | 6.376 | | | 0.000 | | | 3.014 | | | 0.388 | | |
| .Number people per household | 0.365 | | 0.028 | | | 13.020 | | | 0.000 | | | 0.365 | | | 0.579 | | |
| .Living Area | 1.330 | | 0.097 | | | 13.752 | | | 0.000 | | | 1.330 | | | 0.728 | | |
| .Garden\_yard | 0.127 | | 0.010 | | | 12.671 | | | 0.000 | | | 0.127 | | | 0.596 | | |
| .Regular treatment physical illness | 0.092 | | 0.009 | | | 10.016 | | | 0.000 | | | 0.092 | | | 0.792 | | |
| .Mental health status before COVID19 | 0.378 | | 0.103 | | | 3.657 | | | 0.000 | | | 0.378 | | | 0.311 | | |
| .Physical health status before COVID19 | 0.651 | | 0.053 | | | 12.182 | | | 0.000 | | | 0.651 | | | 0.666 | | |
| .Lonely during COVID19 | 0.871 | | 0.076 | | | 11.395 | | | 0.000 | | | 0.871 | | | 0.541 | | |
| .Negative Thoughts during COVID19 | 0.502 | | 0.057 | | | 8.801 | | | 0.000 | | | 0.502 | | | 0.432 | | |
| .stressful social relationships changes | 1.242 | | 0.090 | | | 13.764 | | | 0.000 | | | 1.242 | | | 0.680 | | |
| .depression | 0.118 | | 0.015 | | | 7.746 | | | 0.000 | | | 0.118 | | | 0.264 | | |
| .anxiety | 0.173 | | 0.018 | | | 9.867 | | | 0.000 | | | 0.173 | | | 0.566 | | |
| .SPQ\_total | 0.667 | | 0.060 | | | 11.204 | | | 0.000 | | | 0.667 | | | 0.733 | | |
| .Media | 0.194 | | 0.010 | | | 20.310 | | | 0.000 | | | 0.194 | | | 0.903 | | |
| .Drug | 0.099 | | 0.010 | | | 10.313 | | | 0.000 | | | 0.099 | | | 0.911 | | |
| .Alcohol | 4.405 | | 0.205 | | | 21.526 | | | 0.000 | | | 4.405 | | | 0.846 | | |
| .Exercise | 1.441 | | 0.074 | | | 19.587 | | | 0.000 | | | 1.441 | | | 0.924 | | |
| .Sleep during week | 0.367 | | 0.026 | | | 14.023 | | | 0.000 | | | 0.367 | | | 0.894 | | |
| Living Conditons | 4.763 | | 0.578 | | | 8.235 | | | 0.000 | | | 1.000 | | | 1.000 | | |
| .health before COVID19 | 0.021 | | 0.006 | | | 3.460 | | | 0.001 | | | 0.885 | | | 0.885 | | |
|  |  | |  | | |  | | |  | | |  | | |  | | |
| **Defined Parameters:** |  | |  | | |  | | |  | | |  | | |  | | |
|  | Estimate | | Std.Err | | | z-value | | | P(>|z|) | | | Std.lv | | | Std.all | | |
| indirect1 | 0.002 | | 0.003 | | | 0.692 | | | 0.489 | | | 0.002 | | | 0.003 | | |
| indirect2 | -0.002 | | 0.006 | | | -0.345 | | | 0.730 | | | -0.002 | | | -0.003 | | |
| indirect3 | 0.002 | | 0.006 | | | 0.430 | | | 0.667 | | | 0.002 | | | 0.004 | | |
| indirect4 | -0.001 | | 0.003 | | | -0.304 | | | 0.761 | | | -0.001 | | | -0.001 | | |
| indirect5 | 0.005 | | 0.006 | | | 0.870 | | | 0.384 | | | 0.005 | | | 0.008 | | |
| indirect6 | 0.003 | | 0.003 | | | 0.954 | | | 0.340 | | | 0.003 | | | 0.006 | | |
| indirect7 | -0.001 | | 0.006 | | | -0.103 | | | 0.918 | | | -0.001 | | | -0.001 | | |
| indirect8 | -0.004 | | 0.005 | | | -0.655 | | | 0.513 | | | -0.004 | | | -0.006 | | |
| indirect9 | 0.000 | | 0.002 | | | 0.022 | | | 0.982 | | | 0.000 | | | 0.000 | | |
| indirect10 | 0.004 | | 0.006 | | | 0.614 | | | 0.539 | | | 0.004 | | | 0.007 | | |
| indirect11 | 0.011 | | 0.008 | | | 1.418 | | | 0.156 | | | 0.011 | | | 0.011 | | |
| indirect12 | 0.009 | | 0.010 | | | 0.873 | | | 0.383 | | | 0.009 | | | 0.009 | | |
| indirect13 | 0.001 | | 0.010 | | | 0.122 | | | 0.903 | | | 0.001 | | | 0.001 | | |
| indirect14 | -0.001 | | 0.005 | | | -0.273 | | | 0.785 | | | -0.001 | | | -0.001 | | |
| indirect15 | 0.013 | | 0.012 | | | 1.133 | | | 0.257 | | | 0.013 | | | 0.014 | | |
| total1 | 0.476 | | 0.035 | | | 13.436 | | | 0.000 | | | 0.476 | | | 0.713 | | |
| total2 | 0.472 | | 0.036 | | | 13.291 | | | 0.000 | | | 0.472 | | | 0.707 | | |
| total3 | 0.477 | | 0.034 | | | 13.963 | | | 0.000 | | | 0.477 | | | 0.714 | | |
| total4 | 0.473 | | 0.036 | | | 13.290 | | | 0.000 | | | 0.473 | | | 0.709 | | |
| total5 | 0.480 | | 0.036 | | | 13.433 | | | 0.000 | | | 0.480 | | | 0.718 | | |
| total6 | 0.256 | | 0.034 | | | 7.632 | | | 0.000 | | | 0.256 | | | 0.462 | | |
| total7 | 0.252 | | 0.033 | | | 7.642 | | | 0.000 | | | 0.252 | | | 0.455 | | |
| total8 | 0.249 | | 0.033 | | | 7.517 | | | 0.000 | | | 0.249 | | | 0.450 | | |
| total9 | 0.253 | | 0.033 | | | 7.587 | | | 0.000 | | | 0.253 | | | 0.456 | | |
| total10 | 0.257 | | 0.034 | | | 7.568 | | | 0.000 | | | 0.257 | | | 0.463 | | |
| total11 | 0.128 | | 0.058 | | | 2.207 | | | 0.027 | | | 0.128 | | | 0.134 | | |
| total12 | 0.126 | | 0.058 | | | 2.188 | | | 0.029 | | | 0.126 | | | 0.132 | | |
| total13 | 0.119 | | 0.057 | | | 2.076 | | | 0.038 | | | 0.119 | | | 0.125 | | |
| total14 | 0.116 | | 0.059 | | | 1.986 | | | 0.047 | | | 0.116 | | | 0.122 | | |
| total15 | 0.131 | | 0.056 | | | 2.331 | | | 0.020 | | | 0.131 | | | 0.137 | | |
|  | |  | | |  | |  | | |  | | |  | | |  | | | |

### Social adversity Model – second timepoint

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1j. Complete outcome of structural equation with Social adversity as predictor from second survey timepoint.** | | | | | | | | | | | | |
| **Estimator** | **ML** | |  | |  | |  | |  | |  | | |
| Optimization method | NLMINB | |  | |  | |  | |  | |  | | |
| Number of free parameters | 108 | |  | |  | |  | |  | |  | | |
|  | Used | | Total | |  | |  | |  | |  | | |
| Number of observations | 423 | | 464 | |  | |  | |  | |  | | |
| **Model Test User Model:** |  | |  | |  | |  | |  | |  | | |
| Test statistic | 481.871 | |  | |  | |  | |  | |  | | |
| Degrees of freedom | 135 | |  | |  | |  | |  | |  | | |
| P-value (Chi-square) | 0.000 | |  | |  | |  | |  | |  | | |
| **Model Test Baseline Model:** |  | |  | |  | |  | |  | |  | | |
| Test statistic | 2.645.369 | |  | |  | |  | |  | |  | | |
| Degrees of freedom | 225 | |  | |  | |  | |  | |  | | |
| P-value | 0.000 | |  | |  | |  | |  | |  | | |
| **User Model versus Baseline Model:** |  | |  | |  | |  | |  | |  | | |
| Comparative Fit Index (CFI) | 0.857 | |  | |  | |  | |  | |  | | |
| Tucker-Lewis Index (TLI) | 0.761 | |  | |  | |  | |  | |  | | |
| **Loglikelihood and Information Criteria:** |  | |  | |  | |  | |  | |  | | |
| Loglikelihood user model (H0) | -8297.995 | |  | |  | |  | |  | |  | | |
| Loglikelihood unrestricted model (H1) | -8057.059 | |  | |  | |  | |  | |  | | |
| Akaike (AIC) | 16811.989 | |  | |  | |  | |  | |  | | |
| Bayesian (BIC) | 17249.105 | |  | |  | |  | |  | |  | | |
| Sample-size adjusted Bayesian (BIC) | 16906.385 | |  | |  | |  | |  | |  | | |
| **Root Mean Square Error of Approximation:** |  | |  | |  | |  | |  | |  | | |
| RMSEA | 0.078 | |  | |  | |  | |  | |  | | |
| 90 Percent confidence interval - lower | 0.070 | |  | |  | |  | |  | |  | | |
| 90 Percent confidence interval - upper | 0.086 | |  | |  | |  | |  | |  | | |
| P-value RMSEA <= 0.05 | 0.000 | |  | |  | |  | |  | |  | | |
| **Standardized Root Mean Square Residual:** |  | |  | |  | |  | |  | |  | | |
| SRMR | 0.084 | |  | |  | |  | |  | |  | | |
| **Parameter Estimates:** |  | |  | |  | |  | |  | |  | | |
| Standard errors | Bootstrap | |  | |  | |  | |  | |  | | |
| Number of requested bootstrap draws | 1000 | |  | |  | |  | |  | |  | | |
| Number of successful bootstrap draws | 1000 | |  | |  | |  | |  | |  | | |
| **Latent Variables:** |  | |  | |  | |  | |  | |  | | |
|  | Estimate | | Std.Err | | z-value | | P(>|z|) | | Std.lv | | Std.all | | |
| **Living Conditions =~** |  | |  | |  | |  | |  | |  | | |
| Number\_rooms | 1.000 | |  | |  | |  | | 2.028 | | 0.920 | | |
| Number people per household | 0.400 | | 0.035 | | 11.569 | | 0.000 | | 0.812 | | 0.642 | | |
| Living Area | 0.336 | | 0.041 | | 8.242 | | 0.000 | | 0.682 | | 0.499 | | |
| Garden\_yard | 0.132 | | 0.017 | | 7.974 | | 0.000 | | 0.267 | | 0.568 | | |
| **Health before COVID19 =~** | |  | |  | |  | |  | |  | |
| Regular treatment physical illness | 1.000 | |  | |  | |  | | 0.163 | | 0.504 | | |
| Mental health status before COVID19 | -5.060 | | 1.315 | | -3.849 | | 0.000 | | -0.825 | | -0.812 | | |
| Physical health status before COVID19 | -3.036 | | 0.675 | | -4.501 | | 0.000 | | -0.495 | | -0.541 | | |
| **Social adversity =~** |  | |  | |  | |  | |  | |  | | |
| Lonely during COVID19 | 0.758 | | 0.065 | | 11.705 | | 0.000 | | 0.758 | | 0.636 | | |
| Negative Thoughts during COVID19 | 0.826 | | 0.049 | | 16.965 | | 0.000 | | 0.826 | | 0.778 | | |
| Stressful social relationship changes | 0.742 | | 0.069 | | 10.697 | | 0.000 | | 0.742 | | 0.616 | | |
|  |  | |  | |  | |  | |  | |  | | |
| **Regressions:** |  | |  | |  | |  | |  | |  | | |
|  | Estimate | | Std.Err | | z-value | | P(>|z|) | | Std.lv | | Std.all | | |
| **depression** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | -0.944 | | 0.284 | | -3.324 | | 0.001 | | -0.154 | | -0.234 | | |
| Country (residence) | -0.357 | | 0.070 | | -5.092 | | 0.000 | | -0.357 | | -0.229 | | |
| Age | -0.002 | | 0.001 | | -1.114 | | 0.265 | | -0.002 | | -0.039 | | |
| Gender | -0.025 | | 0.053 | | -0.466 | | 0.641 | | -0.025 | | -0.017 | | |
| Highest education | -0.010 | | 0.019 | | -0.519 | | 0.604 | | -0.010 | | -0.019 | | |
| Living Conditions | -0.024 | | 0.014 | | -1.654 | | 0.098 | | -0.048 | | -0.074 | | |
| **anxiety** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | -0.932 | | 0.227 | | -4.111 | | 0.000 | | -0.152 | | -0.285 | | |
| Country (residence) | -0.209 | | 0.060 | | -3.474 | | 0.001 | | -0.209 | | -0.165 | | |
| Age | -0.006 | | 0.001 | | -4.865 | | 0.000 | | -0.006 | | -0.165 | | |
| Gender | 0.012 | | 0.048 | | 0.248 | | 0.804 | | 0.012 | | 0.010 | | |
| Highest education | -0.052 | | 0.019 | | -2.767 | | 0.006 | | -0.052 | | -0.121 | | |
| Living Conditions | -0.001 | | 0.013 | | -0.074 | | 0.941 | | -0.002 | | -0.004 | | |
| **SPQ\_total** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | -2.295 | | 0.473 | | -4.851 | | 0.000 | | -0.374 | | -0.395 | | |
| Country (residence) | -0.064 | | 0.118 | | -0.546 | | 0.585 | | -0.064 | | -0.029 | | |
| Age | -0.005 | | 0.002 | | -2.066 | | 0.039 | | -0.005 | | -0.083 | | |
| Gender | -0.226 | | 0.100 | | -2.268 | | 0.023 | | -0.226 | | -0.106 | | |
| Highest education | -0.129 | | 0.034 | | -3.758 | | 0.000 | | -0.129 | | -0.168 | | |
| Living Conditions | 0.006 | | 0.023 | | 0.268 | | 0.789 | | 0.013 | | 0.013 | | |
| **Media** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | -0.181 | | 0.175 | | -1.035 | | 0.301 | | -0.030 | | -0.072 | | |
| Country (residence) | -0.131 | | 0.047 | | -2.764 | | 0.006 | | -0.131 | | -0.133 | | |
| Age | -0.003 | | 0.001 | | -2.249 | | 0.025 | | -0.003 | | -0.117 | | |
| Gender | -0.036 | | 0.043 | | -0.832 | | 0.405 | | -0.036 | | -0.039 | | |
| Highest education | -0.080 | | 0.016 | | -5.008 | | 0.000 | | -0.080 | | -0.238 | | |
| Living Conditions | -0.008 | | 0.011 | | -0.756 | | 0.450 | | -0.017 | | -0.041 | | |
| **Drugs** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | -0.164 | | 0.186 | | -0.885 | | 0.376 | | -0.027 | | -0.079 | | |
| Country (residence) | -0.098 | | 0.045 | | -2.164 | | 0.031 | | -0.098 | | -0.122 | | |
| Age | -0.000 | | 0.001 | | -0.224 | | 0.823 | | -0.000 | | -0.010 | | |
| Gender | 0.026 | | 0.035 | | 0.750 | | 0.453 | | 0.026 | | 0.035 | | |
| Highest education | -0.035 | | 0.015 | | -2.384 | | 0.017 | | -0.035 | | -0.129 | | |
| Living Conditions | -0.021 | | 0.008 | | -2.630 | | 0.009 | | -0.044 | | -0.129 | | |
| **Alcohol** ~ |  | |  | |  | |  | |  | |  | | |
| Health before COVID19 | 1.037 | | 1.001 | | 1.036 | | 0.300 | | 0.169 | | 0.079 | | |
| Country (residence) | -0.408 | | 0.245 | | -1.668 | | 0.095 | | -0.408 | | -0.080 | | |
| Age | 0.021 | | 0.007 | | 2.995 | | 0.003 | | 0.021 | | 0.152 | | |
| Gender | -0.448 | | 0.246 | | -1.817 | | 0.069 | | -0.448 | | -0.092 | | |
| Highest education | 0.174 | | 0.088 | | 1.979 | | 0.048 | | 0.174 | | 0.100 | | |
| Living Conditions | 0.064 | | 0.056 | | 1.144 | | 0.253 | | 0.130 | | 0.061 | | |
| **Exercise** ~ | |  | |  | |  | |  | |  | |
| Health before COVID19 | 0.851 | | 0.518 | | 1.642 | | 0.101 | | 0.139 | | 0.134 | | |
| Country (residence) | -0.254 | | 0.135 | | -1.879 | | 0.060 | | -0.254 | | -0.103 | | |
| Age | -0.001 | | 0.003 | | -0.188 | | 0.851 | | -0.001 | | -0.010 | | |
| Gender | -0.174 | | 0.125 | | -1.392 | | 0.164 | | -0.174 | | -0.074 | | |
| Highest education | 0.059 | | 0.041 | | 1.449 | | 0.147 | | 0.059 | | 0.070 | | |
| Living Conditions | -0.004 | | 0.026 | | -0.169 | | 0.866 | | -0.009 | | -0.009 | | |
| **Sleep during week** ~ | |  | |  | |  | |  | |  | |
| Health before COVID19 | 0.216 | | 0.151 | | 1.425 | | 0.154 | | 0.035 | | 0.102 | | |
| Country (residence) | 0.071 | | 0.042 | | 1.697 | | 0.090 | | 0.071 | | 0.086 | | |
| Age | -0.002 | | 0.001 | | -2.154 | | 0.031 | | -0.002 | | -0.100 | | |
| Gender | 0.056 | | 0.037 | | 1.507 | | 0.132 | | 0.056 | | 0.072 | | |
| Highest education | 0.024 | | 0.016 | | 1.505 | | 0.132 | | 0.024 | | 0.087 | | |
| Living Conditions | -0.000 | | 0.009 | | -0.031 | | 0.975 | | -0.001 | | -0.002 | | |
| **Health before COVI19** ~ | |  | |  | |  | |  | |  | |
| Country (residence) | 0.087 | | 0.030 | | 2.873 | | 0.004 | | 0.532 | | 0.224 | | |
| Age | 0.001 | | 0.001 | | 1.402 | | 0.161 | | 0.005 | | 0.084 | | |
| Gender | 0.020 | | 0.020 | | 1.025 | | 0.305 | | 0.123 | | 0.054 | | |
| Highest education | 0.015 | | 0.010 | | 1.409 | | 0.159 | | 0.089 | | 0.110 | | |
| Living Conditions | 0.017 | | 0.007 | | 2.436 | | 0.015 | | 0.210 | | 0.210 | | |
| **depression** ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (c1) | 0.463 | | 0.040 | | 11.699 | | 0.000 | | 0.463 | | 0.705 | | |
| **anxiet**y ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (c2) | 0.268 | | 0.041 | | 6.567 | | 0.000 | | 0.268 | | 0.503 | | |
| **SPQ\_total** ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (c3) | 0.237 | | 0.068 | | 3.476 | | 0.001 | | 0.237 | | 0.250 | | |
| **Media** ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (a1) | 0.042 | | 0.027 | | 1.546 | | 0.122 | | 0.042 | | 0.101 | | |
| **Drugs** ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (a2) | 0.049 | | 0.028 | | 1.770 | | 0.077 | | 0.049 | | 0.144 | | |
| **Alcohol** ~ |  | |  | |  | |  | |  | |  | | |
| Social adversity (a3) | -0.084 | | 0.148 | | -0.568 | | 0.570 | | -0.084 | | -0.039 | | |
| **Exercise** ~ | |  | |  | |  | |  | |  | |
| Social adversity (a4) | -0.055 | | 0.073 | | -0.749 | | 0.454 | | -0.055 | | -0.053 | | |
| **Sleep during week** ~ | |  | |  | |  | |  | |  | |
| Social adversity (a5) | -0.106 | | 0.023 | | -4.590 | | 0.000 | | -0.106 | | -0.307 | | |
| **depression** ~ |  | |  | |  | |  | |  | |  | | |
| Media (b1) | 0.057 | | 0.062 | | 0.929 | | 0.353 | | 0.057 | | 0.036 | | |
| Drugs (b2) | 0.102 | | 0.095 | | 1.082 | | 0.279 | | 0.102 | | 0.053 | | |
| Alcohol (b3) | 0.019 | | 0.011 | | 1.637 | | 0.102 | | 0.019 | | 0.061 | | |
| Exercise (b4) | -0.030 | | 0.024 | | -1.249 | | 0.212 | | -0.030 | | -0.048 | | |
| Sleep during week(b5) | 0.062 | | 0.079 | | 0.788 | | 0.431 | | 0.062 | | 0.032 | | |
| **anxiety** ~ |  | |  | |  | |  | |  | |  | | |
| Media (b6) | 0.087 | | 0.056 | | 1.573 | | 0.116 | | 0.087 | | 0.068 | | |
| Drug (b7) | 0.093 | | 0.080 | | 1.158 | | 0.247 | | 0.093 | | 0.059 | | |
| Alcohol (b8) | 0.002 | | 0.011 | | 0.175 | | 0.861 | | 0.002 | | 0.007 | | |
| Exercise (b9) | -0.006 | | 0.021 | | -0.275 | | 0.784 | | -0.006 | | -0.011 | | |
| Sleep during week (b10) | -0.014 | | 0.073 | | -0.198 | | 0.843 | | -0.014 | | -0.009 | | |
| **SPQ\_total** ~ |  | |  | |  | |  | |  | |  | | |
| Media (b11) | 0.247 | | 0.102 | | 2.423 | | 0.015 | | 0.247 | | 0.107 | | |
| Drug (b12) | 0.178 | | 0.124 | | 1.431 | | 0.152 | | 0.178 | | 0.063 | | |
| Alcohol (b13) | 0.011 | | 0.019 | | 0.558 | | 0.577 | | 0.011 | | 0.024 | | |
| Exercise (b14) | 0.003 | | 0.041 | | 0.061 | | 0.951 | | 0.003 | | 0.003 | | |
| Sleep during week (b15) | -0.225 | | 0.143 | | -1.576 | | 0.115 | | -0.225 | | -0.082 | | |
|  |  | |  | |  | |  | |  | |  | | |
| **Covariances:** |  | |  | |  | |  | |  | |  | | |
|  | Estimate | | Std.Err | | z-value | | P(>|z|) | | Std.lv | | Std.all | | |
| .anxiety ~~ |  | |  | |  | |  | |  | |  | | |
| .SPQ\_total | 0.121 | | 0.022 | | 5.449 | | 0.000 | | 0.121 | | 0.433 | | |
| .depression ~~ |  | |  | |  | |  | |  | |  | | |
| .SPQ\_total | 0.069 | | 0.023 | | 2.933 | | 0.003 | | 0.069 | | 0.246 | | |
| .anxiety | 0.056 | | 0.014 | | 3.870 | | 0.000 | | 0.056 | | 0.397 | | |
| livCond ~~ |  | |  | |  | |  | |  | |  | | |
| Social adversity | -0.054 | | 0.128 | | -0.424 | | 0.671 | | -0.027 | | -0.027 | | |
|  |  | |  | |  | |  | |  | |  | | |
| **Variances:** |  | |  | |  | |  | |  | |  | | |
|  | Estimate | | Std.Err | | z-value | | P(>|z|) | | Std.lv | | Std.all | | |
| Social adversity | 1.000 | |  | |  | |  | | 1.000 | | 1.000 | | |
| .Number rooms | 0.749 | | 0.317 | | 2.366 | | 0.018 | | 0.749 | | 0.154 | | |
| .Number people per household | 0.939 | | 0.075 | | 12.491 | | 0.000 | | 0.939 | | 0.587 | | |
| .Living Area | 1.407 | | 0.095 | | 14.871 | | 0.000 | | 1.407 | | 0.751 | | |
| .Garden\_yard | 0.150 | | 0.011 | | 13.839 | | 0.000 | | 0.150 | | 0.678 | | |
| .Regular treatment physical illness | 0.078 | | 0.009 | | 8.586 | | 0.000 | | 0.078 | | 0.746 | | |
| .Mental health status before COVID19 | 0.352 | | 0.134 | | 2.627 | | 0.009 | | 0.352 | | 0.341 | | |
| .Physical health status before COVID19 | 0.592 | | 0.065 | | 9.121 | | 0.000 | | 0.592 | | 0.707 | | |
| .Lonely during COVID19 | 0.847 | | 0.088 | | 9.638 | | 0.000 | | 0.847 | | 0.596 | | |
| .Negative Thoughts during COVID19 | 0.445 | | 0.055 | | 8.154 | | 0.000 | | 0.445 | | 0.395 | | |
| .stressful social relationships changes | 0.898 | | 0.075 | | 11.918 | | 0.000 | | 0.898 | | 0.620 | | |
| .depression | 0.140 | | 0.019 | | 7.449 | | 0.000 | | 0.140 | | 0.325 | | |
| .anxiety | 0.141 | | 0.019 | | 7.359 | | 0.000 | | 0.141 | | 0.498 | | |
| .SPQ\_total | 0.558 | | 0.048 | | 11.590 | | 0.000 | | 0.558 | | 0.621 | | |
| .Media | 0.150 | | 0.011 | | 13.202 | | 0.000 | | 0.150 | | 0.883 | | |
| .Drug | 0.104 | | 0.011 | | 9.929 | | 0.000 | | 0.104 | | 0.912 | | |
| .Alcohol | 4.302 | | 0.185 | | 23.263 | | 0.000 | | 4.302 | | 0.935 | | |
| .Exercise | 1.028 | | 0.073 | | 14.169 | | 0.000 | | 1.028 | | 0.962 | | |
| .Sleep during week | 0.102 | | 0.010 | | 9.704 | | 0.000 | | 0.102 | | 0.862 | | |
| Living Conditons | 4.114 | | 0.490 | | 8.396 | | 0.000 | | 1.000 | | 1.000 | | |
| .health before COVID19 | 0.023 | | 0.007 | | 3.245 | | 0.001 | | 0.883 | | 0.883 | | |
|  |  | |  | |  | |  | |  | |  | | |
| **Defined Parameters:** |  | |  | |  | |  | |  | |  | | |
|  | Estimate | | Std.Err | | z-value | | P(>|z|) | | Std.lv | | Std.all | | |
| indirect1 | 0.002 | | 0.003 | | 0.733 | | 0.464 | | 0.002 | | 0.004 | | |
| indirect2 | 0.005 | | 0.006 | | 0.872 | | 0.383 | | 0.005 | | 0.008 | | |
| indirect3 | -0.002 | | 0.004 | | -0.426 | | 0.670 | | -0.002 | | -0.002 | | |
| indirect4 | 0.002 | | 0.003 | | 0.566 | | 0.571 | | 0.002 | | 0.003 | | |
| indirect5 | -0.007 | | 0.009 | | -0.734 | | 0.463 | | -0.007 | | -0.010 | | |
| indirect6 | 0.004 | | 0.003 | | 1.068 | | 0.286 | | 0.004 | | 0.007 | | |
| indirect7 | 0.005 | | 0.005 | | 0.835 | | 0.404 | | 0.005 | | 0.009 | | |
| indirect8 | -0.000 | | 0.002 | | -0.080 | | 0.936 | | -0.000 | | -0.000 | | |
| indirect9 | 0.000 | | 0.002 | | 0.161 | | 0.872 | | 0.000 | | 0.001 | | |
| indirect10 | 0.002 | | 0.008 | | 0.193 | | 0.847 | | 0.002 | | 0.003 | | |
| indirect11 | 0.010 | | 0.008 | | 1.228 | | 0.219 | | 0.010 | | 0.011 | | |
| indirect12 | 0.009 | | 0.009 | | 1.008 | | 0.313 | | 0.009 | | 0.009 | | |
| indirect13 | -0.001 | | 0.004 | | -0.247 | | 0.805 | | -0.001 | | -0.001 | | |
| indirect14 | -0.000 | | 0.004 | | -0.036 | | 0.971 | | -0.000 | | -0.000 | | |
| indirect15 | 0.024 | | 0.016 | | 1.510 | | 0.131 | | 0.024 | | 0.025 | | |
| total1 | 0.466 | | 0.040 | | 11.763 | | 0.000 | | 0.466 | | 0.709 | | |
| total2 | 0.468 | | 0.042 | | 11.280 | | 0.000 | | 0.468 | | 0.713 | | |
| total3 | 0.462 | | 0.040 | | 11.591 | | 0.000 | | 0.462 | | 0.703 | | |
| total4 | 0.465 | | 0.039 | | 11.804 | | 0.000 | | 0.465 | | 0.708 | | |
| total5 | 0.457 | | 0.038 | | 12.181 | | 0.000 | | 0.457 | | 0.696 | | |
| total6 | 0.272 | | 0.040 | | 6.787 | | 0.000 | | 0.272 | | 0.510 | | |
| total7 | 0.273 | | 0.042 | | 6.480 | | 0.000 | | 0.273 | | 0.512 | | |
| total8 | 0.268 | | 0.041 | | 6.576 | | 0.000 | | 0.268 | | 0.503 | | |
| total9 | 0.268 | | 0.041 | | 6.607 | | 0.000 | | 0.268 | | 0.504 | | |
| total10 | 0.270 | | 0.040 | | 6.804 | | 0.000 | | 0.270 | | 0.506 | | |
| total11 | 0.247 | | 0.067 | | 3.666 | | 0.000 | | 0.247 | | 0.260 | | |
| total12 | 0.245 | | 0.069 | | 3.574 | | 0.000 | | 0.245 | | 0.259 | | |
| total13 | 0.236 | | 0.068 | | 3.452 | | 0.001 | | 0.236 | | 0.249 | | |
| total14 | 0.236 | | 0.068 | | 3.477 | | 0.001 | | 0.236 | | 0.249 | | |
| total15 | 0.260 | | 0.064 | | 4.099 | | 0.000 | | 0.260 | | 0.275 | | |
|  |  | |  | |  | |  | |  | |  | | |

### Social adversity Model – third timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1k. Complete outcome of structural equation with Social adversity as predictor from third survey timepoint** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
|  | Used | Total |  |  |  |  |
| Number of observations | 488 | 532 |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
| Test statistic | 498.065 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2937.944 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.866 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.777 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -10386.424 |  |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -10137.391 |  |  |  |  |  |
| Akaike (AIC) | 20988.847 |  |  |  |  |  |
| Bayesian (BIC) | 21441.401 |  |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 21098.613 |  |  |  |  |  |
| **Root Mean Square Error of Approximation:** |  |  |  |  |  |  |
| RMSEA | 0.074 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.067 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.081 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** |  |  |  |  |  |  |
| SRMR | 0.072 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **Living Conditions =~** |  |  |  |  |  |  |
| Number\_rooms | 1.000 |  |  |  | 1.706 | 0.798 |
| Number people per household | 0.408 | 0.041 | 9.999 | 0.000 | 0.695 | 0.527 |
| Living Area | 0.413 | 0.061 | 6.757 | 0.000 | 0.704 | 0.509 |
| Garden\_yard | 0.161 | 0.022 | 7.197 | 0.000 | 0.275 | 0.599 |
| **Health before COVID19 =~** | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.199 | 0.549 |
| Mental health status before COVID19 | -4.547 | 0.644 | -7.058 | 0.000 | -0.905 | -0.882 |
| Physical health status before COVID19 | -3.135 | 0.434 | -7.228 | 0.000 | -0.624 | -0.630 |
| **Social adversity =~** |  |  |  |  |  |  |
| Lonely during COVID19 | 0.891 | 0.056 | 15.872 | 0.000 | 0.891 | 0.698 |
| Negative Thoughts during COVID19 | 0.890 | 0.046 | 19.160 | 0.000 | 0.890 | 0.764 |
| Stressful social relationship changes | 0.879 | 0.061 | 14.331 | 0.000 | 0.879 | 0.650 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression** ~ |  |  |  |  |  |  |
| Health before COVID19 | -1.156 | 0.193 | -5.986 | 0.000 | -0.230 | -0.323 |
| Country (residence) | -0.186 | 0.062 | -3.020 | 0.003 | -0.186 | -0.120 |
| Age | -0.003 | 0.002 | -1.807 | 0.071 | -0.003 | -0.062 |
| Gender | 0.020 | 0.052 | 0.376 | 0.707 | 0.020 | 0.013 |
| Highest education | 0.012 | 0.015 | 0.756 | 0.449 | 0.012 | 0.024 |
| Living Conditions | 0.043 | 0.018 | 2.343 | 0.019 | 0.073 | 0.102 |
| **anxiety** ~ |  |  |  |  |  |  |
| Health before COVID19 | -0.895 | 0.197 | -4.542 | 0.000 | -0.178 | -0.322 |
| Country (residence) | -0.144 | 0.061 | -2.347 | 0.019 | -0.144 | -0.119 |
| Age | -0.005 | 0.001 | -3.539 | 0.000 | -0.005 | -0.132 |
| Gender | 0.114 | 0.041 | 2.767 | 0.006 | 0.114 | 0.094 |
| Highest education | 0.012 | 0.015 | 0.806 | 0.420 | 0.012 | 0.034 |
| Living Conditions | 0.031 | 0.016 | 1.926 | 0.054 | 0.052 | 0.094 |
| **SPQ\_total** ~ |  |  |  |  |  |  |
| Health before COVID19 | -1.639 | 0.300 | -5.461 | 0.000 | -0.326 | -0.331 |
| Country (residence) | -0.089 | 0.105 | -0.851 | 0.395 | -0.089 | -0.042 |
| Age | -0.010 | 0.003 | -3.468 | 0.001 | -0.010 | -0.146 |
| Gender | 0.010 | 0.087 | 0.120 | 0.904 | 0.010 | 0.005 |
| Highest education | -0.057 | 0.028 | -2.056 | 0.040 | -0.057 | -0.086 |
| Living Conditions | -0.010 | 0.029 | -0.334 | 0.738 | -0.016 | -0.017 |
| **Media** ~ |  |  |  |  |  |  |
| Health before COVID19 | -0.017 | 0.126 | -0.138 | 0.890 | -0.003 | -0.007 |
| Country (residence) | -0.077 | 0.046 | -1.678 | 0.093 | -0.077 | -0.073 |
| Age | -0.001 | 0.001 | -0.541 | 0.588 | -0.001 | -0.024 |
| Gender | -0.143 | 0.046 | -3.080 | 0.002 | -0.143 | -0.133 |
| Highest education | -0.077 | 0.014 | -5.533 | 0.000 | -0.077 | -0.234 |
| Living Conditions | -0.041 | 0.015 | -2.692 | 0.007 | -0.070 | -0.143 |
| **Drugs** ~ |  |  |  |  |  |  |
| Health before COVID19 | -0.285 | 0.110 | -2.587 | 0.010 | -0.057 | -0.154 |
| Country (residence) | 0.051 | 0.039 | 1.305 | 0.192 | 0.051 | 0.063 |
| Age | -0.001 | 0.001 | -1.241 | 0.215 | -0.001 | -0.054 |
| Gender | 0.009 | 0.033 | 0.281 | 0.779 | 0.009 | 0.012 |
| Highest education | -0.007 | 0.011 | -0.641 | 0.522 | -0.007 | -0.028 |
| Living Conditions | -0.014 | 0.011 | -1.254 | 0.210 | -0.024 | -0.065 |
| **Alcohol** ~ |  |  |  |  |  |  |
| Health before COVID19 | 1.553 | 0.593 | 2.617 | 0.009 | 0.309 | 0.138 |
| Country (residence) | -0.226 | 0.214 | -1.059 | 0.290 | -0.226 | -0.047 |
| Age | 0.025 | 0.007 | 3.594 | 0.000 | 0.025 | 0.170 |
| Gender | -0.189 | 0.226 | -0.836 | 0.403 | -0.189 | -0.039 |
| Highest education | 0.225 | 0.069 | 3.271 | 0.001 | 0.225 | 0.151 |
| Living Conditions | -0.016 | 0.065 | -0.253 | 0.800 | -0.028 | -0.013 |
| **Exercise** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.137 | 0.317 | -0.432 | 0.666 | -0.027 | -0.023 |
| Country (residence) | -0.261 | 0.117 | -2.221 | 0.026 | -0.261 | -0.104 |
| Age | 0.005 | 0.004 | 1.252 | 0.210 | 0.005 | 0.061 |
| Gender | 0.125 | 0.111 | 1.121 | 0.262 | 0.125 | 0.049 |
| Highest education | 0.155 | 0.035 | 4.466 | 0.000 | 0.155 | 0.199 |
| Living Conditions | 0.057 | 0.038 | 1.478 | 0.139 | 0.097 | 0.083 |
| **Sleep during week** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.167 | 0.199 | -0.837 | 0.403 | -0.033 | -0.052 |
| Country (residence) | 0.124 | 0.071 | 1.742 | 0.082 | 0.124 | 0.090 |
| Age | -0.004 | 0.002 | -1.922 | 0.055 | -0.004 | -0.095 |
| Gender | 0.253 | 0.059 | 4.292 | 0.000 | 0.253 | 0.182 |
| Highest education | 0.025 | 0.018 | 1.380 | 0.168 | 0.025 | 0.059 |
| Living Conditions | -0.022 | 0.021 | -1.087 | 0.277 | -0.038 | -0.060 |
| **Health before COVI19** ~ | |  |  |  |  |  |
| Country (residence) | 0.051 | 0.027 | 1.930 | 0.054 | 0.258 | 0.119 |
| Age | 0.001 | 0.001 | 1.978 | 0.048 | 0.006 | 0.097 |
| Gender | -0.022 | 0.021 | -1.028 | 0.304 | -0.111 | -0.051 |
| Highest education | 0.002 | 0.007 | 0.317 | 0.751 | 0.010 | 0.016 |
| Living Conditions | 0.013 | 0.009 | 1.457 | 0.145 | 0.111 | 0.111 |
| **depression** ~ |  |  |  |  |  |  |
| Social adversity (c1) | 0.494 | 0.036 | 13.744 | 0.000 | 0.494 | 0.693 |
| **anxiet**y ~ |  |  |  |  |  |  |
| Social adversity (c2) | 0.262 | 0.034 | 7.783 | 0.000 | 0.262 | 0.473 |
| **SPQ\_total** ~ |  |  |  |  |  |  |
| Social adversity (c3) | 0.234 | 0.060 | 3.886 | 0.000 | 0.234 | 0.237 |
| **Media** ~ |  |  |  |  |  |  |
| Social adversity (a1) | 0.108 | 0.025 | 4.279 | 0.000 | 0.108 | 0.222 |
| **Drugs** ~ |  |  |  |  |  |  |
| Social adversity (a2) | 0.103 | 0.022 | 4.651 | 0.000 | 0.103 | 0.280 |
| **Alcohol** ~ |  |  |  |  |  |  |
| Social adversity (a3) | 0.161 | 0.128 | 1.255 | 0.209 | 0.161 | 0.072 |
| **Exercise** ~ | |  |  |  |  |  |
| Social adversity (a4) | -0.033 | 0.062 | -0.542 | 0.587 | -0.033 | -0.029 |
| **Sleep during week** ~ | |  |  |  |  |  |
| Social adversity (a5) | -0.129 | 0.038 | -3.426 | 0.001 | -0.129 | -0.202 |
| **depression** ~ |  |  |  |  |  |  |
| Media (b1) | 0.128 | 0.054 | 2.348 | 0.019 | 0.128 | 0.087 |
| Drugs (b2) | 0.035 | 0.081 | 0.435 | 0.664 | 0.035 | 0.018 |
| Alcohol (b3) | 0.015 | 0.012 | 1.276 | 0.202 | 0.015 | 0.047 |
| Exercise (b4) | -0.037 | 0.021 | -1.757 | 0.079 | -0.037 | -0.060 |
| Sleep during week(b5) | -0.010 | 0.040 | -0.245 | 0.807 | -0.010 | -0.009 |
| **anxiety** ~ |  |  |  |  |  |  |
| Media (b6) | 0.128 | 0.051 | 2.522 | 0.012 | 0.128 | 0.113 |
| Drug (b7) | 0.080 | 0.078 | 1.021 | 0.307 | 0.080 | 0.053 |
| Alcohol (b8) | -0.011 | 0.011 | -0.986 | 0.324 | -0.011 | -0.045 |
| Exercise (b9) | 0.000 | 0.017 | 0.030 | 0.976 | 0.000 | 0.001 |
| Sleep during week (b10) | 0.022 | 0.045 | 0.496 | 0.620 | 0.022 | 0.025 |
| **SPQ\_total** ~ |  |  |  |  |  |  |
| Media (b11) | 0.250 | 0.086 | 2.918 | 0.004 | 0.250 | 0.124 |
| Drug (b12) | 0.054 | 0.140 | 0.387 | 0.699 | 0.054 | 0.020 |
| Alcohol (b13) | -0.022 | 0.021 | -1.064 | 0.288 | -0.022 | -0.050 |
| Exercise (b14) | -0.003 | 0.035 | -0.083 | 0.934 | -0.003 | -0.003 |
| Sleep during week (b15) | -0.102 | 0.079 | -1.293 | 0.196 | -0.102 | -0.066 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| livCond ~~ |  |  |  |  |  |  |
| Social adversity | -0.207 | 0.107 | -1.928 | 0.054 | -0.121 | -0.121 |
| .depression ~~ |  |  |  |  |  |  |
| .anxiety | 0.073 | 0.016 | 4.593 | 0.000 | 0.073 | 0.431 |
| .SPQ\_total | 0.125 | 0.027 | 4.681 | 0.000 | 0.125 | 0.361 |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.180 | 0.029 | 6.323 | 0.000 | 0.180 | 0.526 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| Social adversity | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 1.657 | 0.355 | 4.673 | 0.000 | 1.657 | 0.363 |
| .Number people per household | 1.260 | 0.160 | 7.894 | 0.000 | 1.260 | 0.723 |
| .Living Area | 1.416 | 0.111 | 12.777 | 0.000 | 1.416 | 0.741 |
| .Garden\_yard | 0.135 | 0.012 | 11.172 | 0.000 | 0.135 | 0.641 |
| .Regular treatment physical illness | 0.092 | 0.009 | 9.805 | 0.000 | 0.092 | 0.699 |
| .Mental health status before COVID19 | 0.234 | 0.075 | 3.114 | 0.002 | 0.234 | 0.223 |
| .Physical health status before COVID19 | 0.592 | 0.052 | 11.425 | 0.000 | 0.592 | 0.603 |
| .Lonely during COVID19 | 0.836 | 0.071 | 11.783 | 0.000 | 0.836 | 0.513 |
| .Negative Thoughts during COVID19 | 0.566 | 0.060 | 9.358 | 0.000 | 0.566 | 0.417 |
| .stressful social relationships changes | 1.058 | 0.096 | 11.073 | 0.000 | 1.058 | 0.578 |
| .depression | 0.172 | 0.020 | 8.646 | 0.000 | 0.172 | 0.337 |
| .anxiety | 0.169 | 0.022 | 7.605 | 0.000 | 0.169 | 0.550 |
| .SPQ\_total | 0.698 | 0.058 | 11.971 | 0.000 | 0.698 | 0.719 |
| .Media | 0.203 | 0.009 | 23.234 | 0.000 | 0.203 | 0.853 |
| .Drug | 0.119 | 0.009 | 12.698 | 0.000 | 0.119 | 0.878 |
| .Alcohol | 4.548 | 0.170 | 26.709 | 0.000 | 4.548 | 0.911 |
| .Exercise | 1.255 | 0.078 | 16.076 | 0.000 | 1.255 | 0.932 |
| .Sleep during week | 0.367 | 0.027 | 13.836 | 0.000 | 0.367 | 0.907 |
| Living Conditons | 2.910 | 0.431 | 6.757 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.038 | 0.009 | 4.262 | 0.000 | 0.960 | 0.960 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.014 | 0.006 | 2.260 | 0.024 | 0.014 | 0.019 |
| indirect2 | 0.004 | 0.008 | 0.437 | 0.662 | 0.004 | 0.005 |
| indirect3 | 0.002 | 0.003 | 0.891 | 0.373 | 0.002 | 0.003 |
| indirect4 | 0.001 | 0.003 | 0.494 | 0.621 | 0.001 | 0.002 |
| indirect5 | 0.001 | 0.005 | 0.235 | 0.814 | 0.001 | 0.002 |
| indirect6 | 0.014 | 0.006 | 2.313 | 0.021 | 0.014 | 0.025 |
| indirect7 | 0.008 | 0.008 | 1.022 | 0.307 | 0.008 | 0.015 |
| indirect8 | -0.002 | 0.003 | -0.634 | 0.526 | -0.002 | -0.003 |
| indirect9 | -0.000 | 0.001 | -0.015 | 0.988 | -0.000 | -0.000 |
| indirect10 | -0.003 | 0.006 | -0.486 | 0.627 | -0.003 | -0.005 |
| indirect11 | 0.027 | 0.011 | 2.396 | 0.017 | 0.027 | 0.028 |
| indirect12 | 0.006 | 0.014 | 0.385 | 0.700 | 0.006 | 0.006 |
| indirect13 | -0.004 | 0.005 | -0.711 | 0.477 | -0.004 | -0.004 |
| indirect14 | 0.000 | 0.002 | 0.041 | 0.968 | 0.000 | 0.000 |
| indirect15 | 0.013 | 0.011 | 1.219 | 0.223 | 0.013 | 0.013 |
| total1 | 0.508 | 0.036 | 14.194 | 0.000 | 0.508 | 0.713 |
| total2 | 0.498 | 0.035 | 14.254 | 0.000 | 0.498 | 0.698 |
| total3 | 0.497 | 0.036 | 13.776 | 0.000 | 0.497 | 0.697 |
| total4 | 0.496 | 0.036 | 13.738 | 0.000 | 0.496 | 0.695 |
| total5 | 0.496 | 0.035 | 14.081 | 0.000 | 0.496 | 0.695 |
| total6 | 0.276 | 0.033 | 8.301 | 0.000 | 0.276 | 0.498 |
| total7 | 0.270 | 0.035 | 7.790 | 0.000 | 0.270 | 0.487 |
| total8 | 0.260 | 0.033 | 7.781 | 0.000 | 0.260 | 0.469 |
| total9 | 0.262 | 0.034 | 7.793 | 0.000 | 0.262 | 0.473 |
| total10 | 0.259 | 0.032 | 8.022 | 0.000 | 0.259 | 0.467 |
| total11 | 0.261 | 0.059 | 4.404 | 0.000 | 0.261 | 0.265 |
| total12 | 0.239 | 0.058 | 4.151 | 0.000 | 0.239 | 0.243 |
| total13 | 0.230 | 0.060 | 3.845 | 0.000 | 0.230 | 0.234 |
| total14 | 0.234 | 0.060 | 3.893 | 0.000 | 0.234 | 0.237 |
| total15 | 0.247 | 0.058 | 4.252 | 0.000 | 0.247 | 0.250 |
|  |  |  |  |  |  |  |

### Social adversity Model – fourth timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1l. Complete outcome of structural equation with Social adversity as predictor from fourth survey timepoint** | | | | | | |
| **Estimator** | **ML** |  |  |  |  |  |
| Optimization method | NLMINB |  |  |  |  |  |
| Number of free parameters | 108 |  |  |  |  |  |
|  | Used | Total |  |  |  |  |
| Number of observations | 440 | 478 |  |  |  |  |
| **Model Test User Model:** |  |  |  |  |  |  |
| Test statistic | 448.081 |  |  |  |  |  |
| Degrees of freedom | 135 |  |  |  |  |  |
| P-value (Chi-square) | 0.000 |  |  |  |  |  |
| **Model Test Baseline Model:** |  |  |  |  |  |  |
| Test statistic | 2567.853 |  |  |  |  |  |
| Degrees of freedom | 225 |  |  |  |  |  |
| P-value | 0.000 |  |  |  |  |  |
| **User Model versus Baseline Model:** |  |  |  |  |  |  |
| Comparative Fit Index (CFI) | 0.866 |  |  |  |  |  |
| Tucker-Lewis Index (TLI) | 0.777 |  |  |  |  |  |
| **Loglikelihood and Information Criteria:** |  |  |  |  |  |  |
| Loglikelihood user model (H0) | -9024.252 |  |  |  |  |  |
| Loglikelihood unrestricted model (H1) | -8800.211 |  |  |  |  |  |
| Akaike (AIC) | 18264.504 |  |  |  |  |  |
| Bayesian (BIC) | 18705.875 |  |  |  |  |  |
| Sample-size adjusted Bayesian (BIC) | 18363.135 |  |  |  |  |  |
| **Root Mean Square Error of Approximation:** | |  |  |  |  |  |
| RMSEA | 0.073 |  |  |  |  |  |
| 90 Percent confidence interval - lower | 0.065 |  |  |  |  |  |
| 90 Percent confidence interval - upper | 0.080 |  |  |  |  |  |
| P-value RMSEA <= 0.05 | 0.000 |  |  |  |  |  |
| **Standardized Root Mean Square Residual:** | | |  |  |  |  |
| SRMR | 0.070 |  |  |  |  |  |
| **Parameter Estimates:** |  |  |  |  |  |  |
| Standard errors | Bootstrap |  |  |  |  |  |
| Number of requested bootstrap draws | 1000 |  |  |  |  |  |
| Number of successful bootstrap draws | 1000 |  |  |  |  |  |
| **Latent Variables:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **Living Conditions =~** |  |  |  |  | 1.786 | 0.853 |
| Number\_rooms | 1.000 |  |  |  |  |  |
| Number people per household | 0.389 | 0.035 | 11.025 | 0.000 | 0.694 | 0.592 |
| Living Area | 0.345 | 0.052 | 6.693 | 0.000 | 0.616 | 0.459 |
| Garden\_yard | 0.164 | 0.020 | 8.248 | 0.000 | 0.293 | 0.618 |
| **Health before COVID19 =~** | |  |  |  |  |  |
| Regular treatment physical illness | 1.000 |  |  |  | 0.148 | 0.442 |
| Mental health status before COVID19 | -5.515 | 1.265 | -4.359 | 0.000 | -0.819 | -0.808 |
| Physical health status before COVID19 | -4.094 | 0.923 | -4.435 | 0.000 | -0.608 | -0.656 |
| **Social adversity =~** |  |  |  |  |  |  |
| Lonely during COVID19 | 0.888 | 0.059 | 14.941 | 0.000 | 0.888 | 0.682 |
| Negative Thoughts during COVID19 | 0.943 | 0.044 | 21.353 | 0.000 | 0.943 | 0.826 |
| Stressful social relationship changes | 0.744 | 0.063 | 11.904 | 0.000 | 0.744 | 0.588 |
|  |  |  |  |  |  |  |
| **Regressions:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| **depression** ~ | |  |  |  |  |  |
| Health before COVID19 | -1.419 | 0.333 | -4.267 | 0.000 | -0.211 | -0.285 |
| Country (residence) | -0.098 | 0.067 | -1.472 | 0.141 | -0.098 | -0.055 |
| Age | -0.002 | 0.002 | -1.139 | 0.255 | -0.002 | -0.035 |
| Gender | -0.103 | 0.059 | -1.760 | 0.078 | -0.103 | -0.060 |
| Highest education | -0.060 | 0.020 | -3.006 | 0.003 | -0.060 | -0.113 |
| Living Conditions | 0.003 | 0.019 | 0.160 | 0.873 | 0.005 | 0.007 |
| **anxiety** ~ |  |  |  |  |  |  |
| Health before COVID19 | -1.245 | 0.263 | -4.741 | 0.000 | -0.185 | -0.345 |
| Country (residence) | -0.179 | 0.064 | -2.798 | 0.005 | -0.179 | -0.139 |
| Age | -0.005 | 0.001 | -3.849 | 0.000 | -0.005 | -0.148 |
| Gender | -0.049 | 0.054 | -0.907 | 0.364 | -0.049 | -0.039 |
| Highest education | -0.062 | 0.016 | -3.790 | 0.000 | -0.062 | -0.162 |
| Living Conditions | -0.007 | 0.015 | -0.481 | 0.630 | -0.013 | -0.024 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| Health before COVID19 | -2.342 | 0.554 | -4.225 | 0.000 | -0.348 | -0.358 |
| Country (residence) | -0.139 | 0.131 | -1.062 | 0.288 | -0.139 | -0.060 |
| Age | -0.006 | 0.003 | -2.025 | 0.043 | -0.006 | -0.089 |
| Gender | -0.261 | 0.101 | -2.590 | 0.010 | -0.261 | -0.115 |
| Highest education | -0.135 | 0.033 | -4.115 | 0.000 | -0.135 | -0.194 |
| Living Conditions | -0.039 | 0.026 | -1.481 | 0.139 | -0.070 | -0.072 |
| **Media** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.303 | 0.192 | -1.583 | 0.113 | -0.045 | -0.097 |
| Country (residence) | -0.068 | 0.052 | -1.309 | 0.191 | -0.068 | -0.061 |
| Age | -0.000 | 0.002 | -0.135 | 0.893 | -0.000 | -0.007 |
| Gender | -0.174 | 0.051 | -3.382 | 0.001 | -0.174 | -0.160 |
| Highest education | -0.039 | 0.016 | -2.369 | 0.018 | -0.039 | -0.116 |
| Living Conditions | -0.024 | 0.014 | -1.639 | 0.101 | -0.042 | -0.091 |
| **Drugs** ~ | |  |  |  |  |  |
| Health before COVID19 | -0.489 | 0.157 | -3.120 | 0.002 | -0.073 | -0.194 |
| Country (residence) | -0.008 | 0.045 | -0.179 | 0.858 | -0.008 | -0.009 |
| Age | 0.002 | 0.001 | 1.468 | 0.142 | 0.002 | 0.067 |
| Gender | -0.015 | 0.042 | -0.353 | 0.724 | -0.015 | -0.017 |
| Highest education | -0.040 | 0.013 | -3.036 | 0.002 | -0.040 | -0.150 |
| Living Conditions | -0.024 | 0.011 | -2.207 | 0.027 | -0.042 | -0.113 |
| **Alcohol** ~ | |  |  |  |  |  |
| Health before COVID19 | 2.759 | 1.138 | 2.425 | 0.015 | 0.410 | 0.182 |
| Country (residence) | 0.056 | 0.266 | 0.210 | 0.834 | 0.056 | 0.010 |
| Age | 0.023 | 0.008 | 2.958 | 0.003 | 0.023 | 0.149 |
| Gender | -0.458 | 0.246 | -1.864 | 0.062 | -0.458 | -0.087 |
| Highest education | 0.218 | 0.080 | 2.728 | 0.006 | 0.218 | 0.135 |
| Living Conditions | 0.077 | 0.066 | 1.168 | 0.243 | 0.138 | 0.061 |
| **Exercise** ~ | |  |  |  |  |  |
| Health before COVID19 | 0.182 | 0.481 | 0.379 | 0.705 | 0.027 | 0.024 |
| Country (residence) | -0.053 | 0.145 | -0.363 | 0.716 | -0.053 | -0.020 |
| Age | 0.002 | 0.004 | 0.486 | 0.627 | 0.002 | 0.026 |
| Gender | -0.050 | 0.134 | -0.374 | 0.708 | -0.050 | -0.019 |
| Highest education | 0.140 | 0.036 | 3.887 | 0.000 | 0.140 | 0.175 |
| Living Conditions | 0.030 | 0.039 | 0.766 | 0.444 | 0.054 | 0.049 |
| **Sleep during week** ~ | |  |  |  |  |  |
| Health before COVID19 | 0.190 | 0.172 | 1.107 | 0.268 | 0.028 | 0.070 |
| Country (residence) | 0.053 | 0.051 | 1.037 | 0.300 | 0.053 | 0.055 |
| Age | -0.001 | 0.001 | -0.600 | 0.549 | -0.001 | -0.026 |
| Gender | 0.066 | 0.046 | 1.441 | 0.150 | 0.066 | 0.071 |
| Highest education | 0.038 | 0.014 | 2.687 | 0.007 | 0.038 | 0.131 |
| Living Conditions | 0.004 | 0.012 | 0.357 | 0.721 | 0.007 | 0.018 |
| **Health before COVI19** ~ | |  |  |  |  |  |
| Country (residence) | 0.046 | 0.022 | 2.062 | 0.039 | 0.308 | 0.128 |
| Age | 0.001 | 0.001 | 1.487 | 0.137 | 0.006 | 0.091 |
| Gender | 0.008 | 0.019 | 0.429 | 0.668 | 0.054 | 0.023 |
| Highest education | -0.009 | 0.006 | -1.455 | 0.146 | -0.059 | -0.082 |
| Living Conditions | -0.001 | 0.006 | -0.195 | 0.846 | -0.014 | -0.014 |
| **depression** ~ | |  |  |  |  |  |
| Social adversity (c1) | 0.552 | 0.035 | 15.699 | 0.000 | 0.552 | 0.747 |
| **anxiet**y ~ |  |  |  |  |  |  |
| Social adversity (c2) | 0.287 | 0.030 | 9.465 | 0.000 | 0.287 | 0.535 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| Social adversity (c3) | 0.328 | 0.062 | 5.315 | 0.000 | 0.328 | 0.337 |
| **Media** ~ | |  |  |  |  |  |
| Social adversity (a1) | 0.051 | 0.027 | 1.915 | 0.056 | 0.051 | 0.111 |
| **Drugs** ~ | |  |  |  |  |  |
| Social adversity (a2) | 0.058 | 0.024 | 2.386 | 0.017 | 0.058 | 0.154 |
| **Alcohol** ~ | |  |  |  |  |  |
| Social adversity (a3) | 0.053 | 0.135 | 0.395 | 0.693 | 0.053 | 0.024 |
| **Exercise** ~ | |  |  |  |  |  |
| Social adversity (a4) | -0.048 | 0.061 | -0.782 | 0.434 | -0.048 | -0.043 |
| **Sleep during week** ~ | |  |  |  |  |  |
| Social adversity (a5) | -0.095 | 0.024 | -4.048 | 0.000 | -0.095 | -0.238 |
| **depression** ~ | |  |  |  |  |  |
| Media (b1) | 0.058 | 0.060 | 0.969 | 0.333 | 0.058 | 0.037 |
| Drugs (b2) | 0.088 | 0.083 | 1.064 | 0.287 | 0.088 | 0.045 |
| Alcohol (b3) | 0.019 | 0.013 | 1.443 | 0.149 | 0.019 | 0.058 |
| Exercise (b4) | -0.006 | 0.024 | -0.260 | 0.795 | -0.006 | -0.009 |
| Sleep during week(b5) | 0.013 | 0.075 | 0.180 | 0.857 | 0.013 | 0.007 |
| **anxiety** ~ |  |  |  |  |  |  |
| Media (b6) | 0.087 | 0.046 | 1.894 | 0.058 | 0.087 | 0.076 |
| Drug (b7) | -0.021 | 0.075 | -0.283 | 0.777 | -0.021 | -0.015 |
| Alcohol (b8) | 0.007 | 0.010 | 0.658 | 0.511 | 0.007 | 0.028 |
| Exercise (b9) | 0.049 | 0.019 | 2.542 | 0.011 | 0.049 | 0.102 |
| Sleep during week (b10) | 0.033 | 0.062 | 0.529 | 0.597 | 0.033 | 0.025 |
| **SPQ\_total** ~ | |  |  |  |  |  |
| Media (b11) | -0.001 | 0.092 | -0.016 | 0.987 | -0.001 | -0.001 |
| Drug (b12) | 0.113 | 0.135 | 0.836 | 0.403 | 0.113 | 0.044 |
| Alcohol (b13) | -0.017 | 0.020 | -0.869 | 0.385 | -0.017 | -0.040 |
| Exercise (b14) | 0.045 | 0.042 | 1.083 | 0.279 | 0.045 | 0.052 |
| Sleep during week (b15) | 0.051 | 0.140 | 0.363 | 0.717 | 0.051 | 0.021 |
|  |  |  |  |  |  |  |
| **Covariances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| .anxiety ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.132 | 0.024 | 5.514 | 0.000 | 0.132 | 0.438 |
| .depression ~~ |  |  |  |  |  |  |
| .SPQ\_total | 0.073 | 0.024 | 2.967 | 0.003 | 0.073 | 0.220 |
| .anxiety | 0.048 | 0.014 | 3.354 | 0.001 | 0.048 | 0.302 |
| livCond ~~ |  |  |  |  |  |  |
| Social adversity | -0.251 | 0.119 | -2.109 | 0.035 | -0.141 | -0.141 |
|  |  |  |  |  |  |  |
| **Variances:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| Social adversity | 1.000 |  |  |  | 1.000 | 1.000 |
| .Number rooms | 1.196 | 0.312 | 3.833 | 0.000 | 1.196 | 0.273 |
| .Number people per household | 0.894 | 0.063 | 14.231 | 0.000 | 0.894 | 0.650 |
| .Living Area | 1.426 | 0.102 | 13.971 | 0.000 | 1.426 | 0.790 |
| .Garden\_yard | 0.139 | 0.012 | 11.508 | 0.000 | 0.139 | 0.618 |
| .Regular treatment physical illness | 0.091 | 0.009 | 9.569 | 0.000 | 0.091 | 0.805 |
| .Mental health status before COVID19 | 0.357 | 0.098 | 3.624 | 0.000 | 0.357 | 0.347 |
| .Physical health status before COVID19 | 0.489 | 0.060 | 8.097 | 0.000 | 0.489 | 0.570 |
| .Lonely during COVID19 | 0.908 | 0.088 | 10.365 | 0.000 | 0.908 | 0.535 |
| .Negative Thoughts during COVID19 | 0.415 | 0.054 | 7.623 | 0.000 | 0.415 | 0.318 |
| .stressful social relationships changes | 1.047 | 0.085 | 12.263 | 0.000 | 1.047 | 0.654 |
| .depression | 0.173 | 0.022 | 7.971 | 0.000 | 0.173 | 0.317 |
| .anxiety | 0.144 | 0.017 | 8.434 | 0.000 | 0.144 | 0.503 |
| .SPQ\_total | 0.632 | 0.062 | 10.163 | 0.000 | 0.632 | 0.670 |
| .Media | 0.199 | 0.009 | 21.337 | 0.000 | 0.199 | 0.927 |
| .Drug | 0.126 | 0.011 | 11.602 | 0.000 | 0.126 | 0.903 |
| .Alcohol | 4.635 | 0.202 | 22.916 | 0.000 | 4.635 | 0.911 |
| .Exercise | 1.185 | 0.084 | 14.115 | 0.000 | 1.185 | 0.962 |
| .Sleep during week | 0.147 | 0.010 | 14.163 | 0.000 | 0.147 | 0.915 |
| Living Conditons | 3.189 | 0.415 | 7.683 | 0.000 | 1.000 | 1.000 |
| .health before COVID19 | 0.021 | 0.008 | 2.745 | 0.006 | 0.966 | 0.966 |
|  |  |  |  |  |  |  |
| **Defined Parameters:** |  |  |  |  |  |  |
|  | Estimate | Std.Err | z-value | P(>|z|) | Std.lv | Std.all |
| indirect1 | 0.003 | 0.003 | 0.855 | 0.393 | 0.003 | 0.004 |
| indirect2 | 0.005 | 0.006 | 0.911 | 0.362 | 0.005 | 0.007 |
| indirect3 | 0.001 | 0.003 | 0.322 | 0.747 | 0.001 | 0.001 |
| indirect4 | 0.000 | 0.002 | 0.156 | 0.876 | 0.000 | 0.000 |
| indirect5 | -0.001 | 0.008 | -0.166 | 0.868 | -0.001 | -0.002 |
| indirect6 | 0.004 | 0.003 | 1.305 | 0.192 | 0.004 | 0.008 |
| indirect7 | -0.001 | 0.005 | -0.260 | 0.795 | -0.001 | -0.002 |
| indirect8 | 0.000 | 0.002 | 0.200 | 0.842 | 0.000 | 0.001 |
| indirect9 | -0.002 | 0.003 | -0.699 | 0.485 | -0.002 | -0.004 |
| indirect10 | -0.003 | 0.006 | -0.492 | 0.623 | -0.003 | -0.006 |
| indirect11 | -0.000 | 0.006 | -0.013 | 0.989 | -0.000 | -0.000 |
| indirect12 | 0.007 | 0.009 | 0.746 | 0.455 | 0.007 | 0.007 |
| indirect13 | -0.001 | 0.004 | -0.240 | 0.810 | -0.001 | -0.001 |
| indirect14 | -0.002 | 0.004 | -0.515 | 0.606 | -0.002 | -0.002 |
| indirect15 | -0.005 | 0.014 | -0.337 | 0.736 | -0.005 | -0.005 |
| total1 | 0.555 | 0.035 | 15.789 | 0.000 | 0.555 | 0.751 |
| total2 | 0.557 | 0.035 | 15.756 | 0.000 | 0.557 | 0.754 |
| total3 | 0.553 | 0.035 | 15.671 | 0.000 | 0.553 | 0.748 |
| total4 | 0.552 | 0.035 | 15.732 | 0.000 | 0.552 | 0.747 |
| total5 | 0.550 | 0.034 | 15.997 | 0.000 | 0.550 | 0.745 |
| total6 | 0.291 | 0.030 | 9.581 | 0.000 | 0.291 | 0.544 |
| total7 | 0.285 | 0.030 | 9.452 | 0.000 | 0.285 | 0.533 |
| total8 | 0.287 | 0.030 | 9.515 | 0.000 | 0.287 | 0.536 |
| total9 | 0.284 | 0.030 | 9.353 | 0.000 | 0.284 | 0.531 |
| total10 | 0.283 | 0.029 | 9.849 | 0.000 | 0.283 | 0.530 |
| total11 | 0.328 | 0.061 | 5.335 | 0.000 | 0.328 | 0.337 |
| total12 | 0.334 | 0.062 | 5.422 | 0.000 | 0.334 | 0.344 |
| total13 | 0.327 | 0.061 | 5.334 | 0.000 | 0.327 | 0.336 |
| total14 | 0.325 | 0.062 | 5.277 | 0.000 | 0.325 | 0.335 |
| total15 | 0.323 | 0.056 | 5.801 | 0.000 | 0.323 | 0.332 |
|  |  |  |  |  |  |  |

# Model with reduced in complexity, with one predictor and one outcome without control variables

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1m. Model fit for model with reduced complexity, one predictor, one outcome, five mediators, example for timepoint 1** | | | | | | |
|  | Fit index: | Teststatistic | DF | *X2* | CFI | RMSEA |
| Predictor | Outcome |  |  |  |  |  |
| COVID-19 related life concerns | SPQ | 40.31 | 22 | .010 | 0.922 | 0.042 |
|  | Anxiety | 61.28 | 22 | .000 | 0.843 | 0.061 |
|  | Depression | 83.31 | 22 | .000 | 0.817 | 0.076 |
| Social adversity | SPQ | 46.51 | 22 | .002 | 0.938 | 0.048 |
|  | Anxiety | 43.13 | 22 | .005 | 0.955 | 0.045 |
|  | Depression | 46.71 | 22 | .002 | 0.962 | 0.048 |
| DF: degrees of freedom, *X2:* Chi squared, CFI: Comparative Fit Index; RMSEA: Root Mean Square Error of Approximation | | | | | | |

# Alternative models

## COVID-19 related life concerns’ model – alternative models

The alternative models for the different samples at the four different time points evaluating the effect of ‘COVID-19 related life concerns’ -> schizotypy/anxiety/depression -> alcohol/media/drugs/sleep/exercise revealed worse fit than our first proposed model of of ‘COVID-19 related life concerns’ -> alcohol/media/drugs/sleep/exercise -> schizotyoy/anxiety/depression. See **Suppl.** **Table 7,** for AIC/BIC in comparison.

## ‘Social adversity’ Model – alternative models

The alternative models evaluating the effect of ‘social adversity -> schizotypy/anxiety/depression -> alcohol/media/drugs/sleep/exercise revealed worse fit than our first proposed model of of ‘social adversity’ -> alcohol/media/drugs/sleep/exercise -> schizotypy/anxiety/depression. See **Suppl.** **Table 7** for AIC/BIC in comparison.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1n. Model comparison for original and alternative model.** | | | | | | | | |
|  | Co19 life concerns | | alternative model | | Social adversity | | alternative model | |
| Timepoint | AIC | BIC | AIC | BIC | AIC | BIC | AIC | BIC |
| 1 | 20691.60 | 21142.37 | 20753.43 | 21233.42 | 20394.58 | 20845.35 | 20443.93 | 20923.92 |
| 2 | 17023.27 | 17462.41 | 17082.42 | 17550.02 | 16811.99 | 17249.11 | 16865.25 | 17330.70 |
| 3 | 21325.87 | 21780.18 | 21464.28 | 21948.03 | 20988.85 | 21441.40 | 21109.03 | 21590.92 |
| 4 | 18711.20 | 19155.48 | 18791.80 | 19264.87 | 18264.50 | 18705.88 | 18326.27 | 18796.25 |
| AIC: Akaike information criterion, BIC: Bayesian information criterion | | | | | | | | |

# **Exploratory model COVID-stress -> Anxiety/Depression -> SPQ**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Suppl. file 1o. Overview of the model fit indices separated by exogeneous latent variable and time point** | | | | | | | | | | |
|  |  |  |  | exact modelfit |  | relativ modelfit | |  | absolute modelfit | |
|  |  | Teststatistic | DF | *X2* |  | CFI | TLI |  | RMSEA | |
| Predictor | Timepoint |  |  |  |  |  |  |  |  | |
| COVID-19 related life concerns | 1 | 396.76 | 90 | .000 |  | 0.838 | 0.765 |  | 0.084 | |
| 2 | 359.18 | 90 | .000 |  | 0.866 | 0.807 |  | 0.083 | |
| 3 | 359.08 | 90 | .000 |  | 0.880 | 0.827 |  | 0.077 | |
| 4 | 332.55 | 90 | .000 |  | 0.871 | 0.814 |  | 0.077 | |
| Social adversity | 1 | 416.14 | 90 | .000 |  | 0.853 | 0.787 |  | 0.087 | |
| 2 | 413.23 | 90 | .000 |  | 0.854 | 0.790 |  | 0.092 | |
| 3 | 411.72 | 90 | .000 |  | 0.868 | 0.809 |  | 0.085 | |
| 4 | 347.08 | 90 | .000 |  | 0.880 | 0.826 |  | 0.081 | |
| DF: degree of freedom, *X2*: Chi squared test, CFI: comparative fit index, TLI: Tucker-Lewis index, RMSEA: root mean square error of approximation | | | | | | | | | |  |