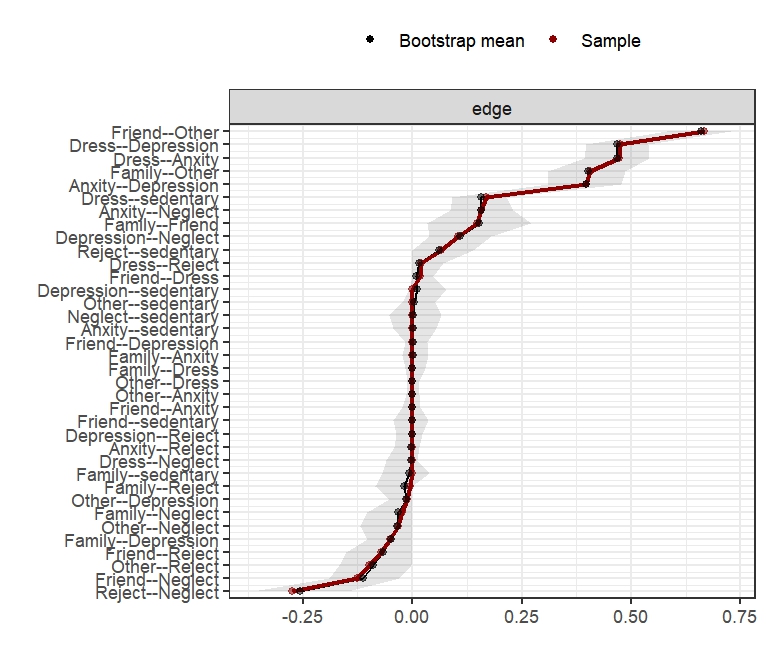
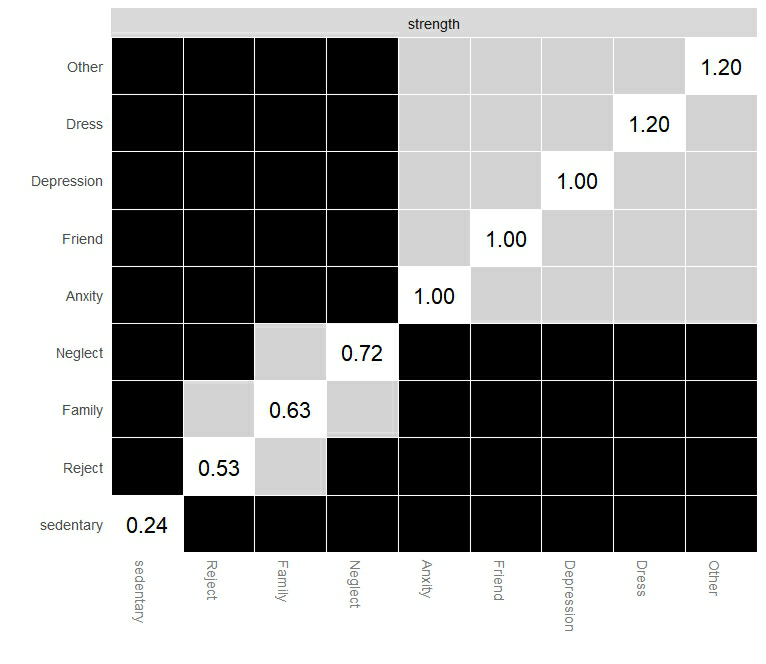
**Supplementary materials**

Supplementary Table S1. Betweenness centrality, Closeness centrality, Strength centrality, Expected Influence centrality (These are the centrality indicators of each node)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nodes | Betweenness | Closeness | Strength | Expected Influence |
| Family | 0 | 0.0086 | 0.632 | 0.4765 |
| Friend | 9 | 0.0105 | 1.0288 | 0.6365 |
| Other | 6 | 0.01 | 1.2153 | 0.9329 |
| Dress | 6 | 0.0117 | 1.1519 | 1.1519 |
| Anxiety | 13 | 0.0129 | 1.0263 | 1.0263 |
| Depression | 0 | 0.0112 | 1.0376 | 0.9131 |
| Reject | 0 | 0.0114 | 0.5324 | -0.3605 |
| Neglect | 15 | 0.0141 | 0.716 | -0.1945 |
| Sedentary | 0 | 0.0081 | 0.2357 | 0.2357 |

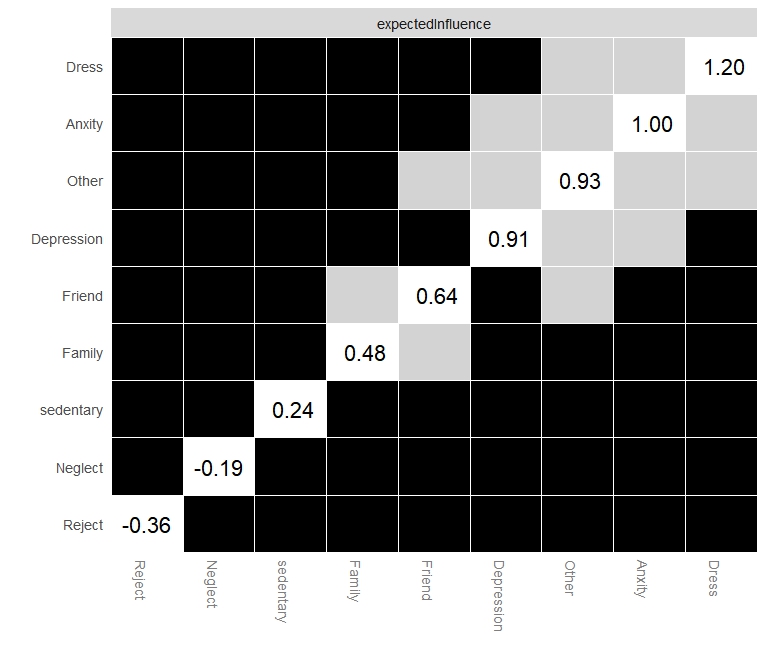


Supplementary Figure S1 Bootstrap confidence intervals for the edge. Black dots represent the values of each edge weight, arranged from highest to lowest. The gray area represents the 95% confidence interval of the edge weights estimated through a non - parametric bootstrap procedure.



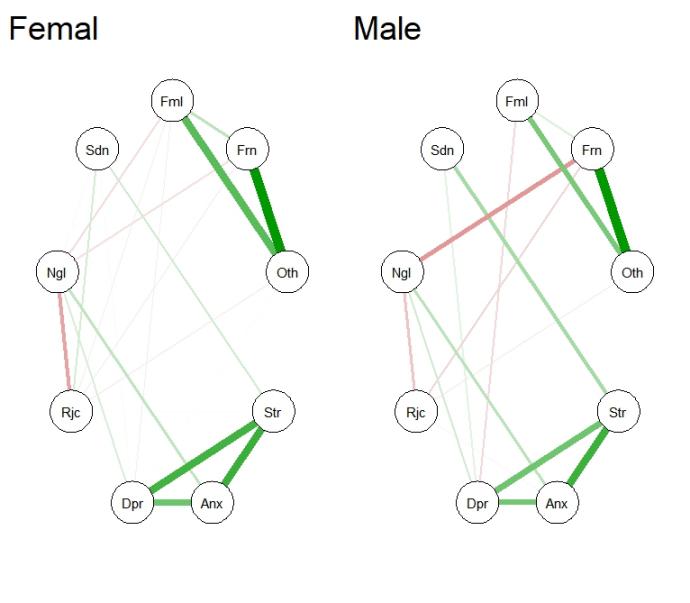
Supplementary Figure S2. Non-parametric bootstrap difference test for Strength

Note: Gray boxes signify edges that exhibit no significant difference from each other, while black boxes indicate edges that show a significant difference from each other at a significance level of α = 0.05.

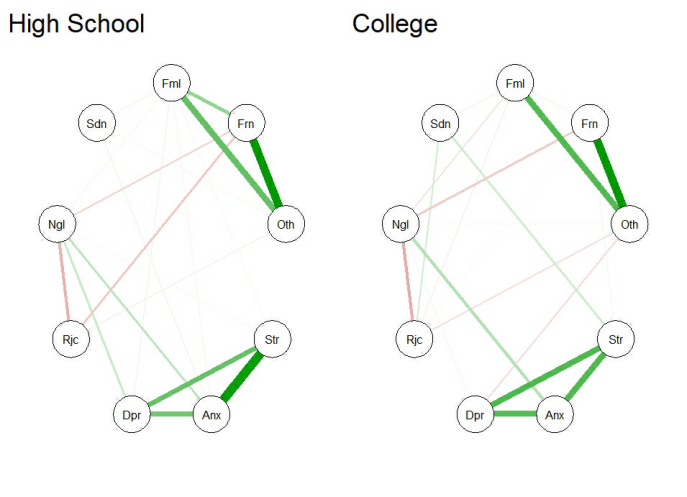


Supplementary Figure S3. Non-parametric bootstrap difference test for EI

Note: Gray boxes signify edges that exhibit no significant difference from each other, while black boxes indicate edges that show a significant difference from each other at a significance level of α = 0.05.



Supplementary Figure S4 Network structure of sedentary behavior, social support, social exclusion and psychological distress in men and women



Supplementary Figure S5 The network structure of sedentary behavior, social support, social exclusion, and psychological distress in high school and university settings