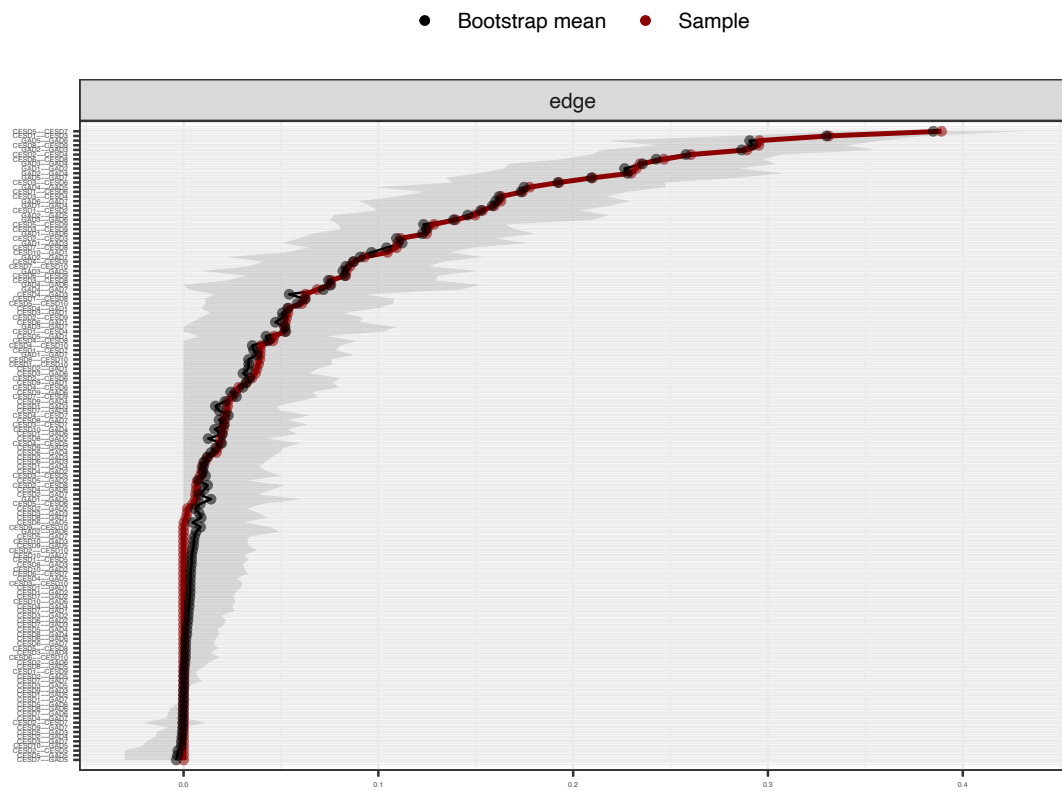


Supplementary materials

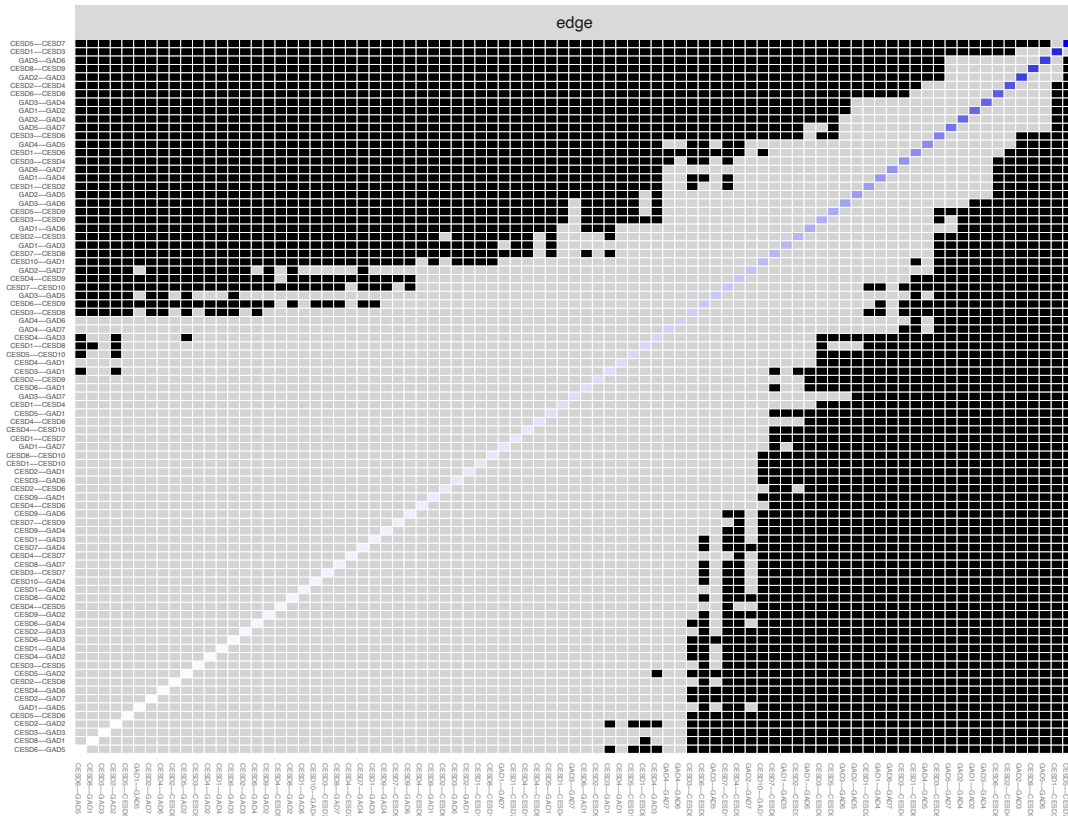
Supplementary Table 1 The edge weights within the depression-anxiety network

|        | CESD1 | CESD2 | CSED3 | CESD4 | CESD5 | CESD6 | CESD7 | CESD8 | CESD9 | CESD10 | GAD1 | GAD2 | GAD3 | GAD4 | GAD5 | GAD6 | GAD7 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|------|------|------|
| CESD1  | 0     |       |       |       |       |       |       |       |       |        |      |      |      |      |      |      |      |
| CESD2  | 0.15  | 0     |       |       |       |       |       |       |       |        |      |      |      |      |      |      |      |
| CESD3  | 0.33  | 0.11  | 0     |       |       |       |       |       |       |        |      |      |      |      |      |      |      |
| CESD4  | 0.05  | 0.26  | 0.16  | 0     |       |       |       |       |       |        |      |      |      |      |      |      |      |
| CESD5  | 0     | 0     | 0.01  | 0.02  | 0     |       |       |       |       |        |      |      |      |      |      |      |      |
| CESD6  | 0.17  | 0.04  | 0.19  | 0.03  | 0.01  | 0     |       |       |       |        |      |      |      |      |      |      |      |
| CESD7  | 0.04  | 0     | 0.02  | 0.02  | 0.39  | 0     | 0     |       |       |        |      |      |      |      |      |      |      |
| CESD8  | 0.06  | 0.01  | 0.08  | 0.05  | 0     | 0.25  | 0.11  | 0     |       |        |      |      |      |      |      |      |      |
| CESD9  | 0     | 0.05  | 0.13  | 0.09  | 0.13  | 0.08  | 0.03  | 0.30  | 0     |        |      |      |      |      |      |      |      |
| CESD10 | 0.04  | 0     | 0     | 0.04  | 0.06  | 0     | 0.09  | 0.04  | 0     | 0      |      |      |      |      |      |      |      |
| GAD1   | 0     | 0.04  | 0.05  | 0.05  | 0.05  | 0.05  | 0     | 0.01  | 0.03  | 0.10   | 0    |      |      |      |      |      |      |
| GAD2   | 0     | 0.01  | 0     | 0.01  | 0.01  | 0     | 0     | 0.02  | 0.02  | 0      | 0.23 | 0    |      |      |      |      |      |
| GAD3   | 0.02  | 0.01  | 0.01  | 0.06  | 0     | 0.01  | 0     | 0     | 0     | 0      | 0.11 | 0.29 | 0    |      |      |      |      |
| GAD4   | 0.01  | 0     | 0     | 0     | 0     | 0.02  | 0.02  | 0     | 0.02  | 0.02   | 0.16 | 0.23 | 0.23 | 0    |      |      |      |
| GAD5   | 0     | 0     | 0     | 0     | 0     | 0.01  | 0     | 0     | 0     | 0      | 0.01 | 0.15 | 0.08 | 0.18 | 0    |      |      |
| GAD6   | 0.02  | 0     | 0.04  | 0.01  | 0     | 0     | 0     | 0     | 0.03  | 0      | 0.12 | 0    | 0.14 | 0.07 | 0.30 | 0    |      |
| GAD7   | 0     | 0.01  | 0     | 0     | 0     | 0     | 0     | 0.02  | 0     | 0      | 0.04 | 0.09 | 0.05 | 0.07 | 0.21 | 0.16 | 0    |

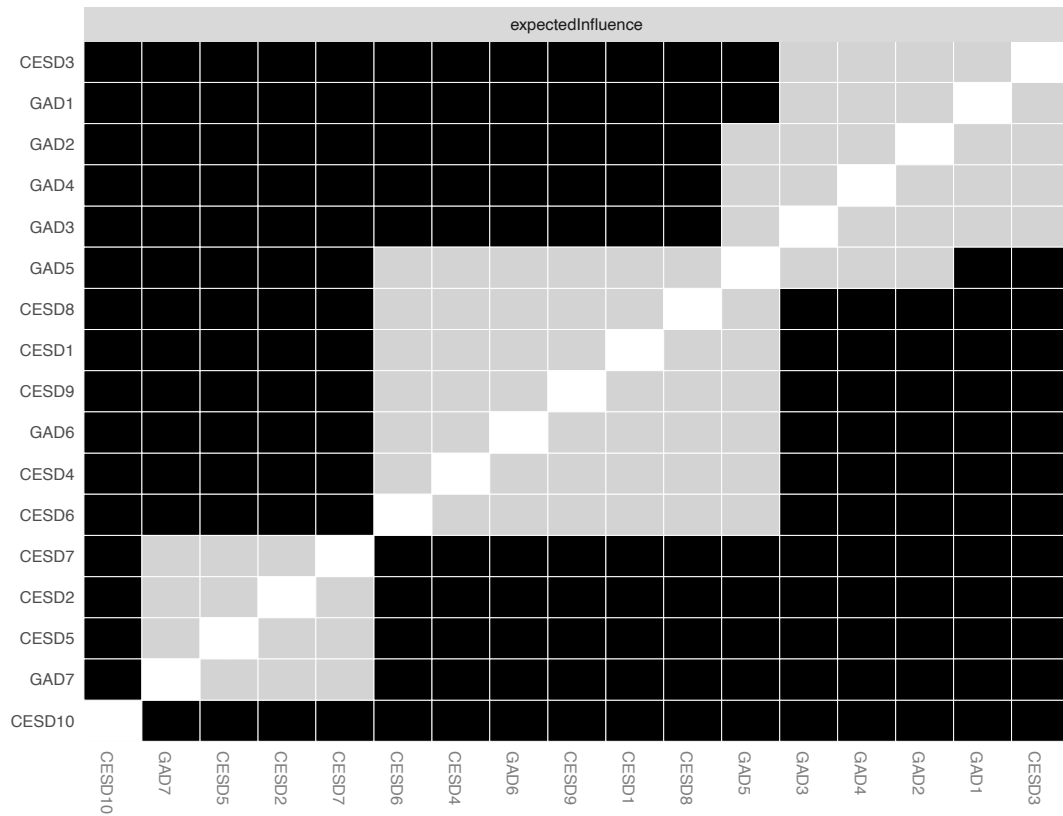


Supplementary Figure 1 Accuracy of edge weights in the network

*Note:* The red line depicts the sample edge weights, the black line represents bootstrap means, and the gray bar depicts the bootstrapped confidence interval.

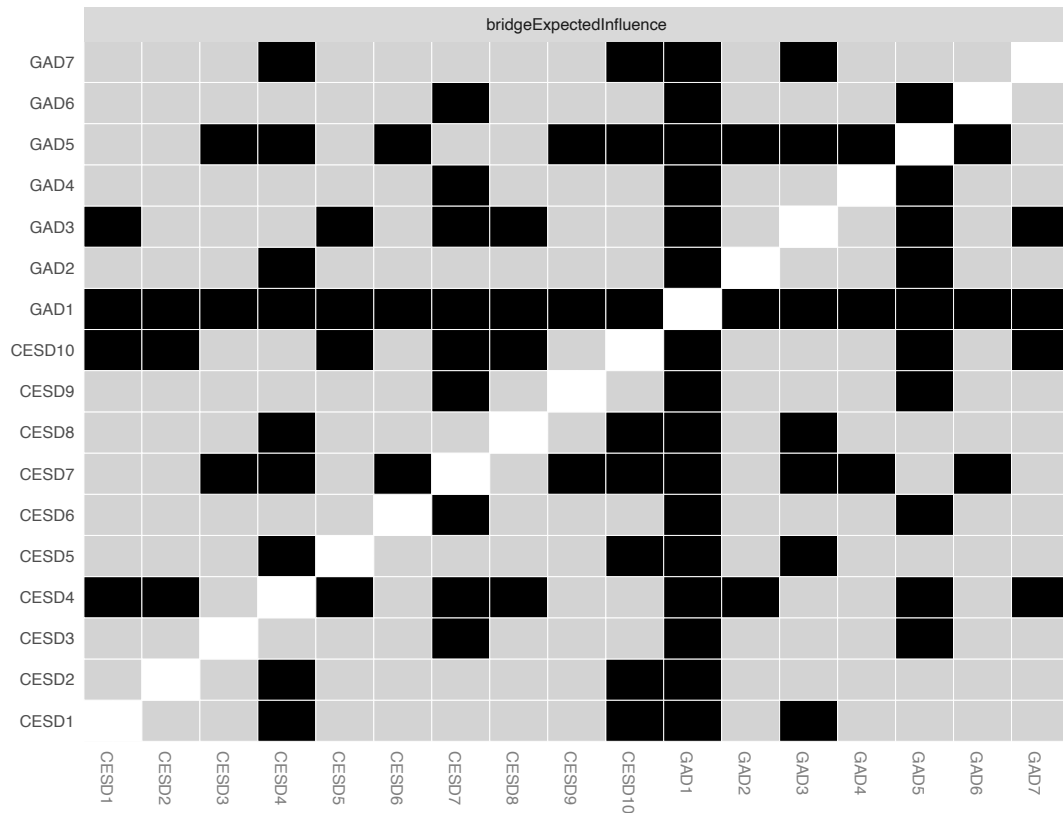


Supplementary Figure 2 Bootstrapped difference test for edge weights in the network  
*Note:* Gray boxes indicate edge weights that do not differ significantly from one another, while black boxes indicate edge weights that do differ significantly. Blue boxes on the diagonal correspond to edge weights with positive correlations. All edge weights were positive.



Supplementary Figure 3 Bootstrapped difference test for node expected influences in the network

*Note:* Gray boxes indicate node expected influences that do not differ significantly from one another, while black boxes indicate node expected influences that do differ significantly.



Supplementary Figure 4 Bootstrapped difference test for node bridge expected influences in the network

Note: Gray boxes indicate node bridge expected influences that do not differ significantly from one another, while black boxes indicate node bridge expected influences that do differ significantly.