Supplementary Material

Table S1. Edge weights matrix of negative cognitive processing bias, self-control, and depression network

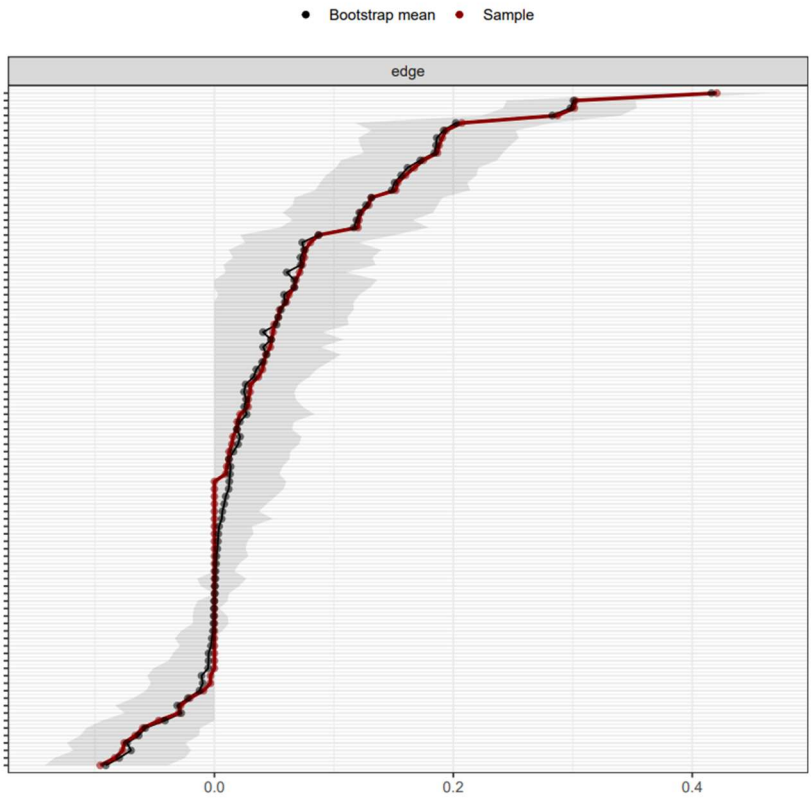
Figure S1 Nonparametric bootstrapped difference test

Table S1. Edge weights matrix of negative cognitive processing bias, self-control, and depression network

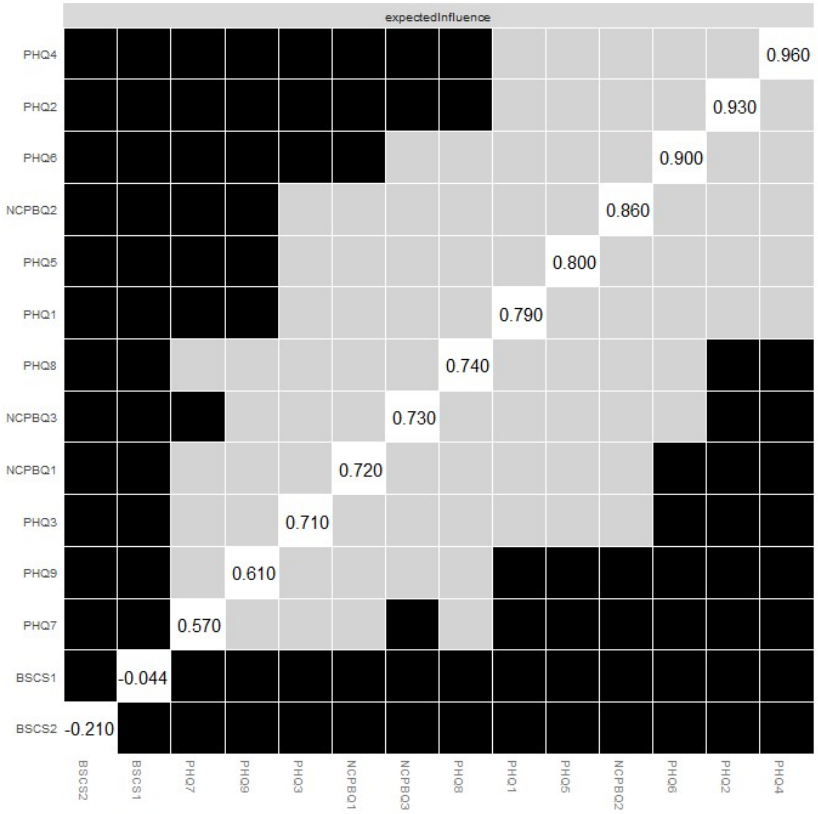
variable	PHQ1	PHQ2	PHQ3	PHQ4	PHQ5	PHQ6	PHQ7	PHQ8	PHQ9	NCPBQ1	NCPBQ2	NCPBQ3	BSCS1	BSCS2
PHQ1	0													
PHQ2	0.175	0												
PHQ3	0.043	0.062	0											
PHQ4	0.287	0.131	0.194	0										
PHQ5	0.055	0.076	0.152	0.188	0									
PHQ6	0.129	0.191	0	0.060	0.067	0								
PHQ7	0.153	0.022	0.074	0.050	0.087	0.120	0							
PHQ8	0.019	0.054	0.075	0	0.123	0.068	0.187	0						
PHQ9	0	0.121	0.041	0	0.048	0.160	0	0.207	0					
NCPBQ1	0.030	0.015	0.040	0	0.049	0.028	0	0	0.030	0				
NCPBQ2	0	0.016	0.019	0.037	0.010	0.080	0	0	0	0.302	0			
NCPBQ3	0	0.071	0.012	0.047	0	0	0.028	0	0.009	0.301	0.421	0		
BSCS1	-0.077	0	0	0	-0.003	0	-0.083	0.012	0	0	0	-0.060	0	
BSCS2	-0.021	0	0	-0.030	-0.047	-0.003	-0.066	0	-0.009	-0.076	-0.028	-0.100	0.167	0

Figure S1 Nonparametric bootstrapped difference test

A



B



C

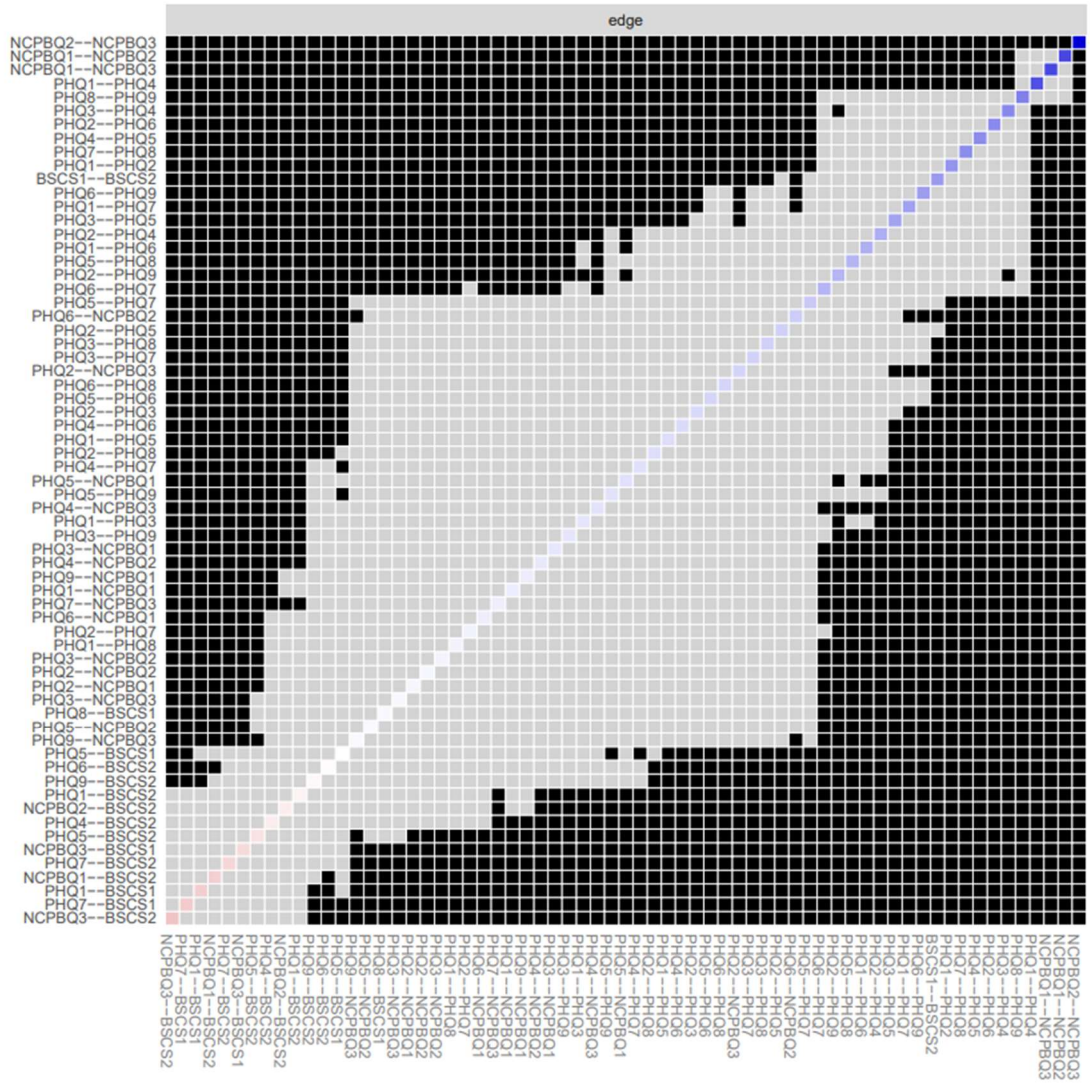


Figure S1 Panel A, Panel B, and Panel C: Nonparametric bootstrapped difference test for edges and nodes. *Note:* Panel A: the x-axis represents the value of edge weights, and the y-axis represents edges sorted from largest to smallest. The gray area represents the 95% bootstrapped confidence intervals, and a narrower gray area represents a more reliable estimate of edge weights. Panel B: Gray boxes indicate no significant difference between nodes, whereas black boxes indicate a significant difference ($\alpha = 0.05$). The diagonal values represent the EI values of each node. Panel C: Gray boxes indicate no significant difference between edges, whereas black boxes indicate a significant difference ($\alpha = 0.05$). Blue boxes and red boxes represent positive and negative edge weights between two nodes, respectively.