

Supplementary Table 3. Edge invariance test between IGD group and SMA group ($p < 0.05$)

Var1	Var2	p
GAD6	IGD2	<0.001
IGD1	IGD3	<0.001
PHQ4	IGD5	<0.001
GAD6	IGD8	<0.001
PHQ4	IGD9	<0.001
GAD2	IGD9	<0.001
SMA1	SMA2	<0.001
PHQ7	SMA3	<0.001
SMA2	SMA3	<0.001
IGD9	SMA6	<0.001
SMA5	SMA6	<0.001
GAD4	PSQI2	<0.001
SMA2	PSQI2	<0.001
PSQI2	PSQI3	<0.001
PSQI3	PSQI4	<0.001
IGD1	PSQI7	<0.001
IGD8	PSQI7	<0.001
PSQI2	PSQI7	<0.001
IGD3	IGD8	0.001
IGD2	IGD4	0.005
PHQ6	IGD8	0.005
PHQ3	IGD9	0.006
SMA2	SMA4	0.006
PHQ4	IGD2	0.007
PHQ5	PSQI7	0.007
PSQI3	PSQI7	0.008
PHQ5	IGD9	0.009
PHQ2	PHQ4	0.010
PHQ2	IGD8	0.010
SMA4	SMA6	0.010
GAD3	PSQI5	0.010
PHQ9	PSQI4	0.014
IGD1	IGD4	0.017
IGD5	IGD6	0.017
SMA2	SMA6	0.017
PHQ2	PHQ3	0.018
GAD5	IGD6	0.018
PHQ1	GAD1	0.019
PHQ9	GAD6	0.022
GAD1	IGD8	0.022
PHQ3	PSQI4	0.023
GAD5	GAD6	0.029
GAD7	SMA3	0.029
PHQ7	GAD6	0.032
PHQ7	PSQI4	0.034
PHQ5	GAD3	0.037
PHQ6	GAD5	0.039
GAD1	GAD6	0.040
PHQ8	GAD2	0.041
SMA6	PSQI7	0.045
PHQ7	GAD2	0.047

PHQ1–9 refers to the items of PHQ-9, GAD1–7 refers to the items of GAD-7, IGD1–9 refers to the items of IGDS9-SF, SMA1–6 refers to the items of BSMAS, and PSQI1–7 refers to the seven factor score in scale. IGD, Internet Gaming Addiction; SMA, Social Media Addiction; PHQ-9, Patient Health Questionnaire-9; GAD-7, Generalized Anxiety Disorder 7-item; IGDS9-SF, Internet Gaming Disorder Scale-Short Form; BSMAS, Bergen Social Media Addiction Scale