

**Supplementary Table 4.** MMPI Content, Supplementary and Harris-Lingoes Scales of IBS Subtypes Patients

Variable	IBS-C	IBS-D	IBS-M	IBS-U	P-value
Content scales					
Anxiety (ANX)	57.4 ± 12.2	57.5 ± 11.3	62.6 ± 11.2	55.9 ± 14.6	0.031
Fears (FRS)	56.1 ± 12.0	59.0 ± 14.0	59.0 ± 11.1	56.8 ± 14.1	0.439
Obsessiveness (OBS)	55.3 ± 12.3	54.4 ± 11.8	60.8 ± 12.9	54.9 ± 12.3	0.020
Depression (DEP)	55.9 ± 12.6	57.9 ± 12.4	62.5 ± 11.9	55.0 ± 14.7	0.013
Health concern (HEA)	70.9 ± 12.4	70.7 ± 11.4	75.7 ± 11.6	68.1 ± 14.4	0.025
Bizarre mentation (BIZ)	55.7 ± 16.0	55.7 ± 15.5	62.4 ± 12.8	54.7 ± 19.7	0.050
Anger (ANG)	51.0 ± 9.7	51.7 ± 10.9	56.4 ± 12.1	53.0 ± 10.8	0.033
Cynicism (CYN)	58.4 ± 13.1	54.7 ± 11.4	62.0 ± 13.2	54.9 ± 13.5	0.009
Antisocial practices (ASP)	52.6 ± 11.6	52.1 ± 10.3	57.0 ± 10.9	50.4 ± 11.1	0.025
Type A behaviors (TPA)	53.1 ± 11.9	51.1 ± 9.7	57.2 ± 12.5	52.1 ± 10.6	0.024
Low self-esteem (LES)	54.4 ± 13.1	54.5 ± 11.7	56.0 ± 12.8	52.5 ± 16.3	0.664
Social discomfort (SOD)	53.0 ± 10.1	55.4 ± 11.5	55.4 ± 11.8	53.1 ± 11.8	0.462
Family problems (FAM)	54.6 ± 11.3	55.4 ± 13.4	58.9 ± 11.1	55.4 ± 13.7	0.245
Work interference (WRK)	57.4 ± 12.6	56.8 ± 11.4	62.1 ± 12.2	55.1 ± 14.6	0.035
Negative treatment indicators (TRT)	58.3 ± 14.0	57.4 ± 13.2	63.4 ± 13.2	56.9 ± 16.8	0.074
Supplementary scales					
Ego strength (Es)	39.6 ± 8.7	38.4 ± 8.2	34.6 ± 7.7	41.3 ± 10.2	0.002
MacAndrew alcoholism revised scale (Mac-R)	51.5 ± 11.0	48.9 ± 11.0	55.3 ± 12.8	50.4 ± 9.7	0.020
Addiction potential scale (APS)	46.9 ± 10.2	46.3 ± 9.8	48.7 ± 11.3	47.1 ± 10.1	0.628
Addiction acknowledgment scale (AAS)	49.1 ± 11.3	54.3 ± 17.6	56.2 ± 13.6	50.8 ± 16.1	0.029
Anxiety scale (A)	59.7 ± 11.3	60.3 ± 11.2	64.1 ± 11.5	56.1 ± 14.3	0.019
Repression scale (R)	53.6 ± 11.4	55.2 ± 8.9	52.8 ± 10.6	53.6 ± 11.3	0.613
Overcontrolled hostility (O-H)	52.4 ± 11.0	53.2 ± 10.6	52.0 ± 10.0	52.5 ± 11.0	0.935
Dominance scale (Do)	43.6 ± 9.8	45.7 ± 8.4	40.1 ± 9.5	46.8 ± 11.9	0.003
Social responsibility scale (Re)	50.5 ± 10.2	50.4 ± 10.7	44.6 ± 12.1	50.4 ± 11.5	0.010
College maladjustment (Mt)	60.4 ± 11.2	59.8 ± 11.7	68.0 ± 12.9	58.0 ± 13.2	< 0.001
Marital distress score (MDS)	56.1 ± 12.9	57.6 ± 14.5	62.5 ± 14.6	57.8 ± 14.8	0.078
Post-traumatic stress disorder scale (PK)	58.3 ± 12.5	58.8 ± 12.5	65.5 ± 12.7	57.5 ± 14.8	0.005
Post-traumatic stress disorder scale (PS)	59.6 ± 13.0	60.4 ± 12.7	66.5 ± 13.4	58.1 ± 15.1	0.009
Masculine gender role (GM)	42.8 ± 8.6	43.3 ± 9.1	39.7 ± 8.0	46.3 ± 11.4	0.009
Feminine gender role (GF)	49.2 ± 11.3	49.1 ± 10.0	45.6 ± 11.4	48.7 ± 10.4	0.230
Harris-Lingoes scales					
Subjective depression (D1)	59.3 ± 11.2	62.1 ± 11.3	65.4 ± 12.6	58.4 ± 14.1	< 0.001
Psychomotor retardation (D2)	54.4 ± 8.4	56.8 ± 8.4	53.1 ± 11.6	52.5 ± 11.7	0.087
Physical malfunctioning (D3)	69.8 ± 12.3	65.3 ± 11.9	71.5 ± 13.0	60.6 ± 13.1	< 0.001
Mental dullness (D4)	57.4 ± 12.8	59.2 ± 12.5	63.8 ± 13.1	58.5 ± 14.7	< 0.001
Brooding (D5)	53.5 ± 11.4	56.4 ± 11.1	59.4 ± 11.1	54.3 ± 13.4	0.001
Denial of social anxiety (Hy1)	48.5 ± 9.6	47.4 ± 10.2	47.0 ± 10.0	49.9 ± 10.8	0.455
Need for affection (Hy2)	45.1 ± 10.2	47.2 ± 10.5	43.5 ± 8.8	47.1 ± 10.5	0.179
Lassitude malaise (Hy3)	66.0 ± 12.7	67.1 ± 13.0	71.8 ± 14.1	63.8 ± 12.7	< 0.001

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Supplementary Table 4. Continued

Variable	IBS-C	IBS-D	IBS-M	IBS-U	P-value
Somatic complaints (Hy4)	63.9 ± 12.0	66.1 ± 12.4	68.4 ± 11.8	60.8 ± 14.0	<0.001
Inhibition of aggression (Hy5)	51.5 ± 10.8	51.1 ± 10.0	49.5 ± 12.3	49.0 ± 8.3	0.630
Familial discord (Pd1)	52.1 ± 10.4	52.3 ± 11.6	53.9 ± 9.9	54.1 ± 13.2	0.154
Authority problems (Pd2)	46.0 ± 8.3	50.3 ± 11.2	50.8 ± 11.2	49.6 ± 9.3	0.037
Social imperturbability (Pd3)	47.9 ± 8.5	47.0 ± 9.9	46.7 ± 11.1	49.3 ± 10.4	0.599
Social alienation (Pd4)	55.7 ± 14.5	55.9 ± 13.3	62.2 ± 13.5	56.1 ± 14.3	<0.001
Self-alienation (Pd5)	54.7 ± 13.4	53.3 ± 11.8	61.3 ± 13.6	54.3 ± 13.1	<0.001
Persecutory ideas (Pa1)	61.4 ± 18.9	60.8 ± 17.1	67.5 ± 18.3	59.3 ± 21.6	0.001
Poignancy (Pa2)	55.5 ± 11.7	56.7 ± 12.2	62.1 ± 13.6	53.3 ± 13.4	<0.001
Naiveté (Pa3)	45.6 ± 9.6	47.0 ± 9.7	45.2 ± 10.0	49.1 ± 10.3	0.302
Social alienation (Sc1)	45.6 ± 9.6	47.0 ± 9.7	45.2 ± 10.0	49.1 ± 10.3	<0.001
Emotional alienation (Sc2)	55.0 ± 11.8	57.0 ± 17.8	62.1 ± 14.5	57.7 ± 17.2	<0.001
Lack of ego mastery, cognitive (Sc3)	58.2 ± 13.8	57.8 ± 13.1	64.4 ± 15.8	56.9 ± 15.6	<0.001
Lack of ego mastery, conative (Sc4)	57.5 ± 12.7	57.1 ± 14.9	64.8 ± 16.0	56.8 ± 14.9	<0.001
Lack of ego mastery, defective inhibition (Sc5)	53.6 ± 13.5	53.5 ± 12.7	59.0 ± 11.4	52.2 ± 15.0	<0.001
Bizarre sensory experiences (Sc6)	61.4 ± 13.9	60.4 ± 13.8	69.4 ± 15.2	58.6 ± 17.5	<0.001
Amorality (Ma1)	51.5 ± 9.4	51.3 ± 11.6	51.6 ± 8.8	49.6 ± 9.7	0.690
Psychomotor acceleration (Ma2)	50.2 ± 9.5	47.1 ± 10.0	50.6 ± 10.5	48.2 ± 9.8	0.035
Imperturbability (Ma3)	49.7 ± 10.7	47.8 ± 11.1	49.0 ± 8.8	50.7 ± 10.8	0.679
Ego inflation (Ma4)	53.5 ± 11.5	53.0 ± 11.3	59.1 ± 10.9	54.4 ± 12.9	0.001
Shyness/Self-consciousness (Si1)	50.9 ± 9.7	52.7 ± 9.6	52.2 ± 10.0	51.0 ± 11.4	0.810
Social avoidance (Si2)	52.8 ± 8.8	56.3 ± 11.2	54.5 ± 11.1	52.7 ± 10.3	0.022
Alienation-self and others (Si3)	57.6 ± 12.9	57.2 ± 11.5	62.8 ± 13.1	56.0 ± 13.7	<0.001

Value are presented as mean ± standard deviation.

MMPI, Minnesota Multiphasic Personality Inventory; IBS, Irritable bowel syndrome; IBS-C, IBS-constipation; IBS-D, IBS-diarrhea; IBS-M, mixed IBS; IBS-U, IBS-unspecified.