

**Supplementary Table 1.** MMPI Content, Supplementary and Harris-Lingoes Scales in IBS and Non-IBS Patients

Scale	All FGIDs patients	IBS patients	Non-IBS patients	P-value
Content scales				
Anxiety (ANX)	55.1 ± 12.4	58.4 ± 12.3	53.0 ± 12.0	< 0.001
Fears (FRS)	56.6 ± 12.3	57.7 ± 12.7	55.9 ± 12.0	0.082
Obsessiveness (OBS)	54.1 ± 12.5	56.2 ± 12.5	52.7 ± 12.3	0.001
Depression (DEP)	55.0 ± 12.5	57.9 ± 12.9	53.2 ± 11.8	< 0.001
Health concern (HEA)	65.9 ± 13.5	71.5 ± 12.4	62.4 ± 13.0	< 0.001
Bizarre mentation (BIZ)	55.0 ± 14.7	57.1 ± 16.0	53.7 ± 13.6	0.006
Anger (ANG)	50.8 ± 10.6	52.7 ± 11.0	49.6 ± 10.1	< 0.001
Cynicism (CYN)	55.8 ± 12.4	57.7 ± 13.0	54.7 ± 11.9	0.004
Antisocial practices (ASP)	52.0 ± 10.6	53.1 ± 11.1	51.3 ± 10.2	0.033
Type A behaviors (TPA)	52.0 ± 11.2	53.3 ± 11.4	51.3 ± 11.1	0.031
Low self-esteem (LES)	53.1 ± 12.4	54.5 ± 13.2	52.2 ± 11.8	0.022
Social discomfort (SOD)	53.2 ± 10.6	54.3 ± 11.1	52.5 ± 10.2	0.039
Family problems (FAM)	53.3 ± 12.0	56.0 ± 12.3	51.6 ± 11.5	< 0.001
Work interference (WRK)	55.1 ± 12.4	58.0 ± 12.7	53.3 ± 11.9	< 0.001
Negative treatment indicators (TRT)	56.5 ± 13.6	59.0 ± 14.2	54.9 ± 12.9	< 0.001
Supplementary scales				
Ego strength (Es)	41.0 ± 9.6	38.4 ± 8.8	42.7 ± 9.7	< 0.001
MacAndrew alcoholism revised scale (Mac-R)	51.0 ± 10.2	51.5 ± 11.4	50.8 ± 9.4	0.411
Addiction potential scale (APS)	46.1 ± 9.6	47.2 ± 10.3	45.5 ± 9.1	0.033
Addiction acknowledgment scale (AAS)	50.9 ± 13.2	52.5 ± 14.8	50.0 ± 12.1	0.022
Anxiety scale (A)	56.8 ± 12.1	60.3 ± 12.0	54.5 ± 11.6	< 0.001
Repression scale (R)	53.9 ± 10.4	53.9 ± 10.5	53.9 ± 10.4	0.943
Overcontrolled hostility (O-H)	52.2 ± 10.7	52.6 ± 10.6	52.0 ± 10.7	0.499
Dominance scale (Do)	45.4 ± 9.8	43.9 ± 9.9	46.4 ± 9.6	0.002
Social responsibility scale (Re)	49.9 ± 10.4	49.1 ± 11.2	50.5 ± 9.9	0.114
College maladjustment (Mt)	57.6 ± 12.4	61.6 ± 12.5	55.1 ± 11.6	< 0.001
Marital distress score (MDS)	55.5 ± 13.5	58.3 ± 14.2	53.8 ± 12.8	< 0.001
Post-traumatic stress disorder scale (PK)	56.5 ± 13.2	60.0 ± 13.2	54.4 ± 12.8	< 0.001
Post-traumatic stress disorder scale (PS)	57.4 ± 13.4	61.2 ± 13.6	55.1 ± 12.7	< 0.001
Masculine gender role (GM)	44.4 ± 9.7	42.8 ± 9.2	45.5 ± 9.9	0.001
Feminine gender role (GF)	49.2 ± 10.5	48.3 ± 10.9	49.8 ± 10.3	0.085
Harris-Lingoes scales				
Subjective depression (D1)	58.3 ± 12.1	61.4 ± 12.3	56.3 ± 11.6	< 0.001
Psychomotor retardation (D2)	53.9 ± 9.8	54.5 ± 9.8	53.5 ± 9.8	0.193
Physical malfunctioning (D3)	63.4 ± 12.8	67.4 ± 12.9	60.9 ± 12.1	< 0.001
Mental dullness (D4)	56.3 ± 13.1	59.5 ± 13.2	54.2 ± 12.7	< 0.001
Brooding (D5)	53.9 ± 11.6	55.8 ± 11.7	52.7 ± 11.4	0.001
Denial of social anxiety (Hy1)	48.6 ± 9.6	48.1 ± 10.0	48.9 ± 9.3	0.293
Need for affection (Hy2)	46.2 ± 10.1	45.6 ± 10.1	46.5 ± 10.1	0.303
Lassitude malaise (Hy3)	62.5 ± 13.5	67.3 ± 13.3	59.5 ± 12.8	< 0.001

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Supplementary Table 1. Continued

Scale	All FGIDs patients	IBS patients	Non-IBS patients	P-value
Somatic complaints (Hy4)	61.2 ± 12.7	65.1 ± 12.6	58.7 ± 12.2	< 0.001
Inhibition of aggression (Hy5)	50.9 ± 10.3	50.5 ± 10.6	51.1 ± 10.1	0.497
Familial discord (Pd1)	51.6 ± 11.1	52.9 ± 11.1	50.8 ± 11.1	0.023
Authority problems (Pd2)	48.6 ± 10.0	48.9 ± 10.2	48.4 ± 9.8	0.554
Social imperturbability (Pd3)	48.0 ± 9.6	47.6 ± 9.8	48.3 ± 9.5	0.363
Social alienation (Pd4)	55.1 ± 13.2	57.3 ± 14.1	53.6 ± 12.5	0.001
Self-alienation (Pd5)	53.2 ± 12.7	55.7 ± 13.2	51.6 ± 12.0	< 0.001
Persecutory ideas (Pa1)	59.4 ± 16.8	62.3 ± 18.8	57.5 ± 15.2	0.001
Poignancy (Pa2)	54.2 ± 11.7	57.0 ± 12.8	52.4 ± 10.6	< 0.001
Naiveté (Pa3)	46.8 ± 9.9	46.5 ± 9.9	47.1 ± 9.9	0.469
Social alienation (Sc1)	55.4 ± 13.8	57.9 ± 14.5	53.8 ± 13.1	< 0.001
Emotional alienation (Sc2)	54.7 ± 13.9	57.6 ± 15.3	52.8 ± 12.6	< 0.001
Lack of ego mastery, cognitive (Sc3)	55.7 ± 14.1	59.3 ± 14.6	53.3 ± 13.2	< 0.001
Lack of ego mastery, conative (Sc4)	55.2 ± 13.8	58.9 ± 14.8	52.8 ± 12.6	< 0.001
Lack of ego mastery, defective inhibition (Sc5)	52.0 ± 12.4	54.6 ± 13.2	50.4 ± 11.6	< 0.001
Bizarre sensory experiences (Sc6)	58.5 ± 14.6	62.5 ± 15.2	55.9 ± 13.7	< 0.001
Amorality (Ma1)	50.6 ± 9.7	51.2 ± 10.0	50.3 ± 9.6	0.281
Psychomotor acceleration (Ma2)	47.9 ± 10.0	49.1 ± 10.0	47.2 ± 9.9	0.022
Imperturbability (Ma3)	48.9 ± 10.1	49.1 ± 10.4	48.8 ± 10.0	0.712
Ego inflation (Ma4)	53.1 ± 11.4	54.8 ± 11.7	52.0 ± 11.2	0.003
Shyness/self-consciousness (Si1)	51.8 ± 9.5	51.8 ± 10.0	51.8 ± 9.3	0.943
Social avoidance (Si2)	52.9 ± 10.2	54.2 ± 10.3	52.1 ± 10.0	0.013
Alienation-self and others (Si3)	56.2 ± 12.5	58.4 ± 12.8	54.8 ± 12.2	< 0.001

Value are presented as mean ± standard deviation.

MMPI, Minnesota Multiphasic Personality Inventory; IBS, Irritable bowel syndrome; FGID, functional gastrointestinal disorder.