

**Supplementary Table 3.** Frequency of Abnormal 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)	94 (15)	51 (22)	43 (12)	<0.001
Fears (FRS)	91 (15)	42 (18)	49 (13)	0.071
Obsessiveness (OBS)	81 (13)	39 (17)	42 (11)	0.040
Depression (DEP)	78 (13)	45 (19)	33 (9)	<0.001
Health concern (HEA)	222 (37)	127 (54)	95 (25)	<0.001
Bizarre mentation (BIZ)	81 (13)	42 (18)	39 (10)	0.007
Anger (ANG)	32 (5)	15 (6)	17 (5)	0.212
Cynicism (CYN)	117 (19)	58 (25)	59 (16)	0.005
Antisocial practices (ASP)	51 (8)	23 (10)	28 (8)	0.200
Type A behaviors (TPA)	58 (10)	27 (11)	31 (8)	0.124
Low self-esteem (LES)	59 (10)	26 (11)	33 (9)	0.223
Social discomfort (SOD)	50 (8)	26 (11)	24 (6)	0.032
Family problems (FAM)	60 (10)	30 (13)	30 (8)	0.040
Work interference (WRK)	88 (14)	48 (20)	40 (11)	<0.001
Negative treatment indicators (TRT)	104 (17)	51 (22)	53 (14)	0.012
Supplementary scales				
Ego strength (Es)	0	0	0	-
MacAndrew alcoholism revised scale (Mac-R)	33 (5)	20 (9)	13 (3)	0.007
Addiction potential scale (APS)	7 (1)	5 (2)	2 (1)	0.083
Addiction acknowledgment scale (AAS)	45 (7)	25 (11)	20 (5)	0.013
Anxiety scale (A)	112 (18)	60 (26)	52 (14)	<0.001
Repression scale (R)	38 (6)	13 (6)	25 (7)	0.345
Overcontrolled hostility (O-H)	41 (7)	16 (7)	25 (7)	0.541
Dominance scale (Do)	3 (0)	0	3 (1)	0.230
Social responsibility scale (Re)	6 (1)	3 (1)	3 (1)	0.428
College maladjustment (Mt)	113 (19)	65 (28)	48 (13)	<0.001
Marital distress score (MDS)	108 (18)	54 (23)	54 (14)	0.006
Post-traumatic stress disorder scale (PK)	100 (16)	55 (23)	45 (12)	<0.001
Post-traumatic stress disorder scale (PS)	105 (17)	59 (25)	46 (12)	<0.001
Masculine gender role (GM)	2 (0)	1 (0)	1 (0)	0.624
Feminine gender role (GF)	15 (2)	7 (3)	8 (2)	0.347
Harris-Lingoes scales				
Subjective depression (D1)	118 (19)	53 (14)	65 (28)	<0.001
Psychomotor retardation (D2)	44 (7)	25 (7)	19 (8)	0.313
Physical malfunctioning (D3)	203 (33)	95 (25)	108 (46)	<0.001
Mental dullness (D4)	103 (17)	43 (12)	60 (26)	<0.001
Brooding (D5)	61 (10)	28 (8)	33 (14)	0.007
Denial of social anxiety (Hy1)	0	0	0	-
Need for affection (Hy2)	6 (1)	4 (1)	2 (1)	0.572
Lassitude malaise (Hy3)	167 (27)	72 (19)	95 (40)	<0.001

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Supplementary Table 3. Continued

Scale	All FGIDs patients	IBS patients	Non-IBS patients	P-value
Somatic complaints (Hy4)	174 (29)	75 (20)	99 (42)	<0.001
Inhibition of aggression (Hy5)	4 (1)	2 (1)	2 (1)	0.502
Familial discord (Pd1)	55 (9)	31 (8)	24 (10)	0.256
Authority problems (Pd2)	19 (3)	11 (3)	8 (3)	0.463
Social imperturbability (Pd3)	0	0	0	-
Social alienation (Pd4)	76 (13)	33 (9)	43 (18)	0.001
Self-alienation (Pd5)	57 (9)	23 (6)	34 (14)	0.001
Persecutory ideas (Pa1)	133 (22)	64 (17)	69 (29)	<0.001
Poignancy (Pa2)	69 (11)	27 (7)	42 (18)	<0.001
Naiveté (Pa3)	18 (3)	11 (3)	7 (3)	0.582
Social alienation (Sc1)	97 (16)	48 (13)	49 (21)	0.007
Emotional alienation (Sc2)	102 (17)	48 (13)	54 (23)	0.001
Lack of ego mastery, cognitive (Sc3)	102 (17)	48 (13)	54 (23)	0.001
Lack of ego mastery, conative (Sc4)	105 (17)	39 (10)	66 (28)	<0.001
Lack of ego mastery, defective inhibition (Sc5)	63 (10)	27 (7)	36 (15)	0.001
Bizarre sensory experiences (Sc6)	130 (21)	56 (15)	74 (31)	<0.001
Amorality (Ma1)	13 (2)	8 (2)	5 (2)	0.615
Psychomotor acceleration (Ma2)	8 (1)	5 (1)	3 (1)	0.626
Imperturbability (Ma3)	7 (1)	4 (1)	3 (1)	0.551
Ego inflation (Ma4)	43 (7)	25 (7)	18 (8)	0.384
Shyness/self-consciousness (Si1)	24 (4)	15 (4)	9 (4)	0.544
Social avoidance (Si2)	37 (6)	18 (5)	19 (8)	0.073
Alienation-self and others (Si3)	101 (17)	50 (13)	51 (22)	0.006

Value are presented as number (%).

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