### 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   |
| Low self-esteem (LES)     | 59 (10)            | 26 (11)      | 33 (9)           | 0.223   |
| Social discomfort (SOD)   | 50 (8)             | 26 (11)      | 24 (6)           | 0.032   |
| Work interference (WRK)   | 88 (14)            | 48 (20)      | 40 (11)          | < 0.001 |
| **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 |
| **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 mal functioning (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.