

Table 4. Differences in test performance between patients with and without chronic headache, patients with and without depression and the effect of BMI on test performance

| | Chronic headache ^a | | | Depression ^a | | | BMI ^b | | |
|--|-------------------------------|------------|------|-------------------------|------------|------|------------------|------------|-------------------|
| | estimate | 95% CI | P | estimate | 95% CI | P | estimate | 95% CI | p |
| Intra-Extra Dimensional Set Shift | | | | | | | | | |
| ID/ED Errors | -0.36 | -1.26;0.54 | 0.43 | 0.05 | -0.88;0.99 | 0.91 | -0.02 | -0.09;0.04 | 0.45 |
| Total errors adjusted | 0.09 | -0.81;0.99 | 0.84 | -0.13 | -1.07;0.80 | 0.77 | -0.01 | -0.07;0.06 | 0.88 |
| Stockings of Cambridge | | | | | | | | | |
| Solved in minimum moves | -0.10 | -1.00;0.80 | 0.83 | -0.42 | -1.36;0.52 | 0.38 | 0.07 | 0.01;0.14 | 0.03 ^c |
| Initial thinking time | 0.25 | -0.65;1.15 | 0.59 | -0.32 | -1.26;0.62 | 0.51 | 0.36 | -0.04;0.10 | 0.36 |
| Subsequent thinking time | 0.37 | -0.53;1.27 | 0.42 | -0.14 | -1.08;0.80 | 0.77 | 0.003 | -0.06;0.07 | 0.92 |
| Trail Making Test^a | | | | | | | | | |
| Trail Making B-A | 0.54 | -0.39;1.46 | 0.25 | 0.52 | -0.43;1.47 | 0.28 | -0.04 | -0.10;0.04 | 0.45 |
| Spatial Working Memory | | | | | | | | | |
| Strategy score | 0.31 | -0.58;1.22 | 0.49 | 0.16 | -0.78;1.09 | 0.74 | 0.02 | -0.04;0.09 | 0.50 |
| Total errors | 0.57 | -0.33;1.47 | 0.21 | -0.07 | -1.00;0.87 | 0.88 | 0.01 | -0.06;0.07 | 0.87 |
| Spatial Span: | | | | | | | | | |
| Span length | -0.51 | -1.41;0.39 | 0.26 | 0.46 | -0.48;1.40 | 0.33 | -0.02 | -0.08;0.05 | 0.64 |
| Verbal Fluency^a | | | | | | | | | |
| Letters | 0.95 | 0.02;1.87 | 0.06 | 0.13 | -0.82;1.08 | 0.78 | 0.01 | -0.06;0.08 | 0.71 |
| Categories | 0.20 | -0.72;1.13 | 0.67 | -0.03 | -0.98;0.92 | 0.95 | 0.003 | -0.07;0.07 | 0.92 |

Trail Making Test^a

| | | | | | | | | | |
|----------------|------|------------|------|-------|------------|------|-------|------------|------|
| Trail Making A | 0.64 | -0.28;1.57 | 0.17 | -0.19 | -1.14;0.76 | 0.69 | 0.003 | -0.07;0.07 | 0.94 |
| Trail Making B | 0.71 | -0.21;1.64 | 0.13 | 0.33 | -0.61;1.28 | 0.49 | -0.02 | -0.09;0.04 | 0.51 |

Symbol Digit Modalities

| | | | | | | | | | |
|-----------------|------|------------|------|------|------------|------|------|------------|------|
| Correct symbols | 0.36 | -0.54;1.26 | 0.43 | 0.28 | -0.66;1.22 | 0.56 | 0.02 | -0.05;0.08 | 0.61 |
|-----------------|------|------------|------|------|------------|------|------|------------|------|

Rey-Osterreith Figure

| | | | | | | | | | |
|------------------|------|------------|------|-------|------------|------|------|------------|------|
| Immediate recall | 0.42 | -0.48;1.32 | 0.36 | -0.14 | -1.07;0.80 | 0.78 | 0.02 | -0.05;0.08 | 0.66 |
| Delayed recall | 0.67 | -0.22;1.57 | 0.14 | -0.04 | -0.97;0.90 | 0.94 | 0.01 | -0.06;0.07 | 0.87 |

Rapid Visual Processing

| | | | | | | | | | |
|--------------------------|------|------------|------|-------|------------|------|------|------------|------|
| A' sensitivity to target | 0.49 | -0.40;1.39 | 0.28 | -0.26 | -1.20;0.67 | 0.58 | 0.05 | -0.02;0.12 | 0.15 |
|--------------------------|------|------------|------|-------|------------|------|------|------------|------|

Reaction Time:

| | | | | | | | | | |
|----------|------|------------|------|------|------------|------|-------|------------|------|
| Reaction | 0.49 | -0.40;1.39 | 0.28 | 0.54 | -0.40;1.48 | 0.26 | 0.02 | -0.05;0.09 | 0.52 |
| Movement | 0.51 | -0.39;1.41 | 0.27 | 0.27 | -0.67;1.20 | 0.58 | -0.01 | -0.08;0.06 | 0.75 |

^aEstimates are in SD and show difference between cognitive performance in patients without the dependent variable (depression and chronic headache) compared to patients with the variable. ^bEffect on test performance for every increasing BMI unit (kg/m²). ^cPatients with higher BMI performed better. There was no significant difference between patients and controls in this test (Table 2).