**SUPPLEMENTAL DATA**

**Supplemental table.** Neuropsychological characteristics of patients with and without ICBs.

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| **Cognitive test** | **ICB positive (n=38)** | **ICB negative (n=87)** | **P valuea** |
| **Attention** |   |   |   |
| Stroop Word reading | 75.5 (15.1) | 72.6 (19.0) | 0.464 |
| Stroop Colour naming | 54.1 (11.4) | 53.2 (15.2) | 0.755 |
| **Executive functioning** |   |   |   |
| Verbal fluency | 19.9 (5.1) | 19.2 (6.4) | 0.806 |
| Stroop Interference | 29.9 (12.1) | 26.07 (11.9) | 0.105 |
| **Verbal memory** |   |   |   |
| CVLT II - total immediate recall | 47.2 (12.3) | 42.1 (15.3) | 0.120 |
| CVLT II - short delay free recall | 9.1 (4.0) | 8.2 (4.1) | 0.501 |
| CVLT II - long delay free recall | 9.8 (4.0) | 8.6 (4.0) | 0.282 |
| **Visouspatial functioning** |   |   |   |
| VOSP Silhouettes | 20.4 (4.6) | 19.4 (4.3) | 0.638 |
| VOSP Cube | 9.0 (1.8) | 9.1 (1.7) | 0.544 |

Data are mean (SD) unless otherwise indicated.

ICBs=Impulsive-compulsive behaviors; CVLT II= California Verbal Learning Test II; VOSP= Visual Object and Space Perception Battery.

a Logistic regression analysis with ICB status as dependent variable, controlled for age, education and gender.