**Supplementary Material**

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| **Cognitive domain** | **Neuropsychological test** |
| **Effort** | Digit span; Test of Memory Malingering (TOMM); inconsistency on testing the same cognitive domain; tester’s subjective judgement |
| **Verbal IQ** | Wechsler Adult Intelligence Scale-III (WAIS-III) |
| **Non-verbal IQ** | Wechsler Adult Intelligence Scale-III (WAIS-III) |
| **Visual memory** | Recognition Memory TestTM (RMTTM) |
| **Verbal memory** | Recognition Memory TestTM (RMTTM) |
| **Executive function** | The Stroop Color and Word Test (SCWT); Trail Making Test (TMT) Parts A and B; Brixton Spatial Anticipation Test |
| **Processing speed** | Symbol Digit Modalities Test (SDMT) |
| **Visuospatial** | Visual Object and Space Perception Battery (VOSP) |
| **Nominal** | Oldfield naming test |
| **Supplementary table 1. Neuropsychological tests used to assess each cognitive domain.** |

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|  **Cognitive domain**  | **Overall FCD patients (N=34)\***  | **FCD patients with co-morbid depression (N=17)\***  | **FCD patients without co-morbid depression (N=17)\***  |
| **Suboptimal effort****No. (%)**  | 12 (35)  | 5 (29)  | 7 (41)  |
| **NART, No. (%)**  | **N=19**  | **N=9**  | **N=10**  |
| Superior  | 3 (16)  | 1 (11)  | 2 (20)  |
| Normal  | 15 (79)  | 7 (77)  | 8 (80)  |
| Inferior  | 1 (5)  | 1 (11)  | 0 (0)  |
| **Verbal IQ, No. (%)**  | **N=25**  | **N=15**  | **N=10**  |
| Superior  | 4 (16)  | 3 (20)  | 1 (10)  |
| Normal  | 13 (52)  | 6 (40)  | 7 (70)  |
| Inferior  | 8 (32)  | 6 (40)  | 2 (20)  |
| **Non-verbal IQ, No. (%)**  | **N=30**  | **N=17**  | **N=13**  |
| Superior  | 3 (10)  | 2 (12)  | 1 (8)  |
| Normal  | 14 (47)  | 6 (35)  | 8 (62)  |
| Inferior  | 13 (43)  | 9 (53)  | 4 (31)  |
| **Visual Memory, No. (%)**  | **N=34**  | **N=17**  | **N=17**  |
| Moderately impaired  | 13 (38)  | 7 (41)  | 6 (35)  |
| Severely impaired  | 6 (18)  | 2 (12)  | 4 (24)  |
| **Verbal Memory, No. (%)**  | **N=34**  | **N=17**  | **N=17**  |
| Moderately impaired  | 12 (35)  | 11 (65)  | 1 (6)  |
| Severely impaired  | 5 (15)  | 1 (6)  | 4 (24)  |
| **Executive Function, No. (%)**  | **N=33**  | **N=17**  | **N=16**  |
| Moderately impaired  | 8 (24)  | 5 (29)  | 3 (19)  |
| Severely impaired  | 9 (27)  | 5 (29)  | 4 (25)  |
| **Processing speed, No. (%)**  | **N=33**  | **N=17**  | **N=16**  |
| Moderately impaired  | 9 (27)  | 8 (47)  | 1 (6)  |
| Severely impaired  | 12 (36)  | 4 (24)  | 8 (50)  |
| **Visuospatial, No. (%)**  | **N=32**  | **N=16**  | **N=16**  |
| Impaired  | 9 (28)  | 6 (38)  | 3 (19)  |
| **Nominal, No. (%)**  | **N=32**  | **N=15**  | **N=17**  |
| Moderately impaired  | 8 (25)  | 6 (40)  | 2 (12)  |
| Severely impaired  | 1 (3)  | 1 (3)  | 0 (0)  |
| **\*unless stated; NART, National Adult Reading Test.**  |
| **Supplementary table 2. Neuropsychometric profiles including those of patients who demonstrated suboptimal effort/invalid performance.**  |

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| **Co-morbid depression and/or anxiety** | **NART** | **Verbal IQ** | **Non-verbal IQ** | **Visual Memory** | **Verbal memory** | **Executive Function** | **Processing Speed** | **Visuo-spatial** | **Nominal**  | **Effort** |
| **Yes** |  | **↔** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** |  |
| **Yes** | **↑** | **↑** | **↑** | **↑** | **↑** | **↑** | **↑** | **↔** |  |  |
| **Yes** | **↔** | **↔** | **↔** | **↔** | **↓** | **↓** | **↔** | **↔** | **↓** |  |
| **Yes** |  | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓** |
| **Yes** | **↔** | **↓** | **↓** | **↔** | **↓** | **↓** | **↓** | **↓** | **↔** | **↓** |
| **Yes** | **↔** | **↓** | **↓** | **↓↓** | **↓↓** | **↓↓** | **↓** | **↔** | **↓** |  |
| **Yes** | **↔** | **↔** | **↔** | **↓** | **↑↑** | **↔** | **↔** | **↔** | **↔** | **↓** |
| **Yes** | **↔** |  | **↓** |  | **↓** | **↓↓** | **↓** | **↓** | **↔** |  |
| **Yes** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** |  |
| **Yes** |  | **↔** | **↔** | **↑** | **↓** | **↔** | **↔** | **↔** | **↑** |  |
| **Yes** |  | **↓** | **↓** | **↓** | **↓** | **↓** | **↓↓** | **↓** | **↔** | **↓** |
| **Yes** |  | **↑** | **↔** | **↑** | **↔** | **↔** | **↔** | **↔** |  |  |
| **Yes** |  |  | **↓** | **↓↓** | **↓** | **↔** | **↓** | **↓** | **↓** |  |
| **Yes** | **↓** | **↓** | **↓** | **↓** | **↓** | **↓↓** | **↓** |  | **↓** | **↓** |
| **Yes** |  | **↑** | **↑** | **↔** | **↑** | **↑** | **↑↑** | **↑** | **↔** |  |
| **Yes** |  | **↔** | **↔** | **↓** | **↓** | **↓↓** | **↓↓** | **↔** | **↔** |  |
| **Yes** | **↔** | **↓** | **↓** | **↓** | **↓** | **↓↓** | **↓↓** | **↔** | **↓↓** |  |
| **No** | **↔** | **↔** | **↓** | **↑↑** | **↔** | **↑** | **↔** | **↔** | **↔** |  |
| **No** |  |  | **↔** | **↓** | **↑** | **↔** | **↓↓** | **↔** | **↔** | **↓** |
| **No** |  | **↔** | **↔** | **↔** | **↑** | **↓** | **↓** | **↔** | **↔** |  |
| **No** |  |  | **↓** | **↓** | **↔** | **↔** | **↓** | **↔** | **↔** |  |
| **No** | **↔** | **↔** | **↔** | **↓** | **↑** | **↑** | **↔** | **↔** | **↑** |  |
| **No** | **↔** | **↔** | **↓** | **↔** | **↓** | **↓** | **↓** | **↔** | **↔** |  |
| **No** | **↔** | **↓** | **↓** | **↓↓** | **↓↓** | **↓↓** | **↓↓** | **↔** | **↔** | **↓** |
| **No** |  |  | **↔** | **↔** | **↓↓** | **↔** | **↔** | **↔** | **↔** |  |
| **No** | **↔** | **↔** | **↔** | **↓↓** | **↓↓** | **↓↓** | **↓↓** | **↔** | **↑** | **↓** |
| **No** | **↑** | **↑** | **↑** | **↔** | **↔** | **↑↑** | **↑↑** | **↔** | **↑** |  |
| **No** | **↔** | **↓** | **↔** | **↓↓** | **↓↓** | **↓↓** | **↓↓** | **↔** | **↔** | **↓** |
| **No** | **↔** |  | **↔** | **↓↓** | **↓↓** | **↓↓** | **↓↓** | **↓** | **↓** | **↓** |
| **No** | **↑** | **↔** | **↓** | **↓↓** | **↔** | **↔** | **↓↓** | **↔** | **↔** |  |
| **No** |  |  |  | **↓↓** | **↓↓** |  |  |  | **↓** |  |
| **No** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** | **↔** |  |
| **No** |  | **↔** | **↔** | **↔** | **↔** | **↔** | **↓↓** | **↓** | **↔** | **↓** |
| **No** |  |  | **↓** | **↓** | **↓** | **↓** | **↓↓** | **↓** | **↔** | **↓** |
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| **↑↑= Superior; ↑=Above average; ↔=Normal; ↓= below average; ↓↓= significantly impaired; NART, National Adult Reading Test. Red indicates suboptimal effort.** |

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| **Supplementary table 3. Neuropsychometric profiles of all patients.** |