Supplementary Table 1. Distribution of mean (SD) in neurocognitive *T*-scores by demographics, injury severity, functional, and psychological measures

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Memory** | **Executive function** | **Reasoning** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 3 months | 1-year | 5-years | 10-years | 3 months | 1-year | 5-years | 10-years | 3 months | 1-year | 5-years | 10-years |
| Sex Male  | 39.2 (10.7) | 47.5 (10.7) | 46.6 (10.0) | 46.8 (12.4) | 39.6 (7.2) | 43.0 (6.9) | 43.5 (7.5) | 44.9 (6.9) | 45.1 (8.1) | 47.8 (8.7) | 48.3 (6.8) | 48.0 (7.0) |
|  Female  | 34.9 (14.0) | 40.5 (15.6) | 36.3 (12.6) | 41.2 (15.0) | 36.0 (9.6) | 38.7 (8.9) | 38.9 (9.4) | 39.8 (7.4) | 42.8 (9.3) | 46.3 (8.2) | 46.7 (8.2) | 45.1 (11.1) |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |
|  9-12 years  | 35.9 (11.9) | 41.5 (13.3) | 41.1 (12.6) | 41.5 (14.0) | 36.4 (8.5) | 39.3 (8.2) | 39.9 (8.9) | 40.8 (8.0) | 41.2 (8.1) | 44.1 (8.0) | 46.0 (7.7) | 43.9 (7.9) |
|  ≥13 years  | 40.2 (11.2) | 49.3 (10.5) | 46.7 (10.0) | 48.6 (11.7) | 40.8 (6.7) | 44.2 (6.3) | 44.5 (6.7) | 46.0 (5.9) | 47.6 (7.5) | 50.4 (8.0) | 49.6 (6.2) | 50.4 (7.1) |
| Posttraumatic amnesia  |  |  |  |  |  |  |  |  |  |  |  |  |
|  ≤ 24 days  | 42.7 (10.3) | 49.4 (10.8) | 47.8 (10.1) | 49.3 (12.7) | 40.6 (7.5) | 43.4 (7.8) | 43.9 (8.5) | 44.9 (7.9) | 45.7 (9.0) | 49.1 (9.3) | 48.6 (7.8) | 47.7 (8.9) |
|  ≥ 25 days  | 31.1 (10.6) | 39.3 (12.4) | 39.3 (11.7) | 40.7 (12.4) | 35.5 (7.6) | 39.1 (6.5) | 40.4 (7.3) | 42.1 (6.4) | 43.4 (7.4) | 44.8 (6.7) | 47.1 (6.2) | 47.0 (7.2) |
| Glasgow Coma Scale |  |  |  |  |  |  |  |  |  |  |  |  |
|  Scores 3-8 (Severe TBI) | 34.9 (11.6) | 43.8 (13.2) | 42.6 (12.1) | 44.1 (12.9) | 37.4 (7.6) | 42.0 (7.0) | 42.5 (7.8) | 43.4 (6.7) | 44.1 (7.3) | 47.0 (7.6) | 47.7 (6.6) | 46.9 (7.6) |
|  Scores 9-12 (Moderate TBI) | 42.5 (10.3) | 48.1 (11.1) | 46.7 (10.3) | 47.6 (13.6) | 40.4 (8.2) | 41.8 (8.3) | 42.3 (8.9) | 44.1 (8.5) | 45.2 (9.7) | 48.0 (9.6) | 48.3 (8.1) | 48.1 (9.0) |
| GOSE 3 months post-injury |  |  |  |  |  |  |  |  |  |  |  |  |
|  Scores 3-5 (unfavorable) | 34.5 (10.4) | 41.6 (12.1) | 39.7 (11.6) | 42.2 (13.4) | 36.8 (8.0) | 39.6 (6.9) | 39.6 (7.8) | 41.0 (6.2) | 43.5 (8.1) | 45.2 (8.0) | 46.3 (7.3) | 46.3 (8.6) |
|  Scores 6-8 (favorable) | 45.8 (10.7) | 53.2 (9.9) | 50.0 (8.5) | 51.2 (12.1) | 42.3 (6.8) | 46.0 (7.5) | 46.7 (7.6) | 47.4 (8.3) | 46.3 (8.8) | 51.1 (8.6) | 49.8 (7.2) | 49.6 (7.5) |
| SCL-90-R 1-year post-injury |  |  |  |  |  |  |  |  |  |  |  |  |
|  Scores ≤ 56 (more distress) | 35.2 (11.6) | 41.0 (13.6)  | 38.3 (11.5) | 41.8 (14.7) | 37.1 (9.3) | 38.8 (7.9) | 39.7 (8.7) | 41.5 (7.1) | 41.9 (7.5) | 43.1 (7.4) | 45.0 (6.8) | 43.6 (7.1) |
|  Scores <56 (less distress) | 40.4 (11.2) | 48.1 (11.2) | 47.0 (10.1) | 47.1 (12.3) | 30.7 (6.8) | 43.5 (6.9) | 43.9 (7.4) | 44.5 (7.3) | 46.3 (8.6) | 49.7 (8.3) | 49.5 (7.3) | 49.1 (8.5) |

Abbreviations: GOSE = Glasgow Outcome Scale Extended; SCL-90-R = Symptom Checklist 90-Revised.

Supplementary Figure. Memory domain scores for each participants at the 4 follow-ups.

