## Assessing the end of post-traumatic amnesia from an executive attention paradigm

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**B** ackground and Aim: Attention is implicated as the primary deficit of post-traumatic amnesia (PTA) by historical accounts and recent research. Paradoxically, attention is not directly assessed by the commonly used West-mead PTA Scale (WPTAS). Tentative validation was provided by Tate et al. (2006) who found few improvements in a limited subset of attention tasks by severely brain-injured patients between the first 12/12 score and the final of three consecutive 12/12 scores on the WPTAS. The aim of the current study was to examine the end stage of PTA as measured by the WPTAS against a broader array of executive attention tasks.

**Method:** Fifteen participants (M:F 8:7, aged  $34 \pm 15$  years [range: 18-63 years]) with predominately moderate-severe brain injury were assessed on information processing, verbal fluency, updating, inhibition/selective attention and switching tasks. Participants were assessed on the first 12/12 score on the WPTAS and the final of three consecutive 12/12 scores. Practice effects of testing were considered against 15 demographically matched controls assessed between equivalent intervals.

**Results:** Repeated-measures ANOVA found only speed of processing to significantly improve as PTA resolved over and above the practice effect of a control group (between-within interaction F(1,28) = 5.78, p = 0.023). However, no significant improvement over a control group was noted for any other more complex measure of attention or executive functioning.

**Conclusion:** The lack of a broader improvement in executive attention abilities suggests that patients have likely emerged from PTA by the first 12/12 score on the WPTAS.

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## The Addenbrooke's Cognitive Examination-Revised: its utility within a traumatic brain injury rehabilitation service

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> **B** ackground and Aims: The Addenbrooke's Cognitive Examination– Revised (ACE-R) is a popular screening tool in dementia. Its utility in traumatic brain injury (TBI) populations has had limited research, despite the location of fronto-temporal pathology. Findings of the use of the ACE-R in a rehabilitation service that treats clients with complex-mild to extremely-severe TBI are presented.

> **Methods:** ACE-R scores since 2008 were extracted from a database. Mini-Mental State Examination (MMSE) scores were extracted and compared to ACE-R scores. ACE-R domain scores were examined for the effect on the variance of the total score.

> **Results:** 200 working-aged TBI clients (mean age = 37.7; SD = 14.1) were administered the ACE-R. Mean score = 86.5/100 (SD = 10.9); median = 89/100 (interquartile range = 81-94). Sixteen clients (8%) scored  $\ge 98$ , while