Comprehensive Trail-Making Test (CTMT)

by James Lani

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For the purpose of assessing and diagnosis brain injury, the Comprehensive Trail-Making Test is composed of five visual search and sequencing task sets. The CTMT can detect problems with the frontal lobe, psychomotor speed, focus, visual search, and sequencing.

Participants are asked to complete five items or “trails” which include connect sets of numbers or letters with lines. Approximately 5 to 12 minutes is required for completion.

Author

Cecil Reynolds, 2002

Reliability and Validity

The Comprehensive Trail-Making Test is a popular and established instrument. Alpha coefficients for internal consistency were above 0.70 for all five of the subtests and 0.92 for the Composite Index (Reynolds, 2002). Reynolds also reported the test-retest score above 0.70, generally ranging from 0.70 to 0.78, and the inter-rater reliabilities from 0.96 to 0.98. For validity, the CTMT was compared with the Developmental Test of Visual-Perception-Adolescents and Adults (Reynolds, Pearson, & Voress, 2002) and the Draw-A-Person Intelligence Scoring (Reynolds & Hickman, 2002). All these test contained common visual perception and visual-motor skill traits.

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Administration, Analysis and Reporting

Statistics Solutions consists of a team of professional methodologists and statisticians that can assist the student or professional researcher in administering the survey instrument, collecting the data, conducting the analyses and explaining the results.

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References


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