

## COGTEST – MATRICS

The study of cognitive deficits in schizophrenia has increased exponentially with the widespread recognition that they are core features of the illness and critically related to functional impairments that persist even among the most treatment responsive patients. Several clinical trials have been conducted with varying success rates, in part due to different methodologies, including instrumentation. To this end, the MATRICS initiative sought to provide a uniform battery of cognitive tests for use in clinical trials with schizophrenia patients. While mandating the test battery used for detecting cognitive change reduces method variance, it does nothing to the error variance associated with manually administered cognitive tests. Multiple occasions for error arise when examiners in clinical trials, who most likely have not received advance training in psychological assessment, are subject to the administration and scoring nuances of traditional tests. The Cogtest system, with computerized administration and scoring of cognitive tests, eliminates the potential for human error. Below we display currently available and well-standardized (including normative comparison data) Cogtest subtests that are equivalents or identical to those proposed by the MATRICS committee. Additional advantages of the Cogtest system include its availability in over 60 languages, making it feasible for multi-national trials, unlike the tests of the MATRICS battery.

<b>Test</b>	<b>Domain</b>	<b>Cogtest Equivalent/Identical Tests</b>
CPT IP	<i>Attention Vigilance</i>	<b>CPT IP*</b>
WMSIII Spatial Span	<i>Working Memory – Non Verbal</i>	<b>Spatial Working Memory</b>
Letter Number Span	<i>Working Memory - Verbal</i>	<b>Auditory Number Sequencing</b>
Hopkins Verbal Learning Test	<i>Verbal Learning and Memory</i>	<b>Word List Memory</b>
Brief Visuospatial Memory test	<i>Visual Learning and Memory</i>	<b>Face Memory Test</b>
Category Fluency	<i>Speed of Processing</i>	<b>Category Fluency*</b>
Trail Making A	<i>Speed of Processing</i>	<b>Finger Tapping Test</b>
BACS Digit symbol coding	<i>Speed of Processing</i>	<b>BACS Digit Symbol coding*</b>
Neuropsychological Assessment Battery (NAB) – Mazes	<i>Reasoning and Problem Solving (Exec func)</i>	<b>Cogtest Mazes OR Cogtest Strategic Target Detection Test **</b>
MSCEIT Managing Emotions	<i>Social Cognition</i>	<b>Penn Emotional Acuity Test (PEAT)</b>

\* Represents identical test

\*\* Test selection determined by sponsor with input from Cogtest scientists

ESTIMATED TIME FOR COMPLETION OF MATRICS BATTERY: 90 mins

ESTIMATED TIME FOR COMPLETION OF COGTEST EQUIVALENT: 60 mins