**Immediate Post-Concussion Assessment and Cognitive Testing (imPACT)**

<table>
<thead>
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<th><strong>Availability:</strong></th>
<th>Please visit this website for more information about the instrument: <a href="#">Immediate Post-Concussion Assessment and Cognitive Testing</a>.</th>
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<td><strong>Classification:</strong></td>
<td><strong>Core:</strong> Sports-Related Concussion (SRC) Acute (Acute timeframe: time of injury until 72 hours) and Subacute (Subacute timeframe: after 72 hours to 3 months): Should use <strong>one</strong> of the following cognitive measures: Automated Neuropsychological Assessment Metrics (ANAM), Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT), CNS Vital Signs or Axon Sports Computerized Cognitive. <strong>Core also for symptom checklist:</strong> Should use <strong>one</strong> of the following: imPACT or The Rivermead Post-Concussive Symptoms Questionnaire (RPQ) <strong>Supplemental:</strong> Traumatic Brain Injury (TBI) <strong>Exploratory:</strong> Sports-Related Concussion (SRC) Persistent/Chronic (Persistent/Chronic timeframe: 3 months and greater post concussion)</td>
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<td><strong>Short Description of Instrument:</strong></td>
<td>Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT) is a computerized neuropsychological battery used to make return to play decisions in cases of sports concussion. It includes six test modules that measure verbal and visual memory, reaction time, processing speed, and impulse control: Word Memory, Design Memory, X’s and O’s, Symbol Match, Color Match, and Three Letters. Baseline and post-concussion testing can be performed to help evaluate when an athlete has recovered from a concussion. The ImPACT is computerized and takes approximately 20 minutes to complete. It can be administered by an athletic trainer, doctor or psychologist, or school nurse who has completed training in ImPACT test administration. Sports-Related Concussion Specific: Advantages: The most broadly researched and implemented computer based assessment of neurocognitive function at all levels of sport. Available in multiple languages Computerized neurocognitive test battery that includes six subtests- 1) word memory, 2) design memory, 3) X’s and O’s, 4) symbol match,5 ) color match, and 6) three letters- that comprise four composite scores: 1) verbal memory, 2) visual memory, 3) visuo-motor processing speed, and 4 reaction time. Test has built in validity indicators (i.e., impulse control score). Test is commonly used in sport concussion and normative data are available. Includes a comprehensive demographic, injury information sections. The Post-concussion Symptom Scale (PCSS)— a 22-item symptom report— is embedded in the ImPACT test. The ImPACT test has most empirical support and research. Limitations: Test reliability, sensitivity and specificity have been questioned; should be interpreted by a neuropsychologist. It has known practice effects for motor processing speed composite score. Test is lengthy is ~20–30 min. Requires a professional with specific ImPACT training to administer and interpret test findings. Ideally requires a</td>
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**Baseline**

- **Score for best interpretation of post-injury findings.**

**Sub-population:** Adolescent to Adult, but newer Pediatric ImPACT now available to measure in children as young as 5 years.

**Age Range:** 10+

**Advantages:** Limitations: Age Range: Children, Adolescents, Adults- 11+

### Scoring:

- Scaled scores (M=10, SD=3), index scores (M=100, SD=15), T-scores (M=50, SD=10), and percentile ranks are available for composite scores (Verbal Memory, Visual Memory, Reaction Time, Processing Speed, and Impulse Control) and a Postconcussion Scale Total Score.

### References:


