**Kinarm Standard Tests™**

Objective assessment of brain function through quantitative measurement of human behaviour

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**Sensory**
- Arm Position Matching

**Motor**
- Visually Guided Reaching

**Cognitive**
- Reverse Visually Guided Reaching

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**Tracking stroke recovery with precision not provided by standard clinical assessments.**

**Task Scores for all Kinarm Standard Tests**

**Longitudinal Task Scores**

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**Quick Facts**
- Detect and quantify sensory, motor and cognitive deficits
- Score subject performance against healthy populations
- Generate an exportable electronic report
- View/share trial-by-trial behaviors

**Kinarm Standard Tests provide sensitive and objective measures of sensory, motor, and cognitive brain functions through the precise measurement of human behaviour – a method we call behaviourography.**

By using the suite of standardized protocols, a clinical researcher can assess the neurological impairments of a subject in a Kinarm Lab in 30 to 60 min.

Kinarm Standard Tests allows researchers to:
- **Differentiate:** Identify subject-specific behavioural measures that uniquely characterize the subject’s neurological deficit
- **Select:** Choose subjects for research protocols based on their deficit profile
- **Target:** Develop new patient-centered therapies to address the patient-specific impairment of the brain injury or disease
- **Measure:** Collect objective data on the subject’s response to therapies
- **Advance:** Translate treatments for brain injury from lab to clinic

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Abbreviations: APM = Arm Position Matching, VGR = Visually Guided Reaching, VGR_U = Visually Guided Reaching with unaffected arm, BoB = Ball on Bar, OH = Object Hit, OHA = Object Hit & Avoid, RVGR = Reverse Visually Guided Reaching, RVGR_U = Reverse Visually Guided Reaching with unaffected arm, Trails = Trailmaking, SS = Spatial Span.
Science stands behind every test

Each behavioural test is grounded in the principles of neuroscience and is designed to assess the underlying impairments caused by the brain injury or disease. Tasks engage different aspects of the subject's sensory, motor and cognitive systems in (sometimes) highly demanding and active behaviours. Each task is easily understood, is short, and provides parameters that: have face validity; are repeatable and responsive; provide continuous measurements; and minimize floor and ceiling effects.

<table>
<thead>
<tr>
<th>Behavioural Task</th>
<th>Brain Function</th>
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<tbody>
<tr>
<td>Arm Position Matching:</td>
<td>Somatosensory processing for perception Position-sense</td>
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<tr>
<td>Elbow Stretch:</td>
<td>Assess for presence of spasticity and high tone</td>
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<tr>
<td>Ball on Bar:</td>
<td>Bi-manual coordination Visuomotor skills</td>
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<tr>
<td>Visually Guided Reaching:</td>
<td>Motor coordination Visuomotor skills Postural control of arm</td>
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<tr>
<td>Trails A&amp;B:</td>
<td>Executive function: task switching</td>
</tr>
<tr>
<td>Object Hit &amp; Avoid:</td>
<td>Rapid motor decisions Bi-manual motor planning Spatial Attention Executive function: attention and inhibitory control</td>
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</tbody>
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<tr>
<th>Task list reflects Dexterit-E 3.6 release</th>
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Disclaimer: Kinarm Standard Tests are intended as research tools to contribute to the understanding of brain function and dysfunction. Kinarm Standard Tests do not directly offer a medical diagnosis of any type, nor are Kinarm Standard Tests to be used as an assessment tool to assist with diagnosis. A diagnosis of any brain injury or disease can be made only by a qualified physician or psychologist.