DANA Configurations

DANA Brain Vital
Enables Role of Care 1 providers (e.g. Combat Medics or Corpsmen) to accurately and objectively assess Warfighters’ cognitive function in under five minutes. Utilizes Simple Reaction Time, Procedural Reaction Time, and Go/No Go Tests.

DANA Standard
Assists Role of Care 1-4 providers to assess Warfighters suspected of functional impairment due to other reasons, such as emotional distress or deployment exhaustion. Can also be used down range as a follow up to DANA Brain Vital.

DANA Modular
Can be configured to include any combination of individual cognitive and psychological tests.

Features
• DANA™ is a Neurocognitive Assessment Tool (NCAT) running as a mobile application on Android devices, enabling deployment down range.

• Includes both cognitive and psychological test batteries, making it more robust than just cognitive testing.

• Uses evidence based tests.

Benefits
• The Brain Thermometer: Fast screening for changes in neurobehavioral and cognitive function.

• Very sensitive to changes in cognitive efficiency due to any cause (e.g. concussion, combat-related stress, deployment-related exhaustion).

• Quick and simple way to capture longitudinal cognitive biometrics.

• Tracks changes in cognitive processing over time. Monitors responsiveness to treatment.

• Supports quicker triage and assessing fit for duty and return to duty determination.

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Detailed Product Features:

• **Results are immediately available** and can be exported in CSV and PDF formats.

• Embedded tests of effort to **identify malingering**.

• **Tested in a variety of military field conditions**, including: Arctic, Jungle, Desert, Mountainous, and Shipboard in high sea states; tested in Afghanistan.

• Modularity enables **real-time test battery configuration** based on specific needs and use cases.

• **Off line log-in capability**.

• Received **510(k) clearance from the FDA**.

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Clinical Information:

• **Demonstrated as valid and reliable in all settings**.

• **Shown sensitivity and distinguished impaired vs non-impaired** in a variety of populations, including extremely depressed, acute concussion, hypoxia and mild cognitive impairment due to PTSD.

• **Clinical studies published** in Neuroreport, Military Medicine, Journal of Neurotrauma and PLoS One.

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<th>DANA Standard (20 Minutes)</th>
<th>DANA Modular (Varies)</th>
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<tbody>
<tr>
<td>Simple Reaction Time</td>
<td>Simple Reaction Time</td>
<td>Can be configured to include any combination of individual cognitive and psychological tests.</td>
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<tr>
<td>Procedural Reaction Time</td>
<td>Code Substitution (Learning)</td>
<td>Individual cognitive tests can be modified to change parameters, including the number of trials.</td>
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<tr>
<td>Go/No-Go</td>
<td>Procedural Reaction Time</td>
<td><strong>Additional tests available include:</strong></td>
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<tr>
<td></td>
<td>Spatial Processing</td>
<td>• Combat MACE interview</td>
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<td></td>
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<td>• Combat Exposure Scale (CES)</td>
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<td>Matching to Sample</td>
<td>• PTSD Check List – Military Version (PCL-M)</td>
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<td>Memory Search (Stemberg)</td>
<td>• Deployment Stress Inventory (DSI)</td>
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<td>Simple Reaction Time</td>
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<td>Insomnia Severity Index (ISI)</td>
<td>• Primary Care PTSD screen (PC-PTSD)</td>
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<td>• Stanford Sleepiness Scale</td>
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For more information:

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**DANA**
Defense Automated Neurobehavioral Assessment