

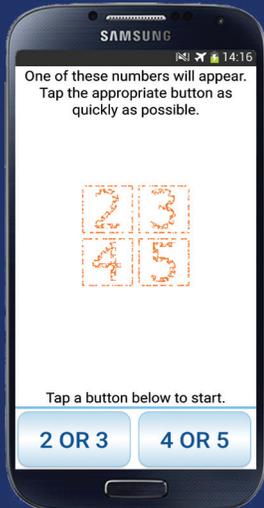
DANA

the brain
thermometer™

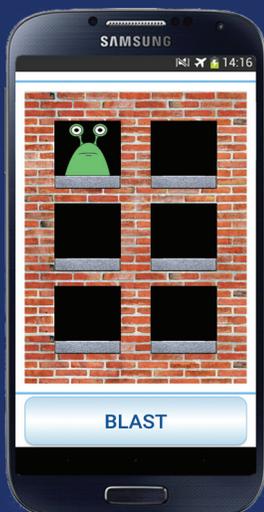
Defense Automated Neurobehavioral Assessment



Simple Reaction Time (SRT) instruction screen



Procedural Reaction Time (PRT) instruction screen



Go/No Go test screen

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.

DANA Configurations

DANA Brain Vital

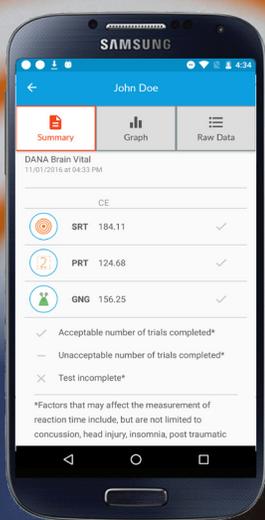
Enables Role of Care 1 providers (e.g. Combat Medics or Corpsmen) to accurately and objectively assess Warfighters' cognitive function in under five minutes. Utilizes Simple Reaction Time, Procedural Reaction Time, and Go/No Go Tests.

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

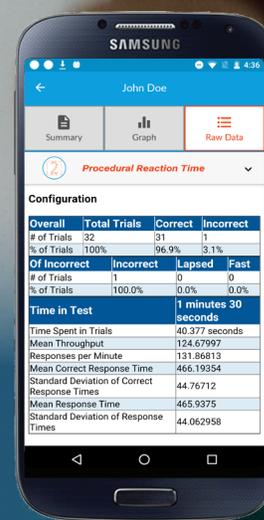
Can be configured to include any combination of individual cognitive and psychological tests.



Summary Report Screen



PRT results over time



Detailed PRT results

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.**

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*.

DANA Brain Vital (5 Minutes)

Simple Reaction Time

Procedural Reaction Time

Go/No-Go

DANA Standard (20 Minutes)

Simple Reaction Time

Code Substitution (Learning)

Procedural Reaction Time

Spatial Processing

Go/No-Go

Matching to Sample

Memory Search (Sternberg)

Simple Reaction Time

Patient Health Questionnaire (PHQ-8)

Insomnia Severity Index (ISI)

DANA Modular (Varies)

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

Individual cognitive tests can be modified to change parameters, including the number of trials.

Additional tests available include:

- Combat MACE interview
- Combat Exposure Scale (CES)
- PTSD Check List – Military Version (PCL-M)
- Deployment Stress Inventory (DSI)
- Code Substitution (Recall)
- Pittsburgh Sleep Quality Index (PSQI)
- Primary Care PTSD screen (PC-PTSD)
- Stanford Sleepiness Scale

For more information:

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DANA

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