



US DEPARTMENT OF DEFENSE

# BLAST INJURY RESEARCH PROGRAM COORDINATING OFFICE

## Diagnostics

### New Technologies for Assessing Brain Injury (Science Technology Objectives Demonstration: Brain in Combat, Program Management)

Researchers at AnthroTronix, Inc. and BrainScope® Company, Inc., sponsored by Army and Navy through USAMRMC Military Operational Medicine Research Program (MOMRP), are developing technologies for the detection and assessment of brain injury. The Defense Automated Neurobehavioral Assessment (DANA), AnthroTronix is a mobile software application that includes a comprehensive set of assessment tools designed to assist forward medics by enabling earlier and more accurate detection of neurocognitive impairment from concussion, combat-related psychological distress, and/or deployment-related exhaustion. The software also provides tools to aid psychologists and healthcare professionals in diagnosis. The Ahead® 100 device (BrainScope) uses a patient's electroencephalograph to provide an interpretation of the structural condition of the brain following head injury. Ahead® 100 is indicated for use as an adjunct to standard clinical practice to aid in the evaluation of patients who are being considered for a head CT scan. Both the DANA and the Ahead® 100 received FDA clearance in 2014 and are improving the detection and assessment of brain injury in the prehospital and hospital settings.