

# **Internet Enabled Aviator Neuropsychological Assessment**

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## **Abstract**

**Background:** WRAMC Neuropsychology service has been aggressively studying and implementing web-based neuropsychological applications. An interactive website was developed to provide information, neuropsychological testing services and data storage. Studies measuring cognitive baseline data from initial entry rotary wing aviators (Ft. Rucker) and highly experienced special operations aviators (Ft. Campbell, KY) are being conducted to develop an ARMY Aviation uniform database which may be later integrated with the Virtual Flight Surgeons Office.

**Methods:** Using the ARMY Neuropsychology website, Ft. Campbell's highly experienced rotorcraft aviators undergo cognitive testing to examine convergent validity of select neuropsychological variables (derived from ANAM, CogScreen & SynWin). The findings are contributed to the database. Web site functionality provides a brief history questionnaire NHQ-AE (collects demographic information and an abbreviated medical history) that can be expanded for general clinical use in Neuropsychological evaluations. Test battery includes USARMY-Aeromedical Cognitive Assessment Tool (USA-ACAT), which can be used to gather cognitive baseline data for all Army Aviators as well as ANAM, CogScreen, MicroCog, and SynWin.

**Results and Conclusions:** Web-based services may be used as a resource in the Army Psychologist's Field Kit as well as deliver global access to Neuropsychological Services.