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Internet Enabled Aviation Neuropsychological Assessment

The importance of conducting neuropsychological assessments on aviators has increased over the last decade in both the military and commercial sectors. The ability to assess cognitive status remotely, through the use of computer automated neuropsychological assessment devices could greatly reduce the cost of neuropsychological assessment and allow for the development of military unique applications. Additionally, the ease with which such neuropsychological evaluations can be administered would allow the military to easily obtain individual baseline cognitive functioning levels. Such baselines could prove invaluable should future cognitive impairments arise in an individual. An important step in the implementation of this new assessment tool is to compare the measure to a neuropsychological screening instrument that has already been validated.

Research Objectives include:

- Coordinate remote, Internet enabled, data collection of 160th SOAR aviators baseline neuropsychological performance using ANAM, CogScreen, and SynWin.
- Conduct a validation study comparing a computerized neuropsychological assessment measure, Automated Neuropsychological Assessment Metric 2001 (ANAM2001) to CogScreen, a neuropsychological screening instrument in use by the FAA for screening civilian pilots.
- Gather data to potentially justify the reduction of the number of variables for future validation studies
- Examine the future potential use of ANAM2001 and SynWin as a neuropsychological screening instrument for aviators throughout the Army.

Correlational analyses of convergent and discriminant validity are pending completion of data collection. The website can be found at: <https://consult.wramc.amedd.army.mil/neuropsych>

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Funded by
USAMRMC/Telemedicine and
Advanced Technology
Research Center