

181. MEDICAL AND PHYSIOLOGICAL DATABASE SYSTEM

PROJECT AT-A-GLANCE

- **AST RDAB POC:** Graham, Doug
- **AST RESEARCH AREA:** 3.1 Human Spaceflight - Physiology & Medicine
- **PRINCIPAL INVESTIGATOR:** Vanderploeg, Jim
- **EXECUTION ENTITY:** UTMB
- **PERIOD OF PERFORMANCE:** Jan 3, 2011 - Jan 4, 2013
- **STATUS:** Ongoing

PROJECT DESCRIPTION

PURPOSE: This is a highly significant project in that the developing industry of commercial space tourism will soon involve hundreds to thousands of individuals. These individuals will cover a wide range of ages and medical conditions about which we have very limited information.

OBJECTIVES: The objectives of this project are to identify appropriate data elements about the health and physiologic status of commercial space flight participants (SFPs), and to recommend a scalable design for a database system to store this data.

GOALS: Enable safe space flight for a wide range of individuals with a variety of existing medical problems by improving pre-flight medical screening criteria and a solid basis on which operators can make informed decision about the suitability of prospective customers.

Identify database structure, infrastructure needs required to support such a database, an implementation plan to do the programming and equipment acquisition to bring this database into existence, and the evidence base on which to provide informed consent information to passengers. It is beyond the scope of the available budget proposed for this project to accomplish the actual implementation.

STATEMENT OF WORK

1. Identify the appropriate data elements and the design structure for a consolidated database
2. Identify and document the infrastructure and processes for capturing data from pre-flight, in-flight, and postflight assessments and from research studies performed during suborbital and orbital flights.