

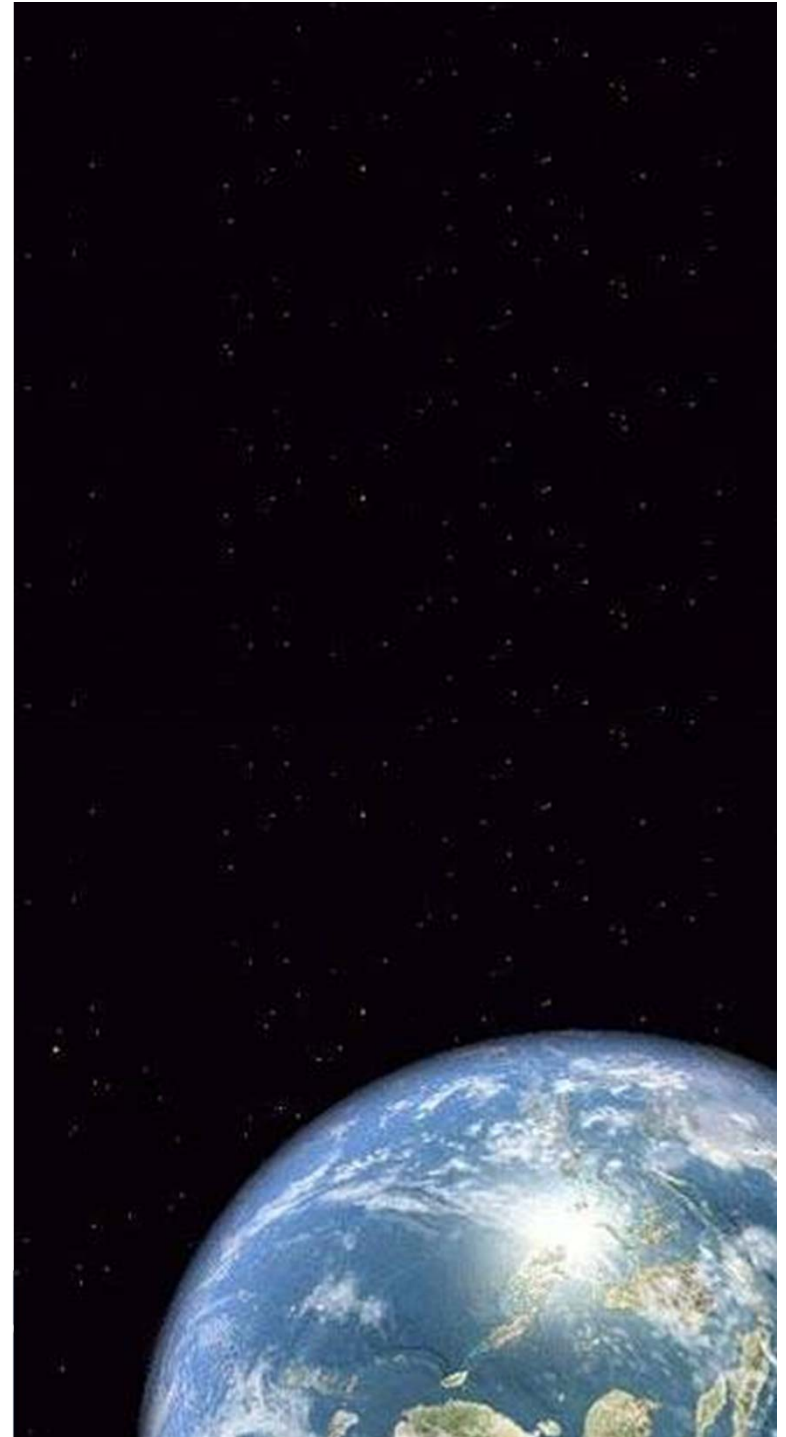


COE CST First Annual Technical Meeting:

Flight Crew Medical Standards and Passenger Acceptance Guidelines

Richard T. Jennings, MD

November 10, 2011





COE CST First Annual Technical Meeting (ATM1)
November 9 & 10, 2011



Federal Aviation
Administration

Overview

- Team Members
- Purpose of Task
- Research Methodology
- Results or Schedule & Milestones
- Contact Information

Team Members

- Melchor Antunano, MD, MS, FAA CAMI
- Smith Johnston, MD, MS, NASA-JSC
- Vernon McDonald, PhD, Wyle
- Jan Stepanek, MD, MPH, Mayo Clinic Scottsdale
- Mark Campbell, MD, Paris Surgical Associates
- Col Steve Nagel, NASA-JSC, University of Missouri
- Leigh Lewis, MD, MPH UTMB/FAA CAMI*
- Chuck Mathers, MD, MPH UTMB*
- Jim Vanderploeg, MD, MPH UTMB (Co-PI)

Objectives

- Develop recommendations for the medical standards for suborbital and orbital space vehicle crew members
- Develop recommendations for passenger acceptance criteria for suborbital and orbital flight
- Develop a passenger ‘Informed Consent’ document for space launch operators and flight surgeons to convey risks related to personal medical status

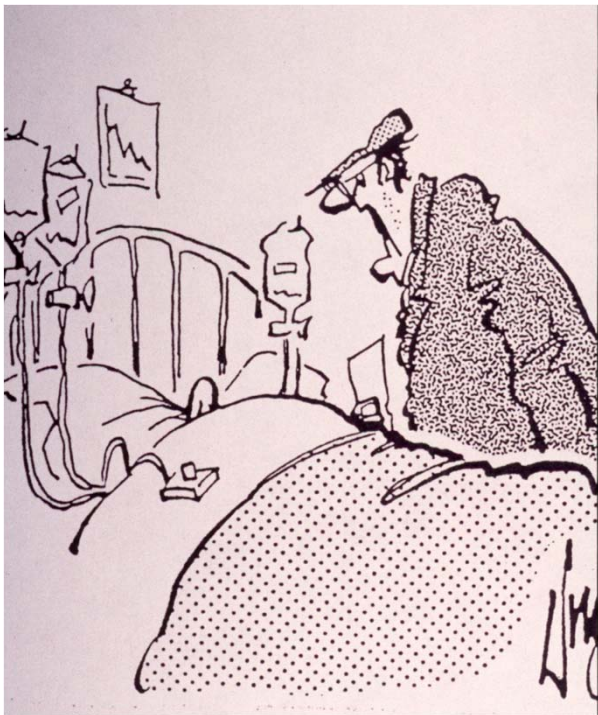
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Research Methodology

- Expert review of existing documents addressing space flight crew member medical certification, passenger medical evaluation guidelines, and testing and training recommendations for crew members and passengers(GOMSAT).
- Prepare a draft document incorporating standards/guidelines and recommendations identified in Phase One and distribute for review/input to individuals, agencies, organizations, and companies involved in commercial space flight.

“At least you can still
be a spaceflight passenger.”



Research Methodology

- Convene a working group of company representatives and experts in aerospace medicine and physiology, operations, training, safety, and commercial space flight to consider comments from Phase One and prepare recommendations for the medical certification of crew members, medical clearance guidelines of passengers, and recommended training procedures
- Conduct a preliminary study of the information that is required for passengers to receive appropriate risk-based “Informed Consent.” Analyze and test the language competency most appropriate for use in individuals with limited English language capability

Results or Schedule/Milestones

- Phase I document completed and distributed for review
- Updated document to be distributed by end of 2011
- Phase 2 meeting of players in Feb-March 2012
- Final Document to FAA by June 30, 2012
- Informed Consent Dec 31



**Flight Crew Medical Guidelines
and Passenger Acceptance Criteria
for Commercial Space Flight:
Phase I Recommendations**



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