Task Book Report Generated on: 04/19/2024

Project Title: Validation of On-Orbit Methodology for the Assessment of Cardiac Function and Changes in the Circulating Volume United States (Control Methodology for the Assessment of Cardiac Function and Changes in the Circulating Volume United States (Control Methodology for the Assessment of Cardiac Function and Changes in the Circulating Volume United States (Control Methodology for the Assessment of Cardiac Function and Changes in the Circulating Volume United States (Control Methodology for the Assessment of Cardiac Function Cardiac Function (Control Methodology for the Assessment of Cardiac Function Cardiac Function (Control Methodology for the Assessment of Cardiac Function Cardiac Function (Control Methodology for the Assessment of Cardiac Function Ca	Fiscal Year:	FY 2007 Task	Last Undated	FV 02/19/2009
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Contact Email: sharmila.watkins@nasa.gov Flight Program: ISS Flight Assignment: ISS 16, 18 Key Personnel Changes/Previous PI: COI Name (Institution): Alferova, Irina (Institute for Biomedical Problems, Moscow, Russia) Dulchavsky, Scott (Henry Ford Hospital System, Detroit, MI) Ebert, Douglas (Wyle Laboratories) Hamilton, Douglas (Wyle Laboratories) Matveev, Vladimir (Gagarin Cosmonaut Training Center, Star City, Russia) Sargsyan, Ashot (Wyle Laboratories) Grant/Contract No.: Performance Goal No.:	No. of Bachelor's Candidates:		itoring Center:	NASA JSC
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Task Book Report Generated on: 04/19/2024

Task Description:

Validation of On-Orbit Methodology for the Assessment of Cardiac Function and Changes in the Circulating Volume Using Ultrasound and Braslet-M Occlusion Cuffs (Braslet) is Station Development Test Objective (SDTO) 17011 sponsored by NASA and Russian Federal Space Agency (FSA). Braslet is testing the performance of occlusion cuffs in modifying fluid shifts that occur early during physiological transition into the space environment. Understanding the effects of this countermeasure on cardiovascular function will be useful for both medical operations and future research. See also http://www.nasa.gov/

Rationale for HRP Directed Research:

Space Applications

This SDTO will provide refinements in remote guidance techniques which will allow detailed ultrasound exams to be performed in space with remote guidance by technicians and physicians on the ground. This will enhance the diagnostic and research capabilities of the ISS ultrasound. Data will also be collected regarding the utility and potentially expanded uses of the Braslet-M device for both ISS and exploration class missions. A more detailed understanding of the cardiovascular response to microgravity-induced fluid shifts will also be gained from this work.

Research Impact/Earth Benefits:

Earth Applications

Refinements in remote guidance techniques provided by Braslet will similarly allow detailed ultrasound exams to be performed in terrestrial locations remote from experienced ultrasound technicians and physicians. Examples include rural clinics, disaster areas, and military applications. Additionally, during this SDTO data will be collected regarding the physiological responses to altered circulatory volume distribution which may lend insight to the diagnosis and treatment of terrestrial conditions (such as cardiovascular disease) which result in altered fluid status.

Task Progress:

New project for FY2007. Task added to Task Book in February 2009.

Bibliography Type:

Description: (Last Updated: 08/30/2018)