Task Book Report Generated on: 03/29/2024

Division Name: Human Research Program/Discipline- Element/Subdiscipline: HUMAN RESEARCH—Biomedical countermeasures Element/Subdiscipline: Human Research Program Elements: None Space Biology Cross-Element Discipline: None Space Biology Cross-Element Discipline: None PI Email: Seven platts-I@mass.gov Fax: FY 281-244-5090 PI Organization Type: NASA CENTER Nospace Center PI Address 1: Cardiovascular Laboratory PI Address 2: Biomedical Research and Environmental Sciences Division PI Web Page: City: Houston State: TX Zip Code: T7058 Congressional District: Solicitation / Funding Solicitation / Funding Nospace Houston State: No. of Pab Degress: No. of Pab Degress: No. of Pab Degress: No. of Pab Deardidates: No. of Pab Degress: No. of Bachelor's Candidates: No. of Candidates: No. of Candidates: No. o	TO 1 37	EV 2012	m 1 x 4 x 1 x 1 x 1	EV 00/20/2011
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Human Research Program Risks: None Space Biology Element: None Space Biology Cross-Flement Discipline: None Space Biology Cross-Flement Discipline: Space Biology Special Category: None PI Email: seven platts 60 mass gov	Joint Agency Name:		TechPort:	No
Space Biology Cross-Element Space Biology Cross-Element Space Biology Cross-Element Space Biology Special Category: Space Biology Special Category: None PI Email: steven.platts-1/fanasa.gov Fax: FY 281-244-5090 PI Organization Type: NASA CENTER Phone: 281-483-8177 Organization Type: NASA CENTER Phone: 281-483-8177 Organization Name: PI Address 1: Cardiovascular Laboratory PI Address 2: Biomedical Research and Environmental Sciences Division PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: FLIGHT Solicitation / Funding 2010 Crew Health NNJ10ZSA003N Start Date: 1001/2011 End Date: 0930/2015 No. of PhD Degrees: No. of PhD Degrees: No. of PhD Candidates: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Candidate	Human Research Program Elements:	(1) HHC :Human Health Countermeasures		
Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: Steven platts-1 (2010 as 201) PI Coganization Type: NASA CENTER NASA Johnson Space Center PI Address 1: Cardiovascular Laboratory PI Address 2: Biomedical Research and Environmental Sciences Division PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: FLIGHT Solicitation / Funding Source: NNo. of Phot Degrees: No. of Phot Docs: No. of Phot Docs: No. of Phot Docs: No. of Phot Docs: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: Salemann, David david k baumann@masa.gov Flight Program: ISS Flight Assignment: Lee, Stuart (Wyle Laboratories, Inc.) Ploutz-Snyder, Robert (Universities Space Research Association) Smith, Sout (NaSA) Johnson Space Center Swesty Performance Goal No.:	Human Research Program Risks:	None		
Space Biology Special Category: None PI Email: steven platts-1@mass.gov, Fax: FY 281-244-5090 PI Email: steven platts-1@mass.gov, Fax: FY 281-244-5090 PI Organization Type: NASA Denson Space Center Pl Address 1: Cardiovascular Laboratory PI Address 2: Biomedical Research and Environmental Sciences Division PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: FLIGHT Solicitation / Funding 2010 Crew Health Source: NNJ10ZSA003N Start Date: 1001/2011 End Date: 09/30/2015 No. of Post Does: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Degrees: No. of Master's Degrees: No. of Master's Degrees: No. of Master's Degrees: No. of Bachelor's Candidates: Monitoring Center: NASA JSC Contact Monitor: Baumann, David Contact Phone: Contact Email: david k haumann@mass.gov Flight Program: ISS Key Personnel Changes/Previous PI: Lee, Stuart (Wyle Laboratories, Inc.) Ploutz-Snyder, Robert (Universities Space Research Association) Semit, Scott (NASA Jabonans Space Center) Stenger, Michael (Wyle Laboratories, Inc.) Poster (Wyle Laboratories, Inc.) Westby, Christian (Universities Space Research Association) Grant/Contract No.: Internal Project	Space Biology Element:	None		
PI Email: steven.platts-1@nass.gov Fax: FY 281-244-5090 PI Organization Type: NASA CENTER Phone: 281-483-8177 Organization Name: NASA Johnson Space Center PI Address 1: Cardiovascular Laboratory PI Address 2: Biomedical Research and Environmental Sciences Division PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: Project Type: FLIGHT Solicitation / Funding Source: NNIIOZSA003N Start Date: 10/01/2011 End Date: 09/30/2015 No. of Post Docs: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: Monitoring Center: NASA JSC Contact Monitor: Baumann, David Contact Phone: Contact Email: david.k.baumann@nass.gov Flight Program: ISS Flight Assignment: Key Personnel Changes/Previous PI: Lee, Stuart (Wyle Laboratories, Inc.) Polouze-Stayder, Robert (Universities Space Research Association) Smith, Scott (NASA) Johnson Space Center) Stenger, Michael (Wyle Laboratories, Inc.) Westby, Christian (Universities Space Research Association) Grant/Contract No.: Internal Project	Space Biology Cross-Element Discipline:	None		
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Flight Assignment: Key Personnel Changes/Previous PI: Lee, Stuart (Wyle Laboratories, Inc.) Ploutz-Snyder, Robert (Universities Space Research Association) Smith, Scott (NASA Johnson Space Center) Stenger, Michael (Wyle Laboratories, Inc.) Westby, Christian (Universities Space Research Association) Grant/Contract No.: Internal Project Performance Goal No.:	Contact Email:	david.k.baumann@nasa.gov		
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Performance Goal No.:	COI Name (Institution):	Ploutz-Snyder, Robert (Universities Space Re Smith, Scott (NASA Johnson Space Center) Stenger, Michael (Wyle Laboratories, Inc.)		
	Grant/Contract No.:	Internal Project		
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Task Book Report Generated on: 03/29/2024

Task Description:

Atherosclerosis is the major contributor to cardiovascular disease-related morbidity and mortality. Research indicates that many of the risk factors commonly associated with atherosclerosis contribute to endothelial dysfunction, a process which presents early in life before angiographic evidence of disease and precedes the clinical manifestation of many cardiovascular disease-related disorders. In an effort to compensate for the initial risk factor-related disruptions to homeostasis, there is a compensatory upregulation of atheroprotective mechanisms. However, in the absence of appropriate risk factor management, these defense mechanisms may become overwhelmed and less able to reestablish normal function. Key systems that help maintain vascular homeostasis, and are susceptible to differential deleterious alterations, include those that help balance levels of oxidative and inflammatory stress. New evidence suggests that long duration spaceflight may promote oxidative and inflammatory stress through mechanisms such as radiation exposure, diet, physical inactivity, and psychological stress. However, there are no data supporting a causal link between biomarkers of oxidative and inflammatory stress and indices of vascular endothelial dysfunction in space flight. As such, we propose to examine the relation between biomarkers of oxidative and inflammatory stress and well established measures of vascular endothelial dysfunction (flow mediated dilation (FMD) and carotid intima-media thickness (CIMT)), in astronauts before, during, and after long duration spaceflight.

Rationale for HRP Directed Research:

Research Impact/Earth Benefits:

Task Progress:

New project for FY2012.

Bibliography Type:

Description: (Last Updated: 03/01/2018)