Task Book Report Generated on: 05/08/2024

PI Name: Smith, Scott M Ph.D. Project Title: Dietary Intake Can Predict and Protect Against Changes in Bone Metabolism During Space Flight and Recovery (Pro-K) Division Name: Human Research Program/Discipline- Element/Subdiscipline: Joint Agency Name: TechPort: No Human Research Program Elements: (1) HHC:Human Health Countermeasures Human Research Program Risks: (1) Food and Nutrition:Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition (2) Nutrition:Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition (3) Renal Stone:Risk of Renal Stone Formation Space Biology Element: None Space Biology Cross-Element Discipline: None PI Email: Scott.m.smith@nasa.gov Fax: FY 281-483-2888 PI Organization Type: NASA CENTER Phone: 281-483-7204 Organization Name: NASA Johnson Space Center PI Address 1: Biomedical Research and Environmental Sciences Division/SK3 PI Address 2: 2101 NASA Pkwy PI Web Page: City: Houston State: TX	F:I V	EV 2000	T1-14 II-1-4-1-	EV 05/14/2000
Project Title: Dietary Intake Can Predict and Protect Against Changes in Bone Metabolism During Space Flight and Recovery (Pro-K) Division Name: Human Research Program/Dicipline: Program/Dicipline: HUMAN RESEARCH	Fiscal Year:	FY 2009	Task Last Updated:	FY 05/14/2009
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Task Book Report Generated on: 05/08/2024

Task Description:	Bone loss is not only well documented among astronauts during space flight, but it is a condition that also affects millions of men and women on Earth each year. Many countermeasures have been proposed, and evaluated to several degrees of completion. To date, those showing potential have focused on either exercise or pharmacological interventions, but none have specifically investigated dietary intake alone as a factor to predict or minimize bone loss during space flight. We propose to document how the ratio of acid to base precursors in the diet is related to directional changes in markers of bone resorption and formation during flight and recovery from flight. There is a high likelihood for success in predicting the extent of bone loss from dietary intake patterns among astronauts during space flight given that this concept is strongly anchored in previous ground-based data from our laboratory and others. The notion of manipulating diet to minimize bone loss could also have significant social and economic impacts for NASA and for the general public - especially given the increasing trends for diets that are high in animal protein and low in fruits and vegetables. The proposed experiments will result in a dietary countermeasure for bone loss that has no associated risks for side effects, no requirement for payload mass, and no additional crew time necessary during flight.	
Rationale for HRP Directed Research		
Research Impact/Earth Benefits:	This protocol will provide valuable data that will contribute to understanding and counteracting the bone loss of weightlessness - and more importantly will provide a dietary countermeasure to mitigate spaceflight-induced bone loss that does not have any associated risks for side effects, requires no payload mass, and will not require any additional crew time. In addition, the knowledge gained will have a significant impact on the general public, who has become accustomed to high-protein diets.	
Task Progress:	To date, following selection, the protocol has been reviewed and modified based on feasibility assessments. Initial documentation has been completed. CPHS review and approval of the modified protocol was obtained in November, 2008. Final select for flight decision was approved on January 5, 2009. Crew briefings have been initiated, and initial preflight data collections have commenced. The first set of inflight food has been packaged and delivered to KSC for launch on STS-127.	
Bibliography Type:	Description: (Last Updated: 05/24/2023)	