Task Book Report Generated on: 04/17/2024

Prince: Rianon, Nahid M.D. Project Title: Fffeets of Angistensis Converting Enzyme Inhibitors (ACFI) on Hone Turnover  Division Name: Human Research Program Dicipline: HUMAN RESEARCH Program Dicipline: HUMAN RESEARCH Element/Subdiscipline: HUMAN RESEARCH Program Dicipline- Element/Subdiscipline: HUMAN RESEARCH-Biomedical countermeasures  Element/Subdiscipline: (I) HIRCHoman Health Countermeasures  (I) Bane Fracture Risk of Bone Fracture due to Spacedlight-induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight-Induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight-Induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight-Induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight-Induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight-Induced Changes to Bone (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Onset Osteoporous Due To Spacedlight (2) Ostor-Risk of Early Ostor-R				
Project Title: Effects of Angiotensia Converting Enzyme Inhibitors (ACEI) on Bone Tumover  Division Name: Human Research Program/Discipline: HUMAN RESEARCH Program/Discipline: HUMAN RESEARCH HUMAN RESEARCH HUMAN RESEARCH—Biomedical countermeasures  Joint Agency Name: TechPort: No  Human Research Program Elements: (1) HIICHman Health Countermeasures  Joint Agency Name: TechPort: No  Human Research Program Risks: (2) Bone Fracture-Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Octoo Risk Of Early Onset Osteoporosis Due To Spaceflight  None  Space Biology Element: None  Program Risks: (3) Bone Fracture-Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Octoo Risk Of Early Onset Osteoporosis Due To Spaceflight  None  Space Biology Element: None  Program Risks: (1) Bone Fracture-Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Octoo Risk Of Early Onset Osteoporosis Due To Spaceflight  None  Space Biology Element: None  Program Risks: (1) Bone Fracture-Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Octoo Risk Of Early Onset Osteoporosis Due To Spaceflight  None  Program Risks: (1) Bone Fracture-Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Octoo Risk Of Early Onset Osteoporosis Due To Spaceflight  None  Program Risks: (1) Bone Fracture-Risk of B	Fiscal Year:	FY 2016	Task Last Updated:	FY 03/23/2016
Division Name: Human Research Program/Discipline: HUMAN RESEARCH—Biomedical countermeasures Element/Subdiscipline: HUMAN RESEARCH—Biomedical countermeasures Element/Subdiscipline: HUMAN RESEARCH—Biomedical countermeasures Element/Subdiscipline: No Element/Subdiscipline: Oi IIIIC-Human Health Countermeasures  Human Research Program Elements: (1) IIIIC-Human Health Countermeasures  Human Research Program Elements: (1) IIIIC-Human Health Countermeasures  Human Research Program Risks: (1) IIIIC-Human Health Countermeasures  Unservative Risk (1) Earth Countermeasures  Human Research Program Risks: (1) IIIIC-Human Health Countermeasures  Human Research Program Risks: (1) IIIIC-Human Health Countermeasures  Unservative Risk (1) Earth Countermeasures  None  Space Biology Element: None  Space Biology Element: None  None  Space Biology Special Category: None  PI Email: Nabid J. Rismon@uth. rmc.eda Fax: PY  PO Organization Type: UNIVERSITY  None  Space Biology Special Category: None  PI Email: Nabid J. Rismon@uth. rmc.eda Fax: PY  PI Organization Type: UNIVERSITY  Organization Type: UNIVERSITY  Organization Name: University of Texas Houston Health Science Center  PI Address 1: Internal Medicine, Div of Geriatrics & Pullintive Medicine  PI Address 2: 6431 Fannin St  PI Web Page:  City: Houston State: TX  Zip Code: 7030-1501 Congressional District: 9  Comments:  Project Type: GROUND Solicitation / Funding 2012 Crow Health Source: NNJ1278A002N  Start Date: 1001/2013 End Date: 1231/2015 No. of Phal Degrees: 0  No. of Phal Degrees: 0  No. of Phal Candidates: 0 No. of Master' Express: 0  No. of Phal Candidates: 0 No. of Master' Suggrees: 0  No. of Bachelor's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degre	PI Name:	Rianon, Nahid M.D.		
Program Discipline:   IIUMAN RESEARCTI	Project Title:	Effects of Angiotensin Converting Enzyme Inhibitors	(ACEI) on Bone Turnover	
Program/Discipline— Element/Subdiscipline— Element/Subdiscipline Element/Subdisciplion Element/Subdiscipline Element/Subdiscipline Element/Subdiscipline E	Division Name:	Human Research		
Element/Subdiscipline: HUMAN RESEARCH—Bomedical countermeasures    Joint Agency Name:   TechPort:   No	Program/Discipline:	HUMAN RESEARCH		
Human Research Program Elements: (1) HHC-Human Health Countermeasures  Human Research Program Risks: (1) Bone Fracture:Risk of Bone Fracture due to Spaceflight-induced Changes to Bone (2) Osteo-Risk of Farly Onset Osteoperosis Due To Spaceflight  Space Biology Element: None  Space Biology Cross-Element None  Space Biology Cross-Element None  None  Pl Email: None  Pl Email: None  Pl Conganization Type: UNIVERSITY Phone: 832-878-0614  Organization Type: UNIVERSITY Phone: 832-878-0614  Organization Name: University of Texas Houston Health Science Center  Pl Address 1: Internal Medicine, Div of Geriutrics & Palliative Medicine  Pl Address 2: 6431 Famin St  Pl Web Page:  City: Houston State: TX  Zip Code: 77030-1501 Congressional District: 9  Comments:  Project Type: GROUND Solicitation / Funding 2012 Crew Health Source: NNJ12ZSA002N  Start Date: 1001/2013 End Date: 12/31/2015  No. of Post Does: 0 No. of Past Does: 0 No. of Hashelor's Degrees: 0  No. of Master's Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA ARC  Contact Monitor: Rosca, April Elizabeth Contact Phone: 650,400,6019  Contact Email: april cronea-1/2/musa.gov  Flight Program:  NOTE: Extended to 1/231/2015 per A. Chu/ARC and NISSC information (Ed., 7/28/15)  NOTE: Extended to 9/30/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution): Smith, Scott (NASA Johnson Space Center)  NNX13AQ92G	Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHBiomedical countermeasures		
Human Research Program Risks:  (1) Bone Fracture:Risk of Bone Fracture due to Spaceflight induced Changes to Bone (2) Osteo:Risk Of Early Onset Osteoperosis Due To Spaceflight  Space Biology Cross-Element  None  None  None  None  PI Email:  Nahid_J.Riano@uth.tme.edn  PI Organization Type:  UNIVERSITY  Phone: 832-878-0614  Organization Name:  University of Texas Houston Health Science Center  PI Address 1:  Internal Medicine, Div of Geriatries & Palliative Medicine  PI Address 2:  6431 Fannin St  PU Web Page:  City:  Houston  State: TX  Zip Code:  Comments:  Project Type:  GROUND  Solicitation / Funding Source: NNJ12ZSA002N  Start Date:  10/01/2013  End Date: 12/31/2015  No. of PhD Candidates:  0  No. of PhD Candidates:  0  No. of PhD Candidates:  0  No. of Master's Candidates:  0  No. of Master's Candidates:  0  No. of Master's Candidates:  NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Smith, Scott (NASA Johnson Space Center)  Grant/Contract No.:  NNX13AQ92G  Performance Goal No.:	Joint Agency Name:		TechPort:	No
Space Biology Element: None Space Biology Cross-Element None Space Biology Cross-Element Discipline: None PI Email: Nahd J Riamon@aithtme.edu PI Caralization Type: UNIVERSITY Phone: 832-878-0614  Organization Name: University of Texas Houston Health Science Center PI Address 1: Internal Medicine, Div of Geriatrics & Palliative Medicine PI Address 2: 6431 Fannin St PI Web Page: City: Houston State: TX Zip Code: 77030-1501 Congressional District: Project Type: GROUND Solicitation / Funding Source: NNU1225A002N Start Date: 10/01/2013 End Date: 12/31/2015 No. of Post Does: 0 No. of Post Does: No. of Post Does: No. of Post Deses: 0 No. of Master's Candidates: 0 No. of Master's Candidates: 0 No. of Bachelor's Candidates: NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15) NOTE: Extended to 19/30/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14) Everyment Contract Changes/Previous PI: COI Name (Institution): Smith, Scott (NASA Johnson Space Center) Grant/Contract No.: NNX13AQ92G Performance Goal No.:	<b>Human Research Program Elements:</b>	(1) <b>HHC</b> :Human Health Countermeasures		
Space Biology Cross-Element Discipline:  None  Space Biology Special Category:  None  Pt Email:  Nahid J Riamon@uth.tme.edu  Pt Organization Type:  UNIVERSITY  Phone: 832-878-0614  Organization Name:  University of Texas Houston Health Science Center  Pt Address 1:  Internal Medicine, Div of Geriatries & Palliative Medicine  Pt Address 2:  6431 Fannin St  Pt Web Page:  City:  Houston  77030-1501  Congressional District:  Project Type:  GROUND  Solicitation / Funding Source:  NNJ12ZSA002N  Start Date:  10/01/2013  End Date:  12/31/2015  No. of Phot Deardidates:  No. of Phot Candidates:  No. of Master' Degrees:  0  No. of Master' Degrees:  0  No. of Master' Scandidates:  0  No. of Bachelor's Candidates:  NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15)  NOTE: Extended to 930/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Smith, Scott (NASA Johnson Space Center)  Grant/Contract No.:  NNX13AQ92G  Performance Goal No.:	Human Research Program Risks:			:
Space Biology Special Category: None  PI Email: Nahid.J.Rianon@uth.tmc.edu Fax: FY  PO organization Type: UNIVERSITY Phone: 832-878-0614  Organization Name: University of Texas Houston Health Science Center  PI Address 1: Internal Medicine, Div of Geriatrics & Palliative Medicine  PI Address 2: 6431 Fannin St  PI Web Page:  City: Houston State: TX  Zip Code: 77030-1501 Congressional District: 9  Comments:  Project Type: GROUND Solicitation / Funding 2012 Crew Health Source: NN1122SA002N  Start Date: 10/01/2013 End Date: 12/31/2015  No. of Phot Doadidates: 0 No. of Phot Degrees: 0  No. of Phot Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0  No. of Bachelor's Candidates: 0 Monitoring Center: NASA ARC  Contact Email: april.s ronea-1@mass acov  Flight Assignment: NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15)  NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution): Smith, Scott (NASA Johnson Space Center)  Grant/Contract No.: NNX13AQ92G  Performance Goal No.:	Space Biology Element:	None		
PI Email: Nahid J Riamon@muth tme.edu Fax: FY PI Organization Type: UNIVERSITY Phone: 832-878-0614 Organization Name: University of Texas Houston Health Science Center PI Address 1: Internal Medicine, Div of Geriatries & Palliative Medicine PI Address 2: 6431 Fannin St PI Web Page: City: Houston State: TX Zip Code: 77030-1501 Congressional District: 9 Comments: Project Type: GROUND Solicitation / Funding Source: NNIJIZZSA002N Start Date: 10/01/2013 End Date: 12/31/2015 No. of Post Docs: 0 No. of Master' Degrees: 0 No. of PhD Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Monitoring Center: NASA ARC Contact Monitor: Ronca, April Elizabeth Contact Phone: 650.400.6019 Elight Program: NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15) NOTE: Extended to 9/30/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14) Key Personnel Changes/Previous PI: COI Name (Institution): Smith, Scott (NASA Johnson Space Center) NNX13AQ92G Performance Goal No.:	Space Biology Cross-Element Discipline:	None		
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Project Type:  GROUND  Solicitation / Funding Source: NNJ12ZSA002N  Start Date:  10/01/2013  End Date: 12/31/2015  No. of Post Docs:  0 No. of PhD Degrees: 0  No. of PhD Candidates: 0 No. of Master' Degrees: 0  No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0  No. of Bachelor's Candidates: 0 Monitoring Center: NASA ARC  Contact Monitor: Ronca, April Elizabeth Contact Phone: 650.400.6019  Contact Email: april.e.ronca-1@nasa.gov  Flight Assignment:  NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15) NOTE: Extended to 9/30/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution): Smith, Scott (NASA Johnson Space Center)  Grant/Contract No.: NNX13AQ92G  Performance Goal No.:	Zip Code:	77030-1501	<b>Congressional District:</b>	9
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No. of Bachelor's Candidates:  Ronca, April Elizabeth Contact Phone:  NOTE: Extended to 12/31/2015 per A. Chu/ARC and NSSC information (Ed., 7/28/15)  NOTE: Extended to 9/30/2015 (original end date was 9/30/2014) per NSSC information and A. Chu/ARC (Ed., 9/10/14)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Smith, Scott (NASA Johnson Space Center)  NNX13AQ92G  Performance Goal No.:	No. of PhD Candidates:	0	No. of Master' Degrees:	0
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Grant/Contract No.: NNX13AQ92G Performance Goal No.:	Key Personnel Changes/Previous PI:			
Performance Goal No.:	COI Name (Institution):	Smith, Scott ( NASA Johnson Space Center )		
	Grant/Contract No.:	NNX13AQ92G		
Performance Goal Text:	Performance Goal No.:			
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Task Book Report Generated on: 04/17/2024

Task Description:	Antihypertensive medications affecting the renin-angiotensin system (RAS), specifically angiotensin converting enzyme inhibitor (ACEI), have been documented to decrease bone turnover in animals, and improved bone mineral density (BMD) in preliminary human studies. We propose a randomized trial to collect pilot data in 30 men and 30 women (15 treated with ACEI and 15 not treated with RAS related medications) to investigate if ACEI prevents bone loss by decreasing bone turnover. We hypothesize that ACEI use for 3 months to treat hypertension (HTN) in older adults will decrease bone turnover by decreasing bone resorption, the primary factor in spaceflight induced bone loss. These results could provide another tool in protecting bone health of astronauts, using a pharmacological agent with very few side effects, which is a significant concern of agents currently being tested. Further, these data may also help understand variability in existing spaceflight data, where crewmembers may have taken antihypertensive medications, which may have confounded results of ongoing studies. Beyond NASA, the clinical implications of this study for the general population are significant.
Rationale for HRP Directed Research	:
Research Impact/Earth Benefits:	Provide knowledge of prevention in bone loss due to old age.
Task Progress:	We were able to recruit 32 patients with hypertension $-22$ of them were female and 10 of them were male. A total of 9 males (with 4 without exposure to ACEi and 5 with exposure to ACEi) and 15 females (10 without exposure to ACEi) and 5 with exposure to ACEi) (total $N = 24$ ) completed the study with 3 month follow up visit.
	We have completed DXA (dual-energy X-ray absorptiometry) bone density tests in spine and hip regions at baseline for the participants.
	We have completed serum sample analysis and data entry from the chart review. Data analysis is pending at this time. We plan to publish after completion of data analysis.
Bibliography Type:	Description: (Last Updated: )