Task Book Report Generated on: 04/19/2024

Fiscal Year:	FY 2013	Task Last Updated:	FY 08/23/2013
PI Name:	Wotring, Virginia Ph.D.		
Project Title:	Development of Methods/Technologies for Med	lication Stability and Shelf-life	
Division Name:	Human Research		
Program/Discipline:	HUMAN RESEARCH		
Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHBiomedical countermea	isures	
Joint Agency Name:		TechPort:	No
Human Research Program Elements:	(1) HHC :Human Health Countermeasures		
Human Research Program Risks:	(1) Pharm :Risk of Ineffective or Toxic Medicat	tions During Long-Duration Exploration Space	flight
Space Biology Element:	None		
Space Biology Cross-Element Discipline:	None		
Space Biology Special Category:	None		
PI Email:	Virginia.Wotring@bcm.edu	Fax:	FY
PI Organization Type:	UNIVERSITY	Phone:	
Organization Name:	Baylor College of Medicine		
PI Address 1:	Center for Space Medicine		
PI Address 2:	6500 Main St, Suite 910		
PI Web Page:			
City:	Houston	State:	TX
Zip Code:	77030	Congressional District:	9
Comments:	PI formerly with Universities Space Research A	ssociation until fall 2015.	
Project Type:	FLIGHT,GROUND	Solicitation / Funding Source:	Directed Research
Start Date:	01/31/2013	End Date:	12/31/2013
No. of Post Docs:		No. of PhD Degrees:	
No. of PhD Candidates:		No. of Master' Degrees:	
No. of Master's Candidates:		No. of Bachelor's Degrees:	
No. of Bachelor's Candidates:		Monitoring Center:	NASA JSC
Contact Monitor:	Norsk, Peter	Contact Phone:	
Contact Email:	Peter.norsk@nasa.gov		
Flight Program:	ISS		
Flight Assignment:	ISS		
Key Personnel Changes/Previous PI:			
COI Name (Institution):			
Grant/Contract No.:	Directed Research		
Performance Goal No.:			
Performance Goal Text:			
Task Description:	This study will analyze 9 expired medications the 40 units each). These medications include severantihistamines/decongestants, 3 pain relievers, a expired between February and June 2012. The Claunch dates, and for those medications that wer available, which is a significant drawback. Notw HPLC/MS methods described in the United State of intact active ingredient in each medication, id Without ground controls, we cannot answer the However, determination of the safety and efficar	al of the most heavily used by our crewmember n antidiarrheal, and an alertness medication. A linical Pharmacy has records of their lot numb re repackaged, repackaging dates. There are no vithstanding, we suggest that analysis should be es Pharmacopeia for each of these medications tentify degradation products, and measure their question of differences in flight-aging compare	rs: 2 sleep aids, 2 Il of these medications ers, purchase dates, control samples e conducted using the to measure the amount amounts as well.
	, , , , , , , , , , , , , , , , , , , ,	•	5

Task Book Report Generated on: 04/19/2024

	provide useful information on the stability of these medications and may help determine the priority of future studies.
Rationale for HRP Directed Research:	Pharmacology has obtained some medications that expired on the ISS and were returned on the fall 2012 SpaceX flight. These medications have now been inventoried by the Clinical Pharmacy and transferred to a stability chamber in the research laboratory, pending approval to proceed. A rapid determination of the safety and efficacy of these 9 heavily-used medications soon after storage on the ISS will be very informative.
Research Impact/Earth Benefits:	
Task Progress:	New project for FY2013.
Bibliography Type:	Description: (Last Updated: 12/24/2019)