Fiscal Year:	FY 2016	Task Last Updated:	FY 01/22/2016
PI Name:	Berdahl, John M.D.		
Project Title:	Equinox Balance Goggles: The Effects of Local Orbital Pr	essure Changes on Intra	aocular Pressure
Division Name:	Human Research		
Program/Discipline:			
Program/Discipline Element/Subdiscipline:	NSBRISmart Medical Systems and Technology Team		
Joint Agency Name:		TechPort:	No
Human Research Program Elements:	None		
Human Research Program Risks:	None		
Space Biology Element:	None		
Space Biology Cross-Element Discipline:	None		
Space Biology Special Category:	None		
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PI Organization Type:	INDUSTRY	Phone:	949-632-4639
Organization Name:	Equinox LLC		
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PI Address 2:			
PI Web Page:			
City:	Sioux Falls	State:	SD
Zip Code:	57108	Congressional District:	1
Comments:			
Project Type:	GROUND	Solicitation / Funding Source:	NSBRI-RFA-SMARTCAP
Start Date:	10/01/2015	End Date:	10/01/2016
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:	NSBRI
Contact Monitor:		Contact Phone:	
Contact Email:			
Flight Program:			
Flight Assignment:			
Key Personnel Changes/Previous PI:			
COI Name (Institution):			
Grant/Contract No.:	NCC 9-58-SMST00012		
Performance Goal No.:			
Performance Goal Text:			

Task Description:	The purpose of this study is to confirm the safety and efficacy of the Balance Goggles on humans when subjected to a change in pressure of the microenvironment of the eye. We will measure the safety of the Balance Goggles by measuring intraocular pressure (IOP), tear break up time (TBUT), refraction, keratometry, and performing a peripheral retinal exam both prior to pressure changes and after pressure changes. We will also measure optical coherence tomography (OCT) of the optic nerve prior, during, and after administering the change in orbital pressure to determine the ability of our device to change the morphology of the optic nerve head. Additionally we will assess qualitative measures such as comfort prior, during and after administration of the pressure change treatments.
Rationale for HRP Directed Research:	
Research Impact/Earth Benefits:	
Task Progress:	New project for FY2016.
Bibliography Type:	Description: (Last Updated: 10/30/2023)