

3.2 Medical Requirements Overview

TABLE 3.2: MEDICAL REQUIREMENTS OVERVIEW

MEDB# and Title:	MEDB 1.7 24-Hour Ambulatory ECG Monitoring
Sponsor:	Medical Operations
IPT:	Cardiovascular
Category:	Medical Requirements
References:	SSP 50667 Medical Evaluations Document (MED) Volume B
Purpose/Objectives:	To establish a baseline EKG profile and screen for cardiac arrhythmia before flight.
Measurement Parameters:	ECG
Deliverables:	Tapes which can be analyzed for arrhythmias and changes in heart rate.
Flight Duration:	≥ 30 days
Number of Flights:	All flights
Number and Type of Crew Members Required:	Prime and back-up crewmembers
Other Flight Characteristics:	N/A

3.3 Preflight Training – No Preflight Training

3.4 Preflight Activities

TABLE 3.4: PREFLIGHT ACTIVITIES

Preflight Activity	Description:	Crewmember will wear Holter Monitor for 24-hour ambulatory ECG monitoring. Lab personnel will deliver and retrieve hardware to/from crewmember before and after session.			
	Schedule:	Duration:	Schedule:	Flexibility:	Personnel Required:
		24 hours	L- <365 days, & as clinically indicated	N/A	Crewmembers/Lab Personnel
Ground Support Requirements Hardware/Software	Preflight Hardware:	Preflight Software:		Test Location:	
	Holter Monitor Biobag	N/A		U.S. or Russia	
Testing Facilities	Minimum Room Dimensions:	Number of Electrical Outlets:	Temperature Requirements:	Special Lighting:	
	N/A	N/A	N/A	N/A	
	Hot or Cold Running Water:	Privacy Requirements:	Vibration/Acoustic Isolation:	Other:	
	N/A	N/A	N/A	N/A	
Constraints/Special Requirements:	N/A				
Launch Delay Requirements:	N/A				
Notes:	See MED Vol B FSA Matrix – for FSA crewmembers, R-10/14 and R+0 Crewmembers will be instructed on the use of the Holter Monitor when given unit for MAT.				
Data Delivery	Data/Report to Designated Recipients (Nominal/Contingency):				
	The final completed data analysis report will be submitted to the Flight Surgeon and Data Archivist no later than 3 days after completed MAT.				

3.5 In-Flight Activities – No In-Flight Activities

3.6 Postflight Activities

TABLE 3.6: POSTFLIGHT ACTIVITIES

Postflight Activity	Description:	If necessary, sessions will be scheduled as directed by the crew surgeon.			
	Schedule:	Duration:	Schedule:	Flexibility:	Personnel Required:
		N/A	N/A	N/A	N/A

3.7 Summary Schedule

TABLE 3.7: SUMMARY SCHEDULE

ACTIVITY	DURATION	SCHEDULE	FLEXIBILITY	BLOOD VOLUME	PERSONNEL REQUIRED	CONSTRAINTS
Preflight Training – N/A						
Preflight						
ECG Monitoring	24 hours	L- <365 days, & as clinically indicated	N/A	N/A	Crewmember/Lab personnel	Protect hardware from elements
In-Flight – N/A						
Postflight – N/A						
Postflight Debrief – N/A						