

CREW DEBRIEF GUIDE

DAILY DEBRIEFING GUIDE

1. Obtain M071/74 books, replace SMMD Log and CHAMBER Log.
2. Read data from CDR, SPT, PLT Menu Logs in that order:
 - A. Exercise (From top of page)-not to include M171. *R/R ea sep exerc. seg.*
 - B. Weight *A - Tot. work*
 - C. Water Gun Counter Reading *B - length*
 - D. Any food omissions/additions, partial consumptions, or water deviations. *C - Type*
 - E. All capsules and salt consumed (Exclude preplanned mineral supplements, Glycol and Dye tablets) *ex. seg.*
3. Read data from SMMD Log.
4. CO Monitor Readings
5. CO₂ Monitor Readings
(Identify area of additional readings if any)
6. 10% Urine volume (If appropriate).

7. REPORT M133 LOG ENTRIES

B. " VDR

9,

SKYLAB MEDICAL EXPERIMENT

ALTITUDE TEST

(SMEAT)

CREW DEBRIEFING GUIDE

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INTRODUCTION

The debriefing guide is designed to obtain maximum information from SMEAT concerning medical experiments operation and crew/chamber performance. This guide is not intended to limit comments to specific experiments or operations, but is furnished to assist crew recall.

GUIDE INDEX

- 1.0 PRE ENTRY & ENTRY
- 2.0 CHAMBER OPERATIONS
- 3.0 CHAMBER ACTIVITIES
- 4.0 CHAMBER SYSTEMS
- 5.0 MISCELLANEOUS SYSTEMS AND GFE
- 6.0 PREMISSION PLANNING
- 7.0 TRAINING

1.0 PRE ENTRY & ENTRY

- 1.1 Physical Examination
- 1.2 Microbiology
- 1.3 Prebreath
- 1.4 Suiting
- 1.5 Transportation to Chamber
- 1.6 Entry
- 1.7 Chamber Closeout
- 1.8 Communications

2.0 CHAMBER OPERATIONS

2.1 First Day

- Stowage and configuration
- Eat
- Rest and relaxation
- Sleep

2.2 Possible Activities For A Non Medical Day

- Personal hygiene
- Eat
- Time & motion study - M151
- Oral microbiology & hygiene
- Chamber CO & CO₂ measurement
- Hematology - M111/115
- Mineral balance - M071
- Bioassay of body fluids - M073
- Specimen mass measurement - M074
- Sleep monitoring - M133
- Russian language course
- CSM Systems course
- Astro-dynamics
- Solar physics
- Electronic course
- Individual study
- Exercise
- Model building
- Rest & relaxation
- Sleep
- Airlock transfer

2.3 Possible Activities For A Medical Day

- Personal hygiene
- Eat
- Lower body negative pressure - M092
- Vectorcardiogram - M093
- Metabolic Activity - M171
- Individual study
- Model building
- Rest & relaxation
- Sleep
- Airlock transfer

2.4 Anomalies, Unusual Events or Happenings
That Occur During the 56 Days

3.0 CHAMBER ACTIVITIES

3.1 Time & Motion Study - M151
Set up portable TV

3.2 Personal Hygiene
Ease of obtaining specimens
Time consumed
Containers
Stowage
Airlock transfer

3.3 CO Monitor
Voice report
Log
Warning light

3.4 CO₂ Measurement
Voice report
Log
Areas checked

3.5 Food System
Stowage
Preparation
Food tray heating system
Taste
Residue weighing
Supplementary mineral intake
M071 & M073 logs
M487 logs
Airlock transfer of food in & residue out
Trash removal

3.6 Body Weight
Ease of weighing
Voice report
Log

3.7 Hematology Program
Blood withdrawal
a. crew proficiency
b. amount
c. number of times
Fast period
In chamber analysis
Airlock transfer
M111 through M115

3.8 Lower Body Negative Pressure - M092

- Stowage
- Setup
- Checklist
- Operation
- Followed by M093
- Followed by M171

3.9 Vectorcardiogram - M093

- Stowage
- Setup
- Checklist
- Operation

3.10 Metabolic Activity - M171

- Setup
- Checklist
- Operation
- Noise

3.11 Mineral Balance M071 Bio-Assay of Body Fluids - M073

- Urine feces & vomitus collection
- Measurements
- Log
- Deviations of menu
- Fluid intake
- Stowage
- Airlock transfer

3.12 Specimen Mass Measurement - M074

- Stowage
- Calibration
- Checklist
- Weighing items (M071)
- Ease of operation

3.13 Sleep Monitoring - M133

- Stowage
- Cap fit
- Comfort
- Sleep compatability
- Questionnaire

3.14 IMSS

- Stowage
- Non-invasive instruments
- Invasive instruments
- In chamber specimens
- Mock Illness
- Physical examinations
- Checklist

3.15 Microbiology

Collection

- a. Feces
- b. Throat swab
- c. Gargle
- d. Urine
- e. Blood
- f. Skin
- g. Contingency

Airlock transfer

3.16 Operational Bioinstrumentation System (OBS)

Stowage

Fit

Operation

Checklist

Recording

Comments

3.17 Shower

Stowage

Assembly

Operation

Checklist

Airlock transfer

3.18 Environmental Noise

Ambient noise

Equipment noise

Speech intelligibility

Audiometric examinations

Questionnaire

Equipment

3.19 Sleep Restraint

Ingress

Comfort

Egress

Material

3.20 Habitability/Crew Quarters

Noise

Comfort

Voice communications

Questionnaire

Evaluation

3.21 Aerosol Analysis

Number of surveys

Locations

- 3.22 Skylab Urine System Operational Evaluation (Prime & Backup)
 - Stowage
 - Assembly
 - Operation
 - Collection
 - Stowage
- 3.23 Chamber Environmental Microbial Monitoring
 - Collection
 - Stowage
 - Airlock transfer
- 3.24 Language Classes & Language Study
 - Presentation
 - Material
 - TV & Comm. Transmission
 - Length of each lesson
 - Lesson rate per week
 - Study time programmed
 - Additional free time spent studying
- 3.25 CSM Courses & Study
 - Same as 3.24 subject items
- 3.26 Astro Dynamics Classes
 - Presentation
 - Material
 - Length of each lesson
 - Rate of progress
- 3.27 Solar Physics Classes
 - Same as 3.26 subject items
- 3.28 Commercial Pilot's License
 - Presentation
 - Material
 - Test
- 3.29 Electronics Study Course
 - Material
 - Interest valve
 - Study without building items associated with the lesson
- 3.30 Exercise
 - Time available
 - Length of exercise periods
 - Stowage
 - Operation
 - Adequacy
 - Other recommendations for exercise equipment

4.0 CHAMBER SYSTEMS

- 4.1 Waste Management
- 4.2 Water System
- 4.3 Communications
- 4.4 TV cameras
- 4.5 Fire Suppression & Detection
- 4.6 Transfer Airlock
- 4.7 Structures
- 4.8 ECS
- 4.9 EPS

5.0 MISCELLANEOUS SYSTEMS AND GFE

- 5.1 Clothing
- 5.2 Light Weight Headsets
- 5.3 Stowage Areas
- 5.4 Flight Data File
- 5.5 Tool Kit
- 5.6 Camera Equipment

6.0 PREMISSION PLANNING

- 6.1 Mission Plan
- 6.2 Crew Timeline
- 6.3 Chamber Changes
- 6.4 Mission Rules

7.0 TRAINING

- 7.1 Briefings
- 7.2 Chamber Systems
- 7.3 Medical Experiments
- 7.4 Training Equipment
- 7.5 General Support

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