

RECAP OF APOLLO 15 SIGNIFICANT MEDICAL EVENTS

LMP - PVC 41 MIN. PRELAUNCH

BOTH - ATE WELL DURING TLC

FLUID - CAN'T BE SURE OF INTAKE

TIME - 3 HRS. FOR LM/CSM EQUIPMENT TRANSFER

ADDITIONAL REV. FOR HATCH & TUNNEL

INTEGRITY CHECK

SUIT INTEGRITY CHECK

LMP - ABOUT 177 GET - PVC'S

ABOUT 179 GET - 12 BIGEMINI'S/FELT FATIGUED

179 TO 186 GET - PVC'S AND PAC'S

192 TO 204 GET - NO DATA

208 TO 214 GET - PVC'S AND/OR PAC'S 1/HR.

CDR - 190 TO 274 GET - USED ASPIRIN FOR SHOULDER PAIN

286:20 GET - 4 PVC'S SLEEPING/RATE 28

287:25 GET - PAC'S WITH OCCASIONAL PVC

288:00 GET - LAST ECTOPIC BEAT SEEN

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SUMMARY OF APOLLO 15 POSTFLIGHT MEDICAL FINDINGS

WEIGHT: CDR - 2.75 LBS
LMP - 5.00 LBS
CMP - 3.00 LBS

LBNP: RETURN TO NORMAL HAS BEEN 2 TO 3 DAYS

CDR - 5 DAYS
LMP - 9 DAYS
CMP - 13 DAYS (MAYBE 6-7 DAYS)

EXERCISE: RETURN TO NORMAL HAS BEEN 2-3 DAYS

CDR - 13 DAYS
LMP - 9 DAYS
CMP - 3-5 DAYS

BIOCHEMISTRY: FIRST USE OF K⁴²

CDR - 15% DECREASE
LMP - 15% DECREASE
CMP - 10% DECREASE

VESTIBULAR: INFREQUENT, UNPREDICTABLE AND VARIES

LMP - TLC STOMACH AWARENESS
(DID NOT INTERFERE WITH EATING)
LMP - POSTFLIGHT STOMACH AWARENESS AND
FEELING OF HEAD DOWN TILT (30°) WHEN
RECUMBENT - BOTH SENSATIONS RETURNED
TO NORMAL BY R + 5.

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APOLLO 16 MEDICAL OBJECTIVES

- ENSURE CREW SAFETY FROM A MEDICAL STANDPOINT
- IMPROVE THE PROBABILITY OF MISSION SUCCESS BY PROVIDING MEDICAL INFORMATION NECESSARY FOR MANAGEMENT DECISIONS
- DETECT & UNDERSTAND THE BIOMEDICAL CHANGES INCIDENT TO SPACEFLIGHT

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APOLLO 16 MEDICAL CHANGE SUMMARY

PRE- & POSTFLIGHT

- FLIGHT CREW HEALTH STABILIZATION PROGRAM
 - EPIDEMIOLOGICAL SURVEILLANCE OF SCHOOLS AVAILABLE
 - CONTROL GROUP COMPOSITION IMPROVED
 - PRIMARY CONTACT TRAINING EXPANDED
 - POSITIVE ILLNESS REPORTING IN PRIMARY CONTACT & CONTROL GROUPS
(HEALTH SURVEILLANCE FORM)
- METABOLIC INPUT/OUTPUT ANALYSIS
 - 72-HOUR CONTROLLED DIET (MQF TYPE FOOD)
 - ACCURATE INTAKE/OUTPUT MEASUREMENTS
 - FOOD
 - FLUIDS
 - URINE
 - FECES
- CARDIOVASCULAR STATUS
 - CARDIOTHORACIC RATIO DETERMINED BY X-RAY
 - STANDARDIZED CLINICAL ECG
 - ORTHOSTATIC COUNTERMEASURE
- SLEEP FUNCTION
 - TWO CHANNEL EEG
 - ONE CHANNEL EOG
 - ONE CHANNEL ECG

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APOLLO 16 MEDICAL CHANGE SUMMARY

PRE- & POSTFLIGHT (Cont.)

- VESTIBULAR FUNCTION
 - CALORIC STIMULATION
 - TWO CHANNEL ENG
 - ATAXIA/POSTURAL EQUILIBRIUM
- STEREOMETRIC BODY VOLUME MEASUREMENT
 - STEROMETRIC BODY PHOTOGRAPHS
- WHOLE BODY RADIATION COUNTING DELETED

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APOLLO 16 MEDICAL CHANGE SUMMARY

INFLIGHT

- BIOENVIRONMENTAL MONITORING
 - DAILY SAMPLE OF IMPROVED QUALITY ECG DATA
 - OPTION TO ALTER BIOHARNESS WEARING SCHEDULE
- CREW STATUS REPORT
 - FORMAT EXPANDED
 - ONE REPORT DAILY VICE TWO
- NUTRITION
 - HIGH POTASSIUM CM DIET (105 MILLI-EQ. VICE 70)
 - SNACK SUPPLEMENTS TO INCREASE DAILY POTASSIUM INTAKE
 - HIGH POTASSIUM LM DIET (135 MILLI-EQ.)
 - POTASSIUM ENRICHED BEVERAGES PROPOSED (10 MILLI-EQ./BEVERAGE)
- METABOLIC INPUT/OUTPUT ANALYSIS
 - MEASURE FOOD & FLUID INTAKE; URINE & FECAL OUTPUT
 - URINE & FECAL SAMPLES RETURNED FOR ANALYSIS
- ANTI-ARRHYTHMIC DRUG PROVISIONS
 - LIDOCAINE
 - PROCAINAMIDE
 - ATROPINE

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APOLLO 16 MEDICAL CHANGE SUMMARY

INFLIGHT (Cont.)

- MICROBIAL RESPONSE IN SPACE ENVIRONMENT (M191)
 - MEED
- BIOSTACK (M211)
 - PASSIVE EXPERIMENT
- WATER SAMPLE DELETED

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APOLLO 16 MEDICAL HARDWARE REVISIONS

- MEDICAL KITS
 - CM MEDICAL ACCESSORIES KIT
 - MYLICON TABLETS, MAREZINE INJECTORS, & LITMUS PAPER/DISPENSER DELETED
 - CM AUXILIARY DRUG KIT (NEW)
 - LIDOCAINE, ATROPINE & DEMEROL INJECTORS
 - PROCAINAMIDE CAPSULES
 - LM MEDICAL PACKAGE
 - PROCAINAMIDE CAPSULES ADDED
 - DEMEROL INJECTOR DELETED
 - LM INJECTABLE DRUG KIT (NEW)
 - LIDOCAINE, ATROPINE & DEMEROL INJECTORS
- BIOINSTRUMENTATION
 - ELECTRODE CAVITIES VENTED
- LM PERSONAL HYGIENE EQUIPMENT
 - TOOTHBRUSH & TOOTHPASTE ADDED
- APOLLO LIGHT FLASH MOVING EMULSION DETECTOR (ALFMED)
- SKYLAB FOOD PACKAGES
- IMPROVED FECAL COLLECTION DEVICE
- IMPROVED GAS/WATER SEPARATOR

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