

Apollo 15:

- ① Preflight illness - none in crew
- ② Sensors - changing as in Sky Lab - data is alt effect.
- ③ LEVA - movement - fatigue in spite of comments
non capable. on crew.
1st EVA, about 1/2
adapt -
then diff -
- ④ CSMA EVA for 10 days with crew.
- ⑤ Wet lead effects, see 1/2 goat studies -
12 days + 7 hrs. nearest to 14 days.
difference 1/6 g \bar{c} work + 0 g.
- ⑥ more Hi Z data - - Rad. dose.
- x ⑦ ECG - - why \bar{c} 1/6 g. -
- ⑧ PED equip failure . -
- ⑨ Vestibular response . -
- ⑩ Sore's shoulder. rot. ligamentous .

Medical Questions Press Conference:

1. Little? of fatigue + work load on lunar surface. ent last EVA time.
2. Why didn't they take second when told?
3. Were there cardiac irregularities?
Was crew aware?
4. Why did they take longer to recover baseline?
5. Why hematomas under nails - glove?
6. Any vestibular problems?
7. Type of exercise inflt?
8. Sensor problems - irritating?
9. Thi Z exposure.

Master chart - exp.
 Further to fall ↓
 were they tend to

Cardiac - Carter -
 Hypothesis -

amt K
 in food

age -
 anomalies - findings - why -
 Time w/less -

295:71
 171:37

 124:34

 5.1
 24 | 123.5
 120

 3.5

shit? [Angiotensin]
 Renin -
 Total body K - Tomorrow

Anomalies:

1. Ecstasy PAC + PVC + bigemini - Scott, Juvin.
2. Juvin resp. never seen previously - bradycardia + tribrad.
3. Juvin + Scott don't fit pattern of prev. tests. Tail off at top.
 — displacement etc.
 started on Li - Scott highest yet.
 none normal yet.
4. No diff between group + 0 g sample - LBNP.
5. Delayed time to return to normal. LBNP.
 Scott on 9 - returned at 33.
 (10 days)
6. K levels $\begin{matrix} 3.7 & 4.1 & 4.4 \\ 3.6 & 3.9 & 3.9 \end{matrix}$ → 4.6, 4.2
4.6, 4.2 4.1-4.4
7. Dec RPE 10% -
8. ↑ Energy expenditure on norm. caloric unit: limit?
 Post flight:
 urinary hydrocortisone ↑
 angiotensin ↑
 catechols ↑

X-ray -
Spectrum -
diffusing capacity:

Filters:
Chem analysis - dust -
particle size:

See lab data from Steve Kinzler.

What toxin could produce arrhythmia?

Time from lunar liftoff til splash down

		<u>HR.</u> <u>Min</u>
Apollo	11	71:00
Apollo	12	102:30
Apollo	14	74:16
Apollo	15	123:35

Bill Tomkins

Phil Johnson -

High K^+ deficit. -

Aldosterone.

Interstitial acidosis.

Poorest condition - most deficit.

RT6

42K - + 43 mEq/day
(12 hr 1/2 life)

polyuria -

- 24 hr urine + a spot.

Total body H₂O - extra blood spec. . Tritium - drink it?

Warden RBC ↓ 11% decrease size.

Scott " ↓ 9%

? diet K^+ load.

Trunk lower intercell. K^+ - shrank + not as strong.

When return to normal - RT 14 or 21 days.

do Prnd based simulation of mission + look at ery + LBNP?

RBC K^+ level -

7 Aug 71
Splash - 10:46

8 Aug
9 Aug.
10 Aug

Wrow. 15:46 CDT.

(+24) 15:46

+41 08:46

+71 ^{radio} _{hook} 15:05

+72 ^{Drum}

+73 ^{Scuff}

Ann: 0 -1 3/4 . -3/8"

+2
+6
+6
+3

AL -3 3/4"

+3
+13
+14
+17
+6

Jim -3 3/4"

+12
+14
+18
+19
+8



Some diff from yello 9 -

1/6 g - oz receipt.