

8 Dec 73

How?
LSD?

Chuck, my DTO's represent an effort which began years before Skylab launch, an effort to 1) look at as much of the body as possible 2) explain why changes occurred and not just generate another volume of data. There isn't space to repeat the dreary history of these efforts. Suffice it to say I could not face my 12 year old boy who has an interest in things physiological, if I had not made a real effort to document such items as anthropometric changes pre and post flight

including muscle changes or photos
of the crewmen's bodies in flight,
and so on.

✓ In short there were some large
and basic holes in the approved
experiments - Such ~~a~~ holes I have
attempted to fill at every opportunity,
to my own expense. This is
how the muscle function & pre &
post anthra studies were started.

where
are they?
My DTO inflight efforts started
with 5L-1/2 'mug' shots and have
grown with the increasing ^{crew} time available
and mission maturity & flexibility.
They represent an ^{integrated} effort to ^{study} document
as time ~~allowed~~ and other conditions

allow the reason deconditioning occurs and include: leg blood flow studies, venous patterns through "R." films, anthropometric changes including rapid fluid shifts and longer term effects thru direct measurement, films and center of mass studies, and some ideas of insensible loss through body mass before & after selected activities ~~and~~ and sweat sampling.

These DTO's have borne the brunt of repeated efforts by the in group to discredit them. While their paternity may be

What
review?

in disrepute their scientific validity
and especially concepts will bear
the judgement of the future very
well.

where?

They have been presented many
times and I above all people
have been anxious to present them
to competent, unbiased authorities
but conversely some of us have
the minimum opportunity to
participate in any outside
activity and as little inside as
possible. This is another story.

home

✓ Insofar as possible 'my' DTO's
have been frustrated on SK-4

while leg B.P.5 are measured, on line
^{S.G.} urine, determinations of single voids
are made, more miles of VCG are
taken to measure sub millisecc variations
that no one can decipher, while IR.
film ~~the~~ that I fought on board
is used by favored investigators &
so on.

In spite of this the few
measurements which escaped are
sufficient to show their value.

~~There is nothing mysterious about~~

I would welcome the opportunity
to present the details & results
to you, Ed McLaughlin (please

show him this stuff) and any
~~relevant~~ unbiased & competent review
you might wish. At the moment
I'm having trouble enough
getting it presented through NASA
channels to the scientific world -

Unfortunately the printed data does
(SL-4)
not contain the latest results for I
have neither staff nor computer but the
data is striking -

Sincerely
M. Thornton