

**Event Primary Information**

Event Key Classification: Other Research 7 rec

Full Title: AF#0035: Reproducibility of Repeated Total Body Water Measurements with Tritium

Start Date (mm/dd/yy): 07/ 69

End Date (mm/dd/yy): 07/ 69

Abstract: *Summary: Radioisotopic dilution technique tracer study. For a single dose of 250-UC of H3, the total body dose is 19 millirem. Tests the reproducibility of this methodology. Abstract: The reproducibility of repeated measurements of total body water (TBW) in the same individual, by means of an isotope technique, was dependent on the percentage clearance of the isotope per week and the interval between determinations. Studies of six normal subjects, with percentage clearances ranging from 41% to 80% per week, showed that a sample-to-background counting rate ratio of at least 2:1 was necessary to obtain reproducible values. The variance was found to be about 1%, or +/- 0.5 liter. The 2-week interval was the minimal time interval which gave reproducible values for individuals having a percentage clearance within normal limits (45% to 95%) (Repeated measures x6 in same person)*

**Point of Contact information**

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**Investigators Information**

Last Name	First Name	P/A*
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Notes:

\* P-Principle, A-Associate

**Facility where Event took place Information**

Facility: Internal Medicine Branch, Brooks Air Force Base, San Antonio, TX

Address: Brooks Air Force Base

City: San Antonio

State: TX

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*Doc # 0340*