401070

November 30, 1962

Leo M. Meyer, M.D.
South Nassau Communities Hospital
2445 Oceanside Road
Oceanside, New York

Dear Leo,

Here is the procedure on the use of tritiated water for measuring total body water.

1. We will provide the HTO. Let me know by return mail if we should send it to you and where, or if you will pick it up when you pass through San Francisco.

2. Give by mouth 1 cc of HTO. Transfer from stock bottle to a glass, cup, or beaker exactly 1.00 cc HTO with a tuberculin syringe (or 1 cc pipette). Add 50-100 cc water and have subject drink entire contents. Add another 50-100 cc water to the vessel and again have subject drink entire contents.

3. Tritium dilution can be determined in either plasma or urine (or both).

If urine samples are collected, follow this procedure: (a) Have subject void about 4 hrs. after taking tritium. (b) Take 10 cc urine samples at approximately 5 hrs., 8 hrs., and 12 hrs. after taking tritium. A 24 hr. sample is useful if tt can be obtained. Put the urine sample in a 3 or 5 dram vial with a crystal of thymol and labeled with name or code number, date and time after administration of HTO.

If a plasma sample is taken (in addition to or instead of urine), take the sample 4 to 6 hrs. after giving the tritium.

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