

Documentation pertaining to planning of human studies

8/29/44 Memo from L. H. Hempelman to J. R. Oppenheimer
"Medical Research Program"

Program to be pursued with relatively high priority consists of 3 parts

- OR 4
1. development of chemical methods of determining plutonium in excreta and tissues.
 2. animal experimentation to check these methods.
 3. tracer experiments in humans to determine the percentage of plutonium excreted daily.

3/26/45 Memo from L..H. Hempelman to R. J. Oppenheimer
"Meeting of Chemistry Division & Medical Group"

OR 8

Among the requests submitted to Col. Freidell for consideration of Medical Section, MED, is the following: help in making arrangements for a human tracer experiment to determine the percentage of plutonium excreted daily in the urine and feces. It is suggested that a hospital patient at either Rochester or Chicago be chosen for injection of from one to ten micrograms of material and that the excreta be sent to this laboratory for analysis.

4/12/45 Summary of Conference 4/3-4/45 at Oak Ridge to outline program to be conducted with University of Rochester (Manhattan Project).

OR 10

Present: Warren, Friedell, Ferry, Howland, Goldring, Wensel, Abersold, Baxter, Dowdy, Hodge

- I. Radiobiology Program
radiation effects, genetics, etc.
- II. Special Problems Program (Dr. Bale)
"It was decided that this work would be continued in the future as in the past and would consist almost entirely of Dr. Bale and his personnel doing work for the District as requested. This includes several previously discussed tracer studies."
(this is all that was said)
- III. Pharmacology Program
etc.

S/A/H. Dowdy MD
Director, Manhattan Dept.

not dated Detailed plan of product part of Rochester experiment:
L. H. Hempelman & W. Langham

OR 15

8002426

Documentation pertaining to planning of human studies - 2

Details about admission of patients, clinical observations, laboratory test, injections, sample collection & shipment

Responsibilities:

General Director: Dowdy
Wards: McKarn & Bassett
Injection: Valentine
Plutonium: Langham, Hempelman

8002427