

TO BE HELD IN CONFIDENCE

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THE UNIVERSITY OF CHICAGO

DATE February 20, 1946

(JL)

TO Dr. L.O. Jacobson

DEPARTMENT MUC-HG-1193

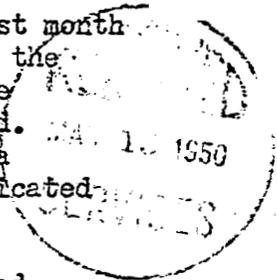
FROM Dr. J.J. Nickson

DEPARTMENT This document consists of 1 pages and 0 figures. No. 1 of 3 copies. Series 1

IN RE: Abstract of Monthly Report for Section H-III

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Receipt of eight Parallel Plate counters during the past month from the Instrument Section has materially facilitated the work of the plutonium survey group. As a result of the added equipment most of the backlog has been eliminated. Two per cent of the Chicago urine specimens indicated a body content of above 0.1 micrograms. No specimen indicated a body content greater than 0.4 micrograms.



Urine and tissue analyses were done on a patient who had received approximately 95 micrograms of plutonium injected intravenously. The patient lived fifteen days, dying from the primary illness. It is of interest that the first 24-hour excretion rate of plutonium was distinctly less than was found in the first patient injected with approximately six micrograms of plutonium. Tissue analysis showed, as before, the highest concentration of plutonium in the bones, particularly the marrow. In the first patient the liver content was approximately 33 per cent of the amount injected, in the second patient the liver content was approximately one per cent of the amount injected. The reason for this striking difference is not at the present time clear.

A spill of ten milligrams of plutonium occurred at the Argonne during the last week of January. Fortunately contamination of the building and personnel was not serious. The accident occurred as a result of violation of the precautions laid down by Dr. Zinn.

110 grams of plutonium have been received by the Chemistry Division. With the exception of one high air sample, no difficulty has been experienced with this sample.

CLASSIFICATION CANCELLED

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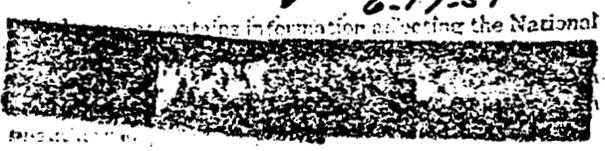
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in BY Haylande D. Young J.J. Nickson, M.D.

DIRECTOR OF TECHNICAL INFORMATION  
ARGONNE NATIONAL LABORATORY

DATE 6-16-58

J. Klossowski  
6-17-58



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