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THE UNIVERSITY OF CHICAGO

DATE April 25, 1946

TO Dr. L.O. Jacobson DEPARTMENT

FROM Dr. J.J. Nickson DEPARTMENT

728439

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

147 urine samples were analyzed for plutonium during the month ending April 10th. 21 of these were samples submitted by other laboratories. No Chicago specimen showed greater than 0.4 micrograms computed in body content. Excretion data on a human who had received 94 micrograms of plutonium intravenously showed an excretion rate from the 42nd to the 92nd day ranging from 0.006 to 0.013. In general the values for the 7th to the 97th day are less than 0.01 per cent of the injected dose.

Study of the therapeutic effects of zirconium continues. B.A.L. (British Anti-Lewisite) was injected into a dog who had received plutonium several months previous. No increase of the excretion rate of plutonium was noted.

Several sputum examinations have been done during the past month. The highest value obtained was 2.6 alpha counts per minute in approximately one cc of sputum. An attempt is being made to estimate the pulmonary content of radioactivity from the amount found in the sputum.

No marked overexposure of personnel to external beta or gamma radiation was noted during the month.

On April 16, 1946 approximately one to two grams of plutonium were spilled in Room 35, New Chemistry. Possible exposure of several of the Chemistry Division personnel occurred. These individuals are being followed. One individual is showing persistent high stool alpha activity, 28 counts per minute in one stool specimen being noted. This man will be followed to determine, if possible, whether or not this represents ingested or inhaled plutonium.

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J.J. Nickson, M.D.

BY AUTHORITY OF THE DIRECTOR OF TECHNICAL INFORMATION ARGONNE NATIONAL LABORATORY
BY Hoyland D. Young
DATE 6-16-58
O.J. Klosowski 6-12-58

[redacted] contains information affecting the National [redacted] unauthorized [redacted] by law.

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