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10 October 1945

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MALCOLM THEISEN, ANALYSIS
Name (ADD) - Organization
11/17/94
Date

To: Area Engineer
From: Joseph G. Hamilton, M. D.
Attention: Mr. Russell Ball

RHTG # 82,534²
BOX # 161

We feel that it is very desirable that a careful survey of possible methods of treatment of individuals who have become poisoned with U²³³ be investigated. As you may know, the deposition of this radio-element in the bone is very similar to the metabolic characteristics of plutonium in that both substances are selectively accumulated in the lining of the bone marrow cavities in the skeleton.

Doctor D. H. Copp has already demonstrated in animals the encouraging possibility that the potentially very dangerous situation with plutonium can be met in part by burying this material in the mineral portions of the bone by means of certain dietetic regimes. It is possible that the same effect might be observed with U²³³. In addition, Doctor Copp and his associates have found that the administration of sulfur containing amino acid cystine significantly diminishes the deposition of plutonium in the skeleton. This is a most promising lead and should certainly be explored with U²³³ as well as plutonium. It should be kept in mind that U²³³ has a half-life which is approximately six times longer than the half-life of plutonium and obviously, as more of this material becomes available, the hazards involved will become significant.

If there are any further details or information desired for approval of the foregoing program, please advise me.

JOSEPH G. HAMILTON, M. D.

JGH:mmm

DECLASSIFICATION RECOMMENDED
George Downing ORO
Name (ADC) - Organization
11/17/94
Date

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