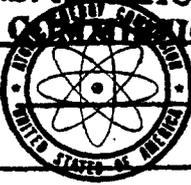


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January 6, 1965

MEMORANDUM FOR CHAIRMAN SEABORG  
 COMMISSIONER BUNTING  
 COMMISSIONER PALFREY  
 COMMISSIONER RANKY  
 COMMISSIONER TAPE

THROUGH GENERAL MANAGER *John V. Viniguer* JAN 7 1965

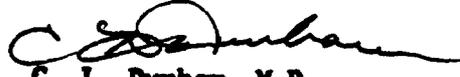
SUBJECT: FURTHER INFORMATION ON THREE MARSHALLESE GIRLS OPERATED ON  
 FOR REMOVAL OF THYROID NODULES (SEE ATTACHED COPY OF PREVIOUS  
 MEMO, THIS SUBJECT).

Dr. Robert A. Conard, Medical Department, Brookhaven National Laboratory,  
 who has responsibility for conducting the clinical surveys, reports:  
 "Sections of the nodules have been examined by a number of pathologists  
 including Drs. S. Warren, G. H. Klink, H. A. Johnson and S. Lindsay. The  
 concensus is that the nodules are benign, though with certain bizarre areas,  
 and resemble iodine deficiency adenomas."

Dr. Lindsay noted that the nodules in the Rongelap cases are similar to  
 ones he has seen in children following I<sup>131</sup> therapy. This Division has a  
 file of Dr. Lindsay's histological reports and a review paper by Lindsay  
 and Chaikoff, Cancer Research, 24:1099, 1964.

The radiation dosages which these children's thyroids may have received  
 are being re-evaluated by Dr. John Gefman's group, Lawrence Radiation  
 Laboratory.

It should be added that nodules in the thyroid glands of young people  
 frequently become malignant in the course of time. Therefore, while  
 these which were removed promptly after discovery were not malignant,  
 there is a chance that in time they might have assumed neoplastic  
 characteristics. Dr. Conard's next clinical survey will take place in  
 February 1965.

  
 C. L. Dunham, M.D.  
 Director  
 Division of Biology and Medicine

Attachment:  
 Copy of memo dated 10/2/64  
 from C. L. Dunham to Chairman Seaborg

BEST COPY AVAILABLE