403409

May 4, 1966

MENORANDUM FOR CHAIRMAN SEABORG COMMISSIONS PALYREY COMPLEXIONER RANKY COMPLISSIONER TAPE (Signed American American)

THROUGH CENERAL MANAGER

MAY 9 1966

SUBJECT: CURRENT STATUS OF THYROID MODULES AMONG THE MARSHALLESE EXPOSED TO FALLOUT FROM THE BIKINI TEST OF MARCE 1, 1954

In our last memorandum on this subject, October 11, 1965, it was noted that a cumulative total of 11 instances of modular thyroid glands had been found in the 69 surviving Marshallese who had been exposed to fallout from the subject test while on Rongelap and on Ailingnas. All but one of these cases were in young people who were less than 10 years old at the time of exposure. The single exception was in a 41-year-old woman (approximately 30 at time of exposure) who was found to have a carcinoms of the thyroid at operation.

BEST COPY AVAILABLE

Dr. Robert A. Conard of the Medical Department of Brookhaven Mational Laboratory, and leader of the annual (or more often) medical surveys of these people, has just returned from the latest survey conducted during February and March of 1966. He reports that an additional five cases of modular thyroids have been diagnosed in this group. The present cumulative incidence is shown in the following table.

Age at Exposure	ikuber Exposed	Totel Incidence of Nodules Through March 1966		
		Hunber	Percent	
1-5	16	9	56	
6-10	9	4	44	
11-15	7		٠	
16-20	5	Ŭ	•	
7 20	<u>32</u> 69	3 16	ع م	

US DOE ARCHIVES 326 U.S. ATOMIC ENERGY RGCOMMISSION
Collection OGM
Box 5533
FolderGeveral Manager's Reading File May 1 Thry 15, 1966

R

Fifty-five of the 69 were on Rongelap Island and received estimated whole body doess of 175 R plus possible doess of 700 to 1400 rom to their thyroids from the radioiodines. The remaining 14 (six were 1-10 years of age) were visiting on Ailingnee, a mearby island, and received estimated doess of 69 R whole body exposure, plus less certain but probably small thyroid doess. Home of the six children who were on Ailingnee have thus far developed modules, so that the incidence of modules among the 19 more heavily exposed on Rongelap when 1-10 years old is 13/19 or 68 percent. Two of the three adults were on Rongelap and one was on Ailingnee.

Thus far only six of the sbows, including the soult found to have cancer, have been subjected to surgery. The current plans are to bring five of the remaining 10 cases to Brookhavan for further diagnostic study and possible surgery during May 1966. One is a 45-year-old solult woman and the others are girls presently 13, 13, 13 and 20 years old. They will be accompanied by the Rongelap schoolteacher who will act as interpreter. The travel and treatment of these people has been developed with the cooperation of the Ronorable Wilfred Goding, High Commissioner, Trust Territory of the Pacific Islands.

All these Mershellese presumbly have been taking tetraiodothyronine, a synthetic thyroid hormone, for the last seven months. The intent of the therapy is to prevent and/or cause regression of the modules. Some success has been seen, but it is too soon to dray conclusions.

Forty children who were on Utirik at the time and received estimated doses of 14 R plue proportionstaly smaller internel thyroid doses were examined for modular thyroids; none were found. BEST COPY AVAILABLE

Among 194 unexposed controls who are now living on these islands, three cases of thyroid modules were found, all in adults more than 47 years. Other forms of thyroid disease were not seen.

You will be kept informed of the progress of these studies; the mext notoworthy ites will be the clinical and possibly surgical findings in the five Marshallese coming to Brockhaven.

)			C. L. Duzhan, M.D. DOE ARCHIVES			
		Director Division of Biology and Medicine				
	ana Alana Ana	834.	71			-
	3/ /64 《正编章》	3/ /44 BIRACTOR	57 764 AG1910	ACH	86 8 /	9 🖼
	Harmon I Par	CLUMAN	- 4 iga	5.1 .15K	3./ /64	1 \$/