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Mr. John T. Conway  
Executive Director  
Joint Committee on Atomic Energy  
Congress of the United States

Dear Mr. Conway:

The following summarizes the current status on the incidence of thyroid disorders among the people of Rongelap Island who were exposed to fallout on March 1, 1954. Dr. Conard, Medical Department, Brookhaven National Laboratory, conducted the most recent survey in March 1968.

The results of the 1967 survey were reported to you by letter dated May 12, 1967. At that time we indicated that 17 people had developed thyroid nodules, 11 of which had been treated surgically.

In the most recent survey, 2 more cases of thyroid nodules in children who were exposed to fallout on Rongelap when they were less than ten years of age were found. This brings the total number of cases of thyroid abnormalities in the 67 living Rongelapese to 21; of the 19 children in the more heavily exposed group who were less than 10 years of age at time of exposure, 17, or 90% have developed thyroid abnormalities.

It was decided that 4 cases should be brought to the Brookhaven National Laboratory for complete medical evaluation and, if necessary, surgery. Preparations for their transportation and reception are now taking place. Three are people having thyroid nodules which had not responded to thyroid hormone therapy. The fourth is a 29-year-old woman with an unidentified tumor in the neck lateral to the gland. In the past, 11 Marshallese have undergone surgery; one woman exposed as an adult was found to have cancer of the thyroid, while 10 who were exposed when less than 10 years of age had benign adenomatous goiters.

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Mr. John T. Conway

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The incidence of thyroid problems in this population is tabulated on the enclosed sheet.

We will keep you informed of the progress of these studies.

Sincerely yours,

(Signed) S. G. English

S. G. English  
Assistant General Manager for  
Research and Development

Enclosure:

Thyroid Nodules Including Hypothyroidism  
in the Marshallese Populations as of  
March 1968

bcc: Chairman Seaborg (2)  
Commissioner Ramey  
Commissioner Tape  
Commissioner Johnson  
Cong. Rel. (2)  
GM (2)  
Secy (2)  
AGMRD  
PI  
BMA  
ADMHR

Thyroid Nodules Including Hypothyroidism in the  
Marshall Islands Populations as of March 1968

Persons Exposed on	Age at Exposure	Whole Body Dose (rads)	Gamma	Estimated Added Thyroid Dose from I*, (rads)	No. in Group	No. and Percent with Nodules
Rongelap Island	<10	175		700 - 1400	19	17 (90%)
	>10	175		160	36	2 (5.5%)
Ailingnae Island	<10	69		275 - 550	6	0
	>10	69		55	8	1 (12.5%)
Utirik Island	<10	14		55 - 110	40	0
	>10	14		15	59	2 (3.4%)
Control Marshallese	<10	61		0	0	0
	>10	133		0	0	3 (2.3%)

\* Estimates of the doses to the thyroids of the Rongelapese were recomputed by R. James and J. Gofman, UCRL #12273, December, 1964. Estimates of the thyroid doses of the Ailingnae and Utirik people were by proportionality to the respective whole body gamma doses.