

Route

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ICN

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December 31, 1962  
REPOSITORY PNL

COLLECTION I-131 Atmosphere

BOX No. IC Nelson

MONTHLY ACTIVITIES REPORT FOLDER N/A  
DECEMBER, 1962

F. Swanberg, Jr.  
Manager-Internal Dosimetry

1. The residents of Ringold were invited to be examined in the Whole Body Counter. Of the 20 persons living at Ringold, 10 have been counted, five (Mr. Bergquist and four children) declined the invitation and five are scheduled for January 5. One woman and a nine-month old child who use milk from Ringold were also counted.
2. The thyroid counter was calibrated for two geometries and at two different spectrum widths. Results were substantially the same as obtained by Palmer earlier for similar spectrum width.
3. The examination of children for I-131 in thyroids slowed as the level of I-131 in the thyroid of the six-year old female who is regularly examined fell below 30 pc. This child drinks commercially available milk.

The highest thyroid burden measured in a child thus far was in a thirteen-year old boy from Ringold and amounted to 300 pc on December 1, 1962. This boy was examined again on December 22, 1962 which revealed a thyroid content of 170 pc I-131.

4. ~~DELETED~~ now age one year, was again counted in the Whole Body Counter. Only a small amount of Cs-137 was noted and he was scheduled for another examination in three months.
5. Some first thoughts were generated on a method to obtain empirical data on plutonium in man. The most attractive method at present appears to be controlled experiments performed on prison volunteers. The ways and means of accomplishing such experiments is being sought.
6. The measurement program related to uptake of I-131 to the thyroid with water as the vehicle was concluded.

Senior Engineer  
Internal Dosimetry

IC Nelson:kd

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