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Mayo H. Soley

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May 12, 1942

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Report on research work for the years 1941-42, and
Request for funds for the year 1942-43, -- Mayo H. Soley, M.D.

Problem: Treatment of patients with diffuse goiters by means of radio-active iodine.

Previous work: (as yet unpublished)

(1) Subcutaneous injection of rabbits and dogs with radio-active iodine.

Results: 1. Subtotal destruction of the thyroids of these animals without effect on other organs except for temporary cloudy swelling of renal tubules in two rabbits.

(2) Oral administration of radio-active iodine to three patients with toxic diffuse goiter.

Results: Complete clinical remission in two of three patients without other untoward effects. Third patient had recurrence, now well-controlled with more radio-active iodine. Thyroids in these patients decreased greatly in size.

All this work done with J.G. Hamilton and K.B. Eichorn

References: previously given in reprints submitted to Research Committee in regard to other studies with radio-active iodine.

Amount requested:

Metabolism tests (6 per patient; 10 patients)	$150.00
Galactose tolerance tests (2 per patient)	70.00
Photographs	9.00
Cholesterols	25.00
Miscellaneous (charts, slides)	10.00
Total	$264.00

(Note: It is to be expected that about one-half of the patients will be able to afford part of their repeated laboratory studies. Approximately twenty patients are to be treated in the next year. This will be possible since at least fifty new patients with toxic diffuse goiter appear in thyroid clinic yearly).

M.H.S.

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Dr. Francis Smyth
re Louise Yeazell

DIVISION OF PEDIATRICS

REQUESTS FOR RESEARCH FUNDS, 1942 - 1943

1. $1,500.00 for a fellowship for Dr. Louise Yeazell to work with me on a xanthomatosis study and to continue the tetanus toxoid study.

2. $450.00 for a survey of atmospheric mold under the direction of Dr. William C. Deamer (see accompanying letter).

The Pediatric Department is asking for a research fellowship for Dr. Louise Yeazell in order that she may assist me on a study of xanthomatosis. We have a series of patients suffering from Schüller-Christian Disease, who have been under observation for several years. The usual studies of calcium-phosphorus metabolism and blood fats, etc., have not been informative. There is a definite possibility that some further light can be shed on this disease with the radioactive elements such as phosphorus, strontium, and chromate from the cyclotron in studying both localization and possible benefit from radioactive chemicals.

This fellowship will also enable Doctor Yeazell to assist with the completion of the tetanus toxoid study which has been in progress for the past three years and which is now being supported by the Fleischner Memorial Fund. Doctor Yeazell has been associated with this work and is capable of continuing it. Reprints of the first report of this study are attached: "The Initial Response to Immunization with Diphtheria and Tetanus Alum Toxoid", by Deamer, Bates, and Smyth. This was published in the Journal of Pediatrics for February 1942.

Very truly yours,

Francis Scott Smyth, M. D.
Professor of Pediatrics.

FSS:B

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