

707364

In Reply Refer To:
M:ANH

Oak Ridge, Tennessee
August 6, 1948

Dr. Karl Z. Morgan, Director
Health Physics Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee

Dear Karl:

Attached is a copy of a letter which I received yesterday from Dr. Austin M. Brues. It is self-explanatory, but unfortunately I do not think it contains the answer which you were seeking.

Sincerely,

Albert H. Holland, Jr., M.D.
Medical Advisor

Holland/sgn

U. S. Department of Energy
Oak Ridge Operations Office
P. O. Box E
Oak Ridge, TN 37830

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1021070

Argonne National Laboratory

P.O. BOX 5207
CHICAGO 80, ILLINOIS
BUTTERFIELD 1400

July 16, 1948

Dr. Albert H. Holland, Jr.
Medical Advisor
Atomic Energy Commission
Oak Ridge, Tennessee

Dear Jerry:

I checked on the statements attributed to Dr. Zinn which you referred to in your letter of July 14. I think we are safe to say that very small amounts of plutonium and beta-gamma material fixed in the lung will produce primary carcinoma in a substantial number of animals. I don't think we are in a position to go beyond this at the present time. It is quite likely that Dr. Zinn obtained this information at an informal laboratory meeting at which Dr. Lisco mentioned something like what I have said above.

I trust this information is sufficient for your needs. If Dr. Lisco has anything further to add to this, I am sure he will do so.

Faithfully yours,



Austin M. Brues, M.D.
Director, Biology Division

AMB/fm

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AGRICULTURAL RESEARCH & APPL. 6

Argonne National Laboratory

P.O. BOX 5207
CHICAGO 80, ILLINOIS
BUTTERFIELD 1400

August 16, 1948

Dr. Albert H. Holland, Jr.
Medical Advisor
Atomic Energy Commission
Oak Ridge, Tennessee

Dear Jerry:

This short note is merely an amplification of Austin's letter to you written on July 16, 1948. We have, from time to time, discussed the toxicity of plutonium in small amounts, particularly with respect to particles, etc., informally with Dr. Zinn. I have been impressed by the striking number of malignancies that have occurred following the administration of small amounts of plutonium, as well as cerium, to the lungs of rats.

Unfortunately these studies of mine have not been written up as yet, but I have looked at a great number of slides and I should be able to get more detailed information in the relatively near future. By this I mean somewhere near the end of October. I hope we may discuss the matter at the next Information Meeting which I understand will be held here on the 17th, 18th and 19th of October. I sincerely hope you will be able to attend the meeting.

With kindest regards,

Sincerely yours,

Hermann Lisco

Hermann Lisco, M.D.
Director, Medical Division

/jn

1021072

AGRICULTURAL RESEARCH & APPL. 6

C O P Y

Oak Ridge, Tennessee
July 14, 1948

Dr. Austin M. Brues
Director, Biology Division
Argonne National Laboratory
P.O. Box 5207
Chicago 80, Illinois

Dear Austin:

Recently, I have had some second-hand information concerning some statements attributed to Dr. Zinn. In reviewing our project literature and all other available sources, I am unable to substantiate the information and thought perhaps you might have information at Argonne which I do not have available here.

The two statements, and I cannot unmistakably vouch for their accuracy, are as follows:

- (a) "One microcurie of plutonium fixed in the lung will induce primary carcinoma in 85% of the cases", and
- (b) "One microcurie of beta-gamma material fixed in the lung will produce primary carcinoma in 1% of the cases."

I will appreciate it if you can throw any light on these two statements.

With kind personal regards,

Sincerely yours,

signed/

Albert H. Holland, Jr., M.D.
Medical Advisor

Holland/sgn

1021073

In Reply Refer To:
M:ARR

Oak Ridge, Tennessee
July 14, 1948

Dr. Austin M. Bruce
Director, Biology Division
Argonne National Laboratory
P. O. Box 5207
Chicago 80, Illinois

Dear Austin:

Recently, I have had some second-hand information concerning some statements attributed to Dr. Zinn. In reviewing our project literature and all other available sources, I am unable to substantiate the information and thought perhaps you might have information at Argonne which I do not have available here.

The two statements, and I cannot unmistakably vouch for their accuracy, are as follows:

- (a) "One microcurie of plutonium fixed in the lung will induce primary carcinoma in 85% of the cases", and
- (b) "One microcurie of beta-gamma material fixed in the lung will produce primary carcinoma in 1% of the cases."

I will appreciate it if you can throw any light on these two statements.

With kind personal regards,

Sincerely yours,

Albert H. Holland, Jr., M.D.
Medical Adviser

Holland/sgn

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