REPORT OF THE VISITING COMMITTEE FOR THE MEDICAL DEPARTMENT

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Dr. Lloyd V. Berkner, President
Associated Universities, Inc.
Brookhaven National Laboratory
Upton, L. I., New York

Dear Dr. Berkner:

The Visiting Committee for the Medical Department met at the Medical Department Laboratories and Hospital on May 23-24, 1960. Attending for the Committee were Drs. Moore, Wolff, Thorp, Wintrobe, Smadel and Bugher.

During all of the first day and the forenoon of the second, we had the privilege of listening to an excellent series of well prepared papers covering the entire scope of the medical program. It is a matter of considerable satisfaction to us that the medical research program has become progressively more human oriented. In the U. S. generally there has been a tendency for medical investigations to become enthralled with animal experiments for themselves alone to the neglect of the human problems which are the real objective. We feel that the clinically oriented program which is unfolding under Dr. Farr's direction is the one for which the facilities of Brookhaven National Laboratory are needed. The Medical Department is becoming a center where human ills may be studied on a broad basis, using the most useful technology from any scientific discipline.

The dramatic expansion in high energy physics at BNL presents the Medical Department with new problems and remarkable opportunities. Nowhere in the world is there gathered so much competence for an experimental program in the biological effects of high energy radiation. The beginning of operation of the AGS makes both possible and urgent the exploration of the medical implications of exposure to the newly available segment of the energy spectrum.

To maintain the planned program development, it appears that some budgetary relief is necessary. Only 38 scientific personnel were provided in the budget at the time of our meeting; the program plan calls for 48 at this period in the development of the Department. We suggest that strong representations be made to AEC in order that full utilization of the new facilities be made possible and that the desirable program balance of the laboratory be sustained.

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The experimental program needs to emphasize research at low dose rates and low total radiation exposure. This requires substantial numbers of animals for which additional animal facilities are needed at the earliest possible moment. We urge that consideration be given to this construction requirement as an item of high priority.

Respectfully submitted,

John C. Bugher
Chairman pro tem.

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VISITING COMMITTEE FOR THE MEDICAL DEPARTMENT
Program for Scientific Meeting
May 23-24, 1960

TRACER APPLICATIONS OF RADIOACTIVE ISOTOPES IN DEVELOPMENT OF NEW DIAGNOSTIC AND PHYSIOLOGIC CONCEPTS.

Electronic contributions to tracer theory.
J. S. Robertson, M.D., Ph.D.

In Vivo tracer detection and environmental contamination.
S. H. Cohn, Ph.D.

Studies on a population living in a contaminated environment.
R. A. Conard, M.D.

Usefulness of tracers in study of protein metabolism.
S. W. Lippincott, M.D.

Clinical experiences with manganese radioisotopes.
G. C. Cotzias, M.D.

Activation analysis for tracer metals.
D. C. Borg, M.D.

Tracer studies and salt metabolism concepts in hypertension
L. K. Dahl, M.D.

Tracers in amino acid metabolism.
L. V. Hankes, Ph.D.

Isotopic tracers in study of carbohydrate metabolism.
W. W. Shreeve, M.D., Ph.D.

Kinetics of normal and neoplastic blood cell production.
E. P. Cronkite, M.D.

Iododeoxyuridine - a tracer of DNA metabolism which permits *in vivo* measurement.
W. L. Hughes, Ph.D.

Accelerators and other devices used in the Medical Program.
V. P. Bond, M.D., Ph.D.

Neutron capture therapy.
L. E. Farr, M.D.

Neutron effects on central nervous system.
Y. L. Yamamoto, M.D.

Telemetering for patients.
S. Fine, M.D.

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Biological models.
C. J. Shellabarger, Ph.D.

Hormone-receptor interactions.
I. L. Schwartz, M.D.

Gamma emitters in employees.
R. A. Love, M.D.

Studies of nucleic acids in single cells with tritiated pyrimidine-nucleosides.
L. E. Feinendegen, M.D.

Manganese metabolism and adrenocortical activity: an isotopic study.
E. R. Hughes, M.D.

The plysaccharide-protein linkage in the acid glycoprotein.
E. A. Popenoe, Ph.D.

Radiosensitivity of the primary and secondary antibody responses.
R. D. Stoner, Ph.D.

The use of tritiated thymidine in the study of bone growth and development.
E. A. Tonna, Ph.D.

The effect of barbiturate anesthetics on the leukocytes of the dog.
E. A. Usenik, D.V.M., Ph.D.

Degradation of I^{131}- labeled immune y-globulin in mice.
G. Terres, Ph.D.

Relative biological effectiveness of fast neutrons as a function of energy.
J. L. Bateman, M.D.

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