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23 December 1952

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Dr. W. T. Gooch, Dean
Graduate School
Baylor University
Waco, Texas

S.G.O.

Dear Dr. Gooch:

I am writing to you at the suggestion of Dr. Hardy A. Kemp, Baylor University, and Brigadier General Martin E. Griffin, Brooke Army Hospital, concerning participation in a research and development project of the Institute of Nuclear Studies, Oak Ridge, Tennessee. The purpose of the project is to develop and evaluate a radioactive isotope gamma ray therapy machine, as a possible alternative or substitute for the one and two million volt x-ray machines, for deep, short-wave, radiation therapy.

It is anticipated that the development work on the machine itself will require approximately two years. This will be followed by the commercial production of a limited number of isotope machines, to be purchased by the participants in the program. Upon installation of the machines in the x-ray clinics of the participating institutions, a five-year clinical evaluation of this form of therapy will be undertaken. The program will be guided and the results evaluated by a board or committee of the Institute of Nuclear Studies. The members of the board will consist of one qualified radiologist from each participating institution, representatives of the Institute of Nuclear Studies, and possibly others.

The Army Medical Service is most anxious to participate in this program. However, as a matter of policy, the Institute of Nuclear Studies has decided to limit participation to non-governmental institutions. Dr. Marshall Brucer has indicated to General Griffin that the Institute is willing to have the Army Medical Service participate in the program, provided that appropriate arrangements can be made through a university or civilian medical center. He has further indicated that such arrangements through Baylor University would be entirely satisfactory.

The specific costs of the program per participant are estimated to be \$2500 per year for two years for the development work, approximately \$35,000 for the purchase of an isotope machine, plus construction and installation costs, travel expenses for the representative to attend board meetings, and institutional overhead. The Army Medical Service is prepared to furnish these funds under an appropriate contract with Baylor University, on an annual basis.

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MEMPH

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Pursuant to conversations and correspondence between Dr. Kemp, Dr. Brucer, General Griffin and other interested representatives, it is believed that a research contract between Baylor University and this office, incorporating the following provisions, will accomplish the desired results:

1. That a one-year contract be negotiated as soon as practicable for the purpose of participating in the development of a radioactive isotope therapy machine at the Institute of Nuclear Studies, Oak Ridge, Tennessee.

2. That the chief radiologist of Brooke Army Hospital be designated to the Institute of Nuclear Studies as representative of the University on the evaluation board or committee. Initially, this will be Colonel John A. Isherwood, M. C. Since it is understood that Colonel Isherwood also has a faculty appointment in the Department of Radiology of Baylor University, his appointment to represent the University at the Institute of Nuclear Studies is entirely proper. It is suggested that he be nominated for this purpose under his University title, rather than his military title.

3. That Dr. Vincent Collins, head of the Department of Radiology, Baylor University Medical School, Houston, Texas, be nominated as alternate to Colonel Isherwood, as University representative for this project. This is in compliance with the request of Dr. Kemp.

4. That funds in the following amounts be provided by the Army Medical Service to Baylor University for the initial contract year for the purposes indicated:

a. \$2,500 to be paid to the Institute of Nuclear Studies, Oak Ridge, Tennessee, for technical services for research and development work on the isotope therapy machine and such other technical work on radioactive therapy as may be determined by the investigators to be appropriate to the project.

b. Travel funds for the attendance of Dr. Vincent Collins at meetings of the board at Oak Ridge, Tennessee, and for consultations with the radiologists of Brooke Army Hospital, Fort Sam Houston, Texas. This amount should be estimated by Baylor University, based on the costs of transportation, plus per diem for expenses. The latter should be consistent with the policy of the University, but not exceeding \$12.00 per day. (Note: The radiologist from Brooke Army Hospital, being an Army officer, cannot travel on funds under the contract. He will travel on official orders. Hence, no contract funds should be provided for his travel.)

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c. Overhead costs, consistent with University policy for such charges on government research contracts, to be calculated by the University.

5. Expenses incurred by the University for participation in the program will be reimbursed by the government as promptly as operating procedures permit, upon receipt of vouchers covering the expenditures.

In addition to the above provisions for the initial contract year, contingent upon funds being appropriated by the Congress for this purpose, it is our intent to support this work for the entire period of development, estimated to be one additional year at approximately the same cost as the initial year; for the purchase of an isotope machine and its installation at the Brooke Army Hospital; and for a period of therapeutic evaluation of approximately five years.

The isotope machines may be available initially only to participants in the project, but this is not firm yet. If so, it will be necessary to have Baylor University make the purchase from funds to be provided under the contract, approximately two years hence, with the understanding that the machine will be installed at Brooke Army Hospital. Title to the machine will rest with the government. It is hoped that the Department of Radiology of Baylor University Medical School will continue to participate actively, jointly with Brooke Army Hospital throughout the entire period of the project. This would necessitate continued travel of University radiologists to Ft. Sam Houston, Texas, and possibly also to Oak Ridge, Tennessee. It is our plan to provide funds for such travel under the contract, again on an annual basis, and contingent upon funds being appropriated by the Congress.

We understand from Dr. Kemp that the University is much interested in this project, but that funds are not available for participation. I believe that Drs. R. K. Loeffler and Renee Mastrovito, Baylor University, attended the initial meeting of this project at Oak Ridge. I hope that this proposal for a research contract which in reality, provides for joint participation in the project by the University and Brooke Army Hospital will offer mutual advantages of great interest to both institutions.

I would greatly appreciate your early concurrence or comments, concerning this proposal.

Sincerely yours,

cc: General Griffin
Dr. Kemp
Dr. Bruce

J. R. MOOT
Colonel, M. C.
Chairman, Medical Research
and Development Board

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