

November 9, 1971

Messrs. Thomas F. Ahrensfeld
DeBaur Bryant
Frederick P. Hsu
Cyril F. Hotsko
Henry C. Koenig
Arthur J. Stevens
Addison Yeaman

Gentlemen:

We briefly discussed a proposed special project for Dr. Jerome Kleinerman at the meeting in Washington on September 30. I was asked to look into the matter and am now able to report on and recommend the project.

Dr. Kleinerman is a highly qualified pathologist (copies of curriculum vitae and publication list enclosed).

Over the past three years he has collected the lungs and bronchi from a series of adult males who died suddenly from natural or violent causes. Three hundred thirty lungs have been collected. Of these, "historical" information has been collected for 163. Previous analysis of this material by Dr. Kleinerman and his staff, using conventional techniques, has shown "no difference" in the amount of glandular or muscular tissue "in the bronchi of young smokers as compared to age selected non-smoking controls." A copy of a preliminary report on this study is enclosed.

Dr. Kleinerman in his proposal, which is enclosed, agrees to continue and expand his study of the lungs and bronchi of this young male series "to evaluate the internal surface measurements of the lung parenchyma, the pulmonary vasculature and small intrapulmonary airways by the performance of detailed objective measurements utilizing an image analyzing computer." It is believed that the use

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of this instrument by Dr. Kleinerman to evaluate the existing autopsy material would bring objectivity to evaluations which are often based on subjective interpretation (e.g., Dr. Oscar Auerbach's studies).

In addition, the image analyzing computer would be available at the Division of Pathology Research at St. Luke's Hospital for use in other human and animal studies presently underway or to be performed in the future.

The actual cost of the proposed project is the purchase price of the scientific instrument components described. The project is otherwise adequately funded.

We have discussed this project generally with Dr. Hockett and he was favorably impressed. Dr. Hockett confirmed that such equipment is presently in use in the United Kingdom, and he expressed the opinion that image analyzing capability was needed in this country.

Dr. Kleinerman has expressed his hope for a timely commitment, since he has the autopsy material and necessary staff to immediately commence the work described. Delivery of the described equipment will take approximately six weeks.

Our recommendation is that this project be funded in the amount of \$67,515.00 as a CTR Special Project Grant to the Division of Pathology Research, St. Luke's Hospital, Cleveland, Ohio. Please advise me as soon as possible.

Sincerely,

David R. Hardy

DRH:sh
Enclosures

cc: Alexander Holtzman, Esq.