

SMUEA-CR-MP

25 June 1964

Dr. Theodore Cooper  
Director, Center for Cardiovascular Research  
Saint Louis University School of Medicine  
1325 South Grand Boulevard  
Saint Louis 4, Missouri

Dear Dr. Cooper:

Receipt of 10 copies of the first annual comprehensive report on Contract No. DA18-108-AMC-193(A) is acknowledged with thanks. May I remind you of the requirements in paragraph IC of the contract for drawings and detailed specifications and your operating and maintenance instructions to be furnished when the equipment is delivered at the end of the contract. No doubt you are accumulating this information as you go along.

Attached is a list of questions raised by the annual report on which more information is desired. This may be furnished at your convenience with the idea that you may want to include some of it in the final report.

Please give my regards to Dr. Z Eckert and his staff.

Sincerely yours,

1 Incl  
Questions

F. N. CRAIG  
Contract Project Officer  
Directorate of Medical Research

*1304-14 St. Louis (Cooper)*

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1. If you have recorded blood pressures and cardiac rates during any of the determinations of cardiac output, I would like to see the data together with calculations of the peripheral resistance.

2. For an experiment in which successive determinations were made by both methods please prepare a complete set of calculations of cardiac output beginning with the original observations showing changes in background, dose and all settings and adjustments of the equipment. What was the variation in successive determinations?

3. Were blood volumes determined by both dye and RISA methods? If so, how did the results compare?

4. In the series of 63 pairs of curves what is meant by "technically satisfactory"? Does this exclude all the 10 points of vulnerability mentioned in the discussion or can the source of difference between curves be identified?

5. In view of the wide range of cardiac output I should like to see a tabulation including:

dose  
critical settings of equipment  
background and final mixed concentration or count  
blood volume, both methods  
cardiac rate  
stroke volume, both methods  
age, sex, height and weight of subject  
clinical condition or volunteer status  
other conditions such as posture and atropine, if applicable

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