

# THE LOVELACE FOUNDATION

FOR MEDICAL EDUCATION AND RESEARCH

4800 GIBSON BOULEVARD, SE

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*Col. [Signature]*  
*Yesssed*

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13 March 1953

General Otis O. Benson, Jr.  
Commandant  
USAF School of Aviation Medicine  
Randolph Field, Texas

*see attached  
to next down*

Dear Otis:

Enclosed are reports on Contract No. AF 33(038)-13244 as follows:

1. Project No. ~~21-23-020~~ *1201-0007*
  - a. Report No. 9. "Preliminary Report on Growth Adjustments of the Skull"
  - b. Report No. 11. "X-ray Studies of Tracheal Diameters in Normal Human Subjects"
  - c. Report No. 12. "Observations Relevant to Aerosol Bronchography"
  - d. Report No. 13. "A Method for Producing Various Concentrations of Water Vapor in Gas Mixtures at Various Temperatures"
2. Project No. ~~21-27-007~~ *1303-0001*
  - a. "The Relation between Dental Overbite and Aerotitis Media"
3. Project No. ~~21-25-001~~ *1402-0001*
  - a. Report No. 4. "Notes on the in Vitro Determination of Human Blood Oxygen Saturations in the Presence of High Carbon Dioxide"

*Wicks*

*Gavitt  
(New Hyde)*

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To: Gen. O. O. Beaton, Jr.  
13 March 1953  
Page 2

- b. Report No. 6. "Human Tolerance to Acute Exposure to Carbon Dioxide - 9.5 percent Carbon Dioxide in Oxygen at a Ground Level of 5000 ft. (av. bar. 630 mm Hg.)"

The additional material to complete the contract not included is as follows:

1. Project No. 21-23-020

- a. Report No. 10. "Nitrogen Clearance Studies made During the Mt. Evans Expedition in the Summer of 1952"

2. Project No. 21-25-001

- a. Report No. 5. "Human Tolerance to Acute Exposure to Carbon Dioxide - the Respiratory Response to 6.2 percent Carbon Dioxide and Various Concentrations of Oxygen at a Ground Level of 5000 ft. (av. bar. 630 mm Hg.)"

Both of the reports mentioned in the paragraph above are written. Typing is almost complete and the Illustration Department is working on the figures. Dr. Boothby may mail Report No. 10 in a few days. The No. 5, CO<sub>2</sub> paper, should be mailed within ten (10) days. I will have to go over the final copy when I return from "the west" which should be within one (1) week.

Sorry I am tardy in sending in all of the material. Please tell Mike Sweeney he was correct in his estimate of the time element. However, the "effort" was productive.

Best regards.

Sincerely yours,



Clayton S. White, M. D.  
Director of Research

CSW:mll  
enclosures