

U. S. NAVAL RADIOLOGICAL DEFENSE LABORATORY
SAN FRANCISCO 24, CALIFORNIA

IN REPLY REFER
TO FILE:
3-700-67
AIRP:MS
6 Jan 1955

721594

Mr. William E. McGrady
60 Market Street
San Francisco, California

Dear Dr. McGrady:

Through the courtesy of Lou Spadia I had the opportunity to speak to you briefly regarding the special examinations proposed for the football players in this area who might be interested in participating in the enclosed program.

With reference to the blood volume determination at Donner Laboratory

Cr^{51} , 80-100 microcuries or 1/4 of the National Bureau of Standards tolerance level for the Steady State, is employed to tag the RBC.

Tritium, 2 microcuries or 1/5 of the NBC Steady State tolerance level is employed to estimate the aqueous blood volume.

Your consideration of this matter and of the enclosure will be very much appreciated.

Respectfully,

A. R. BERNHE
Captain (MC) USN
Radiological Medical Director

Encl: (1)

Copy to:
Mr. Louis Spadia
Dr. W. Sirlin

BEST COPY AVAILABLE

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U. S. NAVAL RADIOLOGICAL DEFENSE LABORATORY
SAN FRANCISCO 24, CALIFORNIA

IN REPLY REFER
TO FILE:

3-700-68
ARH:ms
6 Jan 1955

Mr. Louis Spadis
Director, Public Relations
760 Market Street
San Francisco, California

Dear Lou:

I think that the enclosure will give you the information on the proposed studies which will be of mutual benefit and undoubtedly of interest to Mr. A. V. Morabito, Coach Red Strader and his staff, the Navy and the Donner Laboratory.

I am leaving the matter up to you for coordination, trial tests on several of the athletes will demonstrate specifically the procedures and the results obtained. All in all it will require several hours of the athletes time. In this project Dr. Will Siri of the Donner Laboratory, University of California will be in charge. I am intensely interested in seeing the work done as Dr. Siri's technique is as accurate and considerably easier than underwater immersion. Some "skeletal" measurements are all that I require if time permits. Until the ball gets rolling I shall be pleased to serve as "middle man" in expediting such arrangements as you deem feasible.

Sincerely yours,

A. R. BEHNKE
Captain (MC) USN
Radiological Medical Director

Copy to:
Dr. John Lawrence

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January 10, 1955

DR. JOHN H. LAWRENCE:

Dear Dr. Lawrence;

Captain Behnke has now completed arrangements for the professional foot ball players (49'ers) to serve as subjects here at the Laboratory. At present it is tentatively arranged to start within the next few weeks, with two men first going through a trial run (the date is not yet set).

As you suggested earlier, Dr. Mc Coombs will cooperate and do histories and physicals, CBC, urinalysis, and any other clinical test which seem desirable and for which there is time. The remaining studies will include body water, body density, Cr ⁵¹ blood volumes and invivo counting, and bone measurements (suggested by Captain Behnke).

May we have your authorization for the following:

1. Clinical studies to be done by clinic personnel.
2. Incubation of RBC'S with Cr. ⁵¹ for blood volumes by Clinic Laboratory personnel (we will do counting).
3. Permission to pay subjects a fee? \$15.00? \$25.00?
4. Suggestions on contemplated or additional tests.

Sincerely

Will

William Siri

WES:rss

*Will - OK do
 What fee you suggest?
 How much time here?
 J D*

UNIVERSITY OF CALIFORNIA—(Letterhead for interdepartmental use)

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1157842

12 January 1955

Captain A. R. Behnke, Director
U. S. Radiological Defense Laboratory
San Francisco, 24, California

KFP: 2-700-67, ARB:ms, 6 January 1955

Dear Al:

We are ready to take on the 49'ers any time at your and their convenience. I have drawn up a tentative schedule for our procedures which calls for a four hour visit to the Laboratory. It is not likely that we can handle more than two subjects on any one day, because of the time required for physicals and for incubation of the red cells. The most convenient days for us are Tuesdays and Thursdays, but if necessary, we probably could manage on Wednesdays and Fridays. We cannot take subjects on Monday, because Dr. McCoombs and clinic facilities are occupied with clinic patients.

Sometime at your convenience perhaps you can tell us what bone measurements you would like to have made. Dr. McCoombs can combine this procedure with his physical examination. Also it will be helpful to have your suggestions on the proposed procedures. Dr. Lawrence, incidentally, has suggested that the subjects can be paid fees from funds available here for that purpose. I do not know the exact amount to be paid, but we can let you know when he returns.

I sincerely hope you can persuade as many of those men as possible to participate in this program. For our purposes, they are an extremely important group.

Sincerely

William Siri

W:S:rs

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TENTATIVE SCHEDULE

TIME (after arrival)	PROCEDURE
0 h 00 m	10 ml. blood withdrawn for Cr. ⁵¹ blood volume, CBC, Hematocrit, etc, 1 ml. (2 mc) tritiated water given orally. Urine specimen (clinic laboratory).
0 h 5 m	History, physical, and bone measurements (Dr. McCoombs).
2 h	Body volume measurement.
3 h 20 m.	Cr. ⁵¹ labeled RBC injected, I. V. (Dr. McCoombs, Rm. 329). In Vivo counting.
4 h	10 ml. blood withdrawn for blood volume and total body water determinations. Work complete.

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