University of California at Berkeley
The Bancroft Library
Berkeley, CA
COPY

Duplicate Copy
Original Lost

LOS ANGELES DEPARTMENT OF PEDIATRICS
SCHOOL OF MEDICINE
UNIVERSITY OF CALIFORNIA MEDICAL CENTER

20 April 1953

To: President Robert G. Sproul
Through: Chancellor Raymond B. Allen
Campus

Dear President Sproul:

Enclosed is an application by Forrest H. Adams, M. D. for a research grant for the Los Angeles Heart Association entitled, "Investigation into Adaptive Mechanisms in Cyanotic Heart Disease". This new study, to be carried out from July 1, 1953 through June 30, 1954, will be performed at the Harbor Doyle Children's Clinic in West Los Angeles.

Dr. Forrest H. Adams plans to continue to investigate the possible mechanisms of adaption in cyanotic children which permit them to tolerate low degrees of oxygen saturation without great impairment to their intelligence and body nutrition. Although the physiologic effects of anoxia due to high altitude have been carefully studied, much less attention has been devoted to the effects of chronic anoxia resulting from disease processes. In three publications, Dr. Adams' anticipated a persistence of some fetal mechanism in cyanotic children. He also showed that the polycythemia in such children is, for the most part, not associated with any changes in the red cell size, the fragility, or the carbonic anhydrase content. There was no significant increase in the reticulocytes, but there was a significant decrease in the number of platelets found. In order to study this adaptive process still further, four major laboratory lines of approach are planned.

We wish to point out that the Los Angeles County Heart Association states as one of its prerequisites that, "The entire amount must be used for cardio-vascular research and no grant will be made for bookkeeping, overhead, or administrative expense".

Enclosed is a form for your signature. Seven copies of the application should be forwarded to the Los Angeles County Heart Association, 316 South Bonnie Brae Street, Los Angeles 5, California. Additional copies of the request are enclosed for distribution.

Your cooperation in facilitating the approval of the request will be greatly appreciated so that it will reach the Los Angeles County Heart Association as soon as possible.

Sincerely,

John M. Adams, M.D.

John M. Adams, M. D.
Professor and Chairman
Department of Pediatrics

APPROVED:

Stafford Warren M.D. 4/21/53

Stafford L. Warren, M. D.
Dean, School of Medicine

Original signed 3/12/53.

University of California at Berkeley
The Bancroft Library/The University Archives, Berkeley CA
Co. Univ. Mus. Corresp. & Reps.
CU-5
484
483-H
p. 4
A. Maguire 1/21/78
COPY

APPLICATION FOR RESEARCH GRANT

Los Angeles Heart Association
[illegible] Bonnie [illegible] Street
Los Angeles 5, California

Application is hereby made for a grant in the amount of $7,550.00 for the period from July 1, [illegible], through June 30, 1954, inclusive (not to exceed 1 year) for the purpose of conducting a research project on the following subject:

TITLE OF PROJECT:	Investigation into the Adaptive Mechanisms in Cyanotic Heart Disease
NAME OF PRINCIPAL INVESTIGATOR:	Forrest H. Adams, M. D. Associate Professor of Pediatrics
ADDRESS OF PRINCIPAL INVESTIGATOR:	U.C.L.A. School of Medicine 401 Hilgard Avenue Los Angeles 24, California
NAME AND ADDRESS OF FINANCIAL OFFICER TO WHOM CHECK SHOULD BE MAILED:	Mr. George F. Taylor, Business Manager Regents of the University of California 101 Administration Building 405 Hilgard Avenue Los Angeles 24, California
NAME OF INSTITUTION:	University of California at Los Angeles
NAME AND TITLE OF OFFICIAL AUTHORIZED TO SIGN FOR INSTITUTION:	Robert G. Sproul, President
PERSONAL SIGNATURE:	_____

University of California Berkeley
The Bancroft Library/The University Archives, Berkeley, CA
Cal. Univ. Pres. Corresp. + Papers
CU-5
4 [illegible]
482 - H
[illegible]
[illegible]
COPY

[illegible]

[illegible]

[illegible] Method of Study

In order to study this [illegible] process still further, four major lines of approach will be made.

a. Characterization of the [illegible]lobin from such children
   1. Electrophoretically
   2. Immunologically
   3. Crystallography

b. Further studies on the platelets by,
   1. Passage of blood from patient to recipient to determine effect of donor blood on recipient's platelet count.
   2. Platelet tolerance tests with adrenaline.

c. Study of the iron metabolism by,
   1. Serum iron determination.
   2. Iron turn over rates

d. Study of the bile pigment metabolism by,
   1. Serum bilirubin determination.
   2. Fecal urobilinogen determination.

University of California at Berkeley
The Bancroft Library/Manuscript Society Archives, Berkeley CA
Ca. Univ. Pres. Office & Papers
Ch 5
484
484-H
6/3
Ca. Magnier 1/4/82
COPY

2.

Requirements for the Internal Use and Available Resources of Space, Equipment, and Personnel.

Space:
Available at [illegible] Clinic. 150

Equipment:
[illegible]
[illegible] Clinic.

Personnel:
The principal investigator is a full time faculty member of U.C.L.A. School of [illegible], Technical help [illegible]

Funds Available From Other Sources: None

Budget

Supplies and Equipment		
Glassware	$ 300.00	
Chemicals	200.00	
Spectrophotometer	1,500.00	
Animals	200.00	
		$2,200.00
Personnel		
Senior Laboratory Technician	3,720.00	
Laboratory Assistant 50%	1,630.00	$5,350.00
TOTAL	$7,550.00	$7,550.00