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AMERICAN HEART ASSOCIATION, INC.
44 East 23rd Street, New York 10, N. Y.

APPLICATION FOR GRANT-IN-AID

Date October 1, 1956

Medical Director
American Heart Association, Inc.

Application is made for a grant-in-aid in the amount of $ [illegible] for the period from July 1, 1956 to July 1, 1957 inclusive, for the support of research on the following subject: Fluid and electrolyte anatomy in certain [illegible] (Renewal Request).

Isidore S. Edelman M.D., Associate Professor of Medicine and Established Investigator of the American Heart Association.
(Name of Responsible Investigator)

Department of Medicine, University of California School of Medicine, San Francisco 22
(Institutional Address of Responsible Investigator)

None
(Name of Collaborating Investigator)
(Institutional Address of Collaborating Investigator)

San Francisco Hospital
(Institution where work is to be done)

San Francisco 10, California
(Address)

Mr. James H. Corley, Vice-President, Business Affairs, University of California Berkeley 4, California
(Name and title of responsible institutional financial officer)

Approved by Executive Office of the Agency or Institution under whose auspices the research is to be carried out.

University of California
(Name of Institution)

Robert G. Sproul
(Signature)

President, University of California

Isidore S. Edelman
(Signature of Responsible Investigator)

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2b.) Annual report submitted on July 1, 1955.

2c.) Persons familiar with work of the responsible investigator:

1. Henry D. Brainerd, M.D., Professor of Clinical Medicine, University of California, School of Medicine, San Francisco.

2. Ellen Brown, M.D., Associate Professor of Medicine, University of California, School of Medicine, San Francisco.

3. Maurice Sokolov, M.D., Associate Professor of Medicine, University of California, School of Medicine, San Francisco.

2d.) Participating personnel.

1. John Harris, M.D., Research Fellow in Medicine, University of California, School of Medicine.

2. Lee W. Birkenfeld, M.D., Research Fellow in Medicine, University of California, School of Medicine.

2e.) Facilities are as outlined in Grant Request for 1955-56.

2f.) <u>Current Funds</u>
American Heart Association Grant-in-Aid for 1955-56 $7,875.

<u>Application pending for support of the proposed research</u>:
None.

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PROPOSED BUDGET

ITEM	1956 1957	19__ 19__	19__19__	TOTAL
PERSONNEL (itemize)				
Senior technician	4,296.00			
EQUIPMENT				
Constant Infusion Pump	550.00			
SUPPLIES				
Isotopes	2,000.00			
Reagents and Expendibles	600.00			
TRAVEL EXPENSES				
	350.00			
OTHER EXPENSES				
Repair and maintenance of equipment.	300.00			
TOTAL	$8,096.00			

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Reference No.: _____ Date Rec'd: _____ (To be filled in by AHA)

Name of Principal Investigator Isidore S. Edelman, M.D.

Institution and address where work will be done University of California School of Medicine
San Francisco 22
California

If Grant is approved, check will be sent to Mr. James H. Corley
Vice-President for Business Affairs
University of California
Berkeley 4, California

TITLE OF PROJECT:
Fluid and Electrolyte Anatomy in Patients with Essential Hypertension.

Starting date July 1, 1956

Budget	19 55	19 56	19 56	19 57	19 57	19 58
Requested	$7,675		$8,096		$8,162	

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Application for Grant-in-Aid to the American Heart Association, Inc., for work on: Fluid and Electrolyte Anatomy in Patients with Essential Hypertension - I. S. Edelman, M.D.

Description in Lay Language

FLUID AND ELECTROLYTE ANATOMY IN PATIENTS WITH ESSENTIAL HYPERTENSION

There is evidence that patients with high blood pressure also have associated abnormalities in the metabolism of salt and water. It is possible that abnormal retention of sodium salts and abnormal losses of potassium salts act to initiate or sustain the high blood pressure. This project will attempt to define the body contents of sodium and potassium salts and water in such patients. This is to be accomplished with trace amounts of isotopes. Simultaneous measurement of blood concentrations of this mineral will be carried out as well. An additional feature of this study will be the redefinition of salt and water contents and blood concentrations after medical therapy in order to examine whether or not successful response to treatment depends on altering the body's water and mineral stores.

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