

**SECOND ANNUAL REPORT
OF THE DIRECTOR OF THE
NATIONAL HEART AND LUNG
INSTITUTE. MARCH 10, 1975**

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Second annual report of the director of the National Heart and Lung Institute. March 10, 1975
by Various

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VARIOUS

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**SECOND ANNUAL REPORT OF THE
DIRECTOR OF THE
NATIONAL HEART AND LUNG INSTITUTE**

**SUBMITTED TO
THE PRESIDENT OF THE UNITED STATES
FOR TRANSMITTAL TO
THE CONGRESS OF THE UNITED STATES
IN ACCORDANCE WITH PUBLIC LAW 92-423**

MARCH 10, 1975

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
National Heart and Lung Institute
DHEW Publication No. (NIH) 75-748



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MARYLAND 20014

NATIONAL HEART AND LUNG INSTITUTE

March 10, 1975

The President
The White House
Washington, D.C.

Dear Mr. President:

I am pleased to submit to you for transmittal to the Congress the Second Annual Report on the National Heart, Blood Vessel, Lung, and Blood Program. This report has been prepared in accordance with Section 413(b) of the Public Health Service Act, as amended by the National Heart, Blood Vessel, Lung, and Blood Act of 1972 (Public Law 92-423, 86 STAT 679).

As required by the Act, we have reported on progress in the Program during calendar year 1974 and presented a revised and updated five-year plan for the Program. The resource projections discussed in the Report are based on scientific and professional judgement as to the resources required to accomplish program objectives within the time frame indicated. However, it is recognized that the allocation of national resources to execute the Program must be determined in relationship to other national needs at any given time.

Respectfully,

Robert L. Ringler, Ph.D.
Acting Director

ABBREVIATIONS

AEC - Atomic Energy Commission	NIAMDD - National Institute of Arthritis, Metabolism, and Digestive Diseases
DHEW - Department of Health, Education, and Welfare	NIH - National Institutes of Health
ERDA - Energy Research and Development Administration	PSRO - Professional Standards Review Organization
FDA - Food and Drug Administration	U.S. - United States
IATC - Interagency Technical Committee on Heart, Blood Vessel, Lung, and Blood Diseases and Blood Resources	USDA - U.S. Department of Agriculture
NASA - National Aeronautics and Space Administration	U.S.S.R. - Union of Soviet Socialist Republics
NHLI - National Heart and Lung Institute	VA - Veterans Administration
ADP - Adenosine Diphosphate	HDFP - Hypertension Detection and Follow-Up Program
AMIS - Aspirin Myocardial Infarction Study	LRC - Lipid Research Clinic
CAST - Coronary Artery Surgery Trial	L/S - Lecithin-to-sphingomyelin ratio
CCU - Coronary care unit	MRFIT - Multiple Risk Factor Intervention Trial
CDP - Coronary Drug Project	mRNA - Messenger ribonucleic acid
CF - Cystic fibrosis	NHBPEP - National High Blood Pressure Education Program
COPD - Chronic obstructive pulmonary disease	pCO ₂ - Partial pressure of carbon dioxide
ECG - Electrocardiogram	pO ₂ - Partial pressure of oxygen
G6PD - Glucose-6-phosphate dehydrogenase	RDS - Respiratory distress syndrome
Hb A - Normal adult hemoglobin	SCORs - Specialized Centers of Research
Hb F - Fetal hemoglobin	TDI - Toluene di-isocyanate
Hb S - Sickle cell hemoglobin	S/S disease - Sickle cell anemia
Hb S-C disease - Genetic variant of sickle cell disease	
Hb S-thalassemia - Genetic variant of sickle cell disease	

I. INTRODUCTION

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This is the second annual report on the National Heart, Blood Vessel, Lung, and Blood Program, submitted to the President for transmittal to the Congress.

This Program is of great importance to the American people. It has potential value for every citizen in our country. It deals with diseases that affect all age groups, both men and women, all ethnic groups, and all strata of society. These diseases have a profound impact on our nation's health and economy. More than 30 million Americans suffer from these diseases, the annual economic costs are in excess of \$40 billion, and heart and blood vessel diseases alone are responsible for more deaths than all other causes combined (see Figure 1). However, for the first time in a quarter of a century, deaths from the number one killer--coronary heart disease--have shown a slight decline, resulting in saving approximately 14,000 Americans a year. Deaths from stroke, hypertension, and rheumatic heart disease are continuing their downward trend, and the death rate from emphysema and chronic bronchitis, after years of sharp increases, has leveled off.

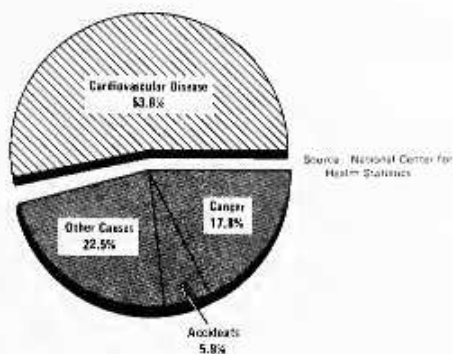


Figure 1. Deaths from all Causes, United States, 1973