International Symposium: The Etiology Of Myocardial Infarction
INTERNATIONAL SYMPOSIUM
THE ETIOLOGY OF MYOCARDIAL INFARCTION
NOVEMBER 16, 17, 18, 1961

The professional staff of the Henry Ford Hospital with the advice and support of the Board of Trustees and Dr. Robin C. Buerki, Executive Director of the Henry Ford Hospital, sponsored an international symposium on the subject, The Etiology of Myocardial Infarction. This symposium was held at the Henry Ford Hospital, November 16, 17, and 18, 1961 in the Clinic Auditorium. The program follows and has been prepared with the help of the advisory members:

The Henry Ford Hospital welcomes participants and guests to the Thirteenth in its series of International Symposia in the biological and medical sciences. It is the hope of the Hospital Board and Staff that this meeting will provide new insights into the Etiology of Myocardial Infarction.

Benson Ford
President

Robin C. Buerki
Executive Director

REGISTRATION
3:00 to 10:00 P.M. Wednesday, November 15, 1961 Terrace Room Foyer of The Statler Hilton Hotel

8:00 A.M. to 12:00 November 16, 1961 The Clinic Lobby of The Henry Ford Hospital

PLACE OF MEETINGS
Scientific Sessions — Auditorium — Henry Ford Hospital
Reception and Dinner — The Statler Hilton Hotel

PROGRAM COMMITTEE
John W. Keyes — Chairman
Detroit

Thomas N. James — Secretary
Detroit

George E. Burch — Advisory Chairman
New Orleans

Herrman L. Blumgart
Boston

Charles K. Friedberg
New York

Robert C. Horn
Detroit

Shirley A. Johnson
Milwaukee

F. Janney Smith
Detroit

William B. Wartman
Chicago

CO-ORDINATOR FOR LOCAL ARRANGEMENTS
David L. Everhart

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Etiology of Myocardial Infarction

8:55 Welcoming Remarks

Robin C. Buerki

Thursday Morning Session
ENVIRONMENT AND HEREDITY

Chairman George E. Burch
Tulane University
New Orleans, Louisiana

9:00-9:20 Racial and Ethnic Factors in the Etiology of Myocardial Infarction
John Yudkin
Queen Elizabeth College
London, England

9:25-9:45 Familial and Hereditary Factors in the Etiology of Myocardial Infarction
Victor A. McKusick
Johns Hopkins Hospital
Baltimore, Maryland

9:50-10:10 Reasons for Sexual Discrepancy in the Incidence of Myocardial Infarction
William Dock
Downstate Medical Center
Brooklyn, New York

10:15 General Discussion

Intermission

Chairman: Herman L. Blumgart
Harvard Medical School
Boston, Massachusetts

10:40-11:00 Meteorologic Considerations in the Etiology of Myocardial Infarction
George E. Burch
Tulane University
New Orleans, Louisiana

11:05-11:25 Phylogenetic Considerations in the Etiology of Myocardial Infarction
Herbert L. Ratcliffe
Penrose Research Laboratory
Philadelphia, Pennsylvania

11:30-11:45 The Possible Bearing of Voodoo and Other Factors in Primitive Cultures on the Etiology of Myocardial Infarction
R. J. W. Burrell
Bantu Cancer Registry
Cape Province, South Africa

11:50-12:15 Germfree Vertebrate Research on the Etiology of Myocardial Infarction: The Role of the Intestinal Flora in Metabolism of Cholesterol, Bile Acid and Vitamin K
Bengt E. Gustafsson
Karolinska Institutet
Stockholm, Sweden

12:20 General Discussion

LUNCHEON

Thursday Afternoon Session

MYOCARDIAL INFARCTION AND MYOCARDIAL NECROSIS

Chairman: Jesse Edwards
Charles T. Miller Hospital
St. Paul, Minnesota

2:00-2:20 Definition of Myocardial Infarction
William B. Wartman
Northwestern University
Chicago, Illinois

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2:25-2:45 Myocardial Necrosis (With or Without Coronary Occlusion) Induced by Manipulation of Steroids and Electrolytes, and Its Possible Human Analogy

Hans Selye
University of Montreal
Montreal, Canada

2:50-3:10 Thrombogenesis, Thrombolysis, Myocardial Necrosis, and Their Relationships to Dietary Manipulations

Wilbur A. Thomas
Albany Medical College
Albany, New York

3:15 General Discussion

3:40-4:00 The Anoxic Heart (Steps in the Metabolic Death of Myocardium Based on Observations from Coronary Sinus Catheterization)

Richard J. Bing
Wayne State University
Detroit, Michigan

4:05-4:25 Steps in the Metabolic Death of Myocardium Based on Histochemical and Electron Microscopic Studies

Robert B. Jennings
Northwestern University
Chicago, Illinois

4:30-4:50 The Effect of Acute and Chronic Ischemia on Enzymes of the Myocardium

John S. LaDue
Sloan-Kettering Institute
New York, New York

Friday Morning Session

VASCULAR FACTORS IN CORONARY OCCLUSION

Chairman: William B. Wartman
Northwestern University
Chicago, Illinois

Robert C. Horn
Henry Ford Hospital
Detroit, Michigan

9:00-9:20 Types of Coronary Obstruction and Their Morphologic Characteristics

J. C. Paterson
University of Western Ontario
London, Canada

9:25-9:45 Coronary Artery Intramural Hemorrhage in the Etiology of Myocardial Infarction

William C. Manion
Armed Forces Institute of Pathology
Washington, D.C.

9:50-10:10 Inflammatory and Metabolic Changes of the Arterial Wall and Vasa Vasorum, and Their Role in the Pathogenesis of Atherosclerosis and Arterial Occlusion

10:15 General Discussion

Intermission

Chairman: Robert C. Horn
Henry Ford Hospital
Detroit, Michigan
Etiology of Myocardial Infarction

10:40-11:00 Mast Cells, Endothelium and Thrombosis

11:05-11:25 Thromboplastin Activity of Human Vascular Tissue; Anticoagulant Activity of Vascular Acid Mucopolysaccharides

11:30-11:50 Electrochemical Metabolism of the Blood Vessel Wall and Its Possible Relationship to Myocardial Infarction

11:55-12:15 Coagulation, Atherosclerosis, and Myocardial Infarction

12:20 General Discussion
LUNCHEON

Friday Afternoon Session
PATHOLOGIC ANATOMY AND PHYSIOLOGY OF THE CORONARY ARTERIES

Chairman: John W. Keyes
Henry Ford Hospital
Detroit, Michigan

2:00-2:20 Anatomic Factors Influencing the Location of Coronary Occlusion and Development of Collateral Coronary Circulation

2:25-2:45 Anatomic Relationship of a Coronary Occlusion to the Blood Supply of the Sinus Node and A-V Node in Causing Myocardial Infarction

2:50-3:10 The Coronary Collateral Circulation in the Etiology of Myocardial Infarction

3:15-3:35 Vasopressin, Catecholamines and Serotonin as Possible Causes of Myocardial Ischemia

3:40 General Discussion
Intermission

PATHOLOGIC PHYSIOLOGY OF THE MYOCARDIUM

Chairman: Richard J. Bing
Wayne State University
Detroit, Michigan

4:00-4:30 The Effect of Acute and Chronic Ischemia on Myocardial Contractility

Earl P. Benditt
University of Washington
Seattle, Washington

John E. Kirk
Washington University
St. Louis, Missouri

Philip N. Sawyer
Downstate Medical Center
New York, New York

Lawson McDonald
Institute of Cardiology
London, England

Herrman L. Blumgart
Harvard Medical School
Boston, Massachusetts

Thomas N. James
Henry Ford Hospital
Detroit, Michigan

Donald E. Gregg
Walter Reed Institute for Research
Washington, D. C.

Timothy J. Regan
Seton Hall
Jersey City, New Jersey

A. Fleckenstein
University of Freiburg
Freiburg, Germany

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4:35-4:55 The Role of Fats in Myocardial Metabolism and Its Bearing on Both Coronary Occlusion and Myocardial Infarction

5:00 General Discussion

Friday Evening
(Statler Hilton Hotel)

6:30 Reception
7:30 Banquet
Chairman: John W. Keyes
Speaker: R. J. W. Burrell
"Witchcraft, Witch Doctors and Voodoo Death"

Saturday Morning Session
SYSTEMIC FACTORS AFFECTING THE HEART

Chairman: William Dock
Downstate Medical Center
Brooklyn, New York

9:00-9:20 Physical Effort and the Emotions in the Genesis of Coronary Occlusion and Myocardial Infarction

9:25-9:45 Lipid Mobilizing Factor: Possible Role in Coagulation and Myocardial Infarction

9:50-10:10 Uric Acid Metabolism and Myocardial Infarction
10:15 General Discussion
Intermission

Chairman: Charles K. Friedberg
Mt. Sinai Hospital
New York, New York

10:40-11:10 Cardiovascular Reflexes and Myocardial Infarction

11:15-11:35 Nicotine in the Etiology of Myocardial Infarction

11:40-12:00 Cardiovascular Function During Sleep and Hibernation
12:05 General Discussion
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Etiology of Myocardial Infarction

Saturday Afternoon Session

COAGULATION

Chairman: Thomas N. James
Henry Ford Hospital
Detroit, Michigan

2:00-2:20 Current Knowledge of Thrombosis and Blood Coagulation

2:25-2:45 Settling of Blood Cell Masses to the Lower Side of Vessels During Life and the Probable Significance

2:50-3:10 Determinants of Blood Viscosity

3:15 General Discussion

Intermission

Chairman: Shirley A. Johnson
Marquette University
Milwaukee, Wisconsin

3:40-4:10 Relation of Fibrinolytic Activity to Myocardial Infarction

4:15-4:35 Altered Coagulability of Blood Locally in the Myocardial Microcirculation with Experimental Coronary Occlusion

4:40-5:00 Blood Platelets in the Etiology of Myocardial Infarction

5:05 General Discussion

5:15 Summation of the Symposium

DISCUSSION

In scheduling the program five minutes have been allowed at the end of each presentation to discuss that paper. At the end of each session there will be opportunity for general discussion of all papers presented at that session. Although it is intended that anyone with pertinent remarks be allowed to present them, please confine these within one or at the most two minutes. If this privilege is abused, the chairman of each session is instructed to terminate such remarks. No slides may be shown during the discussion unless cleared with the session chairman prior to the beginning of the session.