International Symposium: Pain
INTERNATIONAL SYMPOSIUM
PAIN

October 21, 22, 23, 1964

The professional staff of the Henry Ford Hospital with the initial 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 Pain. The symposium was held at the Henry Ford Hospital, October 21, 22, and 23, 1964, in the Clinic Auditorium. The program follows and has been prepared with the help of the advisory members:

PROGRAM COMMITTEE
ADVISORY COMMITTEE

Advisory Chairman
James C. White, M.D.

Professor of Surgery Emeritus, Harvard Medical School, Boston, Massachusetts.

Henry K. Beecher, M.D.
Dorr Professor of Research in Anaesthesia, Harvard Medical School, Boston, Massachusetts.

Edgar A. Kahn, M.D.
Professor of Surgery, Neurosurgical Service, University of Michigan, Ann Arbor, Michigan.

A. Earl Walker, M.D.
Professor of Neurological Surgery, Johns Hopkins University, Baltimore, Maryland.

Lyle A. French, M.D., Ph.D.
Professor and Director, Division of Neurological Surgery, University of Minnesota, Minneapolis, Minnesota.

Maurice H. Seever, Ph.D., M.D.
Professor and Chairman, Department of Pharmacology, University of Michigan Medical School, Ann Arbor, Michigan.

William F. Collins, Jr., M.D.
Professor and Chairman, Division of Neurological Surgery, Medical College of Virginia, Richmond, Virginia.
INTERNATIONAL SYMPOSIUM

LOCAL MEMBERS

Robert S. Knighton, M.D.  Paul R. Dumke, M.D.
Arthur B. Eisenbrey, M.D.  John W. Ditzler, M.D.

PROGRAM

WEDNESDAY MORNING, OCTOBER 21, 1964

Chairman — A. Earl Walker, M.D.

9:00 Welcome
9:05 Introduction
9:15 The Relationship Between Pain Sensibility and Peripheral Nerve Fibres
9:35 Observations on Ascending Afferent Systems in the Central Nervous System
9:50 Electrophysiological Studies of Peripheral and Central Pathways Conducting Pain
10:05 Tracts of the Anterolateral Column of the Spinal Cord

10:20 INTERMISSION

10:35 Trigeminal Nucleus Caudalis
10:50 Thalamic Representation of Pain
11:05 Fiber Size and Myelination in Afferent Systems
11:25 A Technique to Study Pain in Monkeys—Effects of Drugs and Anatomic Lesions
11:40 Designated Discussion

12:00 LUNCHEON

WEDNESDAY AFTERNOON, OCTOBER 21, 1964

Chairman — Henry K. Beecher, M.D.

2:00 Mechanism of Analgesia and Pain
2:25 Chemistry of Morphine—like Analgesics
2:40 Prediction of Analgesic Activity in Man by Animal Testing
2:55 On Assaying Analgesics in Man
3:10 INTERMISSION
INTERNATIONAL SYMPOSIUM

Chairman — William F. Collins, Jr., M.D.

3:25 Animal Screening for Drug Dependence  Maurice H. Severs, Ph.D., M.D.
  Gerald A. Deneau, Ph.D.

3:40 Determination of Dependence Liability of Morphin—Type Analgesics in Man  Harris Isbell, M.D.

3:55 The Use of Chemical Agents in the Control of Pain  Henry K. Beecher, M.D.

4:15 Designated Discussion  Abraham Wikler, M.D.

THURSDAY MORNING, OCTOBER 22, 1964

Chairman — Edgar A. Kahn, M.D.

9:00 Some Aspects of Anatomy and Physiology of Pain  W. Noordenbos, M.D.

9:20 Painful Phantom Limb: Relief through Permanent Interruption of Peripheral Afferent Pathways  James B. Campbell, M.D.

9:35 Relief of Phantom Pain by Cordotomy  Murray A. Falconer, M.Ch.; F.R.C.S., F.R.A.C.S.

9:50 Management of Pain by Sympathectomy and Dorsal Spinal Rhizotomy  James C. White, M.D.

10:10 INTERMISSION

10:25 Anterolateral Thoracic Cordotomy  James A. Taren, M.D.
  Edgar A. Kahn, M.D.

10:40 Cervical and Medullary Tractotomy— Technique and Clinical Usefulness  Lyle A. French, M.D., Ph.D.

11:00 Percutaneous Cordotomy for Pain  Sean Mullan, M.D., F.R.C.S.

11:15 Anaesthesia to Permit Intra-Operative Sensory Testing  Donald P. Todd, M.D.

11:25 Phenol for Pain and Spasticity  Robert M. Maher, M.D.

11:40 Designated Discussion  James C. White, M.D.

12:00 LUNCHEON

THURSDAY AFTERNOON, OCTOBER 22, 1964

Chairman — Lyle A. French, M.D.

2:00 Significance of Fresh Data on Spinal Trigeminal Tract for Possibility of Selective Tractotomies  Zdenek Kunc, Dr.Sc.
2:15 Trigeminal Neuralgia: Trigeminal Root and Ganglion Injections Using Phenol in Glycerine
   Antony Jefferson, F.R.C.S.

2:30 Current Status of Posterior Root Compression for the Relief of Trigeminal Neuralgia
   C. Hunter Shelden, M.D.

2:45 INTERMISSION

3:00 Posterior Root Section and Other Surgical Methods for Relief of Trigeminal Neuralgia
   Edgar A. Kahn, M.D.

3:20 Geigy 32883 and Other Drugs for Pain Relief in Tic Douloureux
   Sigfrid Blom, M.D.

3:35 Designated Discussion
   W. James Gardner, M.D.

THURSDAY EVENING

RECEPTION AND BANQUET
7:00 p.m.
STATLER HILTON HOTEL

Speaker: William K. Livingston, M.D.
Silas Weir Mitchell and His Work on Causalgia

FRIDAY MORNING, OCTOBER 23, 1964
Chairman — James C. White, M.D.

9:00 Atypical Facial Pain
   William H. Sweet, M.D., D.Sc.

9:15 Glossopharyngeal, Vagus and Nervus Intermedius Neuralgias
   A. Earl Walker, M.D.

9:30 Relief of Malignant Pain in Head and Neck by Sensory Root Section
   Nicholas Wetzel, M.D., Ph.D.

9:45 The Psychogenic Regional Pain Syndrome and its Diagnosis
   Allan Walters, M.D.

10:00 Designated Discussion
   A. Earl Walker, M.D.

10:15 INTERMISSION

10:30 Leucotomy for the Relief of Pain: The Selection of Cases and Psychological Hazards
   Thomas P. Hackett, M.D.

10:45 Pain "Relief by Frontal Leucotomy"
   Eldon L. Foltz, M.D.
   Lowell E. White, Jr., M.D.
INTERNATIONAL SYMPOSIUM

11:00 Some Principles and Technical Aspects of Stereotaxic Surgery
   Lars Leksell, M.D.

11:15 Basal Thalamotomy
   E. Spiegel, M.D.
   Henry T. Wycis, M.D.

11:30 Relief of Certain Types of Intractable Pain by Stereotaxic Surgery
   T. Riecherl, Prof. Dr.

11:45 Designated Discussion
   William H. Sweet, M.D., D.Sc.

12:00 LUNCHEON

FRIDAY AFTERNOON, OCTOBER 23, 1964

1:30 Unsolved Pain Problems: Panel Discussion
   Peter W. Nathan, M.D., F.R.C.P.
   William H. Sweet, M.D., D.Sc.
   Frank E. Nulsen, M.D.
   Guy Owens, M.D.
   Sean Mullan, M.D., F.R.C.S.
   William Noordenbos, M.D.

2:00 Concluding Remarks
   Graham Weddell, M.D.

LIST OF PARTICIPANTS

Henry K. Beecher, M.D., M.D. (Hon.)
   Dorr Professor of Research in Anaesthesia
   Harvard Medical School
   Chief, Department of Anaesthesia
   Massachusetts General Hospital
   Boston, Massachusetts, U.S.A.

George H. Bishop, Ph.D.
   Professor Emeritus of Neurophysiology
   Washington University, School of Medicine
   Department of Neurology
   St. Louis, Missouri, U.S.A.

Sigfrid Blom, M.D.
   Department of Clinical Neurophysiology
   University of Uppsala
   Akad. Sjukhuset, Uppsala, Sweden

James B. Campbell, M.D.
   Research Professor of Neurological Surgery
   New York University School of Medicine
   New York, New York, U.S.A.

William F. Collins, Jr., M.D.
   Professor and Chairman, Division of Neurological Surgery
   Medical College of Virginia
   Richmond, Virginia, U.S.A.

Gerald A. Deneau, Ph.D.
   Assistant Professor
   Department of Pharmacology
   The University of Michigan Medical School
   Ann Arbor, Michigan, U.S.A.

Murray A. Falconer, M.Ch.;
   F.R.C.S., F.R.A.C.S.
   Director, Guy's Maudsley Neurosurgical Unit
   Maudsley Hospital
   London, England

Eldon L. Foltz, M.D.
   Professor of Neurosurgery
   Univ. of Washington School of Medicine
   Seattle, Washington, U.S.A.

Lyle A. French, M.D., Ph.D.
   Professor and Director, Division of Neurological Surgery
   University of Minnesota
   Minneapolis, Minnesota, U.S.A.

W. James Gardner, M.D.
   Former Chief, Department of Neurological Surgery
   Cleveland Clinic
   Cleveland, Ohio, U.S.A.

Leonard Grumbach, Ph.D.
   Associate Professor of Physiology
   The Albany Medical College of Union University
   Albany, New York, U.S.A.
INTERNATIONAL SYMPOSIUM

_Thomas P. Hackett, M.D._
Associate Psychiatrist
Instructor in Psychiatry
Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts, U.S.A.

_Raymond W. Houde, M.D._
Associate Member and Chief
Analgesic Study Section
Sloan-Kettering Institute for Cancer Research
New York, New York, U.S.A.

_Harris Isbell, M.D._
Professor of Medicine
Section on Clinical Pharmacology
Department of Medicine
University of Kentucky Medical Center
Lexington, Kentucky, U.S.A.

_Antony Jefferson, F.R.C.S._
Consultant Neurosurgeon to the
United Sheffield Hospitals
Sheffield, Yorkshire, England

_Edgar A. Kahn, M.D._
Professor of Surgery
Chief of Neurosurgical Service
University Medical School
University of Michigan
Ann Arbor, Michigan, U.S.A.

_Robert B. King, M.D._
Professor of Surgery (Neurosurgery)
State University of New York
Syracuse, New York, U.S.A.

_Lawrence Krugcr, Ph.D._
Associate Professor of Anatomy
University of California
Los Angeles, California, U.S.A.

_Zdenek Kunc, Professor Dr., Dr. Sc._
Chief of Neurosurgical Clinic
Prague, Czechoslovakia

_Lars Leksell, M.D._
Professor of Neurosurgery, Karolinska Institute
Director, Department of Neurosurgery
Karolinska Sjukhuset
Stockholm, Sweden

_Robert K. S. Lim, M.B., Ch.B._
Director, Medical Sciences Research Laboratory
Miles Laboratories, Inc.
Elkhart, Indiana, U.S.A.

_William K. Livingston, M.D._
Professor of Surgery Emeritus
University of Oregon Medical School
Camp Sherman, Oregon

_Robert M. Maher, M.D., Lond._
Consultant Physician, Pain Relief Centre
Manchester Regional Hospital and Rochdale Hospital Group
Manchester, England

_Everette L. May, Ph.D._
Scientist Director, Public Health Service
Chief, Section on Medicinal Chemistry
National Institutes of Health
National Institute of Arthritis and Metabolic Diseases
Bethesda, Maryland, U.S.A.

_William R. Mehler, Ph.D._
Research Scientist (Lecturer, University of California, San Francisco)
Neuro-Biology Branch-OLS N.A.S.A. Ames Research Center
Moffett Field, Mt. View, California, U.S.A.

_Sean Mullan, M.D., F.R.C.S._
Professor of Neurological Surgery
The University of Chicago Hospitals and Clinics
Chicago, Illinois

_Peter W. Nathan, M.D., F.R.C.P._
Member of External Scientific Staff
Medical Research Council
National Hospital of Nervous Diseases
Queen Square, London, England

_William Noordenbos, M.D._
Professor of Neurosurgery
University of Amsterdam
Neurosurgeon-in-Charge, Wilhelmina Gasthuis
Amsterdam, The Netherlands

_Frank E. Nulsen, M.D._
Professor and Chairman, Division of Neurological Surgery
Western Reserve University, School of Medicine
Cleveland, Ohio, U.S.A.

_Guy Owens, M.D._
Chief of Department of Neurosurgery
Roswell Park Memorial Institute
Buffalo, New York

_T. Riechert, Professor Dr._
Director, Neurochirurgische Klinik der Universität Freiburg i. Br.
Ordinarius Fuer Neurochirurgie
Freiburg i. Br., Germany

_Gilbert S. Ross, M.D._
Associate Professor of Neurology
Director, Division of Neurology
State University of New York
Upstate Medical Center
Syracuse, New York, U.S.A.
Maurice H. Seegers, Ph.D., M.D.
Professor and Chairman Department of Pharmacology
The University of Michigan Medical School
Ann Arbor, Michigan, U.S.A.

C. Norman Shealy, M.D.
Instructor of Neurological Surgery Division of Neurological Surgery
Western Reserve University, School of Medicine
Cleveland, Ohio, U.S.A.

C. Hunter Shelden, M.D., M.S. in Neurosurgery
Huntington Memorial Hospital
Director, Neuro Vascular Foundation
Pasadena, California, U.S.A.

E. A. Spiegel, M.D.
Professor, Department of Experimental Neurology
Temple-University School of Medicine and Hospital
Philadelphia, Pennsylvania, U.S.A.

William H. Sweet, M.D., D.Sc.
Chief, Neurosurgical Service
Massachusetts General Hospital
Associate Professor of Surgery
Harvard Medical School at Massachusetts General Hospital
Boston, Massachusetts, U.S.A.

James A. Taren, M.D.
Associate Professor of Surgery Neurosurgical Service
University of Michigan Medical School
Ann Arbor, Michigan, U.S.A.

Donald P. Todd, M.D.
Assistant Clinical Professor of Anaesthesia
Harvard Medical School
Massachusetts General Hospital
Boston, Massachusetts, U.S.A.

A. Earl Walker, M.D.
Professor of Neurological Surgery
Johns Hopkins University
Neurosurgeon-in-Chief, Johns Hopkins Hospital
Baltimore, Maryland, U.S.A.

Allan Walters, M.D.
Associate Professor of Medicine and Psychiatry
Toronto General Hospital
University of Toronto
Toronto, Ontario, Canada

Graham Weddell, M.D.
Reader in Human Anatomy and Fellow of Oriel College
University of Oxford
Oxford, England

Nicholas Wetzel, M.D., Ph.D.
Assistant Professor, Department of Surgery Northwestern University
Chicago, Illinois, U.S.A.

James C. White, M.D.
Professor of Surgery Emeritus
Harvard Medical School
Member of the Board of Consultation
Former Chief of Neurosurgery Service
Boston, Massachusetts, U.S.A.

Lowell E. White, Jr., M.D.
Associate Professor of Neurosurgery
University of Washington
School of Medicine
Seattle, Washington, U.S.A.

Abraham Wikler, M.D.
Professor of Psychiatry
College of Medicine
University of Kentucky
Lexington, Kentucky, U.S.A.

Henry T. Wycis, M.D.
Clinical Professor of Neurosurgery
Temple-University School of Medicine and Hospital
Philadelphia, Pennsylvania, U.S.A.