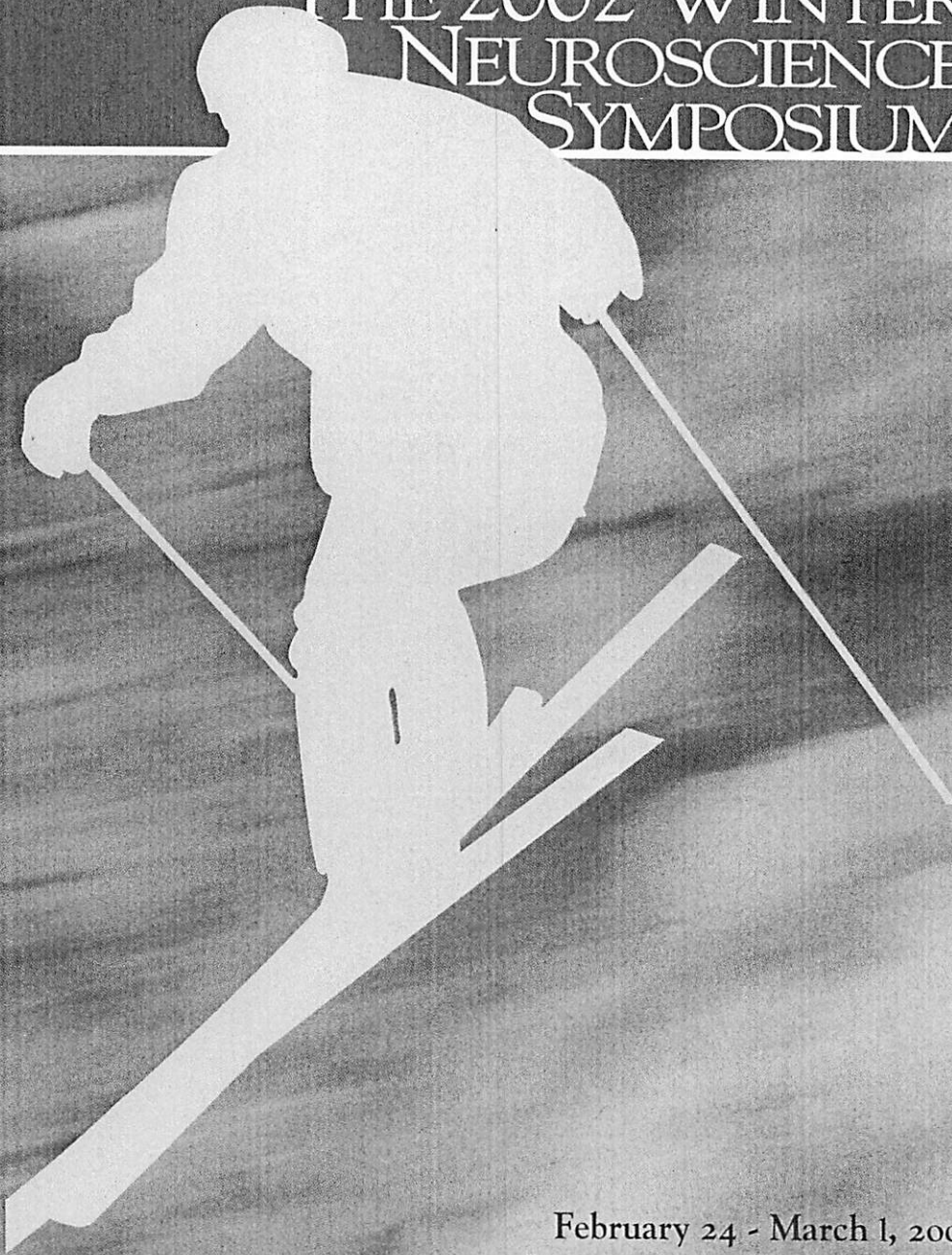


Mayfield Clinic and Mayo Clinic
in joint sponsorship with
The Cleveland Clinic Foundation
present

THE 2002 WINTER NEUROSCIENCE SYMPOSIUM



February 24 - March 1, 2002
Snowmass Conference Center
Snowmass Village, Colorado

THE 2002 WINTER NEUROSCIENCE SYMPOSIUM

The 2002 Winter Neuroscience Symposium is one of the nation's most exciting symposiums featuring presentations and hands-on courses on some of today's most pressing topics.

Featured presentations will include: current treatments for malignant brain tumors, frameless stereotaxy systems for intracranial tumors, treatment of acute stroke, intracranial stenting, frameless stereotaxy systems for spinal surgery, instrumentation systems for cervical and lumbar surgery, deep brain stimulation and Parkinson's disease.

Jointly sponsored by the Mayfield Clinic, Mayo Clinic, and The Cleveland Clinic Foundation, this symposium is targeted to neurosurgeons, orthopedists, neuroradiologists, and neurologists. You're invited to attend one of neurosciences's most exciting neurosurgical symposiums.

Each day the program is divided into morning and evening sessions, leaving mid-day sessions open for skiing and enjoying the beautiful scenery of Snowmass Mountain, one of Colorado's highest peaks.

COURSE DIRECTORS

Jeffrey T. Keller, PhD
University of Cincinnati Medical Center
Charles Kuntz, IV, MD
University of Cincinnati Medical Center
Joung Lee, MD
The Cleveland Clinic Foundation
Michael J. Link, MD
Mayo Clinic
John M. Tew, Jr., MD
University of Cincinnati Medical Center
William D. Tobler, MD
University of Cincinnati Medical Center
Harry van Loveren, MD
University of Cincinnati Medical Center
Mario Zuccarello, MD
University of Cincinnati Medical Center

REGISTRATION

THE 2002 WINTER NEUROSCIENCE SYMPOSIUM

February 24-March 1, 2002

register online!
www.mayfieldclinic.com

Registration Form
(Please Print)

Name _____

(First, middle initial, last & title-MD, RN, etc.)

Company _____

Address _____

City, State, Zip _____

Phone _____

Fax _____

Email _____

Last 4 digits of Soc. Security No. _____

- My check for the tuition fee of \$750, made payable to the Neurosciences Foundation, is enclosed. All foreign payments must be made by a draft on a U.S. bank.

Early bird registration fee is \$600 if received
by **December 15, 2001**

Mail to:

Sheila Stuckey, Coordinator
Mayfield Clinic
506 Oak Street
Cincinnati, Ohio 45219
Phone: 800-325-7787, ext. 5251
Fax: 513-569-5365
e-mail: sstuckey@mayfieldclinic.com

COURSE REGISTRATION DEADLINE:
FEBRUARY 12, 2002



(Tear here)

PROGRAM

MONDAY, FEBRUARY 25

MORNING SESSIONS

7:00 am	Spine Biomechanics <i>Edward C. Benzel, MD</i>
7:20 am	The Role of Hyaluronate After Spinal Cord Injury <i>Charles Kuntz, IV, MD</i>
7:40 am	Management of Subaxial Cervical Spine Fractures <i>Mark B. Dekutoski, MD</i>
8:00 am	Cervical Pseudoarthrosis <i>William Welch, MD</i>
8:20 am	Summit Fixation System: Polyaxial Screw Fixation of the Posterior Cervical Spine <i>Jonathan Sherman, MD</i>
8:40 am	Anterior Cervical Fusion Using Fusion Cages <i>Melvin Whitfield, MD</i>
9:00 am	Adjourn for morning
9:30 am	

AFTERNOON SESSIONS

4:00 pm	Cervical Spine Biomechanics: Didactic Session <i>Edward C. Benzel, MD</i> <i>Charles Kuntz, IV, MD</i>
4:20 pm	Cervical Spine Instrumentation: Hands-on Session <i>Edward Benzel, MD</i> <i>Charles Kuntz, IV, MD</i> <i>Christopher Kager, MD</i>
4:40 pm	
5:00 pm	
5:20 pm	
5:40 pm	
6:00 pm	Consultant's Corner <i>Mark Dekutoski, MD</i>
6:30 pm	Adjourn for the evening*

FACULTY

Cleveland Clinic Foundation/
Department of Neurosurgery
Cleveland, OH

Edward C. Benzel, MD
Michael DeGeorgia, MD
Joung H. Lee, MD
Peter A Rasmussen, MD
Ali R. Rezai, MD
Micheal A. Vogelbaum, MD
Melvin Whitfield, MD

Washington University Medical Center
St. Louis, MO
Michael R. Chicoine, MD

University of Cincinnati/Mayfield Clinic & Spine Institute
Cincinnati, OH

Jeffrey T. Keller, PhD
Charles Kuntz, IV, MD
Andrew J. Ringer, MD
Carl Shapiro, DO, Mayfield Spine Institute
John M. Tew, Jr., MD
William D. Tobler, MD
Harry R. van Loveren, MD
Mario Zuccarello, MD

University of Georgia Medical Center, Augusta, GA
James R. Fick, MD

Classification of Thoracolumbar Fractures
Mark B. Dekutoski, MD

Current Treatments of Thoracolumbar Fractures
Andrew Kokkino, MD

POLAR New Lumbar Instrumentation
William Welch, MD

Pedicle Screw Removal: Results
Jonathan Sberman, MD

Practical Biomechanics of Interbody Cages
Seth Zeidman, MD

Cages: Past, Present and Future
Edward C. Benzel, MD

Consultant's Corner
Edward Benzel, MD

Adjourn for morning

Discogenic Pain: Pathophysiology and Treatment by Fusion or Prosthesis
Charles Ray, MD

Endoscopic Procedure in the Lumbar Spine
Edmond Frank, MD

Thoracolumbar Spinal Instrumentation and Spine Procedures: Hands-on Session
Christopher Kager, MD
Lee Guterman, MD

Consultant's Corner
Charles Kuntz, IV, MD

Adjourn for the evening*

Mayo Clinic/Department of Neurosurgery
Rochester, MN

Mark B. Dekutoski, MD
William E. Krauss, MD
Michael J. Link, MD
Fredric B. Meyer, MD
Bruce E. Pollock, MD
Robert J. Spinner, MD

Mayo Clinic, Jacksonville, Florida
Alice Patton, MD
Robert Wharen, MD

Endovascular Therapy of Traumatic Carotid Dissection
Andrew Ringer, MD

Stent Assisted Angioplasty of Intractable Vertebro-basilar Atherosclerosis: Clinical & Imaging Results
Peter Rasmussen, MD

Liquid Embolic Agents for Treatment of Cerebral Aneurysms
Lee Guterman, MD

Treatment of Intracranial Aneurysms: Current Status of Clinical Trials
Douglas Chyatte, MD

The Role of Skull Base Approaches to ACoA Aneurysms
Mario Zuccarello, MD
Jeffrey T. Keller, PhD

Endoscopy Assisted Microsurgery on Cerebral Aneurysms
Hirotsoshi Sano, MD

Consultant's Corner
Troy Payner, MD

Adjourn for morning

Endoscopic Pituitary Surgery
J. Grotenhuis, MD

Microsurgical Dissection Techniques in the Pineal Region Including Endoscopic Assistance
Christian Matula, MD

Awake Stereotactic Guided Aggressive Resection of Low and Intermediate Grade Gliomas
Fredric Meyer, MD

Meningothelial Meningiomas: Emerging Knowledge
Joung Lee, MD

Surgical Strategy for Parasellar Tumors Based on Meningeal Anatomy
Takeshi Kawase, MD

Skull Base Approaches to Basilar Aneurysms and Brain Stem Vascular Malformations
John M. Tew, Jr., MD

Consultant's Corner

Adjourn for the evening*

University Medical Center, St. Radboud
The Netherlands
J. Andre Grotenhuis, MD

Oregon Health Science University, Portland, OR
Edmund H. Frank, MD

Oregon Neurosurgery Specialists, Eugene, OR
Andrew J. Kokkino, MD

Fujita Health University, Fujita, Japan
Hirotsoshi Sano, MD

THURSDAY, FEBRUARY 28

FRIDAY, MARCH 1

Imaging of Tumors: Spectroscopy & Perfusion
Alice Patton, MD

CP Angle Tumors
Michael Link, MD

Meningioma Radiosurgery: Grade I Resection
Bruce Pollock, MD

Antigens to Insulin-Like Growth Factor Receptor Type I for the Treatment of Glioma
David Andrews, MD

Investigations of the Antitumoral Effects of Lipopolysaccharide Against Malignant Gliomas
Michael Chicoine, MD

Signal Transduction Inhibitor Strategies for Treating Malignant Gliomas
Michael Vogelbaum, MD

Transcranial Surgery for Pituitary Adenomas
Harry van Loveren, MD

Adjourn for morning

Brain Stimulation: Current Clinical Application and Future Prospects
Ali Rezaei, MD

Bilateral Subthalamic Nuclei Implants for Parkinson's Disease
Allan J. Hamilton, MD

Deep Brain Stimulation for Medically Intractable Parkinson's Disease
Robert Wharen, MD

Common Entrapment Syndromes: Upper Extremity
Robert J. Spinner, MD

Surgical Techniques to Resect Tumors From Eloquent Cortical Regions
Jim Fick, MD

Sympathetic Pain: Diagnosis and Treatment in the Setting of Low Back Pain
Carl Shapiro, DO

Consultants Corner

Adjourn for the evening*

The Molecular Basis of X-linked Hydrocephalus
Hioyuki Kamiguchi, MD

The History of Efforts to Prevent Dural Adhesions
William D. Tobler, MD

Syringomyelia
William Krauss, MD

Hypothermia for Acute Stroke: COOL AID, A Randomized Controlled Trial
Michael DeGeorgia, MD

Nerve Injuries and Athletes
Robert J. Spinner, MD

Current Management and Results of Unruptured and Ruptured Cerebral Aneurysms
Sadao Suga, MD

Adjourn*

** A 5 minute Q & A period is included in the allotted time for each speaker.*

Keio University School of Medicine
Tokyo, Japan
Takeshi Kawase, MD
Sadao Suga, MD

RIKEN Brain Science Center, Saitama, Japan
Hiroyuki Kamiguchi, MD, PhD

University of Arizona Health Sciences Center
Tucson, AZ
Allan J. Hamilton, MD

University of Rochester, Rochester, NY
Seth M. Zeidman, MD

University of Vienna Medical Center, Vienna, Austria
Christian Matula, MD, PhD

Indianapolis Neurosurgical Group, Indianapolis, IN
Troy D. Payner, MD

University of Pittsburgh Medical Center
Pittsburgh, PA
William C. Welch, MD
Jonathan Sherman, MD

Thomas Jefferson University Medical Center
Philadelphia, PA
David W. Andrews, MD

OBJECTIVES

Upon completion of the symposium, participants should be able to:

- Discuss the diagnosis and management of cervical spine pathology, surgical intervention and spinal instrumentation
- Demonstrate the use of instrumentation applied in the surgical treatment of disorders of the cervical spine
- Discuss diagnosis and management of thoracolumbar spinal pathology including surgical intervention and spinal instrumentation.
- Demonstrate and explain the use of instrumentation (vertebroplasty, kyphoplasty, and IDET) applied for surgical treatment of disorders of the thoracolumbar spine
- Describe the treatment of cerebrovascular lesions—especially aneurysms—using state of the art technologies including stenting and endovascular coiling
- Diagnose and discuss the treatment of various intracranial tumors including gliomas and meningiomas using various treatment modalities
- Explain neurological treatment including movement disorders and nerve entrapments
- Describe the pathology and treatment of various neurological disorders including hydrocephalus, syringomyelia, vascular lesions and nerve injuries

ACCREDITATION

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Education through joint sponsorship of The Cleveland Clinic Foundation Center for Continuing Education, Mayfield Clinic and Mayo Clinic. The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this activity for a maximum of 21.5 hours in Category 1 credit towards the AMA Physicians Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in this educational activity.

DISCLAIMER

This information is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition. In no event will The Cleveland Clinic Foundation Center for Continuing Education, Mayfield Clinic or Mayo Clinic be liable for any decision made or action taken in reliance upon the information provided through this activity.

FACULTY DISCLOSURE

Current guideline state that participants in CME activities should be made aware of any affiliation or financial interest that may affect the speaker's presentation(s) and/or who will be discussing off label-therapies. Each speaker has been requested to complete a faculty disclosure form. The names of faculty members declaring a potential conflict of interest, discussing off-label therapies, and those who decline to sign a statement will be shown in the activities syllabus.

LODGING & TUITION

The SilverTree Hotel, (800-525-9402) which is adjacent to the Snowmass Conference Center, and the Timberline Condominiums (800-922-4001) are holding a limited number of rooms. A minimum of 7 nights stay is required. Early bird room reservation deadline is **December 15, 2001**, after that date reservations will be accepted upon availability.

\$750.00 payable to Neurosciences Foundation with pre-registration. A \$100 cancellation fee will be charged for withdrawals after February 12, 2002. Written notification is required to process a refund. **New this year you can register online at: www.mayfieldclinic.com!**

QUESTIONS

For information on best ski equipment rental for beginner, intermediate and expert skiers, call Snowmass Sports, 800-950-3567. Discounts are available.

United and United Express have joined with Snowmass Conference Center to offer discounts on fares when lodging is arranged at Snowmass Village, January 4, 2002, through December 15, 2002. For information call Snowmass Central Travel, 800-598-2004.

If you have any special needs that require additional assistance please call Marci Jennings, Snowmass Village Resort Association, at 800-598-2006, ext. 209. Requests must be received at least two weeks before the course date.