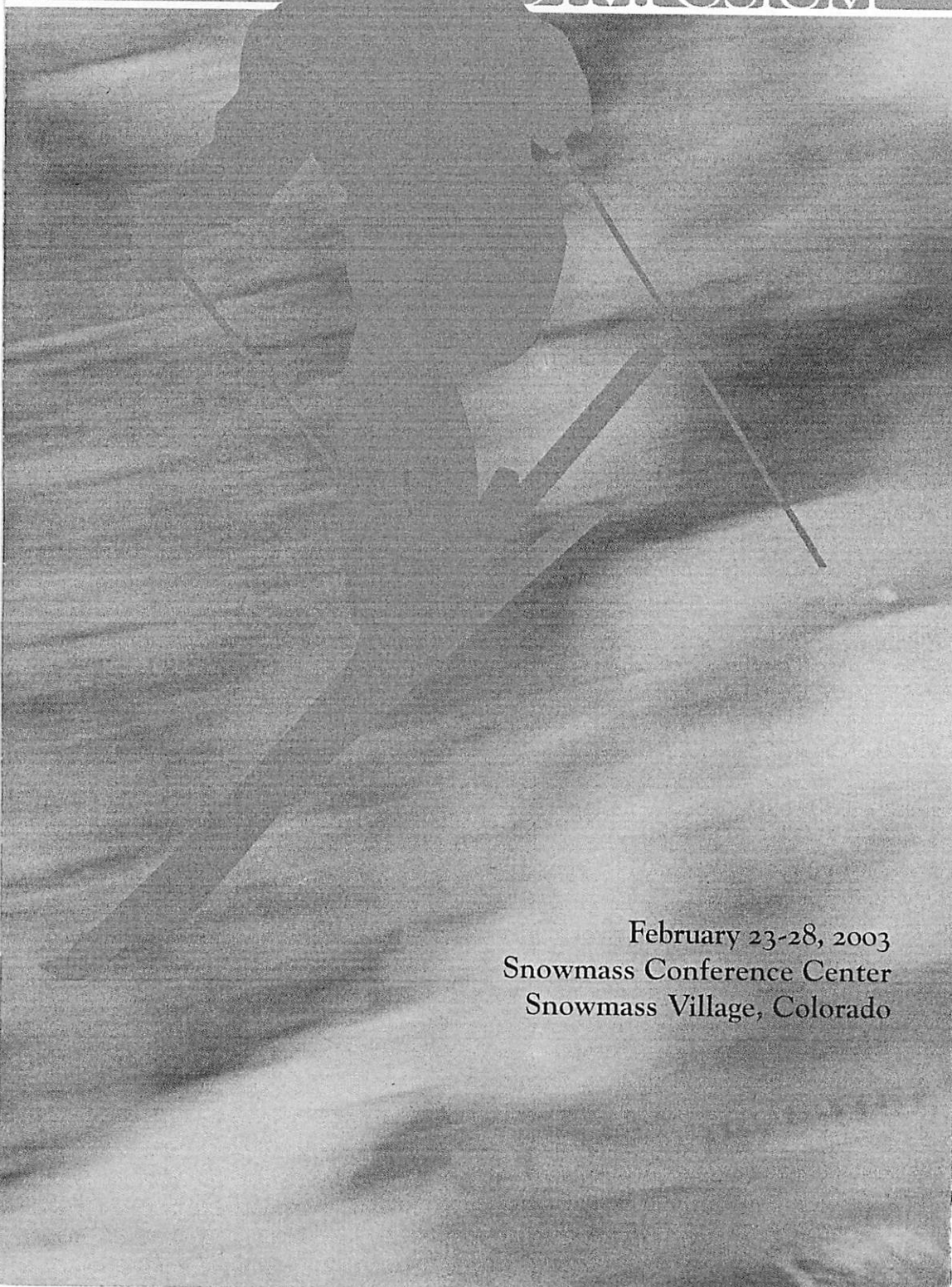


Mayfield Clinic and Mayo Clinic
in joint sponsorship with
The Cleveland Clinic Foundation
present

THE 2003 WINTER NEUROSCIENCE SYMPOSIUM



February 23-28, 2003
Snowmass Conference Center
Snowmass Village, Colorado

THE 2003 WINTER NEUROSCIENCE SYMPOSIUM

The 2003 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 research and treatments for malignant brain tumors, frameless stereotaxy systems for intracranial tumors, endovascular therapy of cerebral aneurysms, extracranial carotid revascularization, kyphoplasty and vertebroplasty, cervical spondylosis and dynamic spine stabilization.

Jointly sponsored by the Mayfield Clinic, Mayo Clinic, and The Cleveland Clinic Foundation, this symposium is targeted to neurosurgeons, orthopedists, neuroradiologists, and neurologists.

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

Raj K. Narayan, MD

University of Cincinnati Medical Center

John M. Tew, Jr., MD

University of Cincinnati Medical Center

William D. Tobler, MD

University of Cincinnati Medical Center

Mario Zuccarello, MD

University of Cincinnati Medical Center

REGISTRATION

THE 2003 WINTER NEUROSCIENCE SYMPOSIUM

February 23-28, 2003

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 \$800, made payable to the Neurosciences Foundation, is enclosed. All foreign payments must be made by a draft on a U.S. bank.

Mail to:

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

COURSE REGISTRATION DEADLINE:
FEBRUARY 12, 2003

(Tear here)



PROGRAM

MONDAY, FEBRUARY 24

MORNING SESSIONS

7:00 am	Pathophysiology of Discogenic Pain, Diagnosis and Clinical Management <i>Charles D. Ray, MD</i>
7:20 am	Artificial Cervical Discs <i>Joseph T. Alexander, MD</i>
7:40 am	Chiari Malformation and Fibromyalgia <i>Edward C. Benzel, MD</i>
8:00 am	Surgical Management of Occipital and Surgical Instability <i>William C. Welch, MD</i>
8:20 am	Consultant's Corner
8:40 am	Adjourn for the morning*
9:00 am	

AFTERNOON SESSIONS

4:00 pm	Spine Surgery—Cost Containment and Fiscal Responsibility <i>Edward C. Benzel, MD</i>
4:20 pm	Priority Consult—A New Model for Patient Intake <i>William D. Tobler, MD</i> <i>Michael J. Gilligan, FACHE</i>
4:40 pm	Rural Health Care Advocacy: The Role of the Neurosurgeon <i>Douglas C. Chyatte, MD</i>
5:00 pm	Understanding EMTALA <i>TBA</i>
5:20 pm	Consultant's Corner
5:40 pm	Adjourn for the evening*
6:00 pm	

Cleveland Clinic Foundation
Cleveland, OH

Edward C. Benzel, MD
Michael DeGeorgia, MD
Joung H. Lee, MD
Glen H. J. Stevens, MD
Santhosh A. Thomas, DO
Michael A. Vogelbaum, MD, PhD

Washington University Medical Center
St. Louis, MO

Michael R. Chicoine, MD
Sarah Jost, MD

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

Norberto Andaluz, MD
Michael J. Gilligan, FACHE
Charles Kuntz, IV, MD
Colby Maher, MD
Raj K. Narayan, MD
Andrew J. Ringer, MD
John M. Tew, Jr., MD
William D. Tobler, MD
Mario Zuccarello, MD

Intra-operative MRI: Cleveland Clinic Experience
Michael A. Vogelbaum, MD, PhD

Minocycline and Rifampin Impregnated Catheters and CSF-Related Infections
Allan J. Hamilton, MD

Head Injury: New Directions
Raj K. Narayan, MD

Multi-modal Monitoring in the Neurocritical Care Unit
Michael DeGeorgia, MD

Spinal AV Fistula-Imaging Update
Alice Patton, MD

Adjourn for the morning*

Biomechanics—Nuts and Bolts, Old and New
Edward C. Benzel, MD

Cervical Spine Instrumentation: Hands-on Session
Edward C. Benzel, MD, Christopher Kager, MD, Charles Kuntz, IV, MD

Consultant's Corner

Adjourn for the evening*

Carotid Occlusion: COSS
Mario Zuccarello, MD

Distal Extracranial Internal Carotid Artery Aneurysms: Management and Outcome
Michael Link, MD

The Role of Cytokines in Cerebral Blood Flow
Cormac Maher, MD

The Role of Lamina Terminalis Post SAH Hydrocephalus
Norberto Andaluz, MD

Carotid Angioplasty and Stenting: Is There a Role?
Andrew J. Ringer, MD

The Durability of Carotid Endarterectomy
Fredric B. Meyer, MD

Adjourn for the morning*

Non-enhancing Anaplastic Astrocytomas: A Better Prognostic Group
David W. Andrews, MD

The Analysis of the Use of the Orbitozygomatic Osteotomy in Clinical Practice
Michael Chicoine, MD, Sarah Jost, MD

A Treatment Protocol for Pineal Region Tumors in Children at the Mayo Clinic
Corey Raffel, MD, PhD

Intradural Extramedullary Tumors
James R. Fick, MD

Anterior Fossa Meningiomas Associated with Visual Loss
John M. Tew, Jr., MD

Surgical Approaches to Complex Tumors of the Vertebral Column
Robert J. Bohinski, MD, PhD

Adjourn for the evening*

Mayo Clinic, Rochester, MN
William E. Krauss, MD
Michael J. Link, MD
Cormac Maher, MD
Fredric B. Meyer, MD
Corey Raffel, MD, PhD
Robert J. Spinner, MD

Mayo Clinic, Jacksonville, FL
H. Gordon Deen, MD
Eric Nottmeier, MD
Alice Patton, MD

Lancaster NeuroScience & Spine Associates,
Lancaster, PA
Christopher D. Kager, MD

University of Texas MD Anderson Cancer Center,
Houston, TX
Robert J. Bohinski, MD, PhD

Center of Brain & Spine Surgery, Chicago, IL
Martin D. Herman, MD, PhD

American College of Spine Surgery, Jacksonville, FL
Charles D. Ray, MD

THURSDAY, FEBRUARY 27

Percutaneous Lumbar Spine Fusion
Martin D. Herman, MD, PhD

Adjacent Level Disc Disease Following Spinal Fusion
Christopher Kager, MD

Zygapophysial Joint and Low Back Pain
Santhosh A. Thomas, DO

Lumboperitoneal Shunting with Video-Laparoscopy of Refractory Lumbar CSF Leak
H. Gordon Deen, MD

Indications, Technique and Complications Avoidance for Vertebroplasty
Andrew J. Ringer, MD

Vertebroplasty as an Adjunct to Spinal Surgery in Osteoporotic Patients
Edmund H. Frank, MD

Adjourn for the morning*

Stealth Stereotactic Registration & Stereotactic Systems in Complex Spine Reconstruction
Eric Nottmeier, MD

Spinal Hardware: Intraoperative Salvage Techniques
William E. Krauss, MD

Initial Experience Using Posterior Thoracic Vertebral Body Screws
Charles Kuntz, IV, MD

Neurophysiologic Monitoring During Lumbar Operations Including Interbody Fusions
William C. Welch, MD

Thoracolumbar Instrumentation: Hands-on Session
Charles Kuntz, IV, MD, William C. Welch, MD

Adjourn for the evening*

FRIDAY, FEBRUARY 28

How Molecular Testing Can Influence Brain Tumor Treatment
Glen H. J. Stevens, MD

Neurostimulation for Pain Meets the 21st Century
Claudio A. Feler, MD

What's New In Peripheral Nerve Tumors
Robert J. Spinner, MD

Willbrand's Knee: Does It Really Exist?
Joung H. Lee, MD

Revision Surgery for Instrumented Thoracolumbar Kyphosis
Colby Maher, MD

Adjourn*

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

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

Geisinger Health System, Danville, PA
Douglas C. Chyatte, MD

Wake Forest University School of Medicine,
Winston-Salem, NC
Joseph T. Alexander, MD

University of Tennessee, Memphis, TN
Claudio A. Feler, MD

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

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

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

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

OBJECTIVES

- Upon completion of the symposium, participants should be able to:
- Demonstrate and explain the use of instrumentation including kyphoplasty and vertebroplasty for surgical treatment of the thoracolumbar spine.
 - Diagnose and discuss the treatment of various intracranial tumors including gliomas, astrocytomas, and meningiomas.
 - Demonstrate the surgical techniques that are most appropriate for the treatment of skull base tumors including meningiomas associated with visual loss.
 - Describe and discuss the treatment modalities of various neurological disorders including hydrocephalus, syringomyelia, chiari malformations, and fibromyalgia.
 - Classify spinal column tumors and identify the indications, treatment goals, and expected clinical outcomes of surgery for spinal column tumors.
 - Assess the advantages and disadvantages of various spinal fusion techniques.
 - Discuss the indications for carotid endarterectomy and stent assisted angioplasty.

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.

This course is eligible for 21.5 hours in the American Osteopathic Association.

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. Reservations will be accepted upon availability.

\$800.00 payable to Neurosciences Foundation with pre-registration. A \$100 cancellation fee will be charged for withdrawals after February 12, 2003. Written notification is required to process a refund. **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.

If you have any special needs that require additional assistance please call Tara Williams, Snowmass Village Resort Association, at 800-598-2006, ext. 275. Requests must be received at least two weeks before the course date.