

This program will provide neurosurgeons and orthopedic surgeons with the latest techniques for treating patients with cranial and spinal problems.

Objectives

- Assess the treatment of cerebrovascular pathologies, including aneurysms of the anterior and posterior cerebral circulation
- Compare and contrast endovascular and aneurysm clipping
- Discuss the treatment options for lesions of the skull base, including surgical techniques
- Explain various treatment modalities for intracranial neoplasms, including medical management, surgery and radiation
- Assess and evaluate kyphoplasty and vertebroplasty for the treatment of spinal disorders
- Identify the current techniques of minimally-invasive spinal surgery
- Describe the latest technology applied for cervical and lumbar arthroplasty
- Discuss the surgical treatment of spinal deformity and traumatic spine injury

The University of Cincinnati College of Medicine designates this educational activity for a maximum of 25 credits of Category 1 toward the AMA Physician's Recognition Award. Each Physician should claim only those credits that he/she actually spent in the educational activity. The University of Cincinnati College of Medicine is accredited by the Accreditation Council of Continuing Medical Education to sponsor Continuing Medical Education for Physicians.

Monday, February 28, 2005

7:00 - 9:30am
Cerebrovascular
Intradural Vertebral Artery Dissection:
Natural History
Mario Zuccarello, MD & Chiraz Chahalala, MD

Acute Stroke Therapy
Andrew J. Ringer, MD

Basilar Aneurysms: Coiling vs. Clipping
Troy D. Payner, MD

Opticoperforal Approach to
Anterior Communicating Aneurysms
Mario Zuccarello, MD

Blood Transfusions & Neurocritical Care
Michael De Georgia, MD

Exposure of Distal C1 Segment of ICA
in the Parapharyngeal Space
Jeffrey T. Keller, PhD

Case Studies

4:00 - 6:30pm
Tumor/Skull Base Surgery
Meningiomas of the Frontal Fossa
John M. Tew, Jr., MD

Meningiomas:
When & When Not to Operate
Joung H. Lee, MD

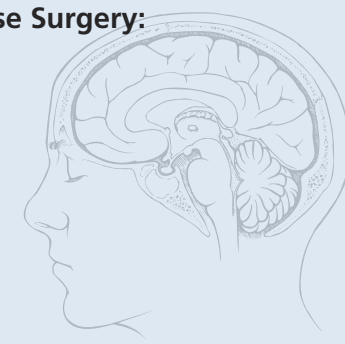
Spheno-orbital Meningiomas:
Surgical Management
Michael R. Chicoine, MD

The Learning Curve in Acoustic
Neuroma Surgery
Michael J. Link, MD

Reconstruction of the Cranial Skull Base
Philip V. Theodosopoulos, MD

12 Years of Skull Base Surgery:
Lessons Learned
Joung H. Lee, MD

Case Studies



Tuesday, March 1, 2005

7:00 - 9:30am
Tumors/Neuro-oncology
Single Metastasis: M. D. Anderson Experience
Christopher M. McPherson, MD

Prolonged Survival in GBM Patients Treated
with Resection, Seeds & Wafers
Borimir J. Darackiewicz, MD

Medical Management of Brain Tumors
Glen H. Stevens, DO, PhD

Dose-Response Relationship for
Radiosurgery of Brain Metastases
Michael Vogelbaum, MD, PhD

Glioma Stem Cells: Future Applications
Michael J. Petri, MD

Well-circumscribed Anaplastic Astrocytomas
David W. Andrews, MD

Convection Enhanced Drug Delivery
Michael Vogelbaum, MD, PhD

Panel Discussion

4:00 - 6:30pm
General Neurosurgical Topics
Adult Temporal Lobe Epilepsy Surgery
William E. Bingaman, Jr., MD

Clinical Trials for Traumatic Brain Injury
Raj K. Narayan, MD

Trigeminal Neuralgia & Gamma Knife
Alain C. J. de Lotbiniere, MD

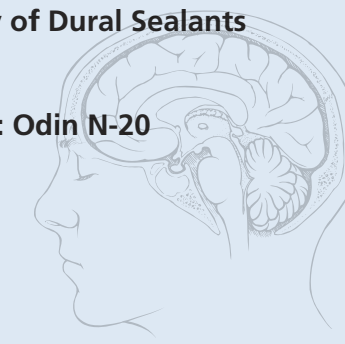
Advances in Stimulation for Refractory Pain
Nicholas M. Boulis, MD

Peripheral Nerve Tumors: Avoiding
Complications
Robert J. Spinner, MD

A Prospective Study of Dural Sealants
John M. Tew, Jr., MD

Intra-operative MRI: Odin N-20
George K. Bosis, MD

Panel Discussion



Wednesday, March 2, 2005

7:00 - 9:30am
Spinal Stabilization
Introduction
Charles Kuntz, IV, MD

History of Spine at Snowmass
William D. Tobler, MD

Dynamic Neutralization of the Lumbar Spine
William C. Welch, MD

Posterior Dynamic Systems (Dynesys)
Scott H. Kitchel, MD

Evidence Base Analysis of Vertebral
Augmentation Procedures
Isador H. Lieberman, MD, MBA, FRCS(C)

Kyphoplasty vs. Vertebroplasty:
A Review of the Literature
Richard Schlenk, MD

Kyphoplasty in Organ Transplant Recipients
H. Gordon Deen, MD

Panel Discussion

4:00 - 6:30pm
Image-guided Spine Surgery
Overview of Image-guided Spine Surgery
Kevin T. Foley, MD

Intra-operative CT & Navigation
William D. Tobler, MD

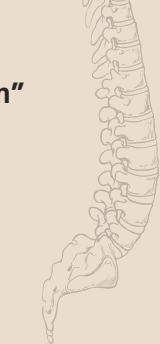
Surface Matching Registration in Complex
Spinal Cases: BrainLAB
Eric W. Nottmeier, MD

Isocentric Fluoroscopic Spinal Navigation:
Preliminary Experience
Andrew T. Daitley, MD

Current & Future Trends in Image-guided
Surgery of the Spine
Gerald E. Rodts, Jr., MD

Lumbar Fusion: "Pathfinder System"
William D. Tobler, MD

Panel Discussion



Thursday, March 3, 2005

7:00 - 9:30am
Cervical & Lumbar Arthroplasty
History of Spinal Arthroplasty
Charles Kuntz, IV, MD

Biomechanics: Motion Segment Preservation
Edward C. Benzel, MD

Early Experience with Flexicare Lumbar Disc
P. Colby Maher, MD & Charles Kuntz, IV, MD

Prodisc Arthroplasty: Semmes-Murphy Clinic
Kevin T. Foley, MD

Cervical Arthroplasty Using the Bryan Disc
Richard G. Fessler, MD, PhD

Arthroplasty: Indiana Spine Experience
Rick C. Sasso, MD

Disc Arthroplasty: Who Will Pay For It?
Isador H. Lieberman, MD, MBA, FRCS(C)

Artificial Disc: Should We Be Doing This?
Joseph T. Alexander, MD

Panel Discussion

4:00 - 6:30pm
Minimally Invasive Spine Surgery (MISS)
Minimally Invasive Thoracic Discectomy
Richard G. Fessler, MD, PhD

Minimally Invasive TLIF: 2-Year Follow-up
Kevin T. Foley, MD

XLIF 90: Far Lateral ALIF
Scott H. Kitchel, MD

Percutaneous Cervical Discectomy
Martin D. Herman, MD, PhD

Mini-open PLIF
Michael W. Groff, MD

Mini-open TLIF: PEEK & BMP
Praveen V. Mummaneni, MD

Minimally Invasive Resection of Intradural Tumors
Richard G. Fessler, MD, PhD

MISS: Availability & Changing Market Share
Douglas Chyatte, MD

Case Studies

Friday, March 4, 2005

7:00 - 9:30am
Deformity/Traumatic Spinal Surgery
Lateral Extracavitary Corpectomy
Robert J. Bohinski, MD, PhD

Vertebral Column Subtraction Osteotomy
Charles Kuntz, IV, MD

Trans-sternal Approach: Cervicothoracic Area
Praveen V. Mummaneni, MD

Title to be determined
Rick C. Sasso, MD

Correction of Cervical Deformity
Edward C. Benzel, MD

Anterior Cervical Instrumentation Failure
William C. Welch, MD

Treatment of Thoracolumbar Junction Trauma
Christopher I. Shaffrey, MD

Techniques of Spinopelvic Fixation
Christopher I. Shaffrey, MD

Case Studies

4:00 - 6:30pm
Fusion & Postoperative Outcomes
Update on Biomaterials & the Spine
Joseph T. Alexander, MD

Osteobiologics and Fusion
Randy F. Davis, MD

Fusion Adjuncts: Electrical Stimulation
William C. Welch, MD

Pain Management: Algorithm for Surgeons
Randy F. Davis, MD

C1-C2 Lateral Fusion for Instability
Edmund H. Frank, MD

Outcome & Costs: 4000 Outpatient Cases
Jason R. Hubbard, MD

Major Neuro Deficits Following Spine Surgery
P. Colby Maher, MD

Panel Discussion



Lodging and Location

Snowmass Village is a beautiful resort area perfect for winter fun. Nestled in the Colorado Rockies, Snowmass provides a serene backdrop for skiing, snowboarding, shopping, dining, and relaxing.

The Silvertree Hotel is the Village's only full-service, ski-in, ski-out hotel. Improvements this year include a remodel of all public areas of the hotel and the addition of high speed, wireless internet access throughout. The Silvertree Hotel, Wildwood Lodge and the Snowmass Conference Center.

The Wildwood Lodge, offers the relaxed atmosphere and comfort of a mountain lodge. This year, the Wildwood Lodge staff is ready to welcome guests into the newly remodeled lobby and redecorated rooms.

Village Property Management Condominiums offers value-priced studios and spacious, private residences. Accommodations are available directly on the slopes or just a short shuttle ride away.

To make lodging reservations, please call 800-525-9402. A limited number of rooms/condos have been reserved for those attending the Winter Clinics. Reservations will be accepted based on availability.

THE SILVERTREE HOTEL WILDWOOD LODGE
Village Property Management, Inc. ASPEN | SNOWMASS

Tuition	Early Bird Price *extended until 12/15	Full Price after 12/15
Full Program	\$800	\$1000
Cranial Program Only (Feb. 28-Mar. 2)	\$640	\$800
Spinal Program Only (Mar. 2-Mar. 4)	\$640	\$800



To register, visit
www.winterclinics.com
or call 1-800-325-7787
Registration Deadline:
February 11, 2004

Exhibitors*

Blackstone Medical
Codman, Inc.
Confluent Surgical
Ethicon, Inc.
Integra Foundation
Kyphon
Leica Microsystems
Medtronic Midas Rex
Medtronic Sofamor Danek
Medtronic Surgical Navigation
Orthovita
Priority Consult
Schaerer Mayfield
Stryker Leibinger Microimplants
Synthes Maxillofacial
Synthes Spine
The Anspach Companies
Zimmer Spine

*as of November 10, 2004

Faculty

Emory University

Atlanta, Georgia
-Praveen V. Mummaneni, MD
-Gerald E. Rodts, Jr., MD

Geisinger Health System

Danville, Pennsylvania
-Douglas Chyatte, MD

Indianapolis

Neurosurgical Group

Indianapolis, Indiana
-Troy D. Payner, MD

Indiana University

Indianapolis, Indiana
-Michael W. Groff, MD
-Rick C. Sasso, MD

Johns Hopkins University

Baltimore, Maryland
-Randy F. Davis, MD

Lutheran General Hospital

Chicago, Illinois
-George K. Bosis, MD
-Marrin D. Herman, MD, PhD

M. D. Anderson Cancer Center

Houston, Texas
-Christopher M. McPherson, MD

University of Cincinnati /

Mayfield Clinic
Cincinnati, Ohio
-Robert J. Bohinski, MD, PhD
-Chiraz Chahalala, MD
-Borimir J. Darackiewicz, MD
-Jeffrey T. Keller, PhD
-Charles Kuntz, IV, MD

-P. Colby Maher, MD

-Raj K. Narayan, MD
-Michael J. Petri, MD
-Andrew J. Ringer, MD
-John M. Tew, Jr., MD
-Philip V. Theodosopoulos, MD
-William D. Tobler, MD
-Mario Zuccarello, MD

Mayo Clinic

Jacksonville, Florida
-H. Gordon Deen, MD
-Eric W. Nottmeier, MD

Rochester, Minnesota

-Michael J. Link, MD
-Robert J. Spinner, MD

Neurological Surgeons, PC

Nashville, Tennessee
-Jason R. Hubbard, MD

Oregon Health Sciences

Portland, Oregon
-Edmund H. Frank, MD
-Scott H. Kitchel, MD

The Cleveland

Clinic Foundation
Cleveland, Ohio
-Edward C. Benzel, MD
-William E. Bingaman, Jr., MD
-Nicholas M. Boulis, MD
-Michael De Georgia, MD
-Joung H. Lee, MD
-Isador H. Lieberman, MD, MBA, FRCS(C)
-Richard Schlenk, MD
-Glen H. J. Stevens, DO, PhD
-Michael Vogelbaum, MD, PhD

Thomas Jefferson University

Philadelphia, Pennsylvania
-David W. Andrews, MD

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& Dentistry of New Jersey
Newark, New Jersey
-Robert F. Heary, MD

University of Chicago

Chicago, Illinois
-Richard G. Fessler, MD, PhD
-Kevin T. Foley, MD

University of Pittsburgh

Pittsburgh, Pennsylvania
-William C. Welch, MD

University of Tennessee

Memphis, Tennessee
-Kevin T. Foley, MD

University of Virginia

Charlottesville, Virginia
-Christopher I. Shaffrey, MD

University of Washington

Seattle, Washington
-Andrew T. Daitley, MD

Wake Forest University

Winston-Salem, North Carolina
-Joseph T. Alexander, MD

Washington University

St. Louis, Missouri
-Michael R. Chicoine, MD

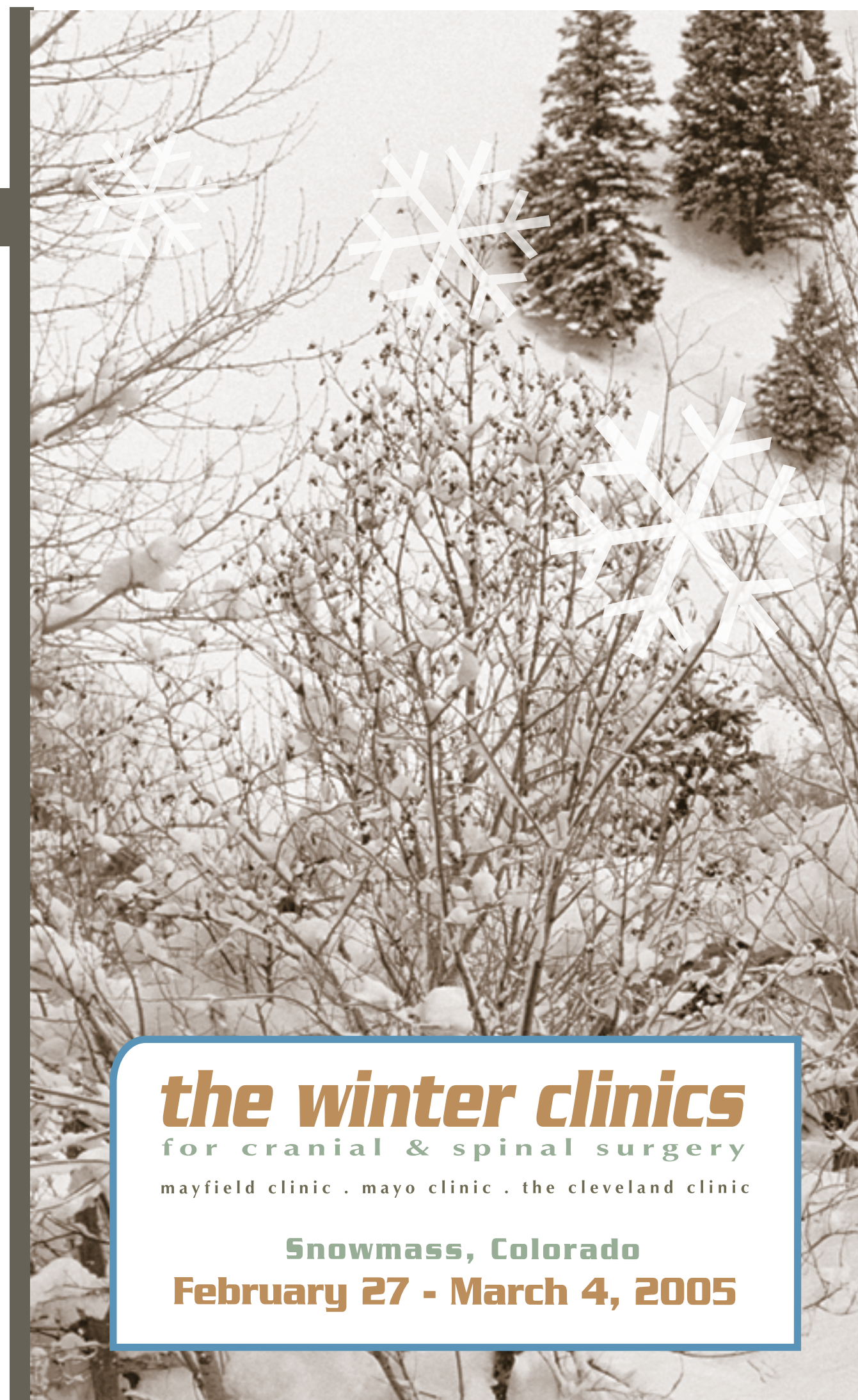
Yale University

New Haven, Connecticut
-Alain C. J. de Lotbiniere, MD

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2005



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for cranial & spinal surgery
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Snowmass, Colorado
February 27 - March 4, 2005