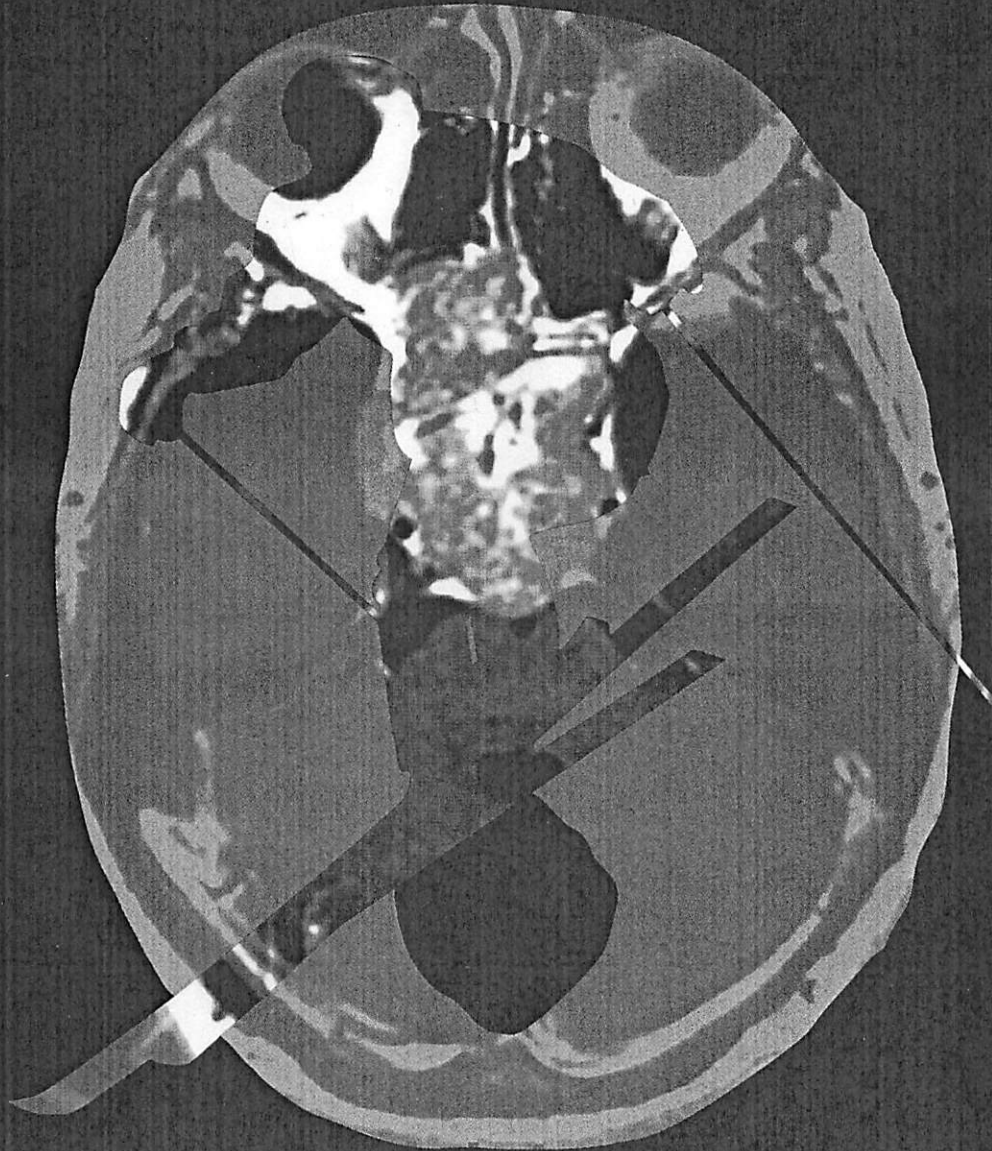


The Cleveland Clinic Foundation
in joint sponsorship with Mayfield Clinic
presents

MAYFIELD CLINIC —
CLEVELAND CLINIC
WINTER NEUROSCIENCE
SYMPOSIUM



Advances in Clinical Neurosurgery 1999

Snowmass Conference Center • Snowmass, Colorado
February 21 - 26, 1999



MAYFIELD CLINIC-
CLEVELAND CLINIC
WINTER
NEUROSCIENCE
SYMPOSIUM

*Advances in
Clinical Neurosurgery 1999*

You're invited to attend one of
neuroscience's most exciting
neurosurgical symposiums.

This year's event,
Advances in Clinical Neurosurgery 1999,
is jointly sponsored by the
Mayfield Clinic and the Cleveland Clinic,
and covers a wide range of topics,
including: lumbar spine, AVMs,
cerebrovascular disease, image-guided
stereotaxic surgery, spinal instrumentation,
skull base surgery, functional neurosurgery
and much more.

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

Thomas S. Berger, MD
Douglas Chyatte, MD
Jeffrey T. Keller, PhD
John M. Tew, Jr., MD
William D. Tobler, MD
Thomas Tomsick, MD
Harry R. van Loveren, MD
Mario Zuccarello, MD

MAYFIELD CLINIC —
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*Advances in
Clinical Neurosurgery 1999
February 21-26*

REGISTRATION FORM

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Name _____

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(Needed for CME credit)

- My check for the tuition fee of \$700, made payable to the Neurosciences Foundation, is enclosed. All foreign payments must be made by a draft on a U.S. bank.

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](mailto:ssuckey@mayfieldclinic.com)

REGISTRATION LIMITED
DEADLINE:
FEBRUARY 7, 1999



(Tear here)

Sunday, February 21	Monday, February 22
	CERVICAL SPINE
7:00 am Arrival/Free time	Posterior Cervical Fixation Iain Kalfas, MD
7:30 am	222 Consecutive Cases on 1, 2 and 3 Level Anterior Cervical Decompressions & Fusions Alfred Kahn, III, MD
8:00 am	Jho Procedure for Cervical Radiculopathy Harry R. van Loveren, MD
8:30 am	Posterior Cervical Discectomy/Foraminotomy in the Sitting Position: Renewed Discussion Mark P. Redding, MD
9:00 am	Adjourn for the morning
9:30 am	
	CEREBROVASCULAR DISEASE
4:00 pm	Role of Stable Xenon CT in CBF Measurement in Management of Stroke Shiro Kashiwagi, MD
4:30 pm	4:20 High Cervical Carotid Endarterectomy Mario Zuccarello, MD
5:00 pm	4:40 Dilemmas in Carotid Artery Surgery Michael Link, MD
5:30 pm	5:00 Management of AVMs Douglas Chyatte, MD
6:00 pm Welcoming Party Snowmass Lodge & Club Club Room	5:20 911 Ischemic Stroke Intervention: Update Thomas Tomsick, MD
6:30 pm	5:40 Consultants Corner: Troy Payner, MD
	Adjourn for the evening

FACULTY

The Cleveland Clinic Foundation
 John Andrefsky, MD Joseph Hahn, MD
 Gene Barnett, MD Iain Kalfas, MD
 Paula Bokesch, MD Joung Lee, MD
 Douglas Chyatte, MD James Evans, MD
 Melvin Whitfield, MD

University of Cincinnati/Mayfield Clinic
 Chris Kager, MD
 Jeffrey T. Keller, PhD
 John M. Tew, Jr., MD
 William Tobler, MD
 Thomas Tomsick, MD
 Harry van Loveren, MD
 Ned Weiner, MD
 Mario Zuccarello, MD

PROGRAM

Tuesday, February 23 IMAGE-GUIDED STEREOTAXIC SURGERY	Wednesday, February 24 SPINAL INSTRUMENTATION	Thu NEU
Cranial Image-Guided Surgery William Tobler, MD	Pitfalls of Anterior Cervical Surgery Stephen M. Papadopoulos, MD	The Ale
Application of Image-Guided Intracranial Surgical Navigation Systems Gene Barnett, MD	How to Avoid Pitfalls of Cage Surgery: An Experience of 200 Cases Melvin Whitfield, MD	Glia at M Will
Cranial Image-Guided Hands-on Session Viewpoint (DePuy-AcroMed) Mayfield ACCISS (OMI) SMN (Zeiss) StealthStation (Sofamor-Danek) OTS (Radionics)	Hands-on Spinal Instrumentation Workshop Chris Kager, MD	Dee Inci Mar
Adjourn for the morning	Adjourn for the morning	Adjo
IMAGE-GUIDED SPINAL SURGERY	SKULL BASE SURGERY	FUN
Image-Guided Spinal Navigation Iain Kalfas, MD	The Clinical Relevance of Anatomic Minutia: Clinoid Segment ICA Jeffrey T. Keller, PhD	Trea Jeffr
Experience with an Image-Guided Optical Tracking Mechanical Arm System William Tobler, MD	Anterior Clinoidectomy: Morphometric Study James Evans, MD	4:20 Deco Mura
Advances in Intraoperative Navigation Stephen M. Papadopoulos, MD	Skull Base Approach to Parasellar and Orbital Apex Lesions Joung Lee, MD and James Evans, MD	4:40 Rob
Image-Guided Spinal Navigation: Hands-On Session	The Expanded Translabyrinthine Approach for Acoustic Neuromas Harry van Loveren, MD	5:00 with John
Adjourn for the evening	Adjourn for the evening	5:20 Adam
Faculty from other facilities Jeffrey A. Brown, MD Medical College of Ohio	Murali Guthikonda, MD Wayne State University	Adam Unive
Michael Chicoine, MD Washington University Medical Center	Allan Hamilton, MD University of Arizona Health Center	Micha Mayo
Edmund Frank, MD Oregon Health Science University	Alfred Kahn, III, MD Cincinnati Orthopedic & Spine Institute	Irene Mayo
	Shiro Kashiwagi, MD Yamaguchi University School of Medicine	Alessa Johns

Thursday, February 25
NEURO-ONCOLOGY

The Gliadel Dose Escalating Study: Update
Alessandro Olivi, MD

Gliadel Wafers: Clinical Experience
at Mayfield Clinic
William Tobler, MD

Deep Venous Thrombosis:
Incidence and Treatment
Mario Zuccarello, MD

Clinical Relevancy of Brain Tumor
Animal Models
Ned Weiner, MD

Adjourn for the morning

FUNCTIONAL NEUROSURGERY

Treatment of Neuropathic Facial Pain
Jeffrey Brown, MD

4:20 Cisternal Anatomy for Microvascular
Decompression of CNS V, VII and IX
Murali Guthikonda, MD

4:40 Treatment of IX Neuralgia
Rob Parrish, MD

5:00 Rational Treatment for Patients
with Facial Pain
John M. Tew, Jr., MD

5:20 Spinal Cord Stimulation
Adam Lewis, MD

5:40 Consultants Corner:
John Tew, MD

Adjourn for the evening

Friday, February 26
SPINE

Spinal Radiosurgery
Alan Hamilton, MD

7:25 Awake Resections for Epilepsy
Fredric Meyer, MD

7:50 Intracerebral Hemorrhage
John Andrefsky, MD

8:15 Reperfusion Injury
Paula Bokesch, MD

8:40 New Strategies in Treatment of
Osteoporotic Compression Fractures
Edmund Frank, MD

9:05 Unruptured Asymptomatic
Aneurysm Trial
Irene Meissner, MD

Adjourn for the morning

OPEN ABSTRACTS

Adjourn/Travel

Adam Lewis, MD
University of Mississippi Medical Center

Michael Link, MD
Mayo Clinic, Florida

Irene Meissner, MD Fredric Meyer, MD
Mayo Clinic, Minnesota

Alessandro Olivi, MD
Johns Hopkins University

Rob Parrish, MD
Baylor College of Medicine

Troy Payner, MD
Indianapolis Neurosurgical Group

Stephen Papadopoulos, MD
University of Michigan Medical Center

Mark Redding, MD
Carolina Neurosurgery & Spine Associates

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

- Describe various approaches to cervical spine pathologies.
- Evaluate decision making issues for carotid endarterectomy.
- Identify neuroradiological techniques including interventional approaches in the diagnosis and treatment of stroke.
- Relate the fundamental concepts related to image-guided stereotaxic surgery for the treatment of intracranial lesions.
- Describe the fundamental concepts related to image-guided stereotaxic surgery for the treatment of intraspinal lesions.
- Assess, through hands-on experience, the major image-guided stereotaxic systems currently available for cranial/spinal surgery.
- Identify common pitfalls (complications and caveats) associated with instrumentation of the cervical and lumbar spine.
- Apply hands-on experience using prominent spinal instrumentation systems currently available on the market.
- Identify a treatment regimen for an antitumor agent for glioblastoma.
- Relate the anatomic and physiologic principles applied to various surgical modalities used to treat patients with facial pain.

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 and Mayfield Clinic. The Cleveland Clinic Educational Foundation is accredited by the Accreditation Council for Continuing Medical Education (ACCME)* to sponsor continuing medical education for physicians.

The Cleveland Clinic Foundation certifies that this continuing medical education offering meets the criteria for 23 hours in Category I of the Physician's Recognition Award of the American Medical Association and the Ohio State Medical Association provided it is used and completed as designed. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

LODGING The Silvertree Hotel, which is adjacent to the Snowmass Conference Center, and The Snowmass Lodge and Club are holding a limited number of rooms. Make reservations by calling 800-598-2004. A minimum of 7 nights stay is required. Reservation deadline is January 19, 1999.

TUITION \$700.00 payable with pre-registration. A \$100 cancellation fee will be charged for withdrawals after February 14, 1999. Written notification is required to process a refund.

QUESTIONS Call Sheila Stuckey, Mayfield Clinic, 800-325-7787, ext. 5251; fax 513-569-5365. United and United Express have joined with Snowmass Conference Center to offer discounts on airfare when lodging is arranged at Snowmass Village January 4, 1999 through December 15, 1999. For information call Snowmass Central Travel, 800-598-2004. For information on ski equipment rental call Snowmass Sports, 800-950-3567. Discounts are available.

*Current guidelines state that participants in CME activities should be made aware of any affiliation or financial interest that may affect the speaker's presentation(s). Each speaker has been requested to complete a conflict of interest statement. The names of faculty members declaring a potential conflict of interest will be shown in the course syllabus.