

REGISTER EARLY! THE FOLLOWING COURSES SOLD OUT LAST YEAR!

Practical Clinics

- 003** Minimally Invasive Treatment of Trigeminal Neuralgia
- 004** 3-D Anatomy and Approaches to the Supratentorial Area and Anterior Skull Base
- 005** Spinal Stabilization, Fusion and Instrumentations: Biomechanics and Techniques
- 013** Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation
- 017** Current Surgical Techniques and Approaches to MIS Spine Surgery

NEW PRACTICAL CLINICS IN 2010!

- 700** International Spine Masters
- 701** International Stereotactic and Functional Masters
- 702** International Neurovascular Masters
- 703** International Endoscopy Masters
- 014** Evaluation and Management of Degenerative Deformity in the Lumbar Spine
- 020** Head and Spine Trauma: Current Treatments and Controversies with Hands-On Practical Session in Brain Monitoring and Techniques
- 025** Interventional Neurovascular Disease: Avoidance and Management Complication
- 029** Developing Philanthropic Opportunities to Support Community Based and Academic Programs
- 031** Neurosurgery 2020: A Bright Future

PRACTICAL CLINICS

8:00 AM–12:00 PM

001

Hands-On Peripheral Nerve of the Upper Extremities

Co-directors:

Allan J. Belzberg, MD
Rajiv Midha, MD, MS, FRCS

Faculty:

John E. McGillicuddy, MD
Robert J. Spinner, MD, FACS
Christopher J. Winfree, MD
Lynda Jun-san Yang, MD, PhD
Eric L. Zager, MD

This hands-on clinic uses cadaver dissection to review clinically relevant anatomy and surgical approaches to the brachial plexus and upper extremity nerves.

Clinic Fee: \$960

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Discuss the anatomy of upper extremity nerves
- ✦ Explain surgical approaches to upper extremity nerves and the brachial plexus

700

International Spine Masters

Director:

Arnold H. Menezes, MD

Risk Factors in Cervical Spinal Cord Injury

Risk Factors for Mortality in Traumatic Cervical Spine Injury

Speaker:

Albert Vincent Berthier Brasil, MD

Controversies in the Management of Chiari Malformation

Controversial Issues in Surgery of Chiari Malformations

Speaker:

Ricardo V. Botelho, MD

MRI and Lumbar Disc Disease

Anatomical and Biomechanical Considerations in the Craniovertebral Junction Approach

Speaker:

Alberto Carlos Capel Cardoso, MD

Basilar Invagination and Controversies

Basilar Invagination

Speaker:

Geraldo de Sa Carneiro Filho, MD

Pediatric Scoliosis – Deformity Correction – When Should We Treat?

Speaker:

Amer F. Samdani, MD

Lumbar Disc Treatment – Anterior vs. Posterior Procedures

Lumbar Degenerative Spondylolysis: Gold Standard Surgery

Speaker:

Osmar J. Santos De Moraes, MD

Cerebrospinal Fluid Flow and Intraoperative Monitoring of CSF Flow in Chiari Malformation

Speaker:

Mario Augusto Taricco, MD

This is a didactic course comprised of lectures, case presentations and discussion concerning a number of spinal issues. The faculty has broad and comprehensive experience with techniques not commonly utilized by North American neurosurgeons, as well as familiarity with new techniques, which can be expected to be performed in North America in the near future.

Clinic Fee: \$450

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Describe the evaluation and management of a number of spinal pathologies including trauma, degenerative disease, and neoplasms
- ✦ List the advantages and disadvantages of spinal surgical techniques

701

International Stereotactic and Functional Masters

Director:

G. Rees Cosgrove, MD, FRCSC

Facial Myofascial Pain Syndrome and Trigeminal Neuralgia

Speaker:

Paulo Thadeu Brainer-Lima, MD, PhD, MSC

Safety and Quality in Functional Neurosurgery: Getting it Right Every Time

Speaker:

Patrick J. Connolly, MD

Cancer Pain: Neurosurgical Procedures in our Days

Speaker:

Jose Oswaldo de Oliveira Jr., MD

Advances in Surgical Treatment of Pain

Speaker:

Manoel Jacobsen Teixeira, MD

Ablative Stereotactic Surgery for the Treatment of Refractory Psychiatric Disorders

Speaker:

Oswaldo Vilela Filho, MD, PhD

Results and Complications of Temporal Lobe Surgery for Epilepsy in Brazilian Research Center

Speaker:

Joao Candido Araujo, MD

In this educational session leading international experts in stereotactic surgery will review the history of this specialty and describe how these methods are used in contemporary practice.

Clinic Fee: \$450

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Describe the difference between framed and frame-less stereotactic methods
- ✦ Explain the strengths and limitations of CT imaging based stereotactic methods

- ✦ Describe the advantages and limitation of MRI based stereotactic methods
- ✦ Discuss how stereotactic atlases are used to provide target information
- ✦ Determine an appropriate entrance site for various target locations

702

NEW

International Neurovascular Masters

Director:

Peter David Le Roux, MD

Multiple Aneurysms

Speaker:

Atos Alves De Sousa, MD

Language and Cognitive Disturbances Following Aneurysmal SAH: The Impact of Treatment

Speaker:

Hildo R. C. Azevedo-Filho, MD

Decision Making on Unruptured Intracranial Aneurysms: Our Best Approach

Speaker:

Valter Da Costa, MD

AVMs – Classification and Indication for Surgery

Speaker:

Evandro Pinto da Luz De Oliveira, MD, PhD

Microsurgical Treatment of Large and Giant Internal Carotid Artery Aneurysms

Speaker:

Shalva Eliava, MD

External Third Ventriculostomy During Microneurosurgical Clipping of Intracranial Aneurysms: An Alternative to Conventional Ventriculostomy

Speaker:

Jorge Luiz Kraemer, MD

Unruptured Intracranial Aneurysms, What's the Best Treatment

Speaker:

Christopher M. Loftus, MD, FACS

Surgery of Paraclinoid Aneurysms

Speaker:

Felix Hendrik Pahl, MD

This is a didactic course comprised of lectures, case presentations and discussion addressing intracranial neurovascular disease. The management and treatment outcomes for vascular malformations, aneurysms, and intracerebral hemorrhage will be reviewed.

Clinic Fee: \$450

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Describe the pathogenesis, natural history, evaluation and medical and surgical management of the entire spectrum of intracranial vascular disease including vascular malformations, aneurysms and intracerebral hemorrhage
- ✦ List the treatment options for each of these pathological conditions and explain the latest treatment concepts

703

NEW

International Endoscopy Masters

Director:

Luiz Carlos de Alencastro, MD

Pure Neuroendoscopic Approach for Intraventricular Tumors in Pediatric Patients

Speaker:

Sergio Cavalheiro, MD

Endoscopic Approaches to Fourth Ventricle Cysticercosis

Speaker:

Americo Rubens Leite dos Santos, MD

Endoscopic Management of Intraventricular Hemorrhage

Speaker:

Luiz Carlos de Alencastro, MD

Endoscopic Removal of Colloid Cysts: A Tailored Approach

Speaker:

Mark M. Souweidane, MD

Endoscopic Treatment of Pituitary Tumors

Speaker:

Philip V. Theodosopoulos, MD

NEW

Basal Encephaloceles: Endoscopic Approach

Speaker:

Samuel Tau Zymberg, MD

This is a didactic course comprised of lectures, case presentations and discussion focused on the use of endoscopic techniques for the management of a variety of neurosurgical lesions. The course will include high quality video examples of endoscopic surgery with emphasis on intraoperative technique.

Clinic Fee: \$450

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Describe the advantages and disadvantages of endoscopy as it relates to neurosurgical procedures
- ★ Explain the advantages and disadvantages of this minimally invasive approach
- ★ List the procedures which can be performed with endoscopy

PRACTICAL CLINICS

8:00 AM–5:00 PM

002

Cranial Endoscopy: State-of-the-Art

Director:

Alan R. Cohen, MD, FACS

Faculty:

Jacques Caemaert, MD, Prof
 Michael R. Gaab, MD, PhD
 J. Andre Grotenhuis, MD, PhD
 Nakamasa Hayashi, MD, PhD
 Carl B. Heilman, MD
 Tenoch Herrada-Pineda, MD
 Christian Matula, MD
 Henry W. S. Schroeder, MD, PhD
 Theodore H. Schwartz, MD
 Laligam N. Sekhar, MD, FACS
 Mark M. Souweidane, MD
 John C. Wellons III, MD

Participants will receive didactic and hands-on instruction in intracranial endoscopy, including indications,

techniques, outcomes and complications. Topics covered will include the management of hydrocephalus (including third ventriculostomy), removal of colloid cysts and other intraventricular tumors, endoscope-assisted microneurosurgery and transsphenoidal procedures.

Clinic Fee: \$1,500

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Identify the indications for intracranial endoscopy
- ★ Evaluate specific techniques available for intracranial endoscopy
- ★ Discuss strategies for avoiding complications in intracranial endoscopy

INTERNATIONAL SYMPOSIA

1:00–5:00 PM

No Fee

This symposium is comprised of lectures and discussion addressing the areas of skull base, spinal and neurovascular surgery and neuro-oncology. The presentations will provide a comprehensive update for each of these subspecialty areas.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Explain the current concepts in terms of evaluation and management of conditions involving the skull base, spine, vasculature and CNS neoplasms

1:00–2:00 PM

Skull Base

Tumors of the Foramen Magnum

Moderator:

Jose Alberto Landeiro, MD

Petroclival Meningiomas: A Management Challenge

Speaker:

Luis Alencar Borba, MD

New Trends in Acoustic Neuroma Surgery: Surgical Strategy and Hearing Function

Speaker:

Eduardo de Arnaldo Silva Vellutini, MD

Craniofacial Approaches to the Malignant Tumors of the Anterior Fossa

Speaker:

Antonio Aversa Dutra do Souto, MD

Transpetrosal Approach for Skull Base Tumors

Speaker:

Jair Raso, MD

Vestibular Schwannomas: Unusual Cases

Speaker:

Roberto Leal Silveira, MD

2:00–3:00 PM

Spine

Moderator:

Arnold H. Menezes, MD

Management of Cervical Spondylotic Myelopathy

Speaker:

Juan O.A. Adorno, MD

Cervical Spinal Cord Injury

Speaker:

Albert Vincent Berthier Brasil, MD

XLIF for Degenerative Scoliosis or ACDF and Arthroplasty

Speaker:

Luiz Henrique de Mattos Pimenta, MD, PhD

Surgical Anatomy of Lumbosacral Plexus

Speaker:

Roberto Martins, MD

Artificial Disc or Not

Speaker:

Miguel Guidicissi Filho, MD

3:00–4:00 PM

Cerebrovascular

Moderator:

Evandro Pinto da Luz De Oliveira, MD, PhD

Carotid Disease

Speaker:

Atos Alves De Sousa, MD

Microvascular Aneurysm Surgery

Speaker:

Evandro Pinto da Luz De Oliveira, MD, PhD

Paraclinoid Aneurysms: A Critical Analysis of Contemporary Management

Speaker:

Jean Goncalves de Oliveira, MD, PhD

4:00–5:00 PM

Neuro-Oncology

Moderator:

Douglas W. Laske, MD

Paraclinoid Aneurysms and Endovascular

Speaker:

Jean Goncalves de Oliveira, MD, PhD

Posterior Fossa Meningiomas: A Systematic Approach

Speaker:

Paulo Henrique Aguiar, MD, PhD

Endoscopic Treatment of Intraparenchymal Lesions

Speaker:

Luiz Carlos de Alencastro, MD

Sulcal Anatomical Landmarks for the Radical Resections of Gliomas

Speaker:

Guilherme C. Ribas, MD

Strategies in Glioblastoma Management

Speaker:

Jose Marcus Rotta, MD

Complex Intracranial Meningiomas

Speaker:

Benedicto Oscar Colli, MD

This symposium is comprised of lectures and discussion addressing the areas of skull base, spinal and neurovascular surgery and neuro-oncology. The presentations will provide a comprehensive update for each of these subspecialty areas.

Learning Objectives:

After completing this educational

activity, participants should be able to:

- ✦ Explain the current concepts in terms of evaluation and management of conditions involving the skull base, spine, vasculature and CNS neoplasms

PRACTICAL CLINICS

1:00–5:00 PM

003

Minimally Invasive Treatment of Trigeminal Neuralgia

Co-directors:

Jeffrey Thomas Keller, PhD

John M. Tew Jr., MD

Faculty:

Khaled M. Aziz, MD, PhD

Steven C. Bailey, MD

Kim J. Burchiel, MD, FACS

Joseph C. T. Chen, MD, PhD

Aaron A. Cohen-Gadol, MD

Andrew W. Grande, MD

Tonya Hines, BA

Glenn Lee Keiper, MD

Robert G. Kerr, MD, PhD

Michael J. Link, MD

George T. Mandybur, MD

Nancy A. McMahon, RN

Chad J. Morgan, MD

Troy D. Payner, MD

Philip V. Theodosopoulos, MD

This course will familiarize participants with the pathophysiology of trigeminal neuralgia and the entire breadth of treatment options, including percutaneous lesions, open surgical management, endoscopic approaches as well as radiosurgical treatment. The relevant anatomy will be extensively reviewed with an emphasis on key surgical points that maximize the effectiveness of treatment both in standard pathologic findings, as well as atypical presentations, recurrences after treatment and lesion related symptoms. A treatment algorithm will be presented and the nuances of treatment decision making will be extensively discussed.

Clinic Fee: \$600

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Discuss the standard techniques for the treatment of trigeminal neuralgia
- ✦ Explain the decision making process regarding which treatment modality is “best” for the patient
- ✦ Discuss the current thoughts regarding the pathophysiology of trigeminal neuralgia
- ✦ Explain the diagnosis of trigeminal neuralgia versus atypical facial pain
- ✦ Discuss the issues related to recurrence of trigeminal neuralgia following treatment, as well as the subsequent treatment of these patients

004

N&PE R,F&MS

3-D Anatomy and Approaches to the Supratentorial Area and Anterior Skull Base

Director:

Albert L. Rhoton Jr., MD

This course will provide three-dimensional microsurgical instruction on routes through the anterior and posterior cerebrum and temporal lobe; anatomy and approaches to the lateral and third ventricles and pineal region; anterior skullbase and cavernous sinus; and transsphenoidal, transmaxillary and transoral approaches.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Describe the routes to and through the anterior and posterior cerebrum and temporal lobe
- ✦ Discuss anatomy and approaches to the lateral and third ventricles and pineal region
- ✦ Discuss anterior and middle skull base including the orbit and cavernous sinus
- ✦ Discuss transsphenoidal, transmaxillary and transoral approaches