

EXHIBIT HOURS

6:30–8:00 PM

PRACTICAL CLINICS

7:00–11:00 AM

006

N&PE

Decision Making and the Spine Patient for Nurses, APRNs and PAs

Co-directors:

Dean Barone, PA-C, MPAS
Twyila Lay, NP, MS

Faculty:

Christopher J. Barry, MD
Steven Casha, MD, PhD
Joseph S. Cheng, MD, MS
Marc E. Eichler, MD
Emily D. Friedman, MD
Marianne E. Langlois, PA-C
Alfred T. Ogden, MD
Nancy Eleanor Villanueva, ANP-C

This course will focus on specific decision making challenges that the nurse, APRN and PA face providing care for spine patients. Topics to be presented include an analysis of radiographic study indication and specifics of study indications; radiographic, as well as clinical evaluation of fusion; various injection types, indications, risks and available evidence; new technology including biologics, cervical disc arthroplasty and dynamic stabilization. Presentation of the implications of new technology to practice and appropriate patient selection for operative intervention will provide opportunity for in-depth discussion.

Clinic Fee: \$570

Learning Objectives:

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

- ★ Discuss problem based decision making and differential diagnosis in regards to the spine patient
- ★ Discuss new technologies available including biologics, cervical disc

arthroplasty and lumbar spinous process

- ★ Analyze radiographic study indications, the specifics of interpretation and the clinical, as well as radiographic evaluation of fusion
- ★ Analyze the various injection types, associated risks and indications, as well as the available evidence on injection efficacy
- ★ Discuss new technology and the implications for practice, as well as decision making for selecting the right surgery for the right patient

007

Deep Brain Stimulation: Update and New Directions

Co-directors:

Robert G. Grossman, MD
Stephen B. Tatter, MD, PhD

Faculty:

Aviva Abosch, MD, PhD
Ron L. Alterman, MD
Jeffrey E. Arle, MD, PhD
Roy A. E. Bakay, MD
Nicholas M. Boulis, MD
Patrick J. Connolly, MD
Brian H. Kopell, MD
Alon Y. Mogilner, MD, PhD
Michael Y. Oh, MD
Joshua M. Rosenow, MD
Ashwini D. Sharan, MD
Philip A. Starr, MD, PhD

Practical aspects of surgery for the treatment of Parkinson's disease, tremor and dystonia will be presented via lectures, videos, case presentations and device demonstrations. Emphasis will be on anatomical and physiological targeting strategies, intraoperative decision making, troubleshooting, complication avoidance and management. Cases and intraoperative scenarios will be presented for interactive discussion with the audience and faculty.

Clinic Fee: \$450

Learning Objectives:

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

- ★ Evaluate patients for surgery for Parkinson's disease, tremor and dystonia
- ★ Apply the principles and techniques of DBS and lesioning surgeries
- ★ Identify anatomical and physiological localization of the STN, Gpi and thalamus
- ★ Discuss emerging indications for DBS such as medically-refractory obsessive compulsive disorder

008

Spinal Radiosurgery

Co-directors:

Mark H. Bilsky, MD
Peter C. Gerszten, MD, MPH

Faculty:

Lilyana Angelov, MD, FRCSC
Steven D. Chang, MD
Jason P. Sheehan, MD, PhD
Kevin C. Yao, MD

Current state-of-the-art techniques in image guided surgery of the spine will be reviewed. Emphasis will be placed on the current indications for and preliminary outcomes after radiosurgical ablation of benign and malignant spinal lesions.

Clinic Fee: \$450

Learning Objectives:

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

- ★ Discuss the most commonly used techniques for spine radiosurgery
- ★ Explain the current indications for and outcomes after spine radiosurgery
- ★ Explain the relative contraindications to spine radiosurgery

009

Transfacet Technology: An Alternative to Pedicle Screw Fixation with Interbody Techniques

Co-directors:

Randy O. Kritzer, MD
Brian R. Subach, MD, FACS

Faculty:

Edward C. Benzel, MD
 Larry T. Khoo, MD
 Kenneth I. Renkens, MD

Both the biomechanical properties and clinical applications of transfacet screw technology will be discussed as it relates to ALIF, TLIF and PLIF procedures. During the hands-on portion, participants will be able to do sawbone trials of all the techniques discussed.

Clinic Fee: \$750

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Identify the biomechanical properties of transfacet screws as compared to pedicle screw constructs
 - ✦ Discuss clinical applications so that surgeons will be aware of indications
 - ✦ Discuss the techniques presented
 - ✦ Apply the techniques into their physician practices

010

Brain Mapping Techniques in Adult and Pediatric Neoplasms and Epilepsy

Co-directors:

Gerald A. Grant, MD
 Guy M. McKhann II, MD

Faculty:

Nicholas M. Barbaro, MD
 Gene H. Barnett, MD, FACS
 Mitchel S. Berger, MD, FACS
 William E. Bingaman Jr., MD
 Peter M. Black, MD, PhD
 Isabelle M. Germano, MD, FACS

This clinic will provide an in-depth review of techniques and technologies that can be applied to identifying and working within eloquent areas of the brain and performing successful resections of neoplasms, epilepsy foci. The selection of surgical approaches based on non-invasive monitoring for surgery of epilepsies and brain tumors will be discussed.

Clinic Fee: \$570

Learning Objectives:

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

- ✦ Identify the technologies currently available for pre- and intra-operative brain mapping for tumors and epilepsy
- ✦ Apply brain mapping techniques to daily practice
- ✦ Recognize complication avoidance in epilepsy and brain mapping techniques

011

Choosing and Developing a Neurosurgical Practice

Co-directors:

Edward Robert Smith, MD
 G. Edward Vates, MD, PhD

Faculty:

H. Hunt Batjer, MD, FACS
 Lawrence S. Chin, MD, FACS
 William T. Couldwell, MD, PhD
 Joseph A. Hlavin, PA-C
 J. Nozipo Maraire, MD
 Gregory J. Zipfel, MD

This course will cover the basics of starting a neurosurgery practice upon finishing a residency. Topics will include office management, billing and coding, medical pitfalls, government regulations and building a practice.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

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

- ✦ Discuss HIPAA and how it applies to their practice
- ✦ Discuss what actions place them at risk for a lawsuit and how to avoid them
- ✦ Explain proper coding for the most common operations
- ✦ Discuss the components of a successful office practice
- ✦ Explain how to evaluate a job opportunity

012

R,F&MS

3-D Anatomy and Approaches to the Posterior Fossa and Posterior Skull Base

Director:

Albert L. Rhoton Jr., MD

This course will provide three-dimensional microsurgical instruction on anatomy and approaches through the temporal bone; cerebellum and fourth ventricle; far lateral and transcondylar approaches; approaches to the cerebellopontine angle; and anatomy and approaches to the jugular foramen.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

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

- ✦ Discuss anatomy and approaches through the temporal bone
- ✦ Discuss approaches to the cerebellum and fourth ventricle
- ✦ Discuss far lateral and transcondylar approaches
- ✦ Discuss approaches to the cerebellopontine angle
- ✦ Discuss anatomy and approaches to the jugular foramen

013

N&PE R,F&MS

Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation

Co-directors:

Line Jacques, MD
 Robert J. Spinner, MD, FACS

Faculty:

Allan H. Friedman, MD, FACS
 Holly S. Gilmer, MD
 Allen H. Maniker, MD
 John E. McGillicuddy, MD

This clinic will provide an overview of the neurosurgeon's approach to patients with peripheral nerve injuries, entrapments and tumors.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

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

- ✦ Discuss indications for, the timing of and types of operative intervention on peripheral nerve injuries
- ✦ Discuss patho-anatomy, clinical presentation and management of common entrapments in the upper and lower limbs
- ✦ Explain the indications for and approaches to operative interventions on different types of benign and malignant peripheral nerve tumors
- ✦ Explain the role of preoperative and intraoperative electrophysiology in the management of patients with these common peripheral nerve lesions

014

NEW

Evaluation and Management of Degenerative Deformity in the Lumbar Spine

Director:

Daniel K. Resnick, MD

Faculty:

Andrew T. Dailey, MD
 Amgad Saddik Hanna, MD
 J. Patrick Johnson, MD
 Praveen V. Mummaneni, MD
 Eric J. Woodard, MD

This is a practical clinic where issues related to the neurosurgical management of scoliosis will be reviewed.

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Explain the basic concepts and techniques that are relevant to the surgical treatment of scoliosis
- ✦ Discuss treatment options for scoliosis

018

Coding, Compliance and Revenue Issues in Spine Coding

Director:

Joseph S. Cheng, MD, MS

Faculty:

Mina Foroohar, MD, FACS
 R. Patrick Jacob, MD, FACS
 Robert R. Johnson II, MD, FACS
 John G. Piper, MD
 Kim Pollock, RN, MBA
 John Kevin Ratliff, MD, FACS
 John A. Wilson, MD, FACS

This course will cover spine surgery CPT codes and case examples from the simple to the very complex. Minimally invasive and innovative spine surgery techniques and how to code new technology will be discussed in detail. Learn how to code accurately for surgical procedures such as cross spinal regions and those where an approach surgeon is used. We will show you how to easily determine which code you would bill even though the code descriptions are often confusing.

Are you using the spine surgery coding five-step methodology to ensure you are capturing all revenue and RVUs due to you? When can you separately bill a spinal dura repair? How about use of the operating microscope? Lumbar drain? Stereotactic navigation or intraoperative fluoroscopy? Intraoperative monitoring?

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Review the CPT and coding changes for 2010
- ✦ Describe how CPT coding affects the neurosurgeon's revenue and compliance with current rules
- ✦ Explain the differences in charges and revenue for a primary surgeon, co-surgeon, or assistant surgeon and what the documentation requirements are

- ✦ Discuss documentation issues in an operative report to support all the codes billed and appeal payor denials

029

NEW

Developing Philanthropic Opportunities to Support Community Based and Academic Program

Co-directors:

Robert F. Heary, MD
 Edie E. Zusman, MD, FACS

Faculty:

Mitchel S. Berger, MD, FACS
 Neil A. Martin, MD
 Ann R. Stroink, MD

With the current economics of health care, leading neurosurgeons from community practices, group practices and academics have recognized the value of philanthropy as the lowest overhead source of needed revenue to fund patient care programs, research and faculty salaries. Experts from around the nation will come together for the first time to show the successful and ethical ways they have raised money to help balance the bottom line for their practices and programs.

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Develop new program revenue sources through philanthropy
- ✦ Describe structuring directed gifts for neurosurgery
- ✦ Identify new opportunities for research funding
- ✦ Discuss strategies for ethical corporate donations
- ✦ Discuss how to motivate individuals to participate as donors

PRACTICAL CLINICS

7:00 AM–4:00 PM

015

Practical and Technical Aspects of Transsphenoidal Surgery

Co-directors:

William T. Couldwell, MD, PhD
Gail L. Rosseau, MD

Faculty:

William F. Chandler, MD, FACS
Matthew G. Ewend, MD, FACS
John A. Jane Jr., MD
Amin Kassam, MD
Daniel F. Kelly, MD
Edward R. Laws Jr., MD
Ian E. McCutcheon, MD
Edward H. Oldfield, MD
Jean Regis, MD
Warren R. Selman, MD

This clinic will review traditional transsphenoidal approaches and present contemporary modifications of the technique, including endoscopic approaches. This clinic will also update the neurosurgeon on current medical and radiosurgical adjuncts to transsphenoidal surgery.

Clinic Fee: \$1,500

Learning Objectives:

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

- ✦ Describe the transsphenoidal approach and contemporary modification
- ✦ Cite the advantages of the endonasal, endoscopic technique
- ✦ Outline current approaches to transsphenoidal surgery
- ✦ Evaluate adjunctive therapies for patients with pituitary tumors

016

Anterior and Lateral Approaches to Skull Base

Co-directors:

Ossama Al-Mefty, MD
Chandranath Sen, MD

Faculty:

Chun Siang Chen, MD
Franco De Monte, MD, FACS
Evandro Pinto da Luz De Oliveira, MD, PhD
Kadir Erkmen, MD
Gerardo Guinto Balanzar, MD
Paulo Abdo Kadri, MD
Wesley A. King, MD
Ali F. Krisht, MD
Sandeep M. Kunwar, MD
Anil Nanda, MD, FACS
Thomas C. Origitano, MD, PhD
Raj K. Shrivastava, MD
Ugur Ture, MD

Skull base approaches will be taught by recognized experts in the field through lectures and hands-on cadaver dissections.

Clinic Fee: \$1,500

Learning Objectives:

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

- ✦ Apply hands on practice of surgical skull base approaches
- ✦ Evaluate advantages/disadvantages of approaches for specific pathologies
- ✦ Discuss minimizing morbidity of tumor resection in the skull base
- ✦ Describe the surgical anatomy of approaches to the skull base

017

Current Surgical Techniques and Approaches to MIS Spine Surgery

Co-directors:

Richard G. Fessler, MD, PhD
Daniel H. Kim, MD, FACS

Faculty:

Sean D. Christie, MD
Kurt M. Eichholz, MD
Anthony K. Frempong-Boadu, MD
Vishal C. Gala, MD, MPH
Robert F. Heary, MD
Robert E. Isaacs, MD
John C. Liu, MD
John E. O'Toole, MD
Alfred T. Ogden, MD
Mick J. Perez-Cruet, MD
Faheem A. Sandhu, MD, PhD

Paul Santiago, MD
Justin S. Smith, MD, PhD
Trent L. Tredway, MD
Jean-Marc Voyadzis, MD

The course is designed to provide residents/fellows and practicing neurosurgeons with the comprehensive exposure to spinal surgical anatomy and techniques by doing side by side comparisons of minimally invasive (MIS) and traditional surgical approaches. For each segment of the spine, the surgical anatomy will be reviewed in detail using cadaveric specimens to help the participant gain insight into both the landmarks for placement of instrumentation, as well as the techniques for complication avoidance.

Clinic Fee: \$1,900

Learning Objectives:

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

- ✦ Discuss the anatomical nuances of all types of approaches and techniques in spinal surgical procedures including instrumentation
- ✦ Describe the anatomy of the cervical, thoracic and lumbar regions
- ✦ Cite the pros and cons of minimally invasive approaches

020

N&PE **NEW**

Head and Spine Trauma: Current Treatments and Controversies with Hands-On Practical Session in Brain Monitoring and Techniques

Co-directors:

Geoffrey T. Manley, MD, PhD
Shelly D. Timmons, MD, PhD

Faculty:

Julian E. Bailes Jr., MD
M. Ross Bullock, MD, PhD
Robert C. Cantu, MD, FACS
William M. Coplin, MD
Anthony Marmarou, PhD
Raj K. Narayan, MD

This clinic emphasizes case studies and covers the significant breadth of the field of neurotrauma and critical care. It

will be directed by a private practice neurosurgeon, with emphasis on practical, as well as complex case management issues. In the afternoon session you will have hands-on instruction in techniques and devices for ICP monitoring, Parenchymal O2 monitoring and decompressive craniectomy.

Clinic Fee: \$570

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Describe the ICU management of the TBI patient
 - ✦ Describe the current surgical controversies in the management of the brain-injured patient
 - ✦ Identify the current concepts in dealing with brain-injured athletes
 - ✦ Discuss management challenges of mild traumatic brain injury and concussion
 - ✦ Recognize the role of the neurosurgeon in a trauma center and trauma systems

PRACTICAL CLINICS

12:00–4:00 PM

005

N&PE R,F&MS

Spinal Stabilization, Fusion and Instrumentations: Biomechanics and Techniques

Co-directors:

Peter Douglas Angevine, MD, MPH
Kaushik Das, MD

Faculty:

Charles L. Branch Jr., MD
Virany H. Hillard, MD
Langston T. Holly, MD
Tyler Robert Koski, MD
Eric W. Nottmeier, MD
Naresh P. Patel, MD
Nicholas Theodore, MD

This course will describe the biological and biomechanical principles of spinal fusion. Through the use of didactic

sessions and hands-on application, it will also describe the indications, operative approaches and surgical techniques used in spinal fusion and instrumentation of the cervical and thoracolumbar spine.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Describe biologic basis and biomechanics of spine fusion
 - ✦ Describe indications of spinal fusion, instrumentation and arthroplasty
 - ✦ Describe operative approaches and surgical techniques for spinal fusion and instrumentation

019

R,F&MS

Update on Malignant Brain Tumors for the General Neurosurgeon

Co-directors:

Andrew T. Parsa, MD, PhD
Michael William Weaver, MD

Faculty:

Manish K. Aghi, MD
Anthony L. Asher, MD, FACS
Richard W. Byrne, MD
Alexandra J. Golby, MD
John G. Golfinos, MD
Amy B. Heimberger, MD
Frederick F. Lang Jr., MD
Linda M. Liau, MD, PhD
Russell R. Lonser, MD
John H. Sampson, MD, PhD

This clinic will provide the practicing clinician with an up-to-date overview of current management strategies for all types of benign and malignant brain tumors. This seminar includes current research topics but emphasizes practical management issues.

Clinic Fee: \$570

Free for Residents, Fellows and Medical Students

Learning Objectives:

After completing this educational

activity, participants should be able to:

- ✦ Identify the state-of-the-art management of benign and malignant brain tumors including glial tumors, meningiomas, acoustic neuromas and skull base tumors
- ✦ Discuss current concepts in glioma management
- ✦ Apply current updates about brain tumors to daily clinical practice decision making

021

Cranial Radiosurgery

Director:

Antonio A. F. De Salles, MD, PhD

Faculty:

Steven D. Chang, MD
William A. Friedman, MD, FACS
Alessandra Augusta Gorgulho, MD
Michael J. Link, MD
Ajay Niranjana, MD

This clinic will illustrate various radiosurgery methods currently available.

Clinic Fee: \$450

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Explain basic aspects of radiosurgery planning
 - ✦ Discuss radiosurgery applications for brain and spinal tumors and AVMs
 - ✦ Discuss indications of radiosurgery for functional disease of the brain
 - ✦ Explain differences among the various radiosurgery techniques available
 - ✦ Apply a radiosurgery plan

022

Cranio-Cervical: Stabilization Techniques, Surgical Approaches and Indications

Director:

Arnold H. Menezes, MD

Faculty:

Richard C. E. Anderson, MD

Marc E. Eichler, MD
 Michael G. Fehlings, MD, PhD
 Noel I. Perin, MD, FRCS
 Rick C. Sasso, MD
 Paul D. Sawin, MD
 Vincent C. Traynelis, MD

This clinic will include the evaluation of craniocervical anatomy and pathology. Formulation of a treatment for disorders and construction of physiological modes of therapy will be reviewed. The didactic program will be followed by hands-on demonstration.

Clinic Fee: \$660

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Formulate craniovertebral junction surgical approaches
 - ✦ Classify and differentiate craniocervical lesions
 - ✦ Identify and treat fusions

023 R,F&MS

Thoracic and Lumbar Stabilization and Fusion: Indications and Complications

Co-directors:
 Regis W. Haid Jr., MD
 Christopher I. Shaffrey, MD

Faculty:
 Paul M. Arnold, MD, FACS
 Sumon Bhattacharjee, MD
 Dean Chou, MD
 Harel Deutsch, MD
 R. Patrick Jacob, MD, FACS
 Adam S. Kanter, MD
 Charles Kuntz IV, MD
 Frank La Marca, MD
 Paul Park, MD
 Mark Andrew Pichelmann, MD
 Laurence D. Rhines, MD
 James C. Robinson, MD
 Gregory R. Trost, MD
 Michael Y. Wang, MD

A series of didactic lectures and hands-on in thoracic and lumbar fusion techniques and technology. Discussion will include treatment of degenerative disease and spinal deformity in the

thoracolumbar spine. The impact of implant design, technique selection (including minimally invasive approaches) and biological agents will be discussed.

Clinic Fee: \$450
Free for Residents, Fellows and Medical Students

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Review patient selection for thoracic and lumbar fusion
 - ✦ Discuss translational and rotational techniques for correction of thoracolumbar deformity
 - ✦ Review open and minimally invasive approaches for lumbar interbody fusion (ALIF, TLIF, PLIF)
 - ✦ Discuss common complications and management associated with thoracic and lumbar fusion

024 R,F&MS

Microsurgical Management of Intracranial Aneurysms: Site Specific Surgical Anatomy, Operation Intervention and Complication Management

Director:
 Arthur L. Day, MD, FACS

Faculty:
 Daniel Louis Barrow, MD
 H. Hunt Batjer, MD, FACS
 Ralph G. Dacey Jr., MD

This clinic is designed to teach attendees the basics of vertebrobasilar, internal carotid, middle cerebral and anterior cerebral artery aneurysms.

Clinic Fee: \$450
Free for Residents, Fellows and Medical Students

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Recognize the special features of aneurysms at specific sites
 - ✦ Recognize potential pitfalls for safe lesion treatment
 - ✦ Identify new methods of intervention for cerebral aneurysms

025 R,F&MS NEW

Interventional Neurovascular Disease: Avoidance and Management Complication

Co-directors:
 Brian L. Hoh, MD
 Charles Joseph Prestigiacomo, MD, FACS

Faculty:
 Felipe C. Albuquerque, MD
 Rocco A. Armonda, MD
 Bernard R. Bendok, MD
 C. Michael Cawley, MD, FACS
 Peng Roc Chen, MD
 B. Gregory Thompson Jr., MD

A comprehensive discussion of complications and complication avoidance in the endovascular management of cerebral aneurysms, AVMs/AVFs, spinal AVMs, tumor and special problems associated and encountered with treatment in the endovascular site. Hands-on clinic with simulators to follow brief discussions of complication avoidance strategies.

Clinic Fee: \$450
Free for Residents, Fellows and Medical Students

- Learning Objectives:*
 After completing this educational activity, participants should be able to:
- ✦ Evaluate and apply strategies when endovascular complications occur
 - ✦ Discuss the treatment of intracranial aneurysms, AVMs, occlusive cerebrovascular disease and tumors
 - ✦ Apply these procedures to avoid complications and effectively manage the complications
 - ✦ Identify problems which are peculiar to treatments in the endovascular suite

026

Dynamic Treatments of Degenerative Lumbar Disc Disease

Co-directors:
 Andrew T. Dailey, MD
 Russ P. Nockels, MD

Faculty:

Domagoj Coric, MD
 Martin D. Herman, MD, PhD
 Najeeb M. Thomas, MD
 William C. Welch, MD, FACS

A series of didactic lectures and hands-on instructions will illustrate the state-of-the-art in lumbar interbody fusion techniques and technology. The impact of implant design and biological agents on interbody outcomes will be discussed.

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Compare the various surgical approaches used for lumbar dynamic stabilization
- ✦ Evaluate lumbar dynamic devices and assess the value of emerging technology
- ✦ Discuss the role of dynamic posterior stabilization in conjunction with lumbar fusion
- ✦ Assess the role of outcome measures in future design of spinal implants

027

Negotiating with Hospitals: Challenging the Experts

Director:

E. Hunter Dyer, MD

Faculty:

Kim J. Burchiel, MD, FACS
 M. Sean Grady, MD
 Gregory B. Lanford, MD

Providing optimal patient care requires neurosurgeons to be available and accessible within the current health care environment. This course will provide case studies of both success and failure from neurosurgeons that negotiated with hospitals. Building on the didactic information presented in previous years, the course will allow participants to gain important insight into how and why strategies succeeded or failed for these experienced neurosurgeons. Each case study evaluates approaches to ensure a neurosurgical career

satisfaction, financial stability, expansion of practice opportunities and availability for patient care. Special attention is paid to the interwoven financial relationships between hospitals and neurosurgeons and how best to leverage a neurosurgeon's value to his/her hospital in negotiating resources. All course participants will be requested to submit their own hospital negotiation case studies for didactic discussion during the second part of the highly interactive and results oriented portion of the course.

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Assess the direct and indirect financial contribution neurosurgeons make to a hospital and explain administrative "financial-speak" essential to successful negotiations
- ✦ Define alternative revenue sources for neurosurgeons in your hospital and community
- ✦ Determine practical approaches for solving current dilemmas in neurosurgeon-hospital relationships

028

N&PE R,F&MS

Neurotrauma Critical Care Review and Update for the Practicing Neurosurgeon

Co-directors:

Craig H. Rabb, MD, FACS
 Patricia B. Raksins, MD

Faculty:

Ahmed E. Badr, MD
 Perry A. Ball, MD, FACS
 Kathryn Marie Beauchamp, MD
 Kevin J. Gibbons, MD, FACS
 David O. Okonkwo, MD, PhD
 Roland A. Torres, MD
 Philip Andrew Villanueva, MD

This course is designed for the practicing neurosurgeon, to provide a refresher and update on critical care of the neurosurgical trauma patient in the ICU. The primary focus of this course

in the area of non-neuro critical care, including ventilator management, fluids, nutrition, infectious disease, sedation issues, and DVT prevention.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

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

- ✦ Describe contemporary ventilator management, lung-protective strategies, and prone ventilation
- ✦ Discuss types of nutrition and impact of timing of nutrition in the head-injured patient
- ✦ Describe types and methods of fluid resuscitation and management in the trauma patient with head injury
- ✦ Describe contemporary diagnosis and management; a broad spectrum of medical issues, including infectious disease, endocrine problems, renal function and "never" events

031

R,F&MS NEW

Neurosurgery 2020: A Bright Future

Director:

Deborah L. Benzil, MD

Faculty:

John D. Davis IV, MD
 Thomas L. Francavilla, MD
 Kathryn Ko, MD
 Ravi Kumar
 Darlene A. Lobel, MD
 Karin M. Muraszko, MD
 Daniel M. Sciubba, MD
 Gary Robert Simonds, MD
 Randall W. Smith, MD
 Shelly D. Timmons, MD, PhD
 Craig Andrew Van Der Veer, MD
 Graeme Woodworth, MD

This half day course will provide exposure for medical students to the breadth and depth of neurosurgical clinical practice and neurosurgical research including the opportunity for hands-on experience with innovative neurosurgical tools such as computer-assisted surgery, artificial disc

replacement, endoscopy, and endovascular applications. Real clinical scenarios will also be presented to gain understanding of how neurosurgery makes a difference for our patients. In addition, the course will detail the spectrum that represents “A Neurosurgeon’s Life” and how this allows synergy with a wide spectrum of lifestyle choices.

Clinic Fee: \$450

Free for Residents, Fellows and Medical Students

Learning Objectives:

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

- ✦ Explain the depth and breadth of current and future neurosurgical practice
- ✦ Discuss the synergy between neurosurgery practice and a spectrum of lifestyle choices
- ✦ Explain the significant value of neurosurgical research
- ✦ Realize the opportunities for continued exposure to and participation in neuroscience activities, neurosurgery research, and neurosurgical clinical practice

032

Coding, Compliance and Revenue Issues in Cranial, Non-Spine and E&M Coding

Director:

Joseph S. Cheng, MD, MS

Faculty:

Mina Foroohar, MD, FACS

R. Patrick Jacob, MD, FACS

Robert R. Johnson II, MD, FACS

Alexander M. Mason, MD

John G. Piper, MD

Kim Pollock, RN, MBA

John Kevin Ratliff, MD, FACS

This course will cover the most common aspects of cranial procedure coding such as brain tumor, acoustic neuroma, aneurysm, skull base tumors, traumatic brain injuries including hematomas and decompressive

procedures and skull base surgery.

Learn how to code for innovative cranial procedures such as endoscopic skull base surgery.

The new stereotactic radiosurgery codes allow separate billing for the head frame and easy billing for treating more than one lesion - are you using the codes correctly to capture all revenue?

When can you separately bill a cranioplasty? How about use of the operating microscope? Ventricular catheter? Stereotactic navigation? Intraoperative monitoring? Intraoperative angiography?

Ventriculoperitoneal shunt coding got you confused? We will show you a simple way to keep it all straight.

The RAC and CERT audits are here - will you pass? We will help you understand the elements of E&M coding and when it is appropriate to bill for a “preop visit”.

Clinic Fee: \$450

Learning Objectives:

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

- ✦ Review the CPT and coding changes for 2010
- ✦ Describe how CPT coding affects the neurosurgeon’s revenue and compliance with current rules
- ✦ Explain the differences in charges and revenue for a primary surgeon, co-surgeon, or assistant surgeon and what the documentation requirements are
- ✦ Discuss documentation issues in an operative report to support all the codes billed and appeal payor denials.

AANS OPENING RECEPTION

6:30–8:00 PM

Exhibit Halls A and B, Pennsylvania Convention Center

Be sure to make plans to attend the social event of the week, the Opening Reception! With the Opening Reception being held in the Exhibit Hall, you will be able to socialize with friends and colleagues, as well as meet with AANS exhibiting companies to learn more about products and services they offer.

You will be led on a journey back to the American Revolution era, feasting on popular food items of the time. Who knows, you may even run into Ben Franklin or Betsy Ross.

Don’t miss the opportunity to hear some of our own. NJQ “Neurosurgical Jazz Quintet” featuring Donald O. Quest, MD, Fames E. Rose, MD, Theodore H. Schwartz, MD, R. Michael Scott, MD and Phillip R. Weinstein, MD, will again entertain us during the party.

One ticket to the Opening Reception is included with each medical attendee and spouse/guest registration. A special area will be available for children.

Motor coaches will shuttle between the Pennsylvania Convention Center and the Crowne Plaza Philadelphia Downtown, Doubletree Hotel Philadelphia, Embassy Suites Philadelphia Center City, Four Seasons Hotel Philadelphia and Ritz Carlton between 6:15 – 8:15 PM. All other hotels are within walking distance of the Convention Center.