Advanced Practice Provider Hands-on Workshop: Neurosurgery Brain and Spine Concepts (limited registration)

Program Schedule

11:30 a.m.  Registration and Lite Lunch
Noon        Welcome and Course Overview
             JoDee A. Winter, P.A.-C.  MSPAS
12:10 p.m.  The Growing Role of NP/PAs in Neurosurgical Care
             Bernard R. Bendok, M.D.
12:20        Door to Decision
             JoDee A. Winter, P.A.-C.  MSPAS
12:30        Intensive Care Unit Management
             Marjorie (Margie) E. Amity, M.S.N., ANP/ACNP-BC
12:40        External Ventricular Drain (EVD) Management and Care
             Alexandra (Lexy) Richards, D.N.P.
12:50        Cerebrospinal Fluid Leaks, Shunts and Studies
             Orland K. Boucher, P.A.-C.
1:00         Move to Workshop
1:10         Hands-on Workshop (30 minutes per station and total of 5 minutes for rotation between stations)
1.  External Ventricular Drain (EVD) Insertion
    Pelagia E. Kouloumberis, M.D.
2.  Lumbar Puncture
    Naresh Patel, M.D.
3.  Shunt Programming
    Orland K. Boucher, P.A.-C.
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<th>Time</th>
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<tr>
<td>2:50 p.m.</td>
<td>Return to General Session</td>
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<tr>
<td>2:55</td>
<td><strong>Spinal Anatomy and Pathology</strong></td>
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<tr>
<td></td>
<td>Jamal McClendon, Jr., M.D.</td>
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<td>3:05</td>
<td><strong>Spinal Instrumentation</strong></td>
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<td>Matthew T. Neal, M.D.</td>
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<td>3:15</td>
<td><strong>Pain Management</strong></td>
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<td>Joseph B. Farnsworth, P.A.-C., MMSPAS</td>
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<td>3:25</td>
<td><strong>Move to Workshop</strong></td>
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<tr>
<td>3:30</td>
<td><strong>Hands-on Workshop</strong> (30 minutes per station and total of 5 minutes for rotation between stations)**</td>
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<tr>
<td>3:30</td>
<td>1. <strong>Facet and Trigger Point Injections; Occipital Nerve; and Carpal Tunnel Blocks</strong></td>
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<td></td>
<td>Chandan Krishna, M.D.</td>
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<td>3:30</td>
<td>2. <strong>Temporal Artery and Muscle Biopsies</strong></td>
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<td></td>
<td>JoDee A. Winter, P.A.-C. MSPAS</td>
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<td>3:30</td>
<td>3. <strong>Suturing</strong></td>
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<td>Devi P. Patra, M.B.B.S</td>
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<td>5:05</td>
<td><strong>Move to General Session</strong></td>
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<tr>
<td>5:10</td>
<td><strong>Cranial Anatomy/Pathology</strong></td>
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<td>Richard S. Zimmerman, M.D.</td>
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<td>5:20</td>
<td><strong>Endovascular Anatomy, Pathology and Interventions</strong></td>
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<td>Chandan Krishna, M.D.</td>
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<td>5:30</td>
<td><strong>Course Achievements</strong></td>
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<td>JoDee A. Winter, P.A.-C. MSPAS</td>
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<tr>
<td>5:35</td>
<td><strong>Adjournment</strong></td>
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**Advances and Innovations in Complex Neuroscience Patient Care: Brain and Spine Course**

6:00 - 7:30 p.m. **Course Welcome Reception and Early Registration**
Thursday, March 7, 2019

Advances and Innovations in Complex Neuroscience Patient Care: Brain and Spine Program Schedule

6:15 a.m. Registration
Continental Breakfast and Exhibits

7:00 Welcome and Daily Course Overview
Bernard R. Bendok, M.D.

Session 1: Peripheral Nerve Tumors

Moderator: Pelagia E. Kouloumeris, M.D.

7:15 a.m. Medical Work-up of Patient with Peripheral Nerve Pathologies
Alejandro Zavala, M.D.

7:25 Peripheral Nerve Tumors: Diagnosis and Workup
Robert J. Spinner, M.D.

7:35 The Art of Case Selection Peripheral Nerve Surgery: When to Operate and When to Observe
Pelagia E. Kouloumeris, M.D.

7:45 Technical Nuances of Peripheral Nerve Surgery
Shelley S. Noland, M.D.

7:55 Case Based Panel Discussion
Session Faculty and Naji Riachi, M.D.

Session 2: Minimally Invasive Spine Interventions and Sports Neurosurgery Management

Moderators: Chandan Krishna, M.D. and Matthew T. Neal, M.D.

8:15 a.m. Role of Physiatrist in Sports Spine
Arthur J. De Luigi, D.O., M.H.A.

8:25 Innovations and Endoscopy in MIS Surgery
Matthew T. Neal, M.D.

8:35 Minimally Invasive Cervical Spine Surgery and Arthroplasty
Jamal McClendon, Jr., M.D.
Thursday, March 7, 2019 (continued)

8:45 a.m. Anterior Approaches to Lumbar Spine
Pelagia E. Kouloumeris, M.D.

8:55 Minimally Invasive Lumbar Spine Surgery
Chandan Krishna, M.D.

9:05 Behavioral Chronic Pain Management
Cynthia O. Townsend, Ph.D., L.P.

9:15 Session Case Based Panel Discussion
Session Faculty

9:35 Refreshment Break and Exhibits

Session 3: Scoliosis and Spinal Deformity

Moderator: Jamal McClendon, Jr., M.D.

10:05 a.m. Cervical Fixation in Pediatric Deformity
Jamal McClendon, Jr., M.D.

10:15 Pediatric Scoliosis: Selective Fusion for Congenital Scoliosis
Judson W. Karlen, M.D.

10:25 Revision of Adolescent Idiopathic Scoliosis Surgery
Gregory R. White, M.D.

10:35 Skeletal Dysplasia and Thoracolumbar Kyphosis
Mohan V. Belthur, M.D.

10:45 Growing Rod Constructs for Early Onset Scoliosis
Richard L. Shindell, M.D.

10:55 Proximal Fixation Distal Versus Proximal Thoracic Spine in Adult Degenerative Scoliosis
Jeremy L. Fogelson, M.D.

11:05 Fusion of the Junctional Curve Only vs Treatment of Entire Scoliosis for Adult Degenerative Scoliosis
Mark A. Pichelmann, M.D.

11:15 Session Case Based Panel Discussion
Session Faculty

11:45 Break and Exhibits
Thursday, March 7, 2019 (continued)

Session 4: Spine Oncology

**Moderator:** Sujay Vora, M.D.

12:15 p.m.  
**Cord Compression Diagnosis and Differential Diagnosis**  
Marie F. Grill, M.D.

12:25  
**Cord Compression Surgery**  
Maziyar A. Kalani, M.D.

12:35  
**Radiation Cord Compression**  
Sujay Vora, M.D.

12:45  
**Benign Tumors**  
Maziyar A. Kalani, M.D.

12:55  
**Session Case Based Panel Discussion**  
Faculty, Jamal McClendon, Jr., M.D. and Ramiro Del Valle, M.D.

1:15  
**Course Overview and Achievements**

1:30  
**Adjourn**

**DEVICE & TECHNOLOGY SHOWCASE with HANDS-ON SIMULATION**

1:45 p.m.  
**Showcase Starts**

4:45  
**Showcase Ends**

**COURSE DINNER AND SPECIAL PRESENTATION**

5:30 p.m.  
**Reception**

6:30  
**Dinner and Special Presentation:**  
**Art of Innovation**  
Nick Hopkins, M.D.
Friday, March 8, 2019

6:30 a.m.   Continental Breakfast and Exhibits

7:00   Daily Course Overview
       Bernard R. Bendok, M.D.

Session 5: Aneurysms: Treating Intracranial Aneurysms

Moderator: Bernard R. Bendok, M.D.

7:10 a.m.   Brain Aneurysm Overview: Diagnosis, Natural History and Screening
            Chandan Krishna, M.D.

7:20   Subarachnoid Hemorrhage Management
       Ayan Sen, M.D.

7:30   Management of Challenging Aneurysms
       Bernard R. Bendok, M.D.

7:40   Session Case Based Panel Discussion
       Session Faculty and Alejandro Zavala, M.D.

Session 6: Arteriovenous Malformations (AVM)

Moderator: Chandan Krishna, M.D.

8:00 a.m.   Intracerebral Hemorrhage (ICH) Initial Triage and Reversal Strategies
            Ayan Sen, M.D.

8:10   Minimally ICH Evacuations
       Devi P. Patra, M.B.B.S.

8:20   Management of Dural AV Fistulas
       Chandan Krishna, M.D.

8:30   Brain AVM Management
       Bernard R. Bendok, M.D.

8:40   Session Case Based Panel Discussion
       Session Faculty, Nick Hopkins, M.D. and Ramiro Del Valle, M.D.

9:00   Refreshment Break and Exhibits
Session 7: Acute Ischemic Stroke

**Moderator:** Bart M. Demaerschalk, M.D.

9:30 a.m. *Advances and Innovations in the Management of Neurovascular Diseases and Stroke*  
Nick Hopkins, M.D.

9:45 *Acute Stroke Triage and Telehealth*  
Bart M. Demaerschalk, M.D.

9:55 *IV TPA*  
Kara A. Sands, M.D.

10:05 *Stroke Thrombectomy*  
Chandan Krishna, M.D.

10:15 *Moyamoya Disease*  
Devi P. Patra, M.B.B.S.

10:25 *Session Case Based Panel Discussion*  
Session Faculty

10:45 *Refreshment Break and Exhibits*

Session 8: Epilepsy

**Moderator:** Joseph I. Sirven, M.D.

11:15 a.m. *Epilepsy Surgery: Neurology Perspective*  
Katherine H. Noe, M.D., Ph.D.

11:30 *New Technology in Epilepsy Management*  
Joseph I. Sirven, M.D.

11:45 *Unique Cases Epilepsy*  
Naji Riachi, M.D.

11:50 *Challenging Cases in Epilepsy*  
Alejandro Zavala, M.D.

12:15 p.m. *Epilepsy Surgery: Adult Perspective*  
Richard S. Zimmerman, M.D.

12:30 *Session Case Based Panel Discussion*  
Session Faculty

12:55 *Wrap-up, Achievements and Adjournment*  
Bernard R. Bendok, M.D.
DEVICE & TECHNOLOGY SHOWCASE with HANDS-ON SIMULATION

1:15 p.m.  Showcase Starts

4:15  Showcase Ends
Saturday, March 9, 2019

6:30 a.m. Continental Breakfast and Exhibits

7:00 Daily Course Overview
Bernard R. Bendok, M.D.

Session 9: Pituitary Tumors

Moderator: Bernard R. Bendok, M.D.

7:10 a.m. Pituitary Tumors Endocrinology Medical Work-up
Michael D. Whitaker, M.D.

7:20 Pituitary Tumor: Ophthalmology
Marie D. Acierno, M.D.

7:30 Advances in Endoscopic Skull Surgery
Michael J. Marino, M.D.

7:40 Surgery for Pituitary Tumors
Bernard R. Bendok, M.D.

7:50 Neurofibromatosis Type 2 (NF2) Genetics
Radhika Dhamija, M.B.B.S.

8:00 Acoustic Neuromas Otology Perspective
Peter A. Weisskopf, M.D.

8:10 Acoustic Neuromas Surgery
Bernard R. Bendok, M.D.

8:20 Radiosurgery for Acoustic Neuroma
Ramiro Del Valle, M.D.

8:30 Proton Beam for Skull Base Tumors
Sameer R. Keole, M.D.

8:40 Session Case Based Panel Discussion
Session Faculty and Maciej M. Mrugala, M.D., Ph.D.

9:00 Refreshment Break and Exhibits

Session 10: Brain Gliomas

Moderator: Maciej M. Mrugala, M.D., Ph.D.

9:20 a.m. Advances in Glioma Imaging
Leland S. Hu, M.D.
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<th>Presenter</th>
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<tr>
<td>9:30 a.m.</td>
<td><strong>Innovations in the Medical Management of Gliomas</strong></td>
<td>Maciej M. Mrugala, M.D., Ph.D.</td>
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<td>9:40</td>
<td><strong>Awake Surgery for Glioma</strong></td>
<td>Bernard R. Bendok, M.D.</td>
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<td>9:50</td>
<td><strong>Radiotherapy and Proton Beam for Gliomas</strong></td>
<td>Jonathan B. Ashman, M.D., Ph.D.</td>
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<td>10:00</td>
<td><strong>The Future of Glioma Therapy</strong></td>
<td>Kaisorn Chaichana, M.D.</td>
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<td>10:10</td>
<td><strong>Scientific Advances in Gliomas</strong></td>
<td>Kristin R. Swanson, Ph.D.</td>
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<td>10:20</td>
<td><strong>Session Case Based Panel Discussion</strong></td>
<td>Session Faculty and Ramiro Del Valle, M.D.</td>
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**Session 11: Brain Metastases**

**Moderator:** Alyx B. Porter, M.D.

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<tr>
<td>10:40 a.m.</td>
<td><strong>Brain Metastases Medical Management</strong></td>
<td>Alyx B. Porter, M.D.</td>
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<tr>
<td>10:55</td>
<td><strong>Radiosurgery for Brain Metastases: Indications</strong></td>
<td>Naresh Patel, M.D.</td>
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<tr>
<td>11:10</td>
<td><strong>Brain Metastases Radiosurgery Techniques and Advances</strong></td>
<td>Jonathan B. Ashman, M.D., Ph.D.</td>
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<tr>
<td>11:25</td>
<td><strong>Brain Metastases Laser Ablation</strong></td>
<td>Richard S. Zimmerman, M.D.</td>
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<td>11:40</td>
<td><strong>Brain Metastases Microsurgery</strong></td>
<td>Chandan Krishna, M.D.</td>
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<td>11:55</td>
<td><strong>Leptomeningeal Disease</strong></td>
<td>Maciej M. Mrugala, M.D., Ph.D.</td>
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<td>12:10 p.m.</td>
<td><strong>Session Case Based Panel Discussion</strong></td>
<td>Session Faculty and Alejandro Zavala, M.D.</td>
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<td>12:40</td>
<td><strong>Objectives Reviews, Closing Comments and Reflection</strong></td>
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<td>1:20</td>
<td><strong>Course Adjourns</strong></td>
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