### Thursday, April 4, 2024

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m.</td>
<td>Registration, Continental Breakfast, and Exhibits</td>
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<tr>
<td>8:00 a.m.</td>
<td><strong>Welcome and Introductions</strong>&lt;br&gt;Bernard R. Bendok, M.D.</td>
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<td>8:05 a.m.</td>
<td><strong>Course Overview, Daily Goals, and Objectives</strong>&lt;br&gt;Bernard R. Bendok, M.D.</td>
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<td><strong>SESSION I:</strong> Artificial Intelligence in Neurosurgery and Neurology</td>
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<td><strong>MODERATOR(S):</strong> Ramiro Del Valle, M.D.; Alejandro Zavala, M.D.; Chandan Krishna, M.D.; Frederic B. Meyer, M.D.; and Bernard R. Bendok, M.D.</td>
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<td>8:15 a.m.</td>
<td><strong>Artificial Intelligence in Medicine</strong>&lt;br&gt;Bhavik N. Patel, M.D., M.B.A.</td>
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<td>8:30 a.m.</td>
<td><strong>Artificial Intelligence for the Diagnosis and Management of Aneurysms</strong>&lt;br&gt;Bernard R. Bendok, M.D.</td>
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<td>8:45 a.m.</td>
<td><strong>Artificial Intelligence Applications in Neurosurgery</strong>&lt;br&gt;Devi P. Patra, M.B.B.S.</td>
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<td>9:00 a.m.</td>
<td><strong>Artificial Intelligence Round Table Panel Discussion</strong>&lt;br&gt;Speakers and Moderators</td>
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<td><strong>SESSION II:</strong> Spine and Peripheral Nerve Oncology</td>
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<td><strong>MODERATOR(S):</strong> Shannon P. Fortin Ensign, M.D., Ph.D. and Shelley S. Noland, M.D.</td>
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<td>9:20 a.m.</td>
<td><strong>Spine Oncology Recent Surgical Innovations</strong>&lt;br&gt;Maziyar A. Kalani, M.D.</td>
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Thursday, April 4, 2024 (continued)

9:35 a.m.  Peripheral Nerve Tumors  
Robert J. Spinner, M.D.

9:45 a.m.  Radiotherapy and Proton Beam for Spine and  
Peripheral Nerve Oncology  
Sujay A. Vora, M.D.

10:00 a.m.  Round Table Panel Discussion  
Speakers and Moderators

10:20 a.m.  Refreshment Break and Exhibits

SESSION III:  Innovations in Spine Care Management

MODERATOR(S):  Naresh P. Patel, M.D. and  
Arthur J. De Luigi, D.O., M.H.A.

10:35 a.m.  Innovations in Neuromonitoring in Spinal Surgery  
Jaime Lopez, M.D.

10:45 a.m.  Pediatric and Adult Deformity  
Jamal McClendon Jr., M.D.

10:55 a.m.  Robotics in Spine Surgery  
Chandan Krishna, M.D.

11:05 a.m.  Advances in Neuromodulation for Back Pain  
Naresh P. Patel, M.D.

11:15 a.m.  Innovations in Pain Management  
Christopher S. Wie, M.D.

11:25 a.m.  Case-Based Panel Discussion and Q&A  
Speakers and Moderators

11:55 a.m.  Spine Hands-On Workshop #1 | Spine Hands-On Workshop #2  
Bernard R. Bendok, M.D., Chandan Krishna, M.D., Jamal McClendon Jr., M.D., Maziyar A. Kalani, M.D.; Nora J. Schaefer, R.N., CNRN

12:55 p.m.  Lunch and Exhibits (Product Theater)
Thursday, April 4, 2024 (continued)

1:55 p.m.  APP Session Opening Remarks
            JoDee A. Winter, P.A.-C.

2:00 p.m.  Examination of Neck and Shoulder Complaints
            Susan M. Lemens, P.A.-C.

2:20 p.m.  Epilepsy Surgery
            Taylor A. Phelps, P.A.-C.

2:40 p.m.  TBD
            Lexi Adamski, P.A.-C.

3:00 p.m.  Shunts
            JoDee A. Winter, P.A.-C.

3:20 p.m.  Trigeminal Neuralgia Diagnosis and Treatment Options
            Maggie A. Weeks, P.A.-C., M.S.

3:40 p.m.  APP Hands-On Stations:
            Lexi Adamski, P.A.-C.; Miles A. Hudson, M.D.; Susan M. Lemens, P.A.-C.;
            Devi P. Patra, M.B.B.S.; Taylor A. Phelps, P.A.-C.; Nora J. Schaefer, R.N.,
            CNRN; Maggie A. Weeks, P.A.-C., M.S.; JoDee A. Winter, P.A.-C.

            1)  Headframe Application
            2)  Cranial Plating
            3)  Virtual Reality Walkthrough

5:00 p.m.  Adjourn
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<td>8:00 a.m.</td>
<td>Daily Overview of Goals and Objectives</td>
<td>Bernard R. Bendok, M.D.</td>
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<td><strong>SESSION IV:</strong></td>
<td>Innovations in Neurophysiological Monitoring and Epilepsy Surgery</td>
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<td>MODERATOR(S):</td>
<td>Joseph I. Sirven, M.D.; Richard S. Zimmerman, M.D.; Jaime Lopez, M.D.; and Alejandro Zavala, M.D.</td>
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<td>8:15 a.m.</td>
<td>Technological Advancements in Epilepsy Neuromodulation: Focal, Regional, &amp; Global Approaches</td>
<td>Jonathon J. Parker, M.D., Ph.D.</td>
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<td>8:30 a.m.</td>
<td>Intersections of Neurophysiology and Neurosurgery</td>
<td>Joseph I. Sirven, M.D.</td>
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<tr>
<td>8:45 a.m.</td>
<td>Innovations in Neurophysiological Monitoring for Neurosurgery</td>
<td>Jaime Lopez, M.D.</td>
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<td>9:00 a.m.</td>
<td>Round Table Panel Discussion</td>
<td>Speakers and Moderators</td>
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<td><strong>SESSION V:</strong></td>
<td>Neurovascular: Acute Stroke Intervention</td>
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<td>MODERATOR(S):</td>
<td>Fredric B. Meyer, M.D. and Ayan Sen, M.D.</td>
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<td>9:15 a.m.</td>
<td>Telehealth in Stroke Management</td>
<td>Bart Demaersschalk, M.D.</td>
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<td>9:30 a.m.</td>
<td>The Impact of Dr. Thor Sundt on Neurosurgery and Vascular Neurosurgery</td>
<td>Frederic B. Meyer, M.D.</td>
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<tr>
<td>9:45 a.m.</td>
<td>Carotid Disease Management</td>
<td>Chandan Krishna, M.D.</td>
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<td>10:00 a.m.</td>
<td>IA Stroke Therapy</td>
<td>Ali Turkmani, M.D.</td>
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<tr>
<td>10:15 a.m.</td>
<td>Vagus Nerve Stimulation for Stroke</td>
<td>Jonathon J. Parker, M.D., Ph.D.</td>
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Friday, April 5, 2024 (continued)

10:30 a.m.  Case-Based Panel Discussion and Q&A
             Speakers and Moderators

10:45 a.m.  Refreshment Break and Exhibits

SESSION VI: Neurovascular: Aneurysm and AVM Innovations

MODERATOR(S): Fredrick B. Meyer, M.D. and Ayan Sen, M.D.

11:00 a.m.  Subarachnoid Hemorrhage Management
             Ayan Sen, M.D.

11:15 a.m.  Familial Aneurysms and Arteriovenous Malformations
             Devi P. Patra, M.D.

11:30 a.m.  Innovations in Aneurysm Management
             Bernard R. Bendok, M.D.

12:00 p.m.  Advances in Arteriovenous Malformations Management
             Bernard R. Bendok, M.D.

12:15 p.m.  Case-Based Panel Discussion and Q&A
             Speakers and Moderators

12:30 p.m.  Lunch and Exhibits (Product Theater)

1:30 p.m.   Cranial Hands-On Workshops:
             Bypass, Endovascular, Epilepsy Stations
             Chandan Krishna, M.D.; Joseph I. Sirven, M.D.;
             Devi P. Patra, M.B.B.S.; Benard R. Bendok, M.D.; and
             Jonathon J. Parker, M.D.; Nora J. Schaefer, R.N., CNRN

3:00 p.m.   Adjourn

6:00 p.m.   Dinner
             Invited Guest Speaker: Frederic B. Meyer, M.D.
Saturday, April 6, 2024

7:00 a.m.  Continental Breakfast and Exhibits

8:00 a.m.  Daily Overview of Goals and Objectives  
Bernard R. Bendok, M.D.

SESSION VII:  Tumor and Skull Base Session

MODERATOR(S):  Frederic B. Meyer, M.D.

8:15 a.m.  Medical Management of Pituitary Adenomas  
Aditi Kumar, M.B.B.S.

8:30 a.m.  Neuro-ophthalmology of Pituitary Tumors  
Marie A Di Nome, M.D.

8:45 a.m.  Advances in Endoscopic Approaches to the Sella  
Amar Miglani, M.D.

9:00 a.m.  Innovations in Pituitary Surgery  
Bernard R. Bendok, M.D.

9:15 a.m.  When a Headache is Not Just a Headache  
Rashmi B. Halker Singh, M.D.

9:25 a.m.  Case-Based Panel Discussion and Q&A  
Speakers and Moderators

SESSION VIII:  Chordomas

MODERATOR(S):  Maciej M. Mrugala, M.D., Ph.D.

9:35 a.m.  Medical Options and Clinical Trials for Chordomas  
Maciej M. Mrugala, M.D., Ph.D.

9:50 a.m.  Surgical Management for Chordomas  
Bernard R. Bendok, M.D.

10:05 a.m.  Radiotherapy for Chordomas  
Sameer R. Keole, M.D.
Saturday, April 6, 2024 (continued)

10:20 a.m.  Case-Based Panel Discussion and Q&A
            Speakers and Moderators

10:35 a.m.  Refreshment Break and Exhibits

SESSION IX:  Acoustic Neuromas

MODERATOR(S):  Shannon P. Fortin Ensign, M.D., Ph.D.

10:50 a.m.  Radiosurgery for Acoustic Neuromas
            Ramiro Del Valle, M.D.

11:05 a.m.  Translabyrinthine Approaches
            Nicholas L. Deep, M.D.

11:20 a.m.  Retrosigmoid Approach
            Bernard R. Bendok, M.D.

11:35 a.m.  Medical Options and Clinical Trials for Acoustic Neuromas
            Shannon P. Fortin Ensign, M.D., Ph.D.

11:50 a.m.  Tumor Board
            Speakers and Moderators

12:35 p.m.  Closing Remarks

12:40 p.m.  Adjourn