

**6th Annual Advances and
Innovations in Neurosurgery 2025
April 3-5, 2025**

Thursday, April 3, 2025

7:00 a.m.	Conference Registration and Breakfast	
	APP Sessions and Hands-On Workshops	
7:40 a.m.	Welcome and Introductions JoDee Winter, PA-C	
7:50 a.m.	Opening Remarks Bernard R. Bendok, M.D.	
8:00 a.m.	Spine Trauma Brad Rief, PA-C	Advanced Endovascular Workshop (Separate Registration Required) Part I: Stroke (8:10-9:40 am) Workshop Moderators: Bernard R. Bendok, M.D., Chandan Krishna, M.D., Jaime Lopez, M.D., Ramiro Del Valle, M.D., and Alejandro Zavala, M.D.
8:20 a.m.	Headache Workup and Red Flags Rashmi B. Halker Singh, M.D.	
8:40 a.m.	Neuroimaging Serena Garcia, PA-C	
9:00 a.m.	Medications and Neuro Patients Harn J. Shiue, Pharm.D., R.Ph.	
9:20 a.m.	Anesthetic Considerations in the Age of GLP-1 and SGLT2 Inhibitors Patrick B. Bolton, M.D.	
9:40 a.m.	Refreshment Break and Exhibits	
9:55 a.m.	Hands On Session #1: Surgical Positioning, Cranial Plating, Microscopic Suturing, Ultrasound for Intracranial Evaluation Joseph B. Farnsworth, P.A.-C., Nora Schaefer, R.N., CNRN, JoDee Winter, PA-C, Miles Hudson, MD, Abhijith Bathini, MD, and Rawad Abbas, MD	Advanced Endovascular Workshop Part II: Aneurysm Workshop Moderators: Bernard R. Bendok, M.D., Chandan Krishna, M.D., Jaime Lopez, M.D., Ramiro Del Valle, M.D., Alejandro Zavala, M.D., and Nora Schaefer, R.N., CNRN

Thursday, April 3, 2025 (continued)

11:50 a.m.	Lunch , Exhibits , and Optional Non-CME Product Theater	
12:50 p.m.	Neuroophthalmology Marie Di Nome, M.D. and Melinda R. Sickel, C.O.A.	Advanced Bypass Workshop Part I (1:00– 2:50 pm) Workshop Moderators: Bernard R. Bendok, M.D., Chandan Krishna, M.D., Jaime Lopez, M.D., Ramiro Del Valle, M.D., and Alejandro Zavala, M.D.
1:50 p.m.	Intracranial Pressure Management Chris Tran, DNP	
2:10 p.m.	Carotid Disease and Treatment Options JoDee Winter, PA-C	
2:30 p.m.	Neuroinfections and Meningitis Christopher F. Saling, M.D.	
2:50 p.m.	Refreshment Break and Exhibits	
3:05 p.m.	Hands On Session #2: Headframe Application, Suturing, Shunt Programming, Stealth Localization, Ultrasound for Intracranial Evaluation Joseph B. Farnsworth, P.A.-C., Nora Schaefer, R.N., CNRN, JoDee Winter, PA-C, Miles Hudson, MD, Abhijith Bathini, MD, and Rawad Abbas, MD	Advanced Bypass Workshop Part II (3:10-5:00 pm) Workshop Moderators: Bernard R. Bendok, M.D., Chandan Krishna, M.D., Jaime Lopez, M.D., Ramiro Del Valle, M.D., and Alejandro Zavala, M.D.
5:00 p.m.	Adjourn	

Friday, April 4, 2025

- 7:00 a.m. **Breakfast , Exhibits, and Optional Non-CME Product Theater**
- 7:50 a.m. **Daily Overview of Goals and Objectives**
Bernard R. Bendok, M.D.
- SESSION I: The Joy of Innovation**
- MODERATORS:** Alejandro Zavala, M.D. and Bernard R. Bendok, M.D.
- 7:55 a.m. **Innovations in Neuroscience from Mexico**
Alejandro Zavala, M.D.
- 8:05 a.m. **Innovations in Community Outreach in Neuro-ophthalmology**
Marie Di Nome, M.D.
- 8:15 a.m. **Innovations in Neuromonitoring for the Neurosurgeon**
Jaime Lopez, M.D.
- 8:25 a.m. **Innovations in Facial Pain Management**
Richard Zimmerman, M.D.
- 8:35 a.m. **Proton-Beam Radiosurgery in Neurosurgery**
Sujay Vora, M.D.
- 8:45 a.m. **Becoming a Healthcare Innovator and Entrepreneur**
Stefan Madansingh, Ph.D.
- 8:55 a.m. **Case-Based Panel Discussion and Q&A**
Alejandro Zavala, M.D. and Bernard R. Bendok, M.D.
- SESSION II: Advancement in the Treatment of Vascular Pathologies
(AVM, Aneurysm, ICH)**
- MODERATORS:** Ayan Sen, M.D. and Ramiro Del Valle, M.D.
- 9:15 a.m. **Critical Care Management of the Neurovascular Patient**
Ayan Sen, M.D.
- 9:30 a.m. **Managing Acute ICH in the Anti-Coagulated Patient**
Tamra Ranasinghe, M.D.

Friday, April 4, 2025 (continued)

- 9:45 a.m. **Minimally Invasive Options for ICH**
Chandan Krishna, M.D.
- 10:00 a.m. **Innovations in Aneurysm and AVM Management**
Bernard R. Bendok, M.D.
- 10:20 a.m. **Case-Based Panel Discussion and Q&A**
Ayan Sen, M.D. and Ramiro Del Valle, M.D.
- 10:30 a.m. **Refreshment Break and Exhibits**
- SESSION III:** **Innovation in Spine Care**
- MODERATORS:** Chandan Krishna, M.D. and Joshua Bakhsheshian, M.D.
- 10:45 a.m. **Innovations in Spine Oncology**
Maziyar Kalani, M.D.
- 11:00 a.m. **Innovations in Spinal Deformity Surgery**
Jamal McClendon, M.D.
- 11:15 a.m. **Innovations in Endoscopic Spine Surgery**
Joshua Bakhsheshian, M.D.
- 11:30 a.m. **Non-operative Options for Back Pain**
Daniel Wei, M.D.
- 11:45 a.m. **Case-Based Panel Discussion and Q&A**
Chandan Krishna, M.D. and Joshua Bakhsheshian, M.D.
- 12:00 p.m. **Lunch, Exhibit, and**
Optional Non-CME Product Theater
- 1:00 p.m. **Spine Hands-On Station**
Chandan Krishna, M.D. and Joshua Bakhsheshian, M.D.

Friday, April 4, 2025 (continued)

SESSION IV:	Advances in Surgery and Neuromodulation for Epilepsy
MODERATORS:	Alejandro Zavala, M.D., Joseph Sirven, M.D., and Richard Zimmerman, M.D.
1:45 p.m.	Innovations in Seizure Prediction for Epilepsy Greg Worrel, M.D., Ph.D.
2:00 p.m.	Innovations of Neurophysiological Monitoring in Epilepsy Surgery Joseph F. Drazkowski, M.D.
2:15 p.m.	The Art of Selecting Patients for Surgery Katherine Noe, M.D.
2:30 p.m.	Innovations in Surgery and Neuromodulation for Epilepsy Jonathon Parker, M.D., Ph.D.
2:45 p.m.	Case-Based Panel Discussion and Q&A Alejandro Zavala, M.D., Joseph Sirven, M.D., and Richard Zimmerman, M.D.
3:00 p.m.	Epilepsy Hands-On Station Ramiro Del Valle, M.D., Joseph Sirven, M.D., Alejandro Zavala, M.D., and Jonathon Parker, M.D., Ph.D.
4:30 p.m.	Neurology of Winetasting - Separate Registration Required for this Optional Non-CME Activity Youbirt Aissa and Jaime Lopez, M.D.
6:00 p.m.	Course Reception Toward a Meaningful Life - Optional Non-CME Activity Guest Speaker: Fredric B. Meyer, M.D.
7:30 p.m.	Stargazing - Optional Non-CME Activity

Saturday, April 5, 2025

- 6:00 a.m. **Yoga - Optional Non-CME Activity**
- 7:00 a.m. **Breakfast, Exhibits, and Optional Non-CME Product Theater**
- SESSION V: Innovations in Skull-Base Meningioma Management**
- MODERATORS:** Ramiro Del Valle, MD and Alyx Porter, MD
- 8:00 a.m. **Innovations in Imaging of Meningioma**
Tanya Rath, M.D.
- 8:15 a.m. **Innovations in Surgery for Meningioma**
Bernard R. Bendok, M.D.
- 8:30 a.m. **Innovations in Radiotherapy for Meningioma**
Sujay Vora, M.D.
- 8:45 a.m. **Innovations in Medical Therapy for Meningioma**
Alyx Porter, M.D.
- 9:00 a.m. **Case-Based Panel Discussion and Q&A**
Ramiro Del Valle, M.D. and Alyx Porter, M.D.
- SESSION VI Innovations in Glioma Therapy**
- MODERATORS:** Mark Lyons, M.D., Maciej Mrugala, M.D., Ph.D., and
Alejandro Zavala, M.D.
- 9:20 a.m. **Innovations in Glioma Therapy**
Maciej Mrugala, M.D., Ph.D.
- 9:35 a.m. **Laser Ablation for Radiation Necrosis**
Richard Zimmerman, M.D.

Saturday, April 5, 2025 (continued)

- 9:50 a.m. **Radiosurgery for Intraaxial Lesions**
Ramiro Del Valle, M.D.
- 10:05 a.m. **Innovations in Surgery for Glioma**
Chandan Krishna, M.D.
- 10:20 a.m. **Case-Based Panel Discussion and Q&A**
Mark Lyons, M.D. and Maciej Mrugala, M.D., Ph.D.
- 10:35 a.m. **Refreshment Break and Exhibits**
- SESSION VII: Craniopharyngioma**
- MODERATORS:** Naresh Patel, M.D., Shannon Fortin-Ensign, M.D., and Jaime Lopez, M.D.
- 10:50 a.m. **Neuro-Ophthalmology of Craniopharyngioma**
Marie Di Nome, M.D.
- 11:05 a.m. **Proton-Beam for Craniopharyngioma**
Fan Yang, M.D.
- 11:20 a.m. **BRAF Mutations and Innovations in Neuro-Oncology for
Craniopharyngioma**
Shannon Fortin-Ensign, M.D.
- 11:35 a.m. **Craniopharyngioma: Endocrine Perspectives**
Aditi Kumar, M.D.
- 11:50 a.m. **Innovations in Endoscopic Access and Exposure**
Devyani Lal, M.D.
- 12:05 p.m. **Innovations in Neurosurgical Approaches for Craniopharyngioma**
Bernard R. Bendok, M.D.
- 12:20 p.m. **Case-Based Panel Discussion and Q&A**
Ramiro Del Valle, M.D. and Alyx Porter, M.D.
- 12:35 p.m. **Closing Remarks**
- 12:40 p.m. **Adjourn**