

2025

Barrow Neurological Institute Neuroscience Symposium

May 14-16, 2025

Goldman Auditorium and Sonntag Pavilion
Barrow Neurological Institute
350 W. Thomas Road, Phoenix, AZ



Barrow
Neurological Institute

Minding What Matters Most™

AGENDA | May 14, 2025 | Day One

Day 1 | Goldman Auditorium

11 a.m. Welcome Lunch - Sonntag

NEURO-ONCOLOGY | Nader Sanai, MD

Noon Drug Development for Brain Tumors
Nader Sanai, MD

12:20 p.m. Radiation Therapy for Brain Tumors
William R. Kennedy, MD

12:40 p.m. Novel Therapeutic Strategies for Brain Tumor Treatment
Artak Tovmasyan, PharmD, PhD

EPILEPSY | Vladimir Shvarts, MD

1 p.m. Neuromodulation in Epilepsy: Beyond Seizures
David Harris, MD

2 p.m. BREAK

ENDOVASCULAR | Felipe Albuquerque, MD

2:10 p.m. Endovascular Approaches to the Cavernous Sinus
Felipe Albuquerque, MD

2:20 p.m. Update on MMA Embolization Including CSDH and Headache
Andrew Ducruet, MD

2:30 p.m. Update on Mechanical Thrombectomy for Distal Arterial Occlusion (MEVO)
Samuel Hall, MD

2:40 p.m. Multimodality Management of Cervical Carotid Stenosis (PTAS, CEA, TCAR, etc)
Richard Williamson, MD

MOVEMENT DISORDERS | Holly Shill, MD

2:50 p.m. Update on Treatment for Essential Tremor
Holly Shill, MD

3:10 p.m. Neurosurgery for movement disorders: Update
Francisco Ponce, MD

GLOBAL NEUROLOGY & NEUROSURGERY

3:30 p.m. State of Neurosurgery in Tanzania & South Africa
John Ouma, MD, Kerry Vaughan, MD

4 p.m. Neurological Updates from Paraguay
Elio Marín, MD

4:30 p.m. State of Neurosurgery in Panama
Ricardo Bermúdez, MD, Carlos Candanedo, MD

5 p.m. Adjourn

5:30 p.m. Musical Instrument Museum

AGENDA | May 15, 2025 | Day Two

Day 2 | Goldman Auditorium

VASCULAR NEUROSURGERY | Michael T. Lawton, MD

8 a.m. Novel therapies and neurotechnology for vasospasm after SAH
Anna Huguenard, MD

8:15 a.m. Skull Base Bypasses for Aneurysms and Ischemia
Michael T. Lawton, MD

STROKE | Doctor Name, MD

8:40 a.m. What's New in the New AHA/ASA Primary Stroke Prevention Guideline?
Judea Wiggins, MD

8:50 a.m. Large Core Infarctions from a LVO, Can We Still Take the Clot Out?
Paige Baynas, DO

9 a.m. Embolic Stroke of Unknown Source, Its Work Up and Therapies
Supreet Kaur, MD

9:10 a.m. A Brief Review of Antithrombotics for Stroke
Bryan Franzen, DO

9:20 a.m. Q&A/BREAK

NEUROCRITICAL CARE | (TBI, ICU, Spine Injury)

9:30 a.m. Paroxysmal Sympathetic Hyperactivity
Daniella Sisniega, MD

9:50 a.m. Optimizing Cerebral Perfusion Pressure
Nicholas Nelson, MD

10:10 a.m. Neurocritical Care Advancements in SAH
Patrick Crooks, MD

COGNITIVE DISORDERS | Anna Burke, MD

10:30 a.m. GLP 1 Agonists: Implications in Neurodegeneration and Neuropsychiatry
Anna Burke, MD

11:10 a.m. Drugs in Development for Alzheimer's Disease
Marwan Sabbagh, MD

11:50 a.m. Q&A

Noon LUNCH/VENDORS - Sonntag/Ivy Lobby

HEADACHE MEDICINE | Kerry Knievel, DO, FAHS

1 p.m. Diagnosis and Medical Management of IIH
Kerry Knievel, DO, FAHS

1:15 p.m. Management of Skull Base CSF Leak Related to IIH
Samuel Barber, MD

1:30 p.m. Endovascular Evaluation and Management of IIH
Andrew Ducruet, MD

NEUROMUSCULAR | Shafeeq Ladha, MD

1:40 p.m. The Flaw of the Miracle: Immune-Based Cancer Treatments and their NM Complications
Erik Ortega, MD

2 p.m. Caring for Women with Myasthenia Gravis
Ayushi Chugh, MD

AGENDA | May 15, 2025 | Day Two

Day 2 | Goldman Auditorium (continued)

NEURO-IMMUNOLOGY

2:20 p.m. A Single-Cell Compendium of Human Cerebrospinal Fluid Reveals Multiple Sclerosis-Associated Immune Cell Populations
Claudia Cantoni, PhD

2:35 p.m. 2024 McDonald Criteria for MS Diagnosis, Implementing the Changes
Michael Robers, MD

2:50 p.m. Q&A/BREAK

SPINE | *Juan Uribe, MD*

3 p.m. Modern Management of the Acute Traumatic Central Cord Syndrome
Rory Murphy, MD

3:15 p.m. Discussion

3:20 p.m. The Role of Virtual Reality, Augmented Reality and Mix Reality on Spine Education
Laura Snyder, MD

3:45 p.m. Discussion

3:50 p.m. Novel Management of the Lumbosacral Junction in Adult Spinal Deformity
Jay Turner, MD

4:05 p.m. Discussion

4:10 p.m. Circumferential Single Position Lumbar Spinal Fusion Using Less Invasive Techniques for Adjacent Segment Failure
Nikolai Martirosyan, MD

4:25 p.m. Discussion

4:30 p.m. **Adjourn**

5 p.m. **Reception - Phoenix Art Museum**

AGENDA | May 16, 2025 | Day Three

Day 3 | Goldman Auditorium

KEYNOTE SESSION

7:30 a.m. **KEYNOTE** | Advances in Stroke and Clinical Reasoning in Neurology
S. Andrew Josephson, MD | Professor and Chair, Neurology
UCSF Weill Institute for Neurosciences

8:30 a.m. **KEYNOTE** | Current State and Future of Neurosurgery in Europe
Claudius Thomé, MD | Chief of Department, University Clinic Innsbruck, Innsbruck, Tirol, Austria

9:30 a.m. **PANEL** | The State of Neuroscience
Michael T. Lawton, MD, S. Andrew Josephson, MD, Claudius Thomé, MD, Brad A. Racette, MD

10 a.m. **Adjourn**

10:30 a.m. **Neurology** | Top Golf
Neurosurgery | Hike



Barrow Neurological Institute Faculty

Felipe Albuquerque, MD, FAANS
Director
Endovascular Neurosurgery

Samuel Barber, MD
Otolaryngologist
ENT and Skull Base Surgery

Paige Baynas, DO
Neurologist, Stroke

Aimee Borazanci, MD
Medical Director
Multiple Sclerosis Program

Anna Burke, MD
Cognitive Neuropsychiatrist
Alzheimer's and Memory Disorders Program

Claudia Cantoni, PhD
Assistant Professor
Multiple Sclerosis

Ayushi Chugh, MD
Neurologist
Neuromuscular Disorders

Susan Criswell, MD
Neurologist
Movement Disorders

Patrick Crooks, MD
Neurologist
Neurocritical Care

Andrew Ducruet, MD
Assistant Director
Endovascular Neurosurgery

Danielle Eagan, PhD
Neuropsychologist

Dilan Ellegala, MD
Medical Director, Barrow Global
Professor, Neurosurgery

Bryan Franzen, DO
Neurologist, Stroke

Stephen Foldes, PhD
Assistant Professor,
Electroneurodiagnostics,
Epilepsy

Samuel Hall, MD
Endovascular Fellow

David Harris, MD
Neurologist, Epilepsy

Anna Huguenard, MD
Fellow, Cerebrovascular & Skull Base Surgery

Supreet Kaur, MD
Neurologist, Stroke

William R. Kennedy, MD
Radiation Oncologist

Kerry Knievel, DO, FAHS
Director
Lewis Headache Center
Migraine and Headache Disorders

Aditya Kumar, MD
Neurologist
Neurocritical Care

Shafeeq Ladha, MD
Professor, Neurology
Director, Gregory W. Fulton
ALS & Neuromuscular Center

Michael T. Lawton, MD
President and CEO,
Professor and Chair,
Neurosurgery
Chief, Neurovascular Surgery

Nikolay Martirosyan, MD, PhD
Neurosurgeon
Spine Surgery

Huam Mubarak, MD
Neurologist, Director, Barrow Global

Rory Murphy, MD
Assistant Professor,
Department of Neurosurgery

Nicholas Nelson, MD
Neurologist, Neurocritical Care

Erik Orgtega, MD
Neurologist
Neuromuscular Diseases

Francisco Ponce, MD
Chief, Stereotactic and
Functional Neurosurgery

Brad A. Racette, MD
Neurologist
Kemper and Ethel Marley Chair
for Neurology
Senior Vice President

Michael Robers, MD
Neurologist
Multiple Sclerosis

Marwan Sabbagh, MD
Behavioral Neurologist
Alzheimer's and Memory
Disorders Program

Nader Sanai, MD
Director, Division of
Neurosurgical Oncology,
Director, Ivy Brain Tumor
Center

Holly Shill, MD, FAAN
Director, Muhammad Ali
Parkinson Center

Vladimir Shvarts, MD
Director, Epilepsy Program

Daniella Sisniega, MD
Neurologist, Neurocritical Care

Laura Snyder, MD
Assistant Professor,
Department of Neurosurgery

Artak Tovmasyan, PharmD, PhD
Director of Pharmacokinetics,
Ivy Brain Tumor Center

Jay D. Turner, MD, PhD
Director, Barrow Clinical
Outcomes Center
Associate Professor,
Neurosurgery

Yoshie Umemura, MD
Chief, Neuro-Oncology

Kerry Vaughan, MD
Neurosurgeon
Brain and Spine Surgery

Judea Wiggins, MD
Neurologist, Stroke

Richard W. Williamson, MD
Endovascular Neurosurgeon

Visiting Faculty

Ricardo Bermúdez, MD
[Need title/Location info](#)

Carlos Candanedo, MD
[Need title/Location info](#)

S. Andrew Josephson, MD
[Need title/Location info](#)

Elio Marín, MD
[Need title/Location info](#)

John Ouma, MD
[Need title/Location info](#)

Claudius Thomé, MD
[Need title/Location info](#)

Who Should Attend

Neurosurgeons, neurologists, residents, and other healthcare providers with an interest in the application of best practices in the evaluation and appropriate treatment of patients with aneurysms, neurodegenerative diseases, various causes of stroke, and utilizing DBS to treat Alzheimer's disease.

Objectives

- Recognize neurological disorders and become familiar with appropriate data-driven treatments
- Learn the diagnostic evaluation and decision-making process for medical and neurosurgical interventions
- Increase the understanding and clinical competence to improve clinical practice and outcomes in neurological and neurosurgical conditions
- Understand the evaluation algorithms and evidence-based treatment options for vascular, neurodegenerative, and neoplastic disorders.

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of American College of Surgeons and Barrow Neurological Institute. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

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