5th Annual Congress of Lateral Skull Base Surgery Barrow Neurological Institute

Temporal Bone Course

Barrow Neurological Institute

April 12-13, 2024

Phoenix, Arizona

For more information:
www.barrowneuro.org/education/find-a-conference-or-cme-course/

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Course Description

The temporal bone constitutes one of the most anatomically complex locations in the human body. For this reason, a comprehensive knowledge of the complex three-dimensional anatomy of this region is vital for achieving successful surgical outcomes. The principal aim of the annual congress is to provide comprehensive cognitive and skills training for the safe and efficient completion of lateral skull base approaches. After a successful inaugural session in May 2018, this year's course will be the fifth iteration of the congress!

Seats will be reserved for an international audience of senior neurosurgical residents, neurosurgical skull base fellows, neurotology fellows, and practicing surgeons/faculty. Attendees will benefit from a concise lecture series by Barrow experts and renowned guest faculty, extensive time in the dissection lab working on preserved cadaveric whole heads, use of clinical-grade operative microscopes, and direct one-on-one mentorship.

This year, we are pleased to welcome our guest faculty representing ENT/neurotology, Tom Roland. In addition to offering our standard training regimen on traditional lateral skull base approaches, we will welcome Dr. Roland to help provide didactics and skills training on special topics in lateral skull base surgery. The focus of the fifth congress will be on auditory brainstem implantation and advanced combined petrousal approaches.

Course Participants

Senior neurosurgical residents, neurosurgical skull base fellows, neurotology (ENT) fellows.
(16 individuals; two per station, eight stations + one Pro-section)

Objectives

At the conclusion of this course, participants should be able to:

1) Describe all major anatomical structures of the temporal bone and petrous apex from four perspectives (posterior fossa, middle fossa, lateral surface structures, intra-temporal).
2) Perform lateral skull base surgical approaches and identify key visual-spacial relationships pertinent to the treatment of neoplastic, neurovascular, and infectious disorders.
3) Demonstrate surgical proficiency operating under high-powered microscopy within the confines of the temporal bone and in using various otologic micro-instrumentation.
4) Identify key anatomical landmarks identifying the lateral recess of the fourth ventricle and successfully place an auditory brainstem implant paddle electrode.
5) List the key steps to achieve a successful implantation and activation of an auditory brainstem implant.

Barrow Neurosurgery Research Laboratory
Marian Rochelle Neuroscience Research Center Building

Mark C. Preul, MD
Director of the Neurosurgery Research Laboratory

The course will take place at the Neurosurgery Research Laboratory of Barrow Neurological Institute Department of Neurosurgery, which is a world-class education, training, and research facility with a specialization in neurosurgical anatomy. The facility is well known for exquisite cadaver tissue specimens and features independent surgical stations fully equipped with operating microscopes, suction, irrigation, standard head frames, microsurgical and power instrumentation, 3D surgical projection, high definition flat screens, and fully trained attendant staff.

General Information

Course Location

Loyal and Edith Davis Neurosurgery Research Laboratory, Barrow Neurological Institute
St. Joseph's Hospital, 350 West Thomas Road, Phoenix, Arizona 85013

Laboratory Contact Information:

Neurosurgery Research Department: (602) 406-3268
Main: (602) 406-3000
Fax: (602) 406-4153
Email: William.Bichard@DignityHealth.org

Approved Accommodations:

Embassy Suites by Hilton
Phoenix Downtown North
10 East Thomas Road, Phoenix, AZ 85012
(602) 222-1111
Three blocks from the lab
Hotel shuttle runs between 7 a.m. – 10:45 p.m.

Hampton Inn Phoenix-Midtown-Downtown Area
160 West Catalina Drive, Phoenix, AZ 85013
(602) 200-0990
Across the street from the lab/walking distance
No hotel shuttle service

Fairfield Inn and Suits Phoenix (Marriott)
2520 North Central Avenue, Phoenix, AZ 85004
(602) 716-9900
0.6 miles from the lab
Hotel shuttle runs between 6 a.m. – 10 p.m.

Wyndham Garden Phoenix I Ramada Phoenix
Second Avenue and Osborne Road, Phoenix, AZ 85013
WyndhamHotels.com
(602) 604-4900 Wyndham Garden
(602) 595-4444 Ramada Phoenix

Taxi Contacts:

AAA Yellow Cab: (602) 252-5252
Discount Cab: (602) 200-2000
Execucar: (800) 410-4444

Schedule

Thursday, April 11, 2024

6:30 p.m.	Pre-Course Faculty Dinner (location TBD). Invite only.

Friday, April 12, 2024

7 a.m.	***Arrival and Registration*** | *Goldman Auditorium*
7:20 a.m. - 7:30 a.m.	***Course Intro, Foreward*** | *Goldman Auditorium* | *Spetzler*
7:30 a.m. - 8 a.m.	Anatomy of the Temporal Bone | *Goldman Auditorium* | *Stevens*
8 a.m. - 8:45 a.m.	Guest Faculty Grand Rounds No. 1 | *Goldman Auditorium* | *Roland*
8:45 a.m. - 9:30 a.m.	Guest Faculty Grand Rounds No. 2 | *Goldman Auditorium* | *TBD*
9:30 a.m. - 9:45 a.m.	Transition to Dissection Lab
9:45 a.m. - 10 a.m.	Trans-Temporal Approaches – Technique, Pearls, and Pitfalls | *2nd floor conf. room* | *Stevens*
10 a.m. - 12:45 p.m.	Dissection Stations; Part 1 Embalmed whole head, RIGHT side Dissection Focus: Trans-Labyrinthine, Trans-Otic Approach | *Mic-Prosection: Stevens*
12:45 p.m. - 1:25 p.m.	***Lunch*** | *Goldman Auditorium Lobby*
1:25 p.m. - 1:40 p.m.	Transition to Dissection Lab
1:40 p.m. - 2 p.m.	Infratemporal Fossa Approach - Basics of ABI | *2nd floor conf. room* | *Roland*
2 p.m. - 5 p.m.	Dissection Stations; Part 2 Embalmed whole head, RIGHT side Dissection Focus: Continue Trans-Temporal Exposure to Infratemporal Fossa Approach, Brainstem Anatomy for ABI | *Mic: Roland*
5 p.m. - 5:30 p.m.	End of Day Discussion: Ask the Experts Panel *Roland, TBD, Stevens, Almefty, Porter, Smith*
5:30 p.m.	***Adjourn***
6:30 p.m.	Post-Course Dinner. Location TBD. Dress Casual.

Schedule

Saturday, April 13, 2024

7:00 a.m. - 7:30 a.m.	***Breakfast Reception***	*Marley Lobby*
7:30 a.m. - 8:30 a.m.	Sat Overview. Middle Fossa and Combined Petrosal	*Goldman Auditorium*	*Stevens, Almefty*
8:30 a.m. - 8:45 a.m.	Transition to Dissection Lab
8:45 a.m. - Noon	Dissection Stations; Part 3 Embalmed whole head, LEFT side Dissection Focus: Middle Fossa Approaches, Petrous Apex, Cavernous Sinus *Mic-Prosection: Almefty*
Noon - 12:45 p.m.	***Lunch***	*Marley Lobby*
12:45 p.m. - 1 p.m.	Transition to Dissection Lab
1 p.m.	***Sponsor Stations*** available through afternoon session	*2nd floor conf. room* Sponsor 1: Intro to the ABI, Technology Overview	*Cochlear Corp.* Sponsor 2: Advances in Surgical Instrumentation	*Stryker*
1 p.m. - 1:20 p.m.	Posterior and Combined Petrosal Approaches	*2nd floor conf. room*	*TBD*
1:20 p.m. - 5 p.m.	Dissection Stations; Part 4 Embalmed whole head, LEFT sides Dissection Goals: Complete prior dissections. Posterior and Combined Petrosal Approaches. *Mic-Prosection: TBD*
5 p.m. - 5:15 p.m.	***Final Words and Adjournment***	*Almefty, Stevens*

Course Faculty

Course Directors

Kaith Almefty, MD
Neurosurgery
Assistant Professor
Barrow Neurological Institute

Shawn Stevens, MD, FACS
Neurotology/ENT Associate Professor
Barrow Neurological Institute

Guest Faculty

Thomas Roland Jr., MD
NYU Langone Health
President Elect ANS

Lab Director

Mark Preul, MD
Newsome Family Endowed Chair of Neurosurgery Research
Director, Neurosurgery Research Division of Neurological Surgery
Barrow Neurological Institute

Course Coordinator

William Bichard
Clinical Coordinator
Barrow Neurological Institute

Faculty

Michael T. Lawton, MD
Chairman and CEO
Barrow Neurological Institute

Randall Porter, MD
Neurosurgery
Barrow Neurological Institute

Kris Smith, MD
Neurosurgery
Barrow Neurological Institute

Nicholas Deep, MD
Neurotology/ENT
Mayo Clinic Scottsdale

Adam Cassis, MD
Arizona Hearing and Balance Center

Michael Fucci, MD
Arizona Hearing and Balance Center

Emeritus Faculty

Robert F. Spetzler, MD
Neurosurgery
Barrow Neurological Institute

For more information, email CME@BarrowNeuro.org or call (602) 406-3067.

Registration Form

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Residents/Fellows: $200
Non-trainee: $2500*
** Non-trainee slots will be made available on March 8, 2024, if course has not filled.*

REGISTER NOW

BarrowNeuro.org/LateralSkullBase

For more information, please contact the Barrow Continuing Medical Education Office at CME@BarrowNeuro.org or (602) 406-3067.

Refunds:

To ensure adequate spaces and planning for the course, no refunds are given for canceled registrations.

Pre-Reading Materials:

Nelson's Temporal Bone Dissection Manual (4th ed)

Cummings Otolaryngology 4th ed. Chapter, Mastoidectomy

Brackmann Otology 4th ed. Chapters, Trans-Labyrinthine approach, Trans-Petrosal approaches, Middle Fossa approaches.

Barrow Neurological Institute | Dignity Health. St. Joseph's Hospital and Medical Center

350 W. Thomas Rd.
Phoenix, AZ 85013

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