Neurosurgery Grand Rounds
Visiting Professor

Thursday, April 16, 2026
7:00 - 8:00 a.m.
Mel Cohen Conference Center
1920 East Cambridge Avenue, Phoenix, Arizona
Hot breakfast will be served.

Advancing Pediatric Hydrocephalus Treatment Through Understanding CSF Circulation

Jennifer M. Strahle, MD
Appoline Blair Professor of Neurological Surgery
Professor of Neurosurgery, Orthopedic Surgery and Pediatrics
Director, Pediatric Neuro Spine Program
Director, Pediatric Cerebrovascular Surgery

Learning Objectives
At the conclusion of this activity, participants will be able to:

- Discuss the pathophysiology of posthemorrhagic hydrocephalus and the role of iron.
- Describe the clinical characteristics and imaging features associated with development of hydrocephalus in patients with myelomeningocele.

Jennifer Strahle, MD, is the Appoline Blair Professor in Pediatric Neurosurgery at WashU Medicine. She also directs the Pediatric Neuro Spine Program and the Pediatric Cerebrovascular Surgery Program at St. Louis Children's Hospital.

Dr. Strahle grew up in New Jersey and attended Bates College as an undergraduate, where she double majored in neuroscience and biochemistry. After college, Dr. Strahle trained as an MD student at the University of Minnesota Medical School. Dr. Strahle completed her Neurosurgery residency at the University of Michigan and moved to St. Louis for a Pediatric Neurosurgery fellowship at St. Louis Children's Hospital.

In 2016, Dr. Strahle joined the WashU Medicine faculty. In addition to providing general neurosurgical care, she has developed St. Louis Children's Hospital into a referral center for fetoscopic fetal myelomeningocele repair, where she performs closure for unborn babies with spinal cord defects in concert with a large, multidisciplinary team. Dr. Strahle's research has broadly focused on Cerebrospinal fluid (CSF) dynamics, hydrocephalus, and pathology of the developing central nervous system. She has developed a worldwide reputation for her work on CSF fluid flow, having established collaborative scientific relationships with investigators across the U.S. and Europe. She is also a member and site Principal Investigator for the Hydrocephalus Clinical Research Network (HCRN), the premier clinical consortium focused on pediatric hydrocephalus, one of the most important clinical conditions treated by pediatric neurosurgeons.

Since 2021, Dr. Strahle has directed the Pediatric Neurosurgery fellowship program at WashU Medicine and St. Louis Children's Hospital. She has consistently recruited outstanding fellows and has thoughtfully cultivated a rich

training environment for not just fellows, but residents and medical students, as well. Most importantly, she has served as a mentor and a shining example for how to balance a clinical practice and research lab, while still being an inspiration to many trainees.

Barrow at Phoenix Children's

Virtual Live Streaming Neurosurgery Grand Rounds
Monday's from 7:00 – 8:00 a.m.

Zoom Information: Grand Rounds
Meeting ID: 993 7837 3233

Join from PC, Mac, iOS or Android:
https://PhoenixChildrensHospital.zoom.us/j/99378373233?pwd=UXBudHZLemRYK056ZWZvMm8yUzNkUT09

Or join by phone: (408) 638-0968 (US Toll) or (646) 558-8656 (US Toll)

The Attendance code will be listed in the chat at the beginning of the presentation and every 20 minutes thereafter until the conclusion.

Please text the attendance code to the Grand Rounds Attendance number: (866) 327-3062 or log into the CloudCME website: http://CME.arizona.edu and enter the attendance code.

- Please make sure to enter your cell phone number in your profile
- Please note that the attendance code is different each week

Attendance codes are only valid 15 minutes before the activity start time and for 24 hours after the activity end time.

Overall Activity Objectives:

1. Develop and refine strategies to diagnose, manage, and treat complex pediatric neurological conditions using the most current and evidence-based neurosurgical knowledge.
2. Identify and implement systems-based improvements in pediatric neurosurgery to reduce disparities in care, enhance safety, and promote equitable access to advanced diagnostic and treatment modalities.
3. Effectively counsel patients and families on both short-term and long-term prognoses, surgical and non-surgical treatment options, and potential outcomes for various pediatric neurosurgical conditions.
4. Apply the latest research findings and advanced clinical information to improve neurosurgical practices and optimize outcomes for pediatric patients.
5. Integrate cutting-edge neurosurgical techniques and interdisciplinary approaches to enhance the care and long-term outcomes of children with complex neurological disorders.

1 Incorporate new abilities and strategies to diagnose, manage and treat the complex neurological pediatric patient using the most relevant, up-to-date clinical information.
2 Analyze and apply the latest research, clinical data and American Board of Pediatrics (ABP) and American Board of Psychiatry and Neurology (ABPN) guidelines regarding various pediatric neuroscience disorders
3 Implement improvements in pediatric healthcare and safety issues for various pediatric neurological conditions so as to facilitate practice-based learning and systems-based practice.
4 Counsel patients and families on short-term and long-term prognoses and treatment options for a variety of neurological conditions in the pediatric population.
5 Translate knowledge into practice improvement with the goal of improving outcomes of patients with pediatric neurological and psychiatric disorders.
6 Improve patient care outcomes for children with complex neurological conditions by integrating up-to-date information and research to determine the best course of action.

Session Objectives:
1 Identify the clinical differences in pediatric neuroimmunological conditions.

2 Describe the breadth of diagnostic studies and treatment options in pediatric neuroimmunological conditions.

1.

Accreditation Statement:

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 The University of Arizona College of Medicine - Tucson and Phoenix Children's Hospital The University of Arizona College of Medicine - Tucson is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Arizona College of Medicine - Tucson designates this Live Activity for a maximum of 1.00 *AMA PRA Category 1 Credit(s) ™.* Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Relevant Financial Relationships Statement(s):

University of Arizona College of Medicine - Tucson Office of Continuing Medical Education adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CME activity, including faculty, planners, reviewers or others are required to disclose all financial relationships with ineligible entities (commercial interests). The CME office reviewers have nothing to disclose. All relevant financial relationships have been mitigated prior to the commencement of the activity.

Name of individual	Individual's role in activity	Nature of Relationship(s) / Name of Ineligible Company(s)
Jason S Hauptman, MD, PhD, FAANS FACS FAAP	Activity Director	Consulting Fee-Medtronic (Any division) | Consulting Fee-GE Healthcare | Consulting Fee-Iota - 11/24/2025
Jennifer M Strahle, MD	Faculty	Nothing to disclose - 03/15/2026