Ann & Robert H. Lurie Children's Hospital of Chicago

Northwestern Medicine®
Feinberg School of Medicine

Minimally Invasive Approaches in Pediatric Neurosurgery

Fifth Annual Didactic, Case-Based and Hands-On Lab Course

August 28-30, 2026

Downtown Chicago

Course director
Michael DeCuypere, MD, PhD

Learning Objectives:

- Demonstrate techniques for minimizing complications in keyhole cranial neurosurgery.
- Perform endoscopic approaches using cadaveric dissection and simulation models to refine hand-eye coordination and instrument handling.
- Apply best practices in perioperative management and complication avoidance strategies for keyhole and endoscopic neurosurgical procedures.
- Critique surgical strategies for optimizing patient outcomes in pediatric and minimally invasive neurosurgery.

Sponsored by the Division of Pediatric Neurosurgery at Ann & Robert H. Lurie Children's Hospital of Chicago and Northwestern University, Feinberg School of Medicine, Office of Continuing Medical Education

Accreditation Statement:

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation Statement:

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 17.25 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

American Board of Surgery Accredited CME:

Successful completion of this CME activity enables the learner to earn credit toward the CME requirement of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit. ABS CME credits will be submitted to the boards within 3 months of the conclusion of the activity.

Ann & Robert H. Lurie
Children's Hospital of Chicago®

Course Details

Location:

Northwestern Simulation Laboratory
McGaw Pavilion
240 East Huron Street, Suite LC-0540
Chicago, Illinois 60611
**scrubs for course are available at lab facility*

Wrigley Building
400 N. Michigan Ave, Suite 1200
Chicago, IL 60611

Target Audience:

- Attending Physicians
- Fellows
- Residents
- Med Students

Registration Fees:

- Attending Physicians - $1500
- Fellows - $600
- Residents - $500

Breakfast, refreshments, lunch and Saturday dinner are provided. Space is limited.

Hotel Accommodations:
Convenient lodging is available within walking distance of the course. For assistance with recommendations, please contact Alison Kuk at 312.227.8107 or akuk@luriechildrens.org for information.

Questions?
Email:akuk@luriechildrens.orgPhone: 312.227.8107

Registration:
To register, please visit https://luriechildrens.formstack.com/forms/minimally_invasive_approaches_in_pediatric_neurosurgery_a_didactic_case_based_and_hands _on_course. You can also contact Alison Kuk , at 312.227.8107 or akuk@luriechildrens.org

A Special Thanks to Our Generous Sponsors:

- Integra Neurosurgery
- Medtronic
- Stryker Neurosurgical

CourseFaculty

Course Director:
Michael DeCuypere, MD, PhD

Lurie Children'sFaculty Speakers:
Tord Alden, MD
Robin Bowman, MD
Sandi Lam, MD, MBA
Jeffrey Raskin, MD, MS

Guest Speakers:
Frederick Boop, MD
Scott Wait, MD
Stefan Wolfsberger, MD, PhD, MBA

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Course Agenda

Friday, August 28

11:45am Check in Registration
Wrigley Building

12:00pm Welcome
Sandi Lam, MD, MBA

12:10pm Why Keyhole? / Mini Pterional Craniotomy
Michael DeCuypere, MD, PhD

12:45pm Mini-Retrosigmoid Craniotomy
Michael DeCuypere, MD, PhD

1:00pm Eyebrow Craniotomy
Scott Wait, MD

1:30pm Mini-Temporal Craniotomy
Scott Wait, MD

1:45pm-2:00pm BREAK

2:00pm Approaches to 3rd Ventricle
Scott Wait, MD

2:30pm Approach to Deep Seated Lesions: Insula, Thalamus, and Posterior Temporal
Michael DeCuypere, MD, PhD

3:00pm Expanding Applications of Flexible Neuroendoscopy
Michael DeCuypere, MD, PhD

3:30pm-3:45pm BREAK

3:45pm Endoscopic Epilepsy Surgery
Sandi Lam, MD, MBA

4:30pm Endoscopic Craniosynostosis Surgery
Tord Alden, MD

5:10pm Anatomy Lab and Surgical Models Lab Intro for Saturday and Sunday
Sandi Lam, MD, MBA

5:15pm Friday Social & Hors D'oeuvres
Wrigley Building

Free evening in Chicago for course participants

Saturday, August 29

7:45am Arrival and Change into Scrubs
Northwestern Simulation Lab

8:00am-10:30am Cadaver Lab Session
Lab Goals: practice keyhole/cranial approaches with microscopes and rigid endoscopes on the heads, practice endoscopic craniosynostosis

8:00am-10:30am Lab Time: 2.5 hours, do 2-3 stations (6 station total: 5 cranial cadaver stations, endoscopic pineal tumor/ETV model, and endoscopic craniosynostosis? model station)

10:30am-10:45am BREAK

10:45am Neuronavigation/Multimodal Data for Planning and Execution
Stefan Wolfsberger, MD, PhD, MBA

11:15am Intraventricular Tumors
Frederick Boop, MD

12:00pm LUNCH
option to take boxed lunch into lecture room for working lunch, start back at 12:30pm

12:30pm Approaches to Pineal Region Lesions
Michael DeCuypere, MD, PhD

1:15pm Surgical Approaches to Focal Brainstem Tumors
Frederick Boop, MD

2:00pm Case Illustrations, Videos of Lecture Topics & Discussion or Overflow Time

2:30pm-2:45pm BREAK

2:45pm-4:45pm Cadaver Lab Session
Lab Goals: practice keyhole/cranial approaches with microscopes and rigid endoscopes on the heads, practice endoscopic craniosynostosis

Lab time: 2 hours, do 2-3 more stations (6 station total: 5 cranial cadaver stations, and endoscopic craniosynostosis model station)

6:00pm Dinner for Atendees and Faculty

Sunday, August 30

7:45am Arrival and Working Breakfast
Wrigley Building

8:00am Selective Dorsal Rhizotomy & Approach To Spine/Functional
Jeffrey Raskin, MD, MS

8:45am Fetoscopic Myelomeningocele Repair
Robin Bowman, MD

9:30am Discussions, Illustrations, Videos (or Overflow Topics)

10:00am Quick Lab Preview

10:05am-10:15am BREAK

Continued >

10:15am-12:15pm Surgical Models

- Flexible Intraventricular Endoscopy with 3D Printed Models
- Intraparenchymal Hemorrhage Model
- 3D Augmented Reality
- Ultrasound + Neuronavigation

CME Certificates:
To obtain your AMA PRA Category 1 Credits™ certificate, at the completion of this activity, please follow these steps:

- Sign into the Northwestern University Feinberg School of Medicine's Office of CME's website: *www.cme.northwestern.edu* using the email and password used to register for this activity. *First time users see below.
- Click on "My CME" on the top right-hand side of the homepage.
- Click on "Evaluation & Certificate". Choose the activity for which you wish to evaluate and claim credit. You will be asked to enter the number of credits you are claiming which should reflect the extent to which you participated in the activity.
- Upon completion of the activity evaluation, your certificate will auto-generate. Please print or save a copy for your records. All credits, including MOC points, received from participation in Northwestern University CME activities will be reflected on your transcript, which can be accessed anytime under MyCME → Transcript.
- You must fill out an evaluation to receive a certificate. The evaluation will no longer be available after 11/24/25
  *First time signing in select "Sign In with Email and Password" → "Forgot Your Password?". An email will be sent to you with instructions on how to reset your password. NM faculty and staff can sign on using their NM single sign on account. Contact the Office of CME with questions at *cme@northwestern.edu*.

Disclosure of Financial Relationships for CME Activity Planners, Faculty, and Others in Control of Content

FSM's CME Leadership, Review Committee, and Staff have no relevant financial relationships with ineligible companies to disclose.

Course Director(s) and Planning Committee

- Michael DeCuypere has no relevant financial relationships to disclose
- Alison Kuk has no relevant financial relationships to disclose

Speakers and Moderators:

The following speakers have no relevant financial relationships to disclose:

- Tord Alden, MD
- Frederick Boop, MD
- Robin Bowman, MD
- Scott Wait, MD
- Stefan Wolfsberger, MD, PhD, MBA

- Sandi Lam, MD, MBA - Grant or research support-LivaNova (Relationship has ended)|Honoraria-Aesculap (Relationship has ended)|Paid consultant-Jaguar Therapeutics|Paid consultant-Encoded Therapeutics|Paid consultant-Ovid Therapeutics|Advisor-Synergia|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Livanova

- Jeffrey Raskin, MS, MD- Consulting Fee-Medtronic, Inc.|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Synergia|Consulting Fee-Iota|Consulting Fee-BlackRock neurotech

All the relevant financial relationships for these individuals have been mitigated.