

2026 CANADIAN RESIDENTS' TEMPORAL BONE AND EAR SURGERY COURSE

Wednesday, April 8, 2026

8:00AM - 3:45PM

Inclusion/Integrity/Innovation Rooms, Level 4
SickKids Patient Support Centre (PSC)
(Elizabeth Street Entrance)
175 Elizabeth St, Toronto

Thursday, April 9, 2026

7:45 AM - 5:00PM

Surgical Skills Centre, Level 2
Sinai Health (Mount Sinai Hospital)
600 University Avenue, Toronto

Friday, April 10, 2026

7:45AM - 5:00PM

Surgical Skills Centre, Level 2
Sinai Health (Mount Sinai Hospital)
600 University Avenue, Toronto



COURSE DESCRIPTION

The first day of the course will comprise lectures covering the breadth of O&N surgery which will be provided by experienced otologists and neurotologists from across Canada.

This is followed by two days of hands-on microscopic and endoscopic surgical simulation. Attendees will practice a full range of middle ear and tympanomastoid surgeries with cadaveric human temporal bones, caprine (goat) and 3D printed model.

Toronto has been selected as providing a relatively central location in Canada with good transport links across the country. It benefits from having a well-equipped Surgical Skills Center with very experienced and helpful staff. State of the art equipment will be provided by multiple corporate sponsors.

HANDS-ON DISSECTION

The lab is set up with 20 stations for microscope-guided temporal bone dissection and 8 stations for endoscopic dissection.

Delegates will be divided into groups of 4. Each group will be allocated to the endoscopic stations on a different ½ day of the course and drill temporal bones on each of the three other ½ days. Recommendations for temporal bone dissections are summarized below, with illustrated details available in the course manual.

A dry lab is equipped with models to practice implant insertion and delegates will rotate through this station in turn.

Please respect the delicate instruments generously provided by our sponsors and take good care of them. In particular, please take particular care of the endoscopes, and avoid any bending or drill contact.



COURSE DESCRIPTION

HUMAN TEMPORAL BONE #1: CANAL WALL UP SURGERY AND COCHLEAR IMPLANTATION

- Canal wall up mastoidectomy
- Posterior tympanotomy
- Endoscopic and trans mastoid sinus tympani exploration
- Semicircular canal occlusion
- Cochlear implantation
- Modified radical mastoidectomy
- Facial nerve exposure: IAM to stylomastoid foramen

HUMAN TEMPORAL BONE #2: OSSICULOPLASTY, IMPLANTABLE HEARING AIDS, AND CANAL WALL DOWN SURGERY

- PORPs and TORPs (with endoscope and microscope)
- Bone anchored and active hearing implants
- Front to back modified radical mastoidectomy
- Trans- labyrinthine approach to IAM
- Blue-line cochlea

HUMAN TEMPORAL BONE #3

- Repeat of steps from bones #1 and #2 according to preference

ENDOSCOPIC EAR SURGERY

GOAT HEAD MODEL:

- Elevate meatal skin flap
- Drill canalplasty
- Elevate tympanic membrane
- Insert tympanoplasty graft
- Remove incus then ossiculoplasty (PORP or TORP)

3D PRINTED MODEL:

- 3D Printed simulation models (Tympanoplasty, stapedotomy, ossiculoplasty)
- Bone anchored hearing implant surgery and advanced cochlear implant array insertion techniques



COURSE FACULTY & PLANNING COMMITTEE

Course Directors

Dr. Adrian James

Professor
University of Toronto

Dr. Allan Ho

Associate Professor
University of Alberta

Dr. Jordan Hochman

Professor
University of Manitoba

Dr. John JW Lee

Assistant Professor
University of Toronto

Dr. David Morris

Professor
Dalhousie University

University of Toronto Faculty & Speakers - Dept. of OHNS

Dr. Sharon Cushing

Professor

Dr. Horace Cheng

Lecturer

Dr. Andrew Ma

Lecturer

Visiting Canadian Faculty

Dr. Emily Kay Rivest

Assistant Professor
McGill University

Dr. Demir Bajin

Assistant Professor
Western University

Dr. Mathieu Trudel

Assistant Professor
Laval University



PROGRAM

Wednesday, April 8, 2026

SickKids Patient Support Centre (PSC)

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|-------|---|
| 7:30 | Breakfast |
| 8:00 | Course Introduction |
| 8:15 | Welcome and Course Objectives |
| 8:30 | Temporal Bone Lateral Surface Anatomy <ul style="list-style-type: none">• Anatomy relevant to Cortical Mastoidectomy and Drilling Technique |
| 8:45 | Middle Ear Anatomy <ul style="list-style-type: none">• Endoscopic Middle Ear Surgery |
| 9:10 | Stapes Surgery |
| 9:20 | Refreshment Break |
| 9:30 | Facial Nerve Anatomy <ul style="list-style-type: none">• Posterior Tympanotomy• Cochleostomy• Facial Nerve Decompression |
| 10:00 | Anatomy and Fundamental Principles <ul style="list-style-type: none">• Canal wall up Mastoidectomy vs Canal wall down Mastoidectomy |
| 10:40 | Refreshment Break |
| 10:50 | Anatomy of the Labyrinth <ul style="list-style-type: none">• Endolymphatic sac• Labyrinthectomy |
| 11:10 | Anatomy and Fundamental Principles <ul style="list-style-type: none">• Translabyrinthine and Extralabyrinthine Approaches to the IAC |
| 12:00 | Lunch Break |
| 1:00 | Surgical Management of Cholesteatoma <ul style="list-style-type: none">• Relevant Anatomy and Surgical Principles |
| 1:45 | Roundtable <ul style="list-style-type: none">• Surgical Management of Chronic Otitis Media• Discussion of 2 cases |
| 2:30 | Temporal Bone CT with a Review of Relevant Anatomy |
| 3:40 | Closing Remarks |



PROGRAM

Thursday, April 9, 2026

Sinai Health (Mount Sinai Hospital)

- 7:15 Breakfast
- 7:45 Lab Dissection
- 9:45 Break
- 10:00 Lab Dissection
- 12:00 Lunch
- 12:45 Lab Dissection
- 2:45 Break
- 3:00 Lab Dissection
- 5:00 Close & Course Evaluation Completion

Friday, April 10, 2026

Sinai Health (Mount Sinai Hospital)

- 7:15 Breakfast
- 7:45 Lab Dissection
- 9:45 Break
- 10:00 Lab Dissection
- 12:00 Lunch
- 12:45 Lab Dissection
- 2:45 Break
- 3:00 Lab Dissection
- 5:00 Close & Course Evaluation Completion



Acknowledgements

We acknowledge the generous support of our sponsors

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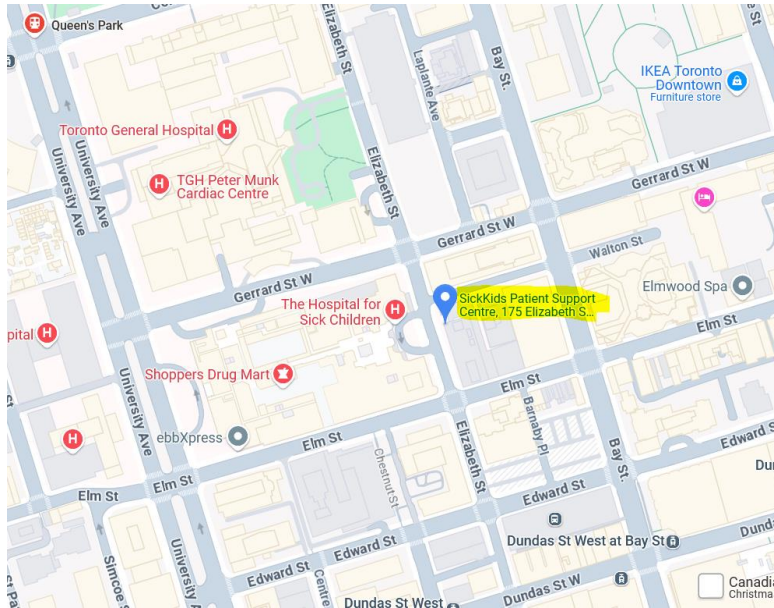


INTEGRA

CANADIAN NATIONAL RESIDENT
TEMPORAL BONE &
ENDOSCOPIC EAR
SURGERY COURSE



SickKids Patient Support Centre (PSC)
Inclusion, Integrity and Innovation Rooms, Level 4
175 Elizabeth St,
Toronto, ON M5G 2G3



Sinai Health (Mount Sinai Hospital)
Surgical Skills Centre,
Level 2, Room 250 (Use Murray Street Elevators)
600 University Avenue
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