

**52nd**  
**W. LOUGHEED MICROSURGICAL COURSE**  
1989-2016

***DIVISION OF NEUROSURGERY***  
**UNIVERSITY OF TORONTO**

***April 25 – 29, 2016***

***Visiting Guest Faculty***

***Professor Rokuya Tanikawa***  
***Department of Neurosurgery, Asahikawa Medical University Director***  
***Teishinkai Hospital Stroke Center***  
***Sapporo, Hokkaido, Japan***



***REGISTRANTS:***

Dr. Ghusn Alsideiri, McGill University	Dr. Aaron Hockley, University of Calgary
Dr. Mark Bigder, University of Manitoba	Dr. Ahmed Najjar, University of Montreal
Dr. Mashary Binnahil, University of Alberta	Dr. Tasha-Kay Walker-Palmer, University of West Indies
Dr. Dragosh Catana, McMaster University	Dr. Chris Witiw, University of Toronto

A practical microsurgical course for residents in Neurosurgery since 1989

## **GUEST FACULTY**

**Professor Rokuya Tanikawa**  
**Department of Neurosurgery, Asahikawa Medical University**  
**Director, Teishinkai Hospital Stroke Center**  
**Sapporo, Hokkaido, Japan**

Dr. F. Gentili	Professor, Division of Neurosurgery Staff Neurosurgeon, Toronto Western Hospital, UHN
Dr. T. Mainprize	Assistant Professor, Division of Neurosurgery Staff Neurosurgeon, Sunnybrook Health Sciences Centre
Dr. E. Monteiro	Assistant Professor, Department of Otolaryngology Staff Neurosurgeon, Toronto General Hospital, UHN
Dr. V.M. Pereira	Associate Professor, Department of Neuroradiology Staff Neuroradiologist, Toronto Western Hospital, UHN
Dr. I. Radovanovic	Course Co-Director Assistant Professor, Division of Neurosurgery Staff Neurosurgeon, Toronto Western Hospital, UHN
Dr. J. Spears	Associate Professor, Division of Neurosurgery Staff Neurosurgeon, St. Michael's Hospital
Dr. M. Tymianski	Course Co-Director Professor, Division of Neurosurgery Staff Neurosurgeon, Toronto Western Hospital, UHN
Dr. T. Valiante	Associate Professor, Division of Neurosurgery Staff Neurosurgeon, Toronto Western Hospital, UHN
Dr. A. Vescan	Assistant Professor, Department of Otolaryngology Staff Neurosurgeon, Toronto General Hospital, UHN

## **MONDAY, April 25, 2016**

- 0800 - 1200      Mount Sinai Surgical Skills Centre, Level 2, PMS VOR Room  
I. Radovanovic  
**INTRODUCTION**
- Mount Sinai Surgical Skills Centre Level 2, Room 250 Wet Lab  
T. Klingbiel  
**USING THE OPERATING MICROSCOPE**
- Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
R. Tanikawa / I. Radovanovic  
**SUBTEMPORAL APPROACH AND ANTERIOR  
PETROSECTOMY**
- 1200 - 1300      Lunch sponsored by Penumbra Inc.  
Mount Sinai Surgical Skills Centre, Level 2, PMS VOR Room  
V. Pereira  
**UNDERSTANDING CEREBRAL BLOOD VESSELS – ARTERIES**
- 1300 - 1630      Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
T. Valiante  
**SURGERY OF THE TEMPORAL LOBE**

### **READING FOR MONDAY:**

Samson DS, Batjer HH: Aneurysms of the distal basilar artery. The subtemporal approach In Intracranial Aneurysm Surgery: Techniques. Futura Pub. Inc., Mount Kisco. pp 143-163,1990.

Wen HT: Microsurgical anatomy of the temporal lobe: Part 1: Mesial temporal lobe anatomy and its vascular relations as applied to Amygdalohippocampectomy. Neurosurgery, Volume 45(3). September 1999, p549

### **EVENING READING (FOR TUESDAY):**

Yasargil MG: Normal Cisternal Anatomy in Microsurgery, Vol 1, pp 25-52, New York, George Thieme Verlag, 1984.

Yasargil MG: Middle Cerebral Artery Complex in Microneurosurgery, Vol 1, pp 72-91, New York Georg Thieme Verlag, 1984.

Grand W: Microsurgical Anatomy of the Proximal Middle Cerebral Artery and the Internal Carotid Artery Bifurcation. Neurosurgery 7:215-218, 1980.

Tew J, van Loveren: Orbitozygomatic osteotomy. In Atlas of Operative Microneurosurgery. Vol 1 pp 16-23, 1994

Umansky F: The lateral wall of the cavernous sinus. With special reference to the nerves related to it. J. Neurosurg 56:228-234, 1982.

Rand RW: Anatomy of the cavernous sinus and parasellar region. pp 42-53, St. Louis, C.V. Moseby Co., 1978.

Inoue T, Rhoton AL, Theele D, Barry ME: Surgical approaches to the cavernous sinus in a microsurgical study. Neurosurgery 26:903-932, 1990.

Samson DS, Batjer HH: Aneurysms of the distal basilar artery. The pterional approach.

In Intracranial Aneurysm Surgery: Techniques. Futura Pub. Inc., Mount Kisco. pp 121-141,1990.

Saeki N, Rhoton AL Jr.: Microsurgical anatomy of the upper basilar artery and the posterior Circle of Willis. J. Neurosurg 46:563-578, 1977.

**TUESDAY, April 26, 2016**

- 0800 - 1200 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
J. Spears  
**PTERIONAL CRANIOTOMY AND SURGICAL APPROACH TO ANTERIOR CIRCULATION ANEURYSMS (SYLVIAN FISSURE, MCA, ICA, PCOM AND ACOM)**
- 1200 - 1300 Lunch sponsored by Medtronic  
Mount Sinai Surgical Skills Centre, Level 2, PMS VOR Room  
I. Radovanovic  
**MINIMALLY INVASIVE VARIANTS OF THE PTERIONAL APPROACH**
- 1300 - 1630 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
R. Tanikawa / I. Radovanovic  
**SKULL BASE EXTENSION OF THE PTERIONAL CRANIOTOMY: ANTERIOR CLINOIDECTOMY, ORBITOZYGOMATIC OSTEOTOMY, CAVERNOUS SINUS**

**EVENING READING:**

Cavallo LM: Endoscopic endonasal surgery of the midline skull base: Anatomomic study and clinical considerations. Neurosurg Focus 19 (1):E2, 2005

**WEDNESDAY, April 27, 2016**

- 0800 - 1200      Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
F. Gentili / A. Vescan  
**ENDOSCOPIC ENDONASAL APPROACHES TO THE MIDLINE ANTERIOR SKULL  
BASE**
- 1200 - 1300      Lunch sponsored by Storz  
Mount Sinai Surgical Skills Centre, Level 2, PMS VOR Room
- 1300 - 1630      Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
F. Gentili / E. Monteiro  
**ENDOSCOPIC ENDONASAL APPROACHES TO THE MIDLINE POSTERIOR SKULL  
BASE AND LATERAL EXTENSIONS**
- 1830              **DINNER - Bodega Restaurant, 30 Baldwin Street**  
416-977-1287

**THURSDAY, April 28, 2016**

0800 – 1200 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
R. Tanikawa / M. Tymianski  
**MICROVASCULAR ANASTOMOSIS ON THE TURKEY WING**

1200 - 1300 Lunch sponsored by Integra  
Mount Sinai Surgical Skills Centre, Level 2, PMS VOR Room  
R. Tanikawa  
**VARIOUS VASCULAR RECONSTRUCTIONS FOR COMPLICATED ANEURYSMS**

1300 - 1630 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
R. Tanikawa / M. Tymianski  
**MICROVASCULAR ANASTOMOSIS ON THE RAT**

**EVENING READING:**

Samson DS, Batjer HH: Aneurysms of the vertebral confluens and proximal basilar artery. In Intracranial Aneurysm Surgery: Techniques. Futura Pub. Inc., Mount Kisco. pp 179-190, 1990.

Baldwin HZ, Miller CG, van Loveren HR, Lekker JT, Daspit CP, Spetzler RF: The far lateral/combined supra and infratentorial approach. J. Neurosurgery 81:60-68, 1994.

Rhoton, AL Jr, de Oliveira E: Microsurgical anatomy of the region of the foramen magnum. Neurosurgery Update I, 434-460. RH Wilkins, SS Rengachary McGraw-Hill, New York, 1990.

Drake CG: Surgical treatment of acoustic neuroma with preservation or reconstruction of the facial nerve. J. Neurosurg 26:459-464, 1967.

Drake CG: Total removal of large acoustic neuromas. J. Neurosurg 26:554-561, 1967.

Bauer R Kerschbauner F, Poisel S ed et al: Anterior approaches. Cervical spine and cervicothoracic junction pp 2-3. In Atlas of Spine Operations. Georg Thieme Verlag, New York, 1993.

**FRIDAY, April 29, 2016**

- 0700 - 0800 City-Wide Neurosurgery Rounds  
Mount Sinai Surgical Skills Centre, Grand Room  
R. Tanikawa  
**SURGICAL EMBOLECTOMY FOR ACUTE STROKE**
- 0800 - 1130 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
R. Tanikawa / I. Radovanovic  
**SURGICAL APPROACH TO THE VERTEBROBASILAR  
JUNCTION / FORAMEN MAGNUM / FAR LATERAL**
- 1130 - 1300 Lunch at Caffe La Gaffe sponsored by Codman Neuro
- 1300 - 1630 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
T. Mainprize  
**RETROSIGMOID / PRESIGMOID / POSTERIOR PETROSECTOMY**
- 1630 Mount Sinai Surgical Skills Centre, Level 2, Room 250 Wet Lab  
**COURSE EVALUATION**

## **ACKNOWLEDGEMENTS**

Many thanks to Ms. Sandra Vetiska for her help in organizing and coordinating this course, including arrangement of corporate sponsorship.

Thanks also to Ms. Sandi Amaral for registration and logistical support, as well as Mr. Joseph Tam, for help with putting course material online.

On behalf of all participants, thank you for your contribution. They will have a lasting impact on the training of all the soon-to-be neurosurgeons that participated.

**Charles River**

**Codman (Johnson & Johnson)**

**De Puy Synthes (Johnson & Johnson)**

**Fisher Scientific**

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