PETER-JOHN WORMALD

North American Endoscopic Management of Vascular Injuries Workshop

September 9, 2019

LOCATION: Mc INTYRE MEDICAL BUILDING OF McGILL UNIVERSITY
3655 PROMENADE SIR WILLIAM OSLER, MONTREAL (QC) H3G 1Y6

COURSE DIRECTOR
MARC A. TEWFIK
GUEST OF HONOR
PETER-JOHN WORMALD

INTERNATIONAL FACULTY
PHIL CHEN, NEIL TAN, LUIS MACIAS VALLE, VIKRAM PADHYE, ROWAN VALENTINE, ERIK WEITZEL PETER-JOHN WORMALD.

LOCAL FACULTY
ERIC BISSADA, SALVATORE DI MAIO, MICHAEL HIER, LAMIAE HIMDI, ALEX MLYNAREK, KEITH RICHARDSON, KESH REDDY, BRIAN ROTENBERG, DENIS SIRHAN, JOHN SCOTT, DORON SOMMER.

PLANNING COMMITEE
SAM DANIEL, SAUL FRENKIEL, JOSEPH SCHWARTZ, MARC A. TEWFIK, RICKUL VARSHNEY.

LEARNING OBJECTIVES

After attending this workshop, otolaryngologists will:

1. Recognize the challenges an endoscopic surgeon faces when trying to manage a large vessel injury endoscopically.
2. Carry out the surgical techniques that are vital for the effective management and control of the surgical field.
3. Acquire experience a simulation of this challenging scenario allowing them to employ these surgical techniques in the animal model of a large vessel catastrophe during endoscopic skull base surgery.

ACCREDITATION

This activity is an Accredited Group Learning Activity (Section 1) and an Accredited Simulation Activity (Section 3) as defined by the Royal College of Physicians and Surgeons of Canada's Maintenance of Certification Program (MOC) as well as a Recognized Professional Development Activity and Recognized Practice's Assessment Activity as defined by the Collège des médecins du Québec. This activity has been approved by the Continuing Professional Development Directorate (CPDD) of the Fédération des médecins spécialistes du Québec.

The CPDD recognizes 7.5 hours for the overall activity. You can declare a maximum of 2.25 hours in section 1 / Recognized Professional Development Activity and a maximum of 5.25 hours in section 3 / Recognized Practice's Assessment Activity. Participants must claim a number of hours in accordance with the duration of their participation.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association (AMA), physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

COURSE CURRICULUM

MONDAY, SEPTEMBER 9

7:45 *Registration and coffee*
McIntyre Medical Building
6th floor

8:00 *Welcome & Introduction*
DR. MARC A. TEWFIK

8:10 Carotid artery anjuries during skull base surgery
DR. ROWAN VALENTINE

8:30 Vascular surgical steps in sheep model of vascular injury
- Venous surgical steps
- Arterial surgical steps

PR. PETER-JOHN WORMALD

8:50 Controlling the surgical field
DR. MARC A. TEWFIK

9:10 *Move to lab and getting familiar with stations*

9:20 Venous injuries
- Drilling & exposure (10 min)
- Injury creations (5 min)
- Floseal sandwich (10 min)
- Vascular clips (15 min)
- Aneurysm-clips (30 min)

10:30 *Coffee break*

11:00 Arterial Injuries
- Drilling & exposure (10 min)
- Injury creation (5 min)
- Muscle patch (15 min)
- Aneurysm-clips (30 min)

12:15 *Lunch*

13:15 ICA injury literature review
DR. ROWAN VALENTINE

13:45 Does the type of injury and closure affect primary hemostasis and long term outcome?
DR. VIKRAM PADHYE

14:00 Does training in endoscopic large vessel injury management affect patient outcome?
DR. VIKRAM PADHYE

14:15 *Move to lab and getting familiar with stations*

14:30 Venous injuries
- Drilling & exposure (10 min)
- Injury creations (5 min)
- Floseal sandwich (10 min)
- Vascular clips (15 min)
- Aneurysm-clips (30 min)

15:45 *Coffee break*

16:15 Arterial Injuries
- Drilling & exposure (10 min)
- Injury creation (5 min)
- Muscle patch (15 min)
- Aneurysm-clips (30 min)

17:15 Debriefing

17:25 *Closing remarks*

MARC A. TEWFIK

North American Masterclass in Endoscopic Sinus Surgery

September 10-12, 2019

LOCATION: JEANNE TIMMINS AMPHITHEATRE
MONTREAL NEUROLOGIC INSTITUTE
(3801, UNIVERSITY STREET, MONTREAL, QC H3A 2B4)

COURSE DIRECTOR
MARC A. TEWFIK
GUEST OF HONOR
PETER-JOHN WORMALD

INTERNATIONAL FACULTY
PHIL CHEN, VERONICA LAO, LUIS MACIAS-VALLE, SALIL NAIR, CAROLYN ORGAIN, NEIL TAN, ROWAN VALENTINE, BOZENA WROBEL, ERIK WEITZEL

AFFILIATED FACULTY
YVONNE CHAN, MARTIN DESROSIERS, JOHANNES A FRASNELLI, SAUL FRENKIEL, LAMIAE HIMDI, JOSEPH SCHWARTZ, DORON SOMMER, ANDREW THAMBOO, RICKUL VARSHNEY, IAN WITTERICK

PLANNING COMMITEE
SAUL FRENKIEL, JOSEPH SCHWARTZ, MARC A. TEWFIK, RICKUL VARSHNEY

INTRODUCTION

RECALCITRANT CHRONIC RHINOSINUSITIS (CRS) and aggressive clinical variants of the disease such as nasal polyposis, Samter's triad and eosinophilic mucus CRS are particularly challenging to manage, even in the hands of experienced otolaryngologists. Surgery is generally tailored to the severity of disease; however, advances in endoscopic sinus surgery technique and ancillary procedures, and our understanding of the disease process have lead to improved success rates for surgery in the management of severe disease. The aim of this course is to teach advanced techniques in endoscopic sinus surgery, including frontal recess dissection and drillout, medial maxillectomy, as well as common endoscopic skull base approaches to the pituitary region, clivus, anterior cranial and infratemporal fossae.

The session will consist of a full-day of lectures followed by two days of hands-on dissections. Twenty cadaveric heads with CT imaging as well as endoscopic surgical workstations will be provided, and the enrollment would be open to a total of 40 Otolaryngologists, including practicing surgeons, advanced trainees and fellows from the Canada, the US and Europe.

LEARNING OBJECTIVES

After attending this workshop, otolaryngologists will:

1. Recognize endoscopic and radiologic sino-nasal anatomy, as well as pathophysiologic concepts of various common nasal diseases;
2. Define the management of sino-nasal pathology, including the latest medical therapies as well as advanced ESS techniques, including the surgical steps of each technique;
3. Identify the indications and contraindications of advanced ESS techniques;
4. List the instrumentation required;
5. Define the postoperative management after ESS.

*** EACH PRESENTATION WILL INLUDE A MINIMUM OF 25% OF THE TIME SET ASIDE FOR QUESTIONS FROM THE AUDIENCE.**

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COURSE CURRICULUM

LOCATION: JEANNE TIMMINS AMPHITHEATRE,
MONTREAL NEUROLOGIC INSTITUTE
(3801, UNIVERSITY STREET, MONTREAL, QC H3A 2B4)

TUESDAY, SEPTEMBER 10

7:30	*Registration*	
7:50	*Welcome*	DR. MARC A. TEWFIK
8:00	Pathogenesis & Classifications of CRS	DR. JOHN SCOTT
8:20	The role of bacteria in CRS	DR. MARTIN DESROSIERS
8:40	Medical/Topical therapies in CRS	DR. JOSEPH SCHWARTZ
9:00	Office-based technologies in Rhinology	DR. RICKUL VARSHNEY
9:20	Preoperative and Postoperative Management in sinus surgery	DR. NEIL TAN
9:40	Surgical treatment of CRS: Full House FESS concept	DR. ANDREW THAMBOO
10:00	*Coffee break with sponsors*	
10:30	Surgical Sinonasal Anatomy and Radiology	DR. ROWAN VALENTINE PR. PETER-JOHN WORLMALD
11:10	Optimizing Surgical Technique: Hemostasis and Ergonomics	DR. ERIK WEITZEL
11:30	Anesthetic Considerations in Sinus Surgery	DR. VERONICA LAO
11:50	Frontal Recess and Frontal Sinus - Surgical Approaches	DR. PHILIP CHEN
12:10	Modified Endoscopic Lothrop Procedure (MELP)	PR. PETER-JOHN WORLMALD
12:30	*Lunch*	
13:10	Recalcitrant CRS (including Revision Surgery)	DR. LUIS MACIAS-VALLE
13:30	Disorders of Olfaction	DR. JOHANNES FRASNELLI
13:50	Endoscopic Septal & Transseptal Surgery (incl. Choanal Atresia)	DR. MARC A. TEWFIK
14:10	Endoscopic Dacryocystorhinostom	DR. SALIL NAIR
14:30	Endoscopic Orbital Surgery	DR. DORON SOMMER
14:50	Endoscopic Management of Sinonasal Tumours	DR. IAN WITTERICK
15:10	*Coffee break with sponsors*	
15:40	Avoiding and Managing Complications of FESS	PR. PETER-JOHN WORLMALD
16:00	Carotid Artery Injury Management	DR. ROWAN VALENTINE
16:20	Endoscopic Approach to Pituitary and Sellar Tumors	DR. MARC A. TEWFIK
16:40	CSF Fistula Repair and Skull Base Reconstruction	DR. BOZENA WROBEL
17:00	Close of the first day	
17:00-18:30	Wine and Cheese with Exhibitors	

FRONTAL SINUS MASTERCLASS WORKSHOP DESCRIPTION (INCLUDED FOR DISSECTORS)

The frontal sinus anatomy is highly variable and often complex. As a result, it is often challenging for the sinus surgeon to master understanding of the frontal sinus.

The Frontal Sinus Master's Class aims to help participants systematically review a variety of CT scans, from simple to complex, in all 3 planes. After reviewing the CT, the participant uses the building block method to determine the anatomy and drainage pathway of the frontal sinus.

The Course Faculty works with the participants to make and evaluate their own 3D conceptualization of the frontal sinus cells using tangible blocks, in a hands-on approach. The Course Faculty checks and provides feedback to help the participant improve their 3D Conceptualization.

Participants then compare their own 3D interpretation of the CT scan with the intra-operative video of the surgery performed on this patient, with stepwise removal of frontal sinus cells. The comparison of the participant's 3D Interpretation and the actual surgery re-enforces their ability to use the triplanar CT images to create a 3D anatomical picture, and to formulate their own plan for surgery.

LEARNING OBJECTIVES

After attending this workshop, otolaryngologists will:

1. Name common cellular configurations of frontoethmoidal cells that are relevant to frontal sinus surgery.
2. Assemble these 3D configurations using thebuilding blocks technique and understanding how this affects the frontal sinus drainage pathway.
3. Create a surgical plan for frontal recess dissection based on the elucidated frontoethmoidal cell anatomy.

**** EACH PRESENTATION WILL INLUDE A MINIMUM OF 25% OF THE TIME SET ASIDE FOR QUESTIONS FROM THE AUDIENCE**

ACCREDITATION

This activity is an Accredited Simulation Activity (Section 3) as defined by the Royal College of Physicians and Surgeons of Canada's Maintenance of Certification Program (MOC) as well as a Recognized Practice's Assessment Activity as defined by the Collège des médecins du Québec. This activity has been approved by the Continuing Professional Development Directorate (CPDD) of the Fédération des médecins spécialistes du Québec

You can declare a maximum of 14,5 hours in section 3 / Recognized Practice's Assessment Activity. Participants must claim a number of hours in accordance with the duration of their participation.

LOCATION: THE STEINBERG CENTRE FOR SIMULATION AND INTERACTIVE LEARNING AT MCGILL UNIVERSITY (3575, PARC AVENUE, SUITE 5640, MONTREAL, QC H2X 3P9)

WEDNESDAY, SEPTEMBER 11

8:00	Frontal Sinus Master's Class	
8:30	Model 1 Planning	Dissector A does left side and B does right side
9:00	Model 1 Open master of planning	Compare their plans to the master plan and correct any problems
9:15	Coffee	
9:45	Model 1 Left side dissection	Dissector A dissects and B watches
10:30	Model 1 Right side dissection	Dissector B dissects and A watches
11:15	Model 1 Demonstration	Dissection by faculty
11:55	Model 1 Video	Discussion & Debriefing
12:00	*Lunch*	
13:00	Anterior and Posterior Ethmoidectomy Sphenoidotomy Demonstration	Dissection by faculty
13:20	Model 3 Planning	Dissector A does right side and B does left side
13:50	Model 3 Open master of planning	Compare their plans to the master plan and correct any problems
14:00	Model 3 Left side dissection	Dissector B dissects and A watches
14:45	Model 3 Right side dissection	Dissector A dissects and B watches
15:30	Model 3 Video	Discussion & Debriefing
15:40	Coffee	
16:10	Frontal Drillout Demonstration	Dissection by faculty
16:40	Dacryocystorhinostomy Demonstration	Dissection by faculty
17:00	Dacryocystorhinostomy	Dissector A dissects and B watches
17:30	Dacryocystorhinostomy	Dissector B dissects and A watches
18:00	Faculty Thanks You and Pictures	

THURSDAY, SEPTEMBER 12

8:00	Model 4 Planning	Dissector A does left side and B does right side
8:30	Model 4 Open master of planning	Compare their plans to the master plan and correct any problems
8:45	Model 4 Left side dissection	Dissector A dissects and B watches
9:30	Model 4 Right side dissection	Dissector B dissects and A watches
10:15	Model 4 Video	Discussion & Debriefing
10:30	Coffee	
11:00	CSF leak Closure (Bath Plug Technique)	Demonstration: 20 min Dissection 40 min
12:00	Lunch	
13:00	Model 2 Open master of planning	Compare their plans to the master plan and correct any problems
13:45	Model 2 Left side dissection	Dissector B dissects and A watches
14:30	Model 2 Right side dissection	Dissector A dissects and B watches
15:15	Model 2 Video	Discussion & Debriefing
15:30	Wrap up and Debriefing	
16:00	Close of the course	

** During model dissections: Professors Demonstrations

Sphenopalatine Artery Ligation Vidian Neurectomy	Demonstration: 20 min
Endoscopic Medial Maxillectomy Infratemporal Fossa Dissection	Demonstration: 20 min
Endoscopic Approach to Sellar Region Transclival Approach	Demonstration: 20 min

PHOTOS
TOURISME MONTRÉAL,
MARC TEWFIK, BILL COYOTE