



PETER-JOHN WORMALD

North American Endoscopic Management of Vascular Injuries Workshop

September 14, 2017

LOCATION: McINTYRE 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

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IAN WITTERICK, ANTHONY ZEITOUNI

PLANNING COMMITTEE
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 event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program (MOC) of the Royal College of Physicians and Surgeons of Canada, and approved by the Continuing Professional Development Directorate (CPDD) of the Fédération des médecins spécialistes du Québec.

You may claim up to 7 hours for this activity (credits are automatically calculated in MAINPORT). In section 1 you can claim a maximum of 2,20 hours and 4,8 hours in section 3. Participation in this activity qualifies for a certificate of attendance. Participants should claim a number of hours consistent with their attendance.

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

THURSDAY, SEPTEMBER 14

7:45	Registration and coffee McIntyre Medical Building 6 th floor	12:15	Lunch
8:00	Welcome & Introduction DR. MARC A. TEWFIK & DR. NADER SADEGHI	13:15	ICA injury literature review DR. ROWAN VALENTINE
8:10	Carotid artery aneurysms during skull base surgery DR. ROWAN VALENTINE	14:00	Does training in endoscopic large vessel injury management affect patient outcome? PROFESSOR PETER-JOHN WORMALD
8:30	Vascular surgical steps in sheep model of vascular injury <ul style="list-style-type: none"> • Venous surgical steps • Arterial surgical steps PROFESSOR PETER-JOHN WORMALD	14:15	Move to lab and getting familiar with stations
8:50	Controlling the surgical field DR. MARC A. TEWFIK	14:30	Venous injuries <ul style="list-style-type: none"> • Drilling & exposure (10 min) • Injury creations (5 min) • Floseal sandwich (10 min) • Vascular clips (15 min) • Aneurysm-clips (30 min)
9:10	Move to lab and getting familiar with stations	15:45	Coffee break
9:20	Venous injuries <ul style="list-style-type: none"> • Drilling & exposure (10 min) • Injury creations (5 min) • Floseal sandwich (10 min) • Vascular clips (15 min) • Aneurysm-clips (30 min) 	16:15	Arterial Injuries <ul style="list-style-type: none"> • Drilling & exposure (10 min) • Injury creation (5 min) • Muscle patch (15 min) • Aneurysm-clips (30 min)
10:30	Coffee break	17:15	Debriefing
11:00	Arterial Injuries <ul style="list-style-type: none"> • Drilling & exposure (10 min) • Injury creation (5 min) • Muscle patch (15 min) • Aneurysm-clips (30 min) 	17:25	Closing remarks



MARC A. TEWFIK

North American Masterclass in Endoscopic Sinus Surgery September 15-17, 2017

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

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PETER-JOHN WORMALD

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PETER ANDREWS, JOE BRUNWORTH,
CLAUDIO CALLEJAS, PHILIP CHEN,
VERONICA LAO, DONALD LEOPOLD,
LUIS MACIAS-VALLE, CONSTANZA VALDES,
ROWAN VALENTINE, BOZENA WROBEL

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JOHN LEE, JOSEPH SCHWARTZ,
DORON SOMMER, RICKUL VARSHNEY,
ALLAN VESCAN, IAN WITTERICK

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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 led 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 INCLUDE 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)**

FRIDAY, SEPTEMBER 15		10:10	Coffee break with sponsors	13:50	Endoscopic Septal & Transseptal Surgery (incl. Choanal Atresia) DR. CONSTANZA VALDES	16:40	Endoscopic Approach to Pituitary and Sellar Tumors DR. MARC A. TEWFIK
7:00	Registration	10:30	Surgical treatment of CRS: Full House FESS concept DR. CLAUDIO CALLEJAS	14:10	Endoscopic Dacryocystorhinostomy DR. LUIS MACIAS-VALLE	17:10	Expanded Endonasal Approaches: An overview DR. ALLAN VESCAN
7:20	Welcome DR. MARC A. TEWFIK	10:50	Anesthetic Considerations in Sinus Surgery DR. VERONICA LAO	14:30	Endoscopic Orbital Surgery DR. DORON SOMMER	17:30	CSF Fistula Repair & Skull Base Reconstruction DR. ARIF JANJUA
7:30	Pathogenesis & Classifications of CRS DR. YVONNE CHAN	11:10	Frontal Recess and Frontal Sinus - Surgical Approaches DR. PHILIP CHEN	14:50	Avoiding and Managing Complications of FESS DR. BOZENA WROBEL	17:50	Close of the first day
7:50	The role of bacteria in CRS DR. MARTIN DESROSIERS	11:30	Modified Endoscopic Lothrop Procedure (MELP) PROFESSOR P-J WORMALD	15:10	Carotid Artery Injury Management DR. JOE BRUNWORTH	18:00	Bus transports course delegates
8:10	Medical/Topical therapies in CRS DR. JO SCHWARTZ	11:50	Preoperative and postoperative Management in sinus surgery DR. JOHN LEE	15:30	Coffee break with sponsors	18:30	Pre-dinner cocktail DUPOND & DUPONT
8:30	Office-based technologies in Rhinology DR. RICKUL VARSHNEY	12:10	Recalcitrant CRS (including revision surgery) DR. MARC A. TEWFIK	16:00	Endoscopic Management of Sinonasal Tumours DR. IAN WITTERICK	19:30	Conference dinner DUPOND & DUPONT
8:50	Balloon Sinuplasty DR. PETER ANDREWS	12:30	Lunch	16:20	Endoscopic Approach to the Infratemporal Fossa PROFESSOR P-J WORMALD	22:00	Bus transports course delegates back to Hotel
9:10	Surgical Sinonasal Anatomy and Radiology DR. ROWAN VALENTINE & PROFESSOR P-J WORMALD	13:30	Disorders of olfaction DR. DONALD LEOPOLD				

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 the building 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.

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

SATURDAY, SEPTEMBER 16

7:30	Frontal Sinus Master's Class	
9:30	<i>Coffee with sponsors</i>	
10:00	Maxillary Antrostomy Canine Fossa Trephination Inferior Turbinoplasty	Demonstration: 20 min Dissection: 60 min
11:20	Frontal Recess Dissection - Axillary Flap Technique Frontal Sinus Trephination	Demonstration: 20 min Dissection: 60 min
12:40	<i>Lunch</i>	
13:45	Endoscopic Septoplasty, Nasoseptal Flap	Demonstration: 15 min Dissection: 30 min
14:30	Anterior and Posterior Ethmoidectomy Sphenoidotomy	Demonstration: 20 min Dissection: 40 min
15:30	Dacryocystorhinostomy	Demonstration: 20 min Dissection: 60 min
16:50	<i>Coffee with sponsors</i>	
17:20	Endoscopic Orbital Decompression Optic Nerve Decompression Lateral Canthotomy and Cantholysis	Demonstration: 20 min Dissection: 60 min
18:40	Debriefing	
18:50	<i>Close of first day</i>	

SUNDAY, SEPTEMBER 17

8:00	Sphenopalatine Artery Ligation Vidian Neurectomy	Demonstration: 20 min Dissection: 50 min
9:10	Endoscopic Medial Maxillectomy Infratemporal Fossa Dissection	Demonstration: 20 min Dissection: 50 min
10:20	<i>Coffee with sponsors</i>	
10:50	CSF leak Closure (Bath Plug Technique)	Demonstration: 20 min Dissection: 50 min
12:00	<i>Lunch</i>	
13:00	Endoscopic Approach to Sellar Region	Demonstration: 20 min Dissection: 40 min
14:00	Endoscopic Transcribiform Approach	Demonstration: 20 min Dissection: 40 min
15:00	Transclival Approach	Demonstration: 20 min Dissection: 40 min
16:00	Debriefing	
16:10	<i>Close of the Course</i>	