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. Review endoscopic and radiologic sino-nasal anatomy, as well as pathophysiologic concepts of various common nasal diseases;
2. Become familiar with 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. Be able to discuss the indications and contraindications of advanced ESS techniques;
4. Become familiar with the instrumentation required;
5. Be able to discuss the postoperative management after ESS.

CME ACCREDITATION

The 2015 edition was accredited for category 1 and 3 MOC credits.

COURSE CURRICULUM

LOCATION: DEGRANDPRE COMMUNICATIONS CENTER, MONTREAL NEUROLOGIC INSTITUTE
(3801, UNIVERSITY STREET, MONTREAL, QC H3A 2B4)

FRIDAY, SEPTEMBER 15

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

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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. Review the nomenclature and common cellular configurations of frontoethmoidal cells that are relevant to frontal sinus surgery.
2. Practice reconstructing these 3D configurations using the building blocks technique and understanding how this affects the frontal sinus drainage pathway.
3. Develop a surgical plan for frontal recess dissection based on the elucidated frontoethmoidal cell anatomy.

LOCATION: THE ARNOLD AND BLEMA STEINBERG MEDICAL SIMULATION CENTRE OF McGill University
(3575, PARC AVENUE, SUITE 5640, MONTREAL, QC H2X 3P9)

SATURDAY, SEPTEMBER 16

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

SUNDAY, SEPTEMBER 17

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