## DR. AMIN KASSAM INVITES YOU TO ATTEND

## THE NEW

360° Minimally Invasive Surgery Endoscopic Endonasal Course – Pituitary/Skull Base Approaches

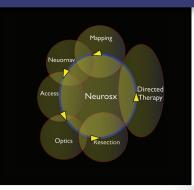
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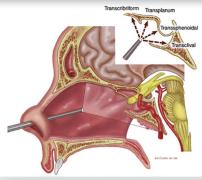
Introducing the "SMART Systems" Approach for Minimally Invasive Access to Subcortical Lesions –The Brainport

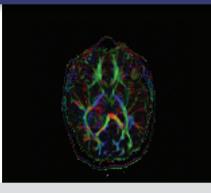
**May 31-June 3, 2012** 

WITH EMPHASIS ON Surgical Biometrics Resource Optimization

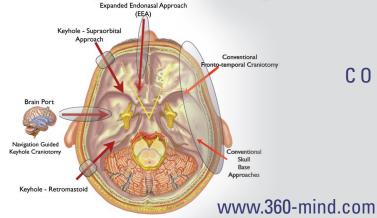
University of Ottawa
Skills and Simulation Centre
Ottawa, Canada







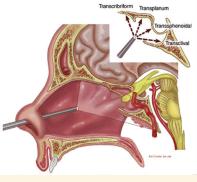
# Introducing the Six Pillar Approach for Comprehensive Management of Subcortical Lesions

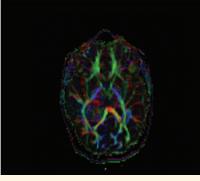


## COURSE DIRECTORS

Amin B. Kassam
Charles Agbi
Martin Corsten
Andre Lamothe







#### COURSE DESCRIPTION

With the recent evolution of innovative biotechnology there is a progressive convergence of these technologies to manage pathology affecting the sella, skull base and more recently the intraaxial subcortical white matter space. The confluence of these technologies has led to development of minimally invasive strategies via progressively smaller surgical corridors to reach and treat the lesion in a targeted manner. There is both a clinical and economical need to integrate these technologies and establish their value in delivering precise targeted treatment in an efficient manner while articulating these benefits through **Surgical Biometrics**.

While individual techniques and technologies have emerged the field is at stage, where integration into a systems approach that leads to a user-friendly method is needed to realize the full potential of each disparate component. This course takes the **six pillars** of Neurosurgical Innovation (Mapping, Navigation, Optics, Access, Resection and Targeted Therapy/Neoadjuvant) and offers a systems solution ("SMART Systems Approach"). The participant will be exposed systematically to each of these pillars or core competencies, in an effort to build a personalized delivery system that will create a template/guide for selecting the approach and technology required to treat the specific lesion in a targeted precise fashion, with measurable outcomes — biometrics.

In addition, given the health care economic environment there will be an additional focus on the field of Surgical Biometrics. This is a rapidly emerging field that focuses on the impact and value added of surgical technologies. The participant will be exposed to the factors that affect surgical efficiency, patient flow, and impact on health system economics; this will allow for a critical assessment of the value added by any technology or system into a tangible deliverable, which is critical to the adaption and acquisition process.

This comprehensive course will cover current indications, limitations and surgical techniques for endoscopic endonasal surgery of the **skull base**, **pituitary fossa**, **orbit and craniocervical junction**. The course will also cover the indications, limitations and surgical techniques for an evolving field of **intraaxial subcortical** surgery using white matter mapping/tractography and the use of the brainport access system and the more recent **exoscope** (not endoscope) optics platform.

Our faculty will present the technical nuances and technological requirements of these surgeries, using a modular anatomical system that can be translated to the dissection laboratory. Current indications, advantages, limitations and outcomes will be discussed. The course comprises a sequence of complementary didactic lectures, prosections, 3-D anatomical reviews and 6 hands-on cadaver dissection. Two live surgical demonstrations (one for the endonasal approach and one for the "SMART Systems"/Brainport) will be scheduled pending logistical availability. These will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

THE COURSE FEATURES 6 HANDS-ON DISSECTION LAB SESSIONS.

#### COURSE OBJECTIVES

#### At the conclusion of this activity, participants should be able to:

#### **Pituitary/ Skull Base**

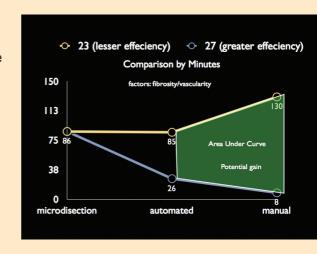
- 1. Understand the anatomic relationships of the sinonasal tract, orbit and ventral skull base from the endoscopic perspective (approach corridors)
- Understand the indications and limitations of the sagittal plane expanded endonasal corridors to access the ventral skull base from the anterior skull base/pituitary fossa to the craniocervical junction)
- 3. Identify the indications and limitations of the coronal (paramedian) plane, expanded endonasal corridors to access: orbit, pterygopalatine, infratemporal fossa and parapharyngeal space)
- 4. Understand how to avoid and treat complications of endoscopic endonasal surgery of the skull base
- 5. Develop an effective strategy for tailored reconstruction using state of the art vascularized techniques
- 6. Assimilate and organize the corridors in concert with those afforded by conventional and minimally invasive lateral approaches, such as the keyhole surgery
- 7. Synthesize the principles of the extraaxial (ventral endonasal and lateral conventional/minimally invasive) corridors "360° corridor surgery"

#### **Subcortical Intraaxial**

- 8. Describe the evolving technology platforms of white matter fascicular mapping and subcortical anatomy (diffusion tensor imaging)
- 9. Understand the technique and current limitations to accessing the lesions
- 10. Develop a strategy to treat these lesions via targeted surgical brainport corridors
- 11. Understand the principles and limitations of selecting the optimal subcortical corridor
- 12. Identify the current immune targeted molecular treatments available and the potential ability to deliver these in situ "6th Pillar."

#### **Surgical Biometrics**

- 13. Understand the "SMART Systems" approach that provides an integration and assembly of the six pillars of innovative technologies to guide tailored corridors for specific sella, skull base and subcortical lesion.
- Describe the efficiency factors that impact Surgical Biometrics analysis.
- Understand the resource needs for translating technology into clinical practice and value added analysis.



#### FACULTY Course Directors

Amin B. Kassam, MD, FRCS(c)

Professor and Chief/Head

**Division of Neurosurgery** 

University of Ottawa

Ontario, Canada

Martin Corsten, MD, FRCS(c)

Associate Professor

Chairman, Department of Otolaryngology

University of Ottawa

Ontario, Canada

Charles Agbi, MD, FRCS(c)

**Associate Professor** 

**Department of Neurosurgery** 

University of Ottawa

Ontario, Canada

Andre Lamothe, MD, FRCS(c)

**Assistant Professor** 

Department of Otolaryngology

University of Ottawa

Ontario, Canada

#### **GUEST FACULTY**

#### Ricardo L. Carrau, MD, FACS

Professor

Department of Otolaryngology -

Head & Neck Surgery

OSUCCC - James

Columbus, Ohio

#### Daniel M. Prevedello, MD

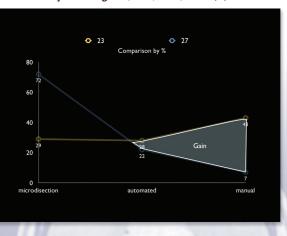
**Assistant Professor** 

Department of Neurological Surgery

OSUCCC - James

Columbus, Ohio

#### Nancy McLaughlin, MD, PhD, FRCS(c)



#### UNIVERSITY OF OTTAWA FACULTY

#### Vasco F. Da Silva, MSc, MD, FRCSC, FACS

**Assistant Professor** 

Department of Neurosurgery

University Of Ottawa

Ontario, Canada

#### Steven M. Gilberg, MD, FRCSC

Associate Professor

Chairman and Head of Ophthalmology

University of Ottawa Eye Institute, TOH

Ontario, Canada

#### Thanh B. Nguyen, MDCM, FRCPC

Assistant Professor

Department of Radiology

University Of Ottawa

Ontario, Canada

#### Vivek Patel, MD

**Assistant Professor** 

Department of Ophthalmology

University Of Ottawa Eye Institute

Ontario, Canada

TARGET AUDIENCE: Neurosurgeons, otolaryngologists-head and neck surgeons and other skull base/oncology surgeons who are interested in learning endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and craniocervical junction. Neurosurgeons and neuroradiologists interested in developing further knowledge of subcortical intraaxial space and white matter tractography and hospital administrators interested in surgical biometrics and resource optimization.

## AGENDA

## Thursday, May 31, 2012 • DAY 1

7:00 a.m.	Registration and Continental Breakfast
7:45	Welcome and Course Overview
8:00	Surgical Biometrics 101: Operative Efficiency and Precision Profiles – The Voice of Change!  Amin Kassam
8:30	Level I and II Approaches: The Endonasal Corridor – Ricardo Carrau
9:00	Principles of Endoscopic Endonasal Expanded Approaches – Amin Kassam
9:30	Modular Classification System of Endonasal Approach – Amin Kassam
10:00	Break
10:15	Reconstruction: Vascularized Nasal Flaps (Nasoseptal Flap, Lateral Nasal Flap, Turbinate Flaps and Free Flaps) – <i>Ricardo Carrau, Martin Corsten</i>
11:00	Approaches to the Sella and Parasellar Regions – Daniel Prevedello
11:30	Lunch Lecture: Sagittal Plane Modules I: Pituitary, Trans-planum, and Trans-cribiform  Amin Kassam
12:30 p.m.	Live Endonasal Surgical Case — Amin Kassam, Martin Corsten Commentary: Charles Agbi, Andre Lamothe, Ricardo Carrau, Daniel Prevedello
5:00	End of Day 1

Commentary: Charles Agbi, Andre Lamothe, Ricardo Carrau, Daniel Prevedello				
5:00	End of Day 1			
Friday, June 1, 2012 • DAY 2				
7:00 a.m.	Continental Breakfast			
7:15	<b>Lab 1</b> (Level I-II) – Anatomical Prosection: Flaps and the Sagittal Plane: Trans-sellar, Trans-planum, Trans-cribiform Approaches – <i>Amin Kassam, Martin Corsten, Charles Agbi</i>			
8:45	Lab 1 Anatomical Dissection Level I-II			
11:45	Lunch Lecture: Craniofacial Resection of Sinonasal Malignancy – Ricardo Carrau			
12:15 p.m.	3-D Endoscopic Skull Base Anatomy: The Sagittal Plane — Daniel Prevedello			
1:00	Sagittal Plane Modules II: Pituitary Transposition, Trans-clival, Trans-odontoid – Amin Kassam			
1:45	Break			
2:00	Lab 2 Prosection: Sagittal Plane II: Pituitary Transposition Trans-clival  Amin Kassam, Martin Corsten			
2:30	Lab 2 Anatomical Dissections: Sagittal Plane II – Pituitary Transposition Trans-clival			
4:00	<b>Lab 3</b> Prosection: Sagittal Plane II: Trans-odontoid Craniocervical Junction <i>Daniel Prevedello, Charles Agbi, Ricardo Carrau, Amin Kassam</i>			
4:30	Lab 3 Anatomic Dissection: Sagittal Plane II: Craniocervical Junction			
6:00	End of Day 2			
7:00	Course Dinner and Lecture The 6 Pillars of Neurosurgical Innovation: Integration and			

Application to Minimally Invasive Neurosurgery – A Systems Approach – Amin Kassam

# AGENDA

## Saturday, June 2, 2012 • DAY 3

7:00 a.m.	Continental Breakfast
7:15	Anatomical Basis for the Transpterygoid Approaches – Ricardo Carrau
8:00	3-D Endoscopic Skull Base Anatomy: Coronal Plane — Daniel Prevedello
8:30	Coronal Plane Modules – Amin Kassam
9:15	Break
9:30	Lab 4 Anatomical Prosection: Coronal Plane – Amin Kassam, Ricardo Carrau
10:15	Lab 4 Anatomical Dissections: Coronal Plane
12:30 p.m.	Lunch Lecture: Prevention and Management of Neurosurgical Complications  Amin Kassam
1:30	Lab 5 Prosection: Infratemporal Fossa, Parapharyngeal Space Amin Kassam, Daniel Prevedello, Ricardo Carrau, Martin Corsten
2:00	Lab 5 Anatomical Dissection: Infratemporal Fossa, Parapharyngeal Space
4:00	Break
4:15	Brainport: Principles of Intraaxial White Matter Corridor Surgery – Amin Kassam
5:00	Neuroradiological Principles and Anatomy of the Subcortical Intraaxial Space and White Matter Fascicles – <i>Thanh Nguyen</i>
6:00	Surgical Biometrics 102: Principles of Value Added Analysis & Hospital Efficiency/ Patient Flow – <i>Amin Kassam</i>
6:30	End of Day 3

## Sunday, June 3, 2012 • DAY 4

7:30 a.m.	Continental Breakfast
8:00	Principles of White Matter Corridors – Vasco Da Silva
8:15	Live Brainport Intraaxial Surgery — <i>Amin Kassam</i> Commentary: <i>Vasco Da Silva, Charles Agbi</i>
12:00	Lunch Lecture: Final Frontier: 360-Degree Minimally Invasive Brain Surgery – A Concept & Philosophy – <i>Amin Kassam</i>
1:00	Lab 6 Anatomic Dissections: Intraaxial Brainport
4:00	Adjourn

## COURSE LOCATION



A block of rooms has been reserved at:

#### **Fairmont Château Laurier**

1 Rideau Street Ottawa, Ontario Canada K1N 8S7 Tel +1 613 562 7079

Fax +1 613 562 7033 www.fairmont.com

Simulation Centre
725 Parkdale Avenue 1st Floor
Ottawa ON K1Y4E9
Canada

**University of Ottawa Skills and** 



#### HOTEL RESERVATIONS

Call 1-800-441-1414 and mention the "Kassam Course" to get a special rate of \$219 per night (Canadian) plus taxes. Cutoff date to get the special rate is April 30, 2012.

Transportation will be provided each day from the Fairmont Chateau Laurier to the course.

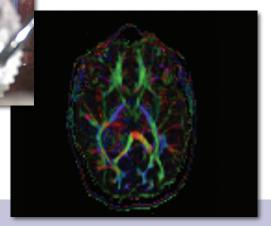
#### ACCREDITATION

The University of Ottawa's Office of Continuing Medical Education is accredited by the Committee on Accreditation of Continuing Medical Education (CACME) to provide accredited CME activities for family physicians and specialists. This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada for up to **35.75** credits. Through an agreement with the U.S. Accreditation Council for Continuing Medical Education, it is also accredited for **35.75** AMA PRA Category 1 Credits<sup>TM</sup> towards the Physicians' Recognition Award of the American Medical Association (AMA). Physicians should claim only credit commensurate with the extent of their participation in the activity.

#### REFUNDS

Cancellations must be received in writing by March 15, 2012 and will be subject to a \$200 processing fee. No refunds will be given after that date. Academic Event Management reserves the right to cancel,

discontinue or reschedule this program at any time and will assume no financial obligation to the registrants in the event of a cancellation. In case of cancellation, registration fees will be refunded in full.



#### **ACKNOWLEDGEMENT**

This course is supported in part by educational grants from the following companies at press time: Stryker Canada, Karl Storz Endoscopy Canada, Medtronic, KLS Martin Group, NICO Corporation, Integra, Biomet Microfixation.

This educational course will involve the presentation of a medical device that is approved for market distribution in Canada but pending approval for market distribution in the United States.

## REGISTRATION

# 360° Minimally Invasive Surgery Endoscopic Endonasal Course – Pituitary/Skull Base Approaches

### TUITION (USD):

\$3,000 - Lectures & 6 Labs • \$5,000 - Team of 2 • \$1,500 - Didactic Only \$1,500 - Hospital Administrators

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