DRS. KASSAM, CORSTEN AND AGBI INVITE YOU TO ATTEND

INTRODUCING

"6 Pillar Approach"

Parafascicular Surgery of the White Matter:

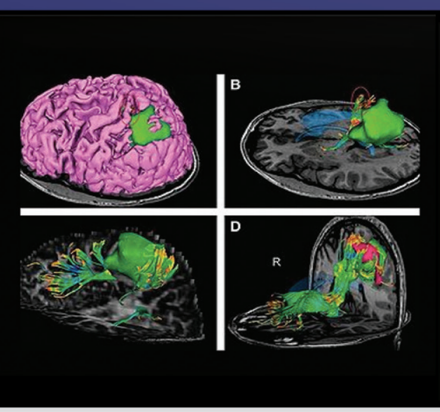
Access to Intraaxial Subcortical White Matter Pathology

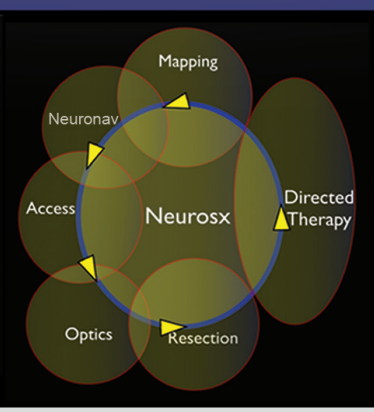
WITH EMPHASIS ON

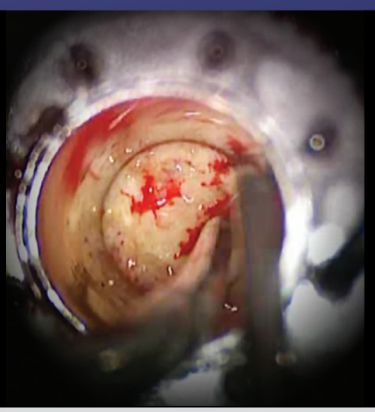
Economic Resource Optimization Through Surgical Biometrics

November 3-4, 2012

University of Ottawa
Skills and Simulation Centre
Ottawa, Canada







The 6 Pillar Approach for Comprehensive Management of Subcortical Lesions

Parafascicular Surgery of the White Matter

COURSE DIRECTORS

Amin B. Kassam
Charles Agbi
Martin Corsten

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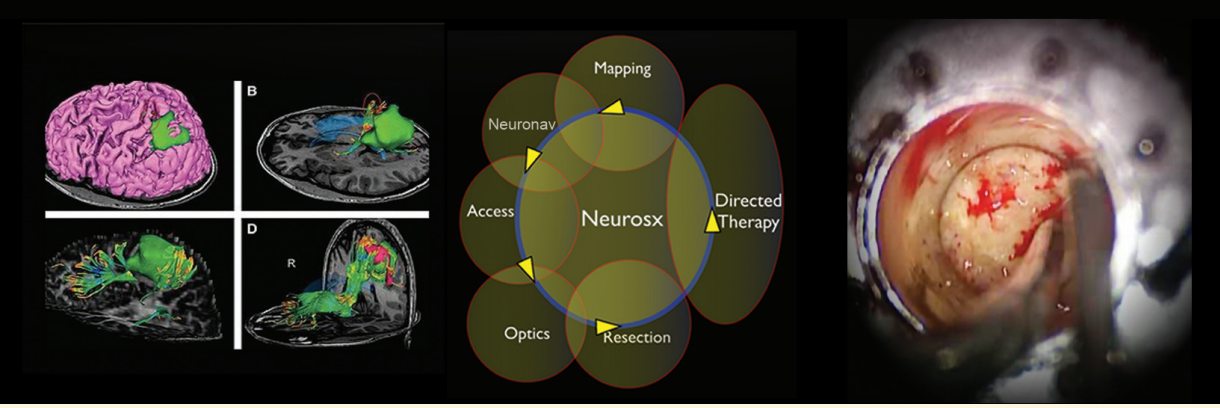


COURSE DESCRIPTION

The 6 Pillar Approach is the result of a recent convergence of technologies to manage abnormalities affecting the intraaxial subcortical white matter space. This confluence of technologies has led to development of minimally invasive strategies via progressively smaller surgical corridors to reach and treat abnormalities in a targeted manner. Integration of these technologies is driven by a need to establish clinical and economic value in the delivery of precise targeted treatment in an efficient manner. This value is articulated through **Surgical Biometrics.**

While individual techniques and technologies have been in existence, the field has evolved to a stage where integration of these technologies into a systems approach is needed to realize the full potential of each disparate component. This course takes **The 6 Pillars** (Mapping, Navigation, Optics, Access, Resection and Targeted Therapy/Neoadjuvant) and offers a **System Approach.** The participant will be exposed systematically to each of these Pillars, in an effort to build a personalized system that will create a template/guide for selecting the approach and technology required to treat the specific lesion in a targeted fashion.

Specifically, the course will cover the indications, limitations and surgical techniques that comprise **The 6 Pillar Approach** for an evolving field within the intraaxial subcortical **parafascicular** surgery of the white matter. Technologies such as white matter mapping/tractography, brain port access systems and the **exoscope** (not endoscope) optics platform will be discussed. 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. The course comprises a sequence of complementary didactic lectures, prosections, simulation planning and 3-D anatomical reviews. A **live** surgical demonstration of **The 6 Pillar Approach** for **parafascicular** surgery of the white matter is scheduled. It will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

Finally, given the health care economic environment there will be an additional focus on **Surgical Biometrics.** This is a rapidly emerging field that focuses on the impact and value added from 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 into a tangible outcome which is a critical step to the Value Analysis Process within every Healthcare System.

The Course Features a Hands-on Simulation Lab Session and Live Surgery.

COURSE OBJECTIVES

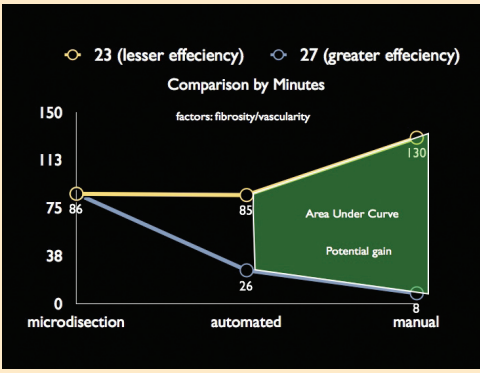
At the conclusion of this activity, participants should be able to:

Parafascicular Surgery of the Subcortical Intraaxial Space:

1. ***Mapping***
   - Describe and integrate the evolving technology platforms of white matter fascicular mapping and subcortical anatomy (diffusion tensor imaging)
   - Gain exposure to new concepts/platforms in cellular imaging
2. ***Navigation***
   - Learn techniques/nuances critical to subcortical trajectory planning
   - Understand current limitations of Navigation systems for subcortical planning
   - Gain exposure to evolving platforms to significantly enhancing trajectory and targeting
3. ***Access***
   - Become familiar with principles and techniques of optimum cannulation pathways – **Parafascicular** Surgery
   - Understand the differences between cannulation of firm and soft tumors, primary and metastatic lesions
4. ***Optics***
   - Understand the limitation of current optics platforms (microscope/endoscope)
   - Gain exposure to the advantages (depth of field and tissue differentiation) the Exoscope
5. ***Resection***
   - Understand the value of automation during resection to optimize safety and efficiency
   - Understand the requirements of automation for MIS corridors
   - Gain familiarity of the techniques of automation to improve performance curves and efficiency during resection phase for both MIS and conventional craniotomy corridors
6. ***Directed Therapy***
   - Appreciate the complementary role of cytoreduction towards more definitive neoadjuvant therapy
   - Learn techniques to optimize tissue capture and viability
   - Understand the principles and limitations of current drug therapies and delivery systems
   - Identify the current immune targeted molecular treatments available and the potential ability to deliver these in situ – **"The 6th Pillar"**
   - Understand the principles of progenitor cell targeted therapy
7. ***Salvage Approaches***
   - Understand limitations of corridor brain port approaches
   - Develop salvage strategies in the event of intraoperative challenges
8. ***ICH***
   - Understand the applications and techniques for intracerebral hemorrhage
   - Understand the role of early **parafascicular** surgery for ICH
   - Appreciate the biological and economic value of early surgical intervention
   - Appreciate the value of the 6 pillar **parafascicular** approach for ICH in comparison to other forms of surgical interventions

Surgical Biometrics

9. • Describe the efficiency factors that impact **Surgical Biometrics** analysis
10. • Understand the resource needs for translation of technology into clinical practice and how to articulate this within the value analysis process within your Healthcare System
11. • Empower the participant with the knowledge and facts required to successfully navigate their institution's capital acquisition process



FACULTY Course Directors

Amin B. Kassam, MD, FRCS(c)
Professor and Chief/Head
Division of Neurosurgery
University of Ottawa
Ontario, Canada

Charles Agbi, MD, FRCS(c)
Associate Professor
Department of Neurosurgery
University of Ottawa
Ontario, Canada

Martin Corsten, MD, FRCS(c)
Associate Professor
Chairman, Department of Otolaryngology
University of Ottawa
Ontario, Canada

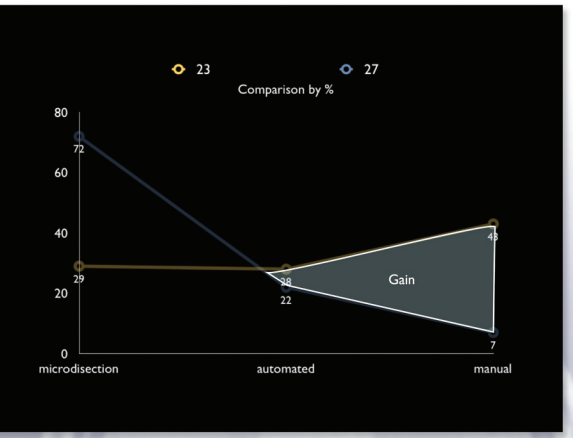
UNIVERSITY OF OTTAWA FACULTY

Vasco F. Da Silva, MSc, MD, FRCSC, FACS
Assistant Professor
Department of Neurosurgery
University of Ottawa
Ontario, Canada

Thanh B. Nguyen, MDCM, FRCPC
Assistant Professor
Department of Radiology
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

Vivek Patel, MD
Assistant Professor
Department of Ophthalmology
University of Ottawa Eye Institute
Ontario, Canada



TARGET AUDIENCE: Neurosurgeons, Neuroradiologists and Neurologists interested in developing further knowledge of subcortical intraaxial space and white matter tractography as well as an interest in surgical biometrics and resource optimization.

AGENDA

Friday, November 2, 2012

7:00 p.m.	Welcome Reception – Fairmont Château Laurier

Saturday, November 3, 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*
8:45	Introduction of **A Systems Approach:** Principles of Integrating the 6 Pillars for Parafascicular White Matter Minimally Invasive Subcortical Access *Amin Kassam*
9:45	Break
10:00	**Live Surgery:** Subcortical Approach Commentary: *Vasco Da Silva, Charles Agbi*
12:00 p.m.	Lunch
12:30	**Lunch Lecture: Pillar 1:** Principles of White Matter Mapping and Anatomy *Thanh Nguyen*
1:30	**Pillar 2:** Integration with Navigation: Nuances of Trajectory Planning/Optimization – *Amin Kassam*
2:00	**Pillar 3:** Principles and Pitfalls of Cannulation – The Lessons Learned *Amin Kassam*
2:30	**Lab 1** – Simulation and Hands-on Workshop • Planning Trajectories • Cannulation • Access
5:00	End of Day 1
6:30	Course Dinner
7:00	**Dinner Lecture:** Surgical Biometrics 102: Principles of Value Added Analysis & Hospital Efficiency/Patient Flow – *Amin Kassam* Fairmont Château Laurier

AGENDA

Sunday, November 4, 2012 • DAY 2

7:30 a.m.	Continental Breakfast
8:00	**Pillar 4: Optics:** Understanding the Advantages of Existing and Evolving Optics Platforms – *Amin Kassam* • Microscope • Endoscope • Exoscope • 3-D platforms • Role of Non-optic Platforms
9:00	**Pillar 5:** Optimizing Efficiency and Precision During all Phases of Resection – Impact of Automation and the Lessons Learned from Ophthalmology – *Amin Kassam* • Ablative Energy Sources • Automated Mechanical Instrumentation • Manual Mechanical Instrumentation
10:15	Break
10:30	Management of Intracerebral Hemorrhage – *Amin Kassam*
11:00	**Lab 2** – Hands-on Simulation/Workshop **A. Pillar 1:** Pre Planning & Mapping **B. Pillar 2:** Navigation **C. Pillar 3:** Optics **D. Pillar 4:** Access **E. Pillar 5:** Resection
12:30 p.m.	Lunch
1:00	**Lunch Lecture:** Final Frontier: 360-Degree Minimally Invasive Brain Surgery – A Concept & Philosophy (Conventional, Endonasal, White Matter Surgery) – *Amin Kassam*
4:00	**Pillar 6:** Directed Therapy and Tissue Harvest – Primer on Existing Pharmacotherapy and Progenitor/Stem Cell Therapy – *Amin Kassam*
4:30	**Wrap Up**
5:00	Adjourn

COURSE LOCATION

University of Ottawa Skills and Simulation Centre

725 Parkdale Avenue 1st Floor
Ottawa ON K1Y4E9
Canada

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

HOTEL RESERVATIONS

Call 1-800-441-1414 and mention the "6 Pillar Course" to get a special rate of $189 per night (Canadian) plus taxes. Cutoff date to get the special rate is October 2, 2012.

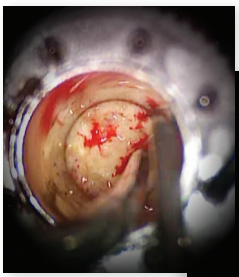
Transportation will be provided each day from the Fairmont Chateau Laurier to the course.

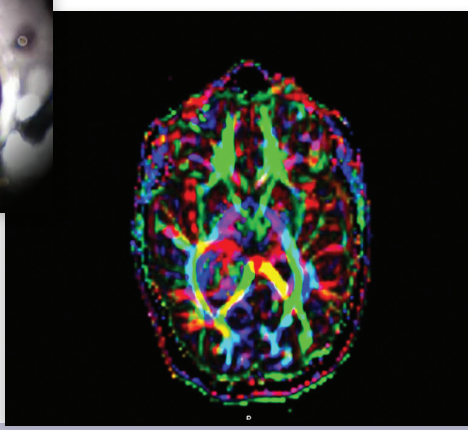
ACCREDITATION

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 **17** credits. Through an agreement with the U.S. Accreditation Council for Continuing Medical Education, it is also accredited for **17** *AMA PRA Category 1 Credits™* 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 October 1, 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.

Use of the NICO BrainPath is limited to the following indication for use:

To provide access and visualization of the surgical field during brain and spinal surgery.

REGISTRATION

The 6 Pillar Approach for Comprehensive Management of Subcortical Lesions

November 3-4, 2012

TUITION (USD): $1,900

TEAM OF 2: $3,400

Space is limited! Please print clearly.

SPECIALTY DEGREE

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