DRS. KASSAM, CORSTEN AND AGBI INVITE YOU TO ATTEND

INTRODUCING

"6 Pillar Approach"

Parafascicular Surgery of the White Matter:

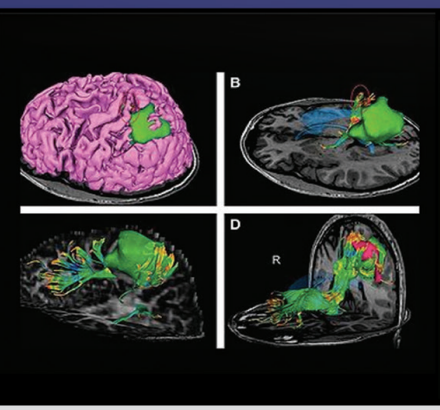
Access to Intraaxial Subcortical White Matter Pathology

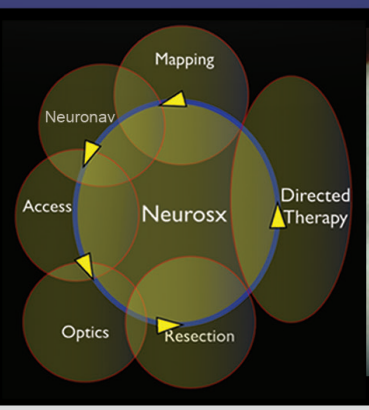
WITH EMPHASIS ON

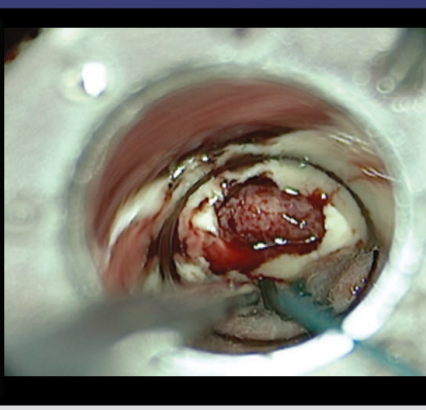
Economic Resource Optimization Through Surgical Biometrics

September 6-8, 2013

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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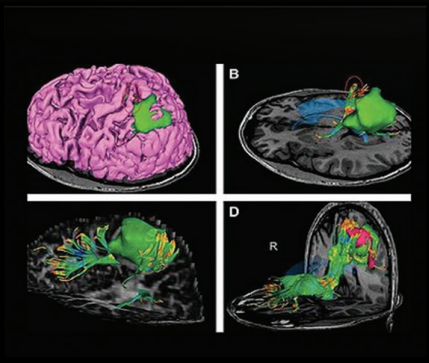
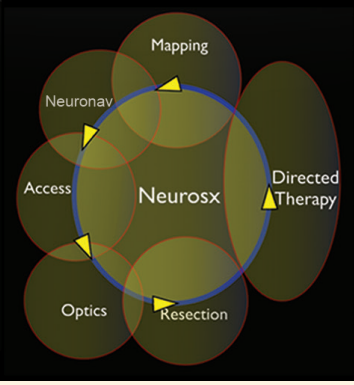
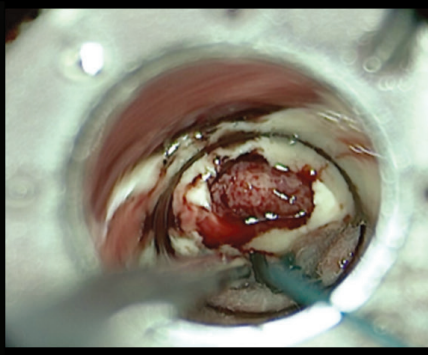






COURSE DESCRIPTION

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

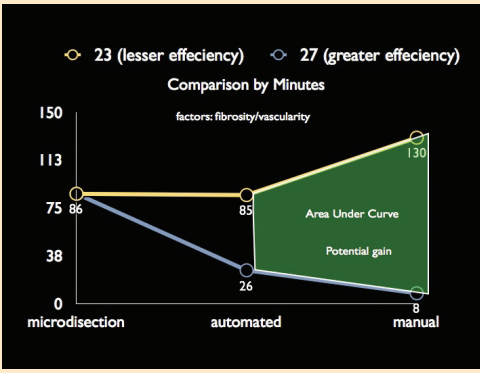
At the conclusion of this activity, participants should be able to:

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)
   - Apply the new concepts/platforms in cellular imaging
2. ***Navigation***
   - Learn techniques/nuances critical to subcortical trajectory planning
   - Explain the current limitations of Navigation systems for subcortical planning
   - Identify the evolving platforms to significantly enhancing trajectory and targeting
3. ***Access***
   - Define the principles and techniques of optimum cannulation pathways – **Parafascicular** Surgery
   - Recall the differences between cannulation of firm and soft tumors, primary and metastatic lesions
4. ***Optics***
   - Define the limitation of current optics platforms (microscope/endoscope)
   - Determine the advantages (depth of field and tissue differentiation) the Exoscope
5. ***Resection***
   - Define the value of automation during resection to optimize safety and efficiency
   - Recognize the requirements of automation for MIS corridors
   - Apply the techniques of automation to improve performance curves and efficiency during resection phase for both MIS and conventional craniotomy corridors
6. ***Directed Therapy***
   - Explain the complementary role of cytoreduction towards more definitive neoadjuvant therapy
   - List techniques to optimize tissue capture and viability
   - Recognize 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"**
   - Interpret the principles of progenitor cell targeted therapy
7. ***Salvage Approaches***
   - List the limitations of corridor brain port approaches
   - Describe salvage strategies in the event of intraoperative challenges
8. ***ICH***
   - Evaluate the applications and techniques for intracerebral hemorrhage
   - Discuss the role of early **parafascicular** surgery for ICH
   - Describe the biological and economic value of early surgical intervention
   - Explain 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. • Assess 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. • Navigate their institution's capital acquisition process



FACULTY Course Directors

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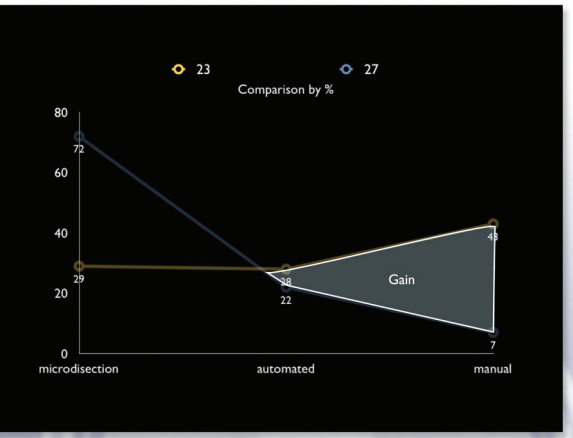


TARGET AUDIENCE: Neurosurgeons, Neuroradiologists and Neurologists interested in developing further knowledge of subcortical intraaxial space and white matter tractography as well as an interest in surgical biometrics and resource optimization.

AGENDA

Friday, September 6, 2013

12:00 pm	Registration and Lunch
12:30	Welcome and Introduction **A Systems Approach: Principles Integrating the 6 Pillars for Parafascicular White Matter Minimally Invasive Subcortical Access** – *Amin Kassam*
1:15	**Pillar 1: Principles of White Matter Mapping and Anatomy** – *Thanh Nguyen*
2:15	**Live Surgery: Subcortical Approach** *Commentary: Vasco Da Silva, Charles Agbi*
5:00	**Live Surgery Review and Discussion: Application of Pillars in Clinical Practice** *Faculty*
5:30	End of Day 1
6:30	Course Dinner – Fairmont Château Laurier

Saturday, September 7, 2013

7:00 am	Continental Breakfast
7:30	**Pillar 1: Review of Imaging/Mapping to Optimize Tissue Differentiation**
9:00	**Pillar 2: Navigation: Nuances of Trajectory Planning/Optimization** *Amin Kassam*
10:00	Break
10:15	**Pillar 3: Optics: Understanding the Role of Existing and Evolving Optics Platforms** – *Amin Kassam* • Microscope • Endoscope • Exoscope • 3-D platforms • Role of Non-optic Platforms
11:00	**Pillar 4: Access:** • Radial Corridors • Principles and Pitfalls of Cannulation – The Lessons Learned
11:45	Lunch
12:15 pm	**Lab 1** – Navigation, Optics & Access

AGENDA

Saturday, September 7, 2013, continued

2:15	**Pillar 5: Resection: Understanding the Role of Existing and Emerging Automated Resection Platforms – Optimizing Efficiency and Precision Through Automation – Lessons Learned from Ophthalmology** – *Amin Kassam* • Ablative Energy Sources • Automated Mechanical Instrumentation • Manual Mechanical Instrumentation
3:15	Break
3:30	**Lab 2** – Resection Techniques
5:30	Lab Adjourns
6:00	Wrap Up and Questions End of Day 2: Dinner on Your Own

Sunday, September 8, 2013

7:00 am	Continental Breakfast
7:30	**Surgical Biometrics 101: Operative Efficiency and Precision Profiles – The Voice of Change!** – *Amin Kassam* • Optimizing Efficiency and Precision During all Phases of Resection – Impact of Automation and the Lessons Learned from Ophthalmology
8:30	**Surgical Biometrics 102: Entering the New Health Care Economics: The Era of Disease State Management** – *Amin Kassam* • Case Study: Introduction to MIS ICH Application Utilizing the Six Pillar Approach
9:30	Break
9:45	**Lab 3** – 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**
11:45	**Pillar 6: Directed Pharma Therapy** • Evolving Role of Progenitor/Glioma Inducing Cell Therapy
12:30 pm	Open Discussions/Case Reviews
1:00	Wrap Up and 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 +1 613 241 1414
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 August 5, 2013.

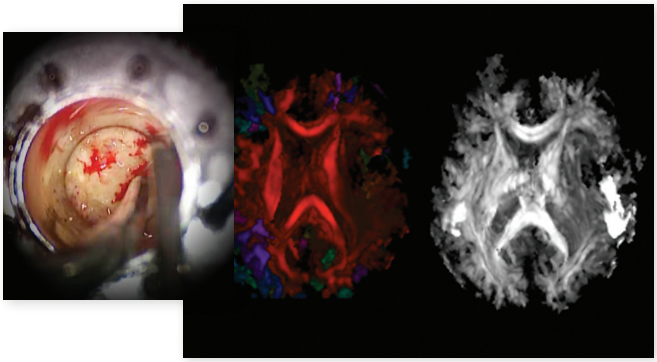
Transportation will be provided each day from the Fairmont Chateau Laurier to the course.

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 **19.5** credits. Through an agreement with the U.S. Accreditation Council for Continuing Medical Education, it is also accredited for **19.5** *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

No refunds will be given if a registration is cancelled.



ACKNOWLEDGEMENT

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

REGISTRATION

The 6 Pillar Approach for Comprehensive Management of Subcortical Lesions

September 6-8, 2013

TUITION (USD): $1,900

TEAM OF 2: $3,400

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SPECIALTY DEGREE

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