Endonasal & Keyhole Surgery Course

360-DEGREE MINIMALLY INVASIVE SKULL BASE ACCESS
WITH HANDS-ON CADAVER DISSECTION

February 3 - 5, 2011
at ANSPACH
Palm Beach Gardens, Florida

COURSE DIRECTOR
Daniel F. Kelly
Brain Tumor Center
at Saint John’s Health Center & John Wayne Cancer Institute
Santa Monica, California

SPONSORED BY
Saint John’s Health Center
(“Breakthrough Medicine. Inspired Healing.”)
Endonasal & Keyhole Surgery Course
360-DEGREE MINIMALLY INVASIVE SKULL BASE ACCESS
WITH HANDS-ON CADAVER DISSECTION

COURSE TOPICS
• Extended Endonasal Approaches for Sellar & Parasellar Lesions (suprasellar, cavernous sinus, clival, paranasal sinus)
• Supraorbital “Eyebrow” Craniotomy for Frontal Fossa and Parasellar Tumors
• Decision Making and Approach Selection in Skull Base Surgery
• Complication Avoidance and CSF Leak Repair Techniques in Keyhole Surgery

COURSE DESCRIPTION
This 3-day CME course will consist of didactic sessions and hands-on micro-dissection of fresh-frozen cadavers focusing on minimally invasive keyhole surgical approaches including the endonasal and supraorbital routes. Topics will include sinonasal anatomy and imaging, endonasal surgery to the parasellar area by both the fully endoscopic approach and endoscope-assisted approaches. Related topics will include expanded endonasal approaches to the suprasellar and frontal fossa regions, cavernous sinus and clivus. The indications and execution of the supraorbital “eyebrow” craniotomy for frontal fossa and parasellar lesions and the retromastoid approach for cerebello-pontine and petro-clival pathology will also be presented. Additional topics in keyhole surgery will include instrumentation requirements, CSF leak repair techniques, complication avoidance and peri-operative hormonal management.

COURSE OBJECTIVES
At the conclusion of this activity, participants should be able to:
1. Learn sinonasal and skull base surgical anatomy.
2. Gain experience with minimally invasive endoscopic endonasal and endoscope-assisted approaches to the skull base and brain (sella, suprasellar, planum, cavernous sinus, clivus, paranasal sinuses).
3. Gain experience with other keyhole surgical approaches: supraorbital “eyebrow” keyhole approach to the frontal fossa and parasellar regions, and retromastoid approach for cerebello-pontine angle and petro-clival lesions.
4. Learn methods of CSF leak repair in standard and extended transsphenoidal approaches and in keyhole craniotomies.
5. Learn methods of complication avoidance in endonasal surgery and keyhole craniotomies.

TARGET AUDIENCE: Neurosurgeons and Otolaryngologists
Faculty

Ricardo L. Carrau, MD, FACS
Saint John’s Health Center
John Wayne Cancer Institute
Santa Monica, California

Juan C. Fernandez-Miranda, MD
Assistant Professor of Neurological Surgery
Director, Surgical Neuroanatomy Lab
Department of Neurological Surgery
University of Pittsburgh – UPMC
Pittsburgh, Pennsylvania

Charles F. Griffiths, MD, FACS
Assistant Clinical Professor, Dept. of Surgery, Division of Head and Neck Surgery & Dept. of Family Practice
David Geffen School of Medicine at UCLA
Chief of Otolaryngology Head and Neck Surgery
Santa Monica-UCLA Orthopaedic Hospital
Medical Director, West Wilshire Medical Surgical Center
Los Angeles, California

John A. Jane Jr., MD
Associate Professor of Neurosurgery and Pediatrics
Department of Neurosurgery
University of Virginia Health System
Charlottesville, Virginia

Pejman Cohan, MD
Assistant Clinical Professor of Medicine
Division of Endocrinology
David Geffen School of Medicine at UCLA
President and Director
Specialized Endocrine Care Center
Beverly Hills, California

Felice Esposito, MD, PhD
Division of Neurosurgery
Division of Maxillo-Facial Surgery
Università degli Studi di Napoli Federico II
Napoli, Italy

Chester F. Griffiths, MD, FACS
Assistant Clinical Professor, Dept. of Surgery, Division of Head and Neck Surgery & Dept. of Family Practice
David Geffen School of Medicine at UCLA
Chief of Otolaryngology Head and Neck Surgery
Santa Monica-UCLA Orthopaedic Hospital
Medical Director, West Wilshire Medical Surgical Center
Los Angeles, California

Howard R. Krauss, MD
Clinical Professor of Ophthalmology and Neurosurgery
David Geffen School of Medicine at UCLA
Los Angeles, California

Amin B. Kassam, MD
Professor, Department of Neurosurgery
University of Ottawa
Ottawa, Ontario
Canada

Daniel M. Prevedello, MD
Assistant Professor
Department of Neurological Surgery
Ohio State University
Columbus, Ohio

Charlie Teo, MD, MBBS, FRACS
Director
Centre For Minimally Invasive Neurosurgery
Sydney, Australia

FACULTY

Daniel F. Kelly, MD
Director, Brain Tumor Center
Saint John’s Health Center
John Wayne Cancer Institute
Santa Monica, California

Dennis Malkasian, MD, PhD, FACS
Associate Clinical Professor of Neurosurgery
David Geffen School of Medicine at UCLA
Los Angeles, California
# Agenda

**Thursday, February 3, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:15 a.m.</td>
<td>Registration and continental breakfast</td>
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<td>8:00</td>
<td>Welcome and course overview – Daniel Kelly</td>
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**Anatomy & Imaging**

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<tr>
<th>Time</th>
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<tr>
<td>8:05</td>
<td>Pitfalls of parasellar neuro-imaging – Daniel Kelly</td>
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<td>8:20</td>
<td>Endoscopic anatomy of the sinonasal and parasellar space – Felice Esposito</td>
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<td>8:50</td>
<td>Principles of endonasal endoscopic surgery</td>
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**Endonasal Approach to the Sella for Pituitary Adenomas and Related Lesions**

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<tbody>
<tr>
<td>9:50</td>
<td>Break</td>
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<tr>
<td>10:10</td>
<td>Endoscope-assisted approach for pituitary tumors – optimizing outcomes Daniel Kelly</td>
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<tr>
<td>10:40</td>
<td>Extended endonasal approach from sella to crista – Daniel Prevedello</td>
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**Skull Base Closure Techniques**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:20</td>
<td>Skull base reconstruction with vascularized naso-septal flaps</td>
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<td>Ricardo Carrau</td>
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<tr>
<td>11:50</td>
<td>Graded CSF leak repair technique in endonasal surgery – Daniel Kelly</td>
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<tr>
<td>12:20 p.m.</td>
<td>Lunch &amp; Lecture: 3-D endonasal endoscopic anatomy #1</td>
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<td>Juan Fernandez-Miranda</td>
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**Anatomical Prosections**

- Direct endonasal approach – Daniel Kelly
- Endoscopy 101 & nasoseptal flap, approach to sella & planum
  - Ricardo Carrau, Daniel Prevedello

**Hands-on Dissection #1**

- Endonasal endoscopic approach to the sella and planum – sagittal plane
- Reconstruction

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<tr>
<td>5:00</td>
<td>Adjourn</td>
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<tr>
<td>7:00</td>
<td>Course dinner</td>
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**Friday, February 4, 2011**

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<th>Time</th>
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<tr>
<td>7:15 a.m.</td>
<td>Continental breakfast</td>
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**Extended Approaches – Anatomical & Surgical Considerations**

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<th>Time</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Parasellar surgical anatomy – Dennis Malkasian</td>
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<tr>
<td>8:30</td>
<td>Extended endonasal approach to suprasellar lesions – Felice Esposito</td>
</tr>
<tr>
<td>9:30</td>
<td>Endonasal surgery for retrosellar and clival lesions – Daniel Prevedello</td>
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<tr>
<td>10:00</td>
<td>Break</td>
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**360-degree Minimally Invasive Access & Alternative Keyhole Approaches**

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<tr>
<td>10:20</td>
<td>Supraorbital keyhole craniotomy – technique and indications – Charlie Teo</td>
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### FRIDAY, FEBRUARY 4, 2011, continued

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| 10:50 | Endonasal vs supraorbital route for suprasellar & frontal fossa pathology  
Daniel Kelly |
| 11:20 | Approach selection for parasellar & skull base tumors – Charlie Teo    |
| 11:50 | Lunch & Lecture: 360-degree minimally invasive brain surgery          
Amin Kassam |
| 1:00 p.m. | Anatomical Prosections  
- Supraorbital craniotomy – Charlie Teo, Daniel Kelly  
- Endonasal approach to retrostellar and retroclival space  
Ricardo Carrau, Amin Kassam |

### Hands-on Dissection #2
- Supraorbital craniotomy
- Endonasal approach to retrostellar and retroclival space

5:30 Adjourn

### SATURDAY, FEBRUARY 5, 2011

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<td>7:15 a.m.</td>
<td>Continental breakfast</td>
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### Off-Midline Approaches: Pterygoid Fossa, Meckel’s Cave & Orbital Apex

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<tr>
<td>8:00</td>
<td>Transpterygoid &amp; infratemporal anatomy - Ricardo Carrau</td>
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<td>8:30</td>
<td>Coronal plane clinical applications – Amin Kassam</td>
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| 9:00  | Orbital apex pathology and surgical approach                         
Howard Krauss, Chester Griffiths |
| 9:30  | Break                                                                 |
| 10:00 | 3-D endonasal endoscopic anatomy #2 – Juan Fernandez-Miranda         |

### Outcomes & Complication Avoidance

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| 11:00 | Case presentations in complication avoidance & lessons learned       
All Faculty |
| 12:00 p.m. | Working lunch – Peri-operative endocrine management for pituitary surgery – Pejman Cohan |
| 1:00  | Anatomical Prosection  
- Endonasal approach: Vidian to Meckel’s cave  
Ricardo Carrau, Amin Kassam |

### Hands-on Dissection #3
- Extended approach to pterygoid fossa, Meckel’s cave, orbital apex
- Supraorbital

4:30 Adjourn

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www.endokeyhole.org • www.brain-tumor.org
A block of rooms has been reserved at:

**Marriott Palm Beach Gardens**
4000 RCA Blvd.
Palm Beach Gardens, Florida

For reservations call 800-228-9290

Ask for the “Endonasal Surgery Course” special rate of $159.00 plus taxes.

Cut off date to get the special rate is January 12, 2011.

**Marriott Palm Beach Singer Island Resort and Spa**
3800 North Ocean Drive
Singer Island, Florida

For reservations call 877-239-5610 or 561-340-1700

Ask for the “Endonasal Surgery Course” special rate of $229.00 plus taxes.

Cut off date to get the special rate is January 4, 2011.

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**REFUNDS**

Cancellations must be received in writing by December 15, 2010 and will be subject to a $200 processing fee. No refunds will be given after that date. If for any reason the course must be canceled, discontinued, or rescheduled by Academic Event Management, a full refund will be provided.

**AIRFARE**

Cooks Travel
Cindy Miller
cindy@trtravel.net
800.628.2665, extension 106

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**ACCREDITATION**

Saint John’s Health Center (SJHC) is accredited by the Institute for Medical Quality/California Medical Association to provide continuing medical education for physicians. SJHC takes responsibility for the content, quality and scientific integrity of this CME activity. SJHC designates this educational activity for a maximum of twenty-six (26) AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity. This credit may also be applied to the CMA Certification in Continuing Medical Education.

**ACKNOWLEDGEMENT**

This course is supported in part by educational grants from the following companies at press time: Anspach Companies, Stryker, Karl Storz Endoscopy, Mizuho America Inc., Leica Microsystems, KLS Martin, Integra Neurosciences, Covidien, NICO Corporation, Biomet Microfixation.

**DISCLOSURE STATEMENT**

The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is “truly independent” and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, Accreditation Council for Continuing Medical Education policy now mandates that the sponsor adequately manages all identified potential conflicts of interest prior to the program. We, at Saint John’s Health Center, fully endorse the letter and spirit of these concepts.
### Registration

**COURSE LOCATION:**  
**ANSPACH 4600 Riverside Dr., Palm Beach Gardens, Florida**

**TUITION:**  
- $2,400 Individual  
- $6,300 Team of three

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**PAYMENT**

- □ Check enclosed payable to: Academic Event Management
- □ Visa  □ MasterCard  □ Discover  □ American Express

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Send completed enrollment form to: Academic Event Management

**ONLINE**

www.academiceventmanagement.com

**PHONE**

805.300.9154

**FAX**

805.494.1103

**MAIL**

1396 Rancho Lane

Thousand Oaks, CA 91362

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