

**2018**

St. Louis, Missouri, USA  
September 29 -  
October 2

5th  
Saint Louis University  
Department of  
Neurosurgery

SAINT LOUIS UNIVERSITY™



Practical Anatomy & Surgical Education  
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## Combined Ventricular & Skull Base Endoscopy

Hands-on Cadaver Course for Neurosurgeons



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UNIVERSITY™  
— EST. 1818 —



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## Combined Ventricular & Skull Base Endoscopy

Hands-on Cadaver Course for Neurosurgeons



International  
Federation  
of Neuroendoscopy



In collaboration with IFNE and IWFNS Neuroendoscopy Committee

**Course Director:**

**Samir K. Elhabaa, MD, FAAP, FAANS, FACS**

**Honored Guest:**

**Henry Schroeder, MD, PhD**

An offering through:  
Practical Anatomy & Surgical Education, Department of Surgery  
Saint Louis University School of Medicine

## Saturday, September 29 7:00 AM - 5:30 PM

### Ventricular Anatomy & Basic Intra-Ventricular Procedures

- 3D Ventricular Anatomy : Craniometric points, Endoscopic Approaches and Correlating White Matter Fiber Tractography
- Basics of Neuro-Endoscopy: Equipment and Surgical Planning
- Endoscopic Third Ventriculostomy (ETV): , technique, Indications and Outcomes

- Endoscopic Management of complex Hydrocephalus
- Endoscopic Cadaveric Demonstration and Hands-On Laboratory:
  - Endoscopic Third Ventriculostomy
  - Endoscopic Septum Pellucidum Fenestration
  - Endoscopic Shunt Placement and use of Endoscopic Navigation

### Intra-Ventricular Tumors

- Endoscopic Management of Intra-Ventricular Tumors
- Endoscopic Choroid Plexus Coagulation (CPQ) : technique & Outcomes
- HONORED GUEST LECTURE: Endoscopic Management of Colloid Cysts
- Podium Cadaveric Demonstration and Hands-On Laboratory:
  - Endoscopic Biopsy/ Resection of Intra-Ventricular Tumor Model
  - Endoscopic Excision of Colloid Cyst/ Approaches to the Third Ventricle
  - Use of Stereotactic Navigation during Endoscopic Ventricular Surgery

## Sunday, September 30 7:00 AM - 6:00 PM

### Advanced Intra-Ventricular and Craniofacial Procedures

- HONORED GUEST LECTURE: Endoscopic Aqueductroplasty: complication Avoidance during Intra-Ventricular Endoscopy
- Endoscopic Management of Arachnoid Cysts
- Endoscopic-Assisted Craniofacial Correction of Craniostenosis
- Endoscope-Assisted Microvascular Surgery
- Endoscopic Management of Intra-Ventricular Infections
- Hands-On Laboratory:
  - Endoscopic Biopsy/ Resection of Intra-Ventricular Tumor Model
  - Use of Stereotactic Navigation during Endoscopic Ventricular Surgery
  - Endoscopic approaches to Choroid Plexus

### Endoscopic Approaches to the Skull Base (Part I)

- 3D Endoscopic Sinus and Endonasal Skull Base Anatomy
- Standard Versus Expanded Endonasal Trans-Sphenoidal Approaches: Technique and Indications
- Endoscopic Transsellar Subcortical Parasellar Surgery for Intracerebral Hemorrhage
- Endoscopic Nasoseptal Flap Reconstruction of the Skull Base
- Endoscopic Repair of CSF Leak
- Pituitary Dissection
  - Standard Endonasal Trans-Sphenoidal Approach to the Sella
  - Expanded Endonasal Trans-Sphenoidal Approach to the Parasellar Lesions
  - Hands-On Laboratory: Standard and Expanded Endonasal Trans-Sphenoidal Approaches to the Sella

## EDUCATIONAL OBJECTIVES

- This workshop has been designed to provide the neurosurgeons the opportunity to enhance their own skills in a variety of endoscopic approaches to the ventricles and skull base. The participants will:
- Review and perform endoscopic surgical approaches to the lateral ventricles, perform endoscopic third ventriculostomy, perform endoscopic placement of shunt, perform endoscopic septum fenestration and remove intraventricular tumors.
  - Review and perform endoscopic surgical approaches to the anterior, lateral and posterior skull base on cadaveric specimens
  - Learn and discuss the indications and differences between standard microsurgical and endoscopic approaches.
  - Discuss the surgical techniques and complexity of the various surgical approaches reviewed, viewing surgical videos and interacting with the world renowned experts in the field.
  - Discuss complication avoidance and management.

## Monday, October 1 7:30 AM - 6:00 PM

### Endoscopic Approaches to the Skull Base (Part I)

- HONORED GUEST LECTURE: Endoscopic Endonasal Surgery for Pituitary Tumors
- Microsurgery for Ventricular and Suprasellar Tumors
- HONORED GUEST LECTURE: Endoscopic & Endoscope-Assisted Microsurgery for Craniopharyngiomas
- Pituitary Dissection
  - Expanded Endonasal Trans-Sphenoidal Approach to the Sella and Parasellar Lesions
  - Endoscopic Approaches to the Anterior Skull Base
  - Endoscopic Nasoseptal Flap Reconstruction and CSF Leak Repair
  - Cadaveric Skull Base Tumor Model

- 3D Endoscopic & Microscopic Anatomy of the supra-orbital keyhole Approach, Anterior Fossa and Suprasellar Lesions
- Endoscopic Approaches: Outcomes to Anterior Skull Base Meningiomas
- Endoscope-Assisted Microsurgery for Vascular Lesions
- Hands-On Laboratory:
  - Expanded Endonasal Trans-Sphenoidal Approach to the Sella and Parasellar Lesions
  - Endoscopic Approaches to the Anterior Skull Base
  - Endoscopic Nasoseptal Flap Reconstruction and CSF Leak Repair
  - Open Discussion of Endoscopic Ventricular and Skull Base Cases

### Endoscopic Approaches to the Skull Base (Part II)

- Complication Avoidance during Endoscopic Sellar and Suprasellar Tumor Surgery
- Endoscopic Trans-Orbital Approach
- Endoscopic Approach to the Middle & Infra-temporal fossa
- Pituitary Dissection
  - Endoscopic Trans-Orbital Approach
  - Endoscopic Approach to the Middle & Infra-temporal fossa
  - Endoscopic Key Hole Approach to the Posterior Fossa
  - Endoscopic Approach to the Clivus and Cranio-Cervical Junction
  - Hands-On Laboratory:
    - Endoscopic Key Hole Approach to the Posterior Fossa
    - Endoscopic Trans-Orbital Approach
    - Endoscopic Approaches the Clivus and Cranio-Cervical Junction
    - Endoscopic Approach to the Middle & Infra-temporal fossa

## Tuesday, October 2 7:30 AM - 4:00 PM

### Endoscopic Approaches to the Skull Base (Part II)

- Complication Avoidance during Endoscopic Sellar and Suprasellar Tumor Surgery
- Endoscopic Trans-Orbital Approach
- Endoscopic Approach to the Middle & Infra-temporal fossa
- Pituitary Dissection
  - Endoscopic Trans-Orbital Approach
  - Endoscopic Approach to the Middle & Infra-temporal fossa
  - Endoscopic Key Hole Approach to the Posterior Fossa
  - Endoscopic Approach to the Clivus and Cranio-Cervical Junction
  - Hands-On Laboratory:
    - Endoscopic Key Hole Approach to the Posterior Fossa
    - Endoscopic Trans-Orbital Approach
    - Endoscopic Approaches the Clivus and Cranio-Cervical Junction
    - Endoscopic Approach to the Middle & Infra-temporal fossa

## Course Director:

### Samer K. Elhababa, MD, FAAP, FAANS, FACS

Medical Director,  
Pediatric Neurosurgery  
Director, Pediatric Neuroscience  
Center of Excellence

Arnold Palmer Hospital for Children  
Orlando, FL  
Professor of Neurosurgery  
College of Medicine,  
University of Central Florida (UCF)  
Orlando, FL

Adjunct Associate Professor  
of Neurosurgery

Department of Neurological Surgery  
Saint Louis University, School of Medicine  
St. Louis, MO

### Honored Guest:

#### Henry Schneider, MD, PhD

Professor and Chairman  
Department of Neurosurgery  
University Medicine Greifswald  
Greifswald, Germany

### Invited Faculty:

#### Salem Abduhrafuf, MD, FACS

Professor and Chairman  
Department of Neurological Surgery  
Saint Louis University  
School of Medicine  
Director, Saint Louis University  
Center for Cerebrovascular  
and Skull Base Surgery  
Neurosurgeon-in-Chief

Saint Louis University Hospital  
Interim Director, Division of  
Pediatric Neurosurgery  
Cardinal Glennon Children's Hospital  
Director, Division of Neurosurgery  
SMM St. Mary's Health Center  
St. Louis, MO

#### Giuseppe Ghali, MD

President, International Federation of  
Neuroendoscopy (IFNE)  
Head, Department of Neurosciences  
Head, Pediatric Neurosurgery  
Santobono-Pausilipon  
Children's Hospital  
Naples, Italy

#### Jeremy N. Gjorenc, MD

Assistant Professor  
Department of Neurological Surgery  
Oregon Health and Science University  
Portland, Oregon

### Jeroen Coppens, MD

Associate Professor  
Department of Neurosurgery  
Saint Louis University  
School of Medicine  
St. Louis, MO

### Alvaro Gordoba, MD

Associate Professor  
Department of Neurosurgery  
Montevideo, Uruguay

### Chandrashekar Deepujari, MS, MCh, MSc

Professor and Head,  
Department of Neurosurgery  
Bombay Hospital Institute  
of Medical Sciences  
President, Asian Australasian Society  
for Pediatric Neurosurgery  
Chairman, Mens Neuroendoscopy &  
Neuroendocrine Committee  
Mumbai, India

### Roberto Alexandre Dezena, MD, PhD

Associate Professor and Chief  
Division of Neurosurgery  
Federal University of Triângulo Mineiro  
Uberaba, Minas Gerais, Brazil

### Christian Dinz, MD, PhD

Associate Professor  
Federal University of Paraíba  
Unipê, Brazil

### James J. Evans, MD

Professor of Neurological Surgery  
& Otolaryngology  
Director, Cranial Base & Pituitary Surgery  
Thomas Jefferson University  
President, North American  
Skull Base Society  
Philadelphia, PA

### Anand V. Germanwala, MD

Associate Professor & Residency  
Program Director  
Department of Neurological Surgery  
Loyola University-Stritch  
School of Medicine  
Maywood, IL

### Pablo Gonzalez-Lopez, MD, PhD

Neurooncology & Skull Base Division,  
Department of Neurosurgery  
Hospital General Universitario de  
Alicante, School of Medicine  
Alicante, Spain

### Philippe Mercier, MD, PhD

Assistant Professor  
Department of Neurosurgery  
Saint Louis University  
School of Medicine  
Saint Louis, MO

### Cristian Grașmaniel, MD, PhD

Neurosurgeon  
Department of Neurosurgery  
George Washington University School  
of Medicine  
Washington, DC

### Tenoch Herrata-Pineta MD

Pediatric Neurosurgeon  
Centro Neurológico  
Centro Médico ABC  
Mexico City, Mexico

### Joanna Kemp, MD

Assistant Professor  
Division of Pediatric Neurosurgery, SSM  
Cardinal Glennon Children's Hospital  
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Saint Louis University  
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### David Limbrick, MD, PhD

Professor, Neurosurgeon-in-Chief  
Pediatric Neurosurgery  
St. Louis Children's Hospital  
Washington University  
School of Medicine  
St. Louis, MO

### Jamie Litvack, MD, MS

Assistant Professor  
Department of Otolaryngology – Head  
and Neck Surgery  
University of Washington Medical Center  
Seattle, WA

### Zachary Litvack, MD, FAANS, FACS

Director, Skull Base &  
Minimally Invasive Neurosurgery  
Svedish Neuroscience Institute  
Seattle, WA

### James Liu, MD, FACS, FAANS

Professor of Neurological Surgery  
Director, Skull Base  
and Cerebrovascular Surgery  
Rutgers University, New Jersey  
Medical School  
Newark, NJ

### Philippe Mercier, MD, PhD

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## CONTINUING EDUCATION

Credit Designation: Saint Louis University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCM) to provide continuing medical education for physicians.

Credit Designation: Saint Louis University School of Medicine designates this live activity for a maximum of *3.00 AMA PRA Category 1 Credit(s)™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## REGISTRATION:

For Further Course Details  
and REGISTRATION go to:  
<http://pa.slu.edu>

This workshop will be held at the PASE  
Learning Center located in Young Hall, 3839  
Lindell Boulevard, Saint Louis, MO 63108

## TUITION FEES:

Physicians: ..... \$1895  
Residents/Fellows/USA Military: ..... \$1196

The education the participant gains through  
our CME activities does not satisfy training  
requirements to perform the surgery.

Faculty subject to change; for  
updates, please go to  
<http://pa.slu.edu>