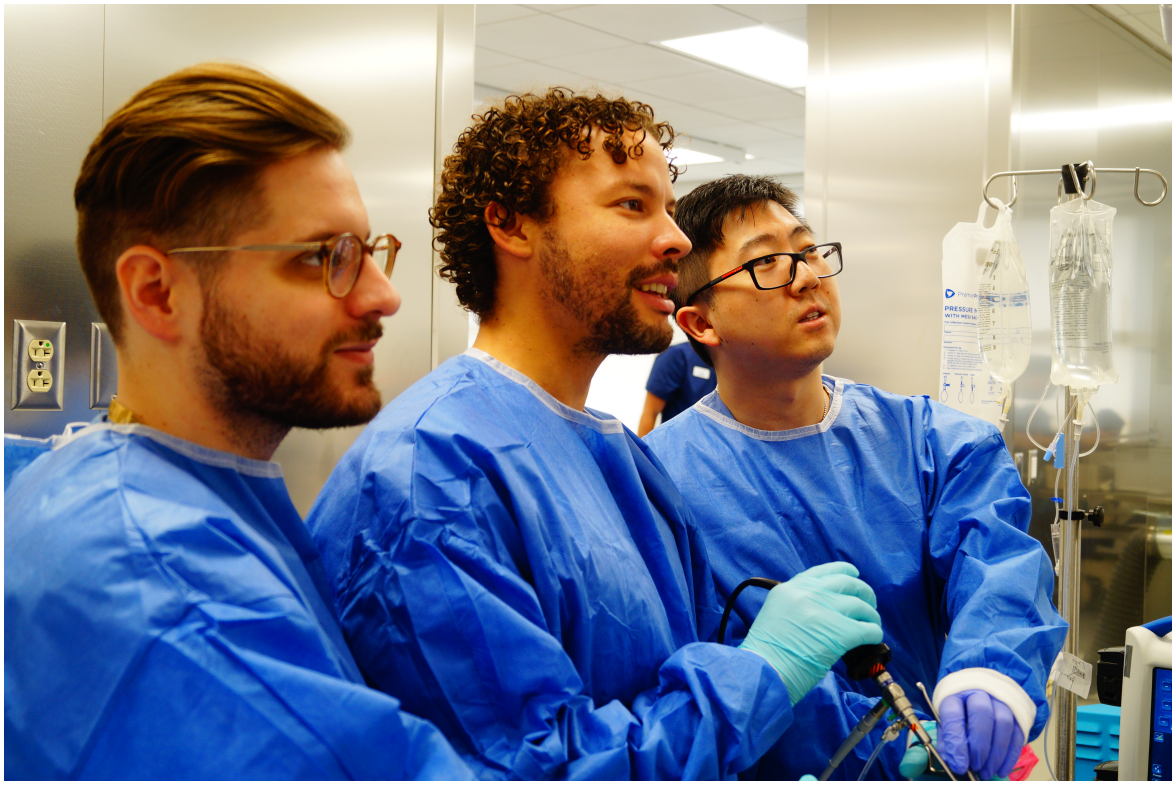
Allegheny Health Network Neuroscience Institute Presents

3rd Annual Allegheny Health Network Dr. Walter Grand Brain Endoscopy Course

Lecture and Practical Lab

Friday, October 11th – Saturday, October 12th, 2019

Allegheny General Hospital, Magovern Conference Center
and Center for Surgical Arts
Pittsburgh, PA



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Neuroscience Institute
Allegheny General Hospital
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Course Director

Jody Leonardo, MD, FACS, FAANS
Director of AHN Adult Hydrocephalus Center
Director of AHN Pituitary Center
Assistant Director of Endoscopic Neurosurgery
Department of Neurosurgery and Neuroendoscopy
Allegheny Health Network

Dr. Peter Jannetta Visionary Lecturer

Hae-Dong Jho, MD, PhD
Chairman, Department of Neuroendoscopy
Professor, Drexel University College of Medicine
Jho Institute for Minimally Invasive Neurosurgery
Allegheny Health Network

Honored Guest Lecturer

John Y.K. Lee, MD, MSCE
Associate Professor
Department of Neurosurgery, Otolaryngology
University of Pennsylvania

Keynote Lecturer

Zachary Litvack, MD, MCR, FAANS, FACS
Director, Skull Base & Minimally Invasive Neurosurgery
Co-Executive Medical Director, Neurosurgery & Spine
Swedish Neuroscience Institute

Dr. Axel Perneczky Lecturer

Alexander Yu, MD
Director, Surgical Neuro-Oncology
Director, Skull Base Surgery
Director, Minimally Invasive Spine Neurosurgery
Assistant Director, Cerebrovascular Neurosurgery
Assistant Director, Adult Deformity Surgery
Department of Neurosurgery
Allegheny Health Network

Guest Faculty

Diana Jho, MD, MS
Director of Penn State Neurosurgery
Geisinger Holy Spirit Hospital
Assistant Professor of Neurosurgery
Penn State Hershey Medical Center

Matthew Straka, MD, MS
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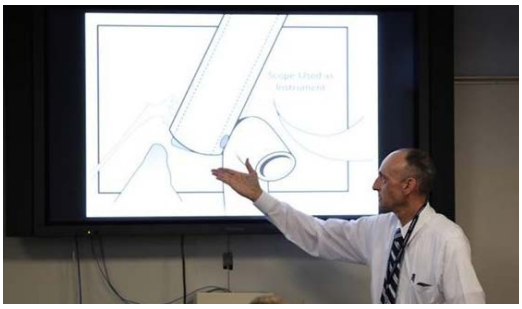
Course Overview and Intended Audience

The **AHN Dr. Walter Grand Brain Endoscopy Course** is an endoscopic intraventricular and skull base instructional course inspired by Dr. Walter Grand, an esteemed neurosurgeon, neuroendoscopist, and neurosurgical educator. The course is geared to teach neurosurgical residents, fellows, and attending neurosurgeons minimally invasive endoscopic approaches to intraventricular, cisternal, sellar, and parasellar pathology. The purpose of the course is to fulfill the need for basic and in-depth endoscopic training in the neurosurgical community as intracranial and skull base endoscopy have proven to be an effective minimally invasive treatment option.



Dr. Walter Grand (1940-2018)

This year, we are honored to announce that **Dr. Hae-Dong Jho, Professor and Chairman of the AHN Department of Neuroendoscopy** and world renowned neurosurgeon and pioneer in neuroendoscopy, will be performing a pituitary surgery "live" during the course to demonstrate the approach and the procedure first-hand.

Procedural Focus

In addition to the live surgery, the **AHN Dr. Walter Grand Brain Endoscopy Course** provides two full days of didactic lectures and practical cadaver lab sessions through which the course participants will become familiar with both intracranial and transnasal endoscopic equipment and will accrue the knowledge and technical skill set to perform the following basic endoscopic procedures in their own practices:

- Endoscopic Third Ventriculostomies (ETVs), Septum Pellucidum Fenestrations (SPFs)
- Endoscopic approaches to intraventricular and cisternal pathology such as cerebellar pontine angle/pineal region tumors and cysts
- Flexible endoscopic interventions including exploration and biopsy and aqueductoplasty
- Endoscopic transnasal transsphenoidal approaches to sellar and parasellar pathology
- Endoscopic approach for evacuation of intraventricular and parenchymal hemorrhage

Goals and Objectives

Upon completion of the course, participants will be able to:

- Identify intraventricular, cisternal, as well as sellar/parasellar pathology amenable to endoscopic treatment
- Understand ventricular, cisternal, and sellar/parasellar anatomy and imaging characteristics
- Recognize the differences in intracranial and transnasal endoscopes and become proficient in their utilization
- Learn how to approach lesions in the lateral ventricles (foramen of Monro, atria/occipital poles) as well as anterior and posterior third ventricular lesions in a cadaver with the rigid endoscopic systems
- Utilize the rigid endoscope to access the cisternal corridors for cerebellar pontine angle lesions or pineal region lesions in a cadaver
- Understand the differences between rigid and flexible intraventricular endoscopic systems
- Understand indications for flexible endoscopy and how to utilize the flexible endoscopic and instruments
- Utilize the endoscope in the evacuation of intraventricular or parenchymal hemorrhage
- Perform an endoscopic transnasal transsphenoidal approach to the sellar/parasellar area in cadavers
- Perform a transnasal/transoral odontoidectomy in a cadaver
- Perform endoscope-assisted supra-orbital (eyebrow) mini-craniotomy in a cadaver
- Develop an awareness of endoscopic complications and understand their management
- Understand the difference between endoscopic and exoscopic image visualization for tumor resection and hemorrhage evacuation

Legacies ~ A Tribute....

Honoring

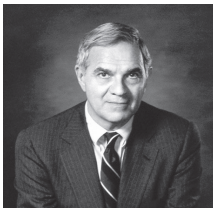
Hae-Dong Jho, MD, PhD

Dr. Hae Dong Jho is a native of South Korea where he received his medical degree from Chonnam University Medical School. After serving his military duty as a medical officer, he completed a neurosurgery residency at Hanyang University Medical Center in Seoul, South Korea where he concurrently earned a Doctorate in Neurobiochemistry. Following graduation, he was hired as a Professor at their institution. After a few years of practicing, he was accepted to the microneurosurgery fellowship under the tutelage of Dr. Peter Jannetta at the University of Pittsburgh Medical Center. Upon completing his fellowship, he decided to remain in the United States undertaking another full neurosurgery residency continuing his training with Dr. Jannetta. He was subsequently hired as a Professor at the University of Pittsburgh Medical Center where he continued to refine his microneurosurgery skills and develop his endoscopic techniques. He served as the Director of Minimally Invasive Neurological Surgery and the Director of Microneurosurgery at the University of Pittsburgh Medical Center until 2001 when he became the Director of the Jho Institute of Minimally Invasive Neurosurgery at Allegheny General Hospital. He currently serves as the Chairman of the Department of Neuroendoscopy and Director of the Jho Institute of Minimally Invasive Neurosurgery at Allegheny General Hospital. Dr. Jho is a world-renowned neurosurgeon who has been instrumental in the development and refinement of minimally invasive endoscopic neurosurgical techniques for treating a spectrum of neurological conditions including transphenoidal endoscopic approaches, minimally invasive transcranial endoscopic brain surgery, and minimally invasive endoscopic spinal techniques. He is a visionary and is continuously looking for ways to improve surgical methods with the goal of better outcomes for his patients in mind.

In Memoriam

Walter Grand, MD
July 26, 1940 - September 17, 2018

Dr. Walter Grand was born in Brooklyn, New York. He attended the University of Vermont and received his MD from the Albert Einstein College of Medicine in the Bronx in 1966. As an intern at St. Vincent's Hospital in New York, he met his wife Laura Grand, MD. Dr. Grand joined the U.S. Air Force in 1972 with the rank of Major and was stationed at Clark Air Force Base in the Philippines. He was in charge of the neurosurgical service, which treated all branches of the military in the Vietnam War zone. It was here that Dr. Grand treated Lt. Tommy Norris, a Navy SEAL, for a head wound he suffered in battle in Vietnam. Petty Officer Michael Thornton, also a SEAL, received the Congressional Medal of Honor for his action in the battle and his rescue of Lt. Norris. After leaving the Air Force in 1974, Dr. Grand served as an Assistant Professor of Neurosurgery in the Department of Neurosurgery in Buffalo, New York. After 12 years of private practice, he returned to Buffalo in 1992 as Clinical Professor of Neurosurgery for the State University of New York at Buffalo School of Medicine and Biomedical Sciences. Thereafter, Dr. Grand developed and pioneered the minimally invasive brain endoscopy program, training many neurosurgeons in this subspecialty. He established one of the first practical neurosurgical training laboratories, providing instruction to neurosurgeons from around the world, and he has lectured on brain endoscopy in the United States, Europe and Asia. Dr. Grand was an admired and respected mentor to his beloved residents, teaching and instilling in them a passion to grow and succeed with integrity and compassion. He was the director of education for residency training and neurosurgery training prior to his retirement as Professor Emeritus of Neurosurgery and Anatomy in December 2015. For his family, friends, colleagues, students and patients, he was gracious, generous, kind, nurturing and healing. He was an inspiration to all those that became part of his extended family.



Peter J. Jannetta, MD
April 5, 1932 - April 11, 2016

Dr. Peter Jannetta was a world-renowned developer of the microvascular decompression, a procedure that moves blood vessels away from the nerves, alleviating chronic pain or spasms in facial muscles. The procedure became commonly known as the 'Jannetta Procedure' in the neurosurgical community. Dr. Jannetta received numerous awards throughout his career including the Distinguished Medal of Honor from the World Federation of Neurosurgical Societies. He became Chairman of the Department of Neurological Surgery at the University of Pittsburgh in 1971 and served in that role for more than 25 years. One of Dr. Jannetta's greatest accomplishments, however, was his legacy of training future leaders in neurosurgery. After leaving the university, Dr. Jannetta helped develop the Cranial Nerve Center at Allegheny General Hospital in Pittsburgh. After retirement, Dr. Jannetta continued to mentor neurosurgeons.

Photo Credit: Neurosurgery, Volume 66, Issue 6, June 2010, Pages 1036–1038

Axel Perneczky, MD
November 1, 1945 - January 24, 2009

Dr. Axel Perneczky was a renowned Hungarian neurosurgeon, who for the majority of his career, practiced Neurosurgery in Mainz, Germany. He was a major contributor to the development of endoscopic and minimally invasive neurosurgical procedures, particularly in the field of cerebrovascular neurosurgery. He became one of the driving forces behind the modern era of minimally invasive neurosurgery. Dr. Perneczky was the editor of the Journal Minimally Invasive Neurosurgery, published by Thieme and developed the concept of keyhole neurosurgery. Dr. Perneczky trained many neurosurgeons throughout the world, including Dr. Grand who traveled to Germany numerous times to learn directly from him.

Skull Base Endoscopy
Friday, October 11th, 2019

7:30 am	***Registration and Continental Breakfast***
7:45 am	Welcome and Introduction **Donald Whiting, MD**
8:00 am	**The Dr. Peter Jannetta Visionary Lecture** **Hae-Dong Jho, MD, PhD**
8:30 am	**LIVE ENDOSCOPIC PITUITARY SURGERY** **Hae-Dong Jho, MD, PhD** **Intra-Operative Narrators and Post-Operative Panelists** John Lee, MD Jody Leonardo, MD Zachary Litvack, MD Alexander Yu, MD Matthew Straka, MD Rabih Tawk, MD Hunaldo Villalobos, MD Richard Williamson, MD **AM Presentation Block (15 min/lectures/Peri-op downtime)** Anatomy of the Nasal Cavity, Sphenoid Sinus, Sella – Jody Leonardo, MD Anatomy of the Suprasellar, Retrosellar, and Parasellar Region – Rabih Tawk, MD General Principles of Endoscopic Skull Base Surgery – Jody Leonardo, MD Nasal Septal Flaps and CSF Leak Repair – Matthew Straka, MD
Noon	***Lunch***
12:45 pm	**Keynote Lecture** Endoscopic Skull Base Approaches to Meningiomas and Craniopharyngiomas – Methods and Complications **Zachary Litvack, MD**
1:45 pm	Endovascular Management of Carotid Injury **Richard Williamson, MD**
2:00 pm	Endoscopic Approach to Odontoid Pathology **Alexander Yu, MD**
2:15 pm	***Coffee Break/Exhibits***
2:30 pm	***Lab Session - Overview of Skull Base Endoscopes/Instrumentation; ETTA Extended Skull Base and Odontoid Approach***
5:00 pm	***Adjournment***
7:00 pm	**The Grand Event - Endoscopic Brain Bash Fall Celebration** Rialto Roof Top @ Kimpton Hotel Monaco

Intracranial Endoscopy
Saturday, October 12th, 2019

7:30 am	***Continental Breakfast***
8:00 am	Endoscopic Intraventricular Anatomy **Jody Leonardo, MD**
8:20am	General Intraventricular Endoscopy Principles and Complications **Jody Leonardo, MD**
8:40 am	Endoscopic Third Ventriculostomy (ETV) **Jody Leonardo, MD**
9:00 am	Endoscopic Approaches to Colloid Cysts (CC) **Rabih Tawk, MD**
9:20 am	Septum Pellucidum Fenestration (SPF) **Rabih Tawk, MD**
9:30 am	***Coffee Break/Exhibits***
9:45 am	Endoscopic Approach to Arachnoid Cysts (AC) **Jody Leonardo, MD**
10:00 am	Minimally Invasive Options for Evacuation of Intracranial Hematomas **Richard Williamson, MD**
10:15 am	**Dr. Walter Grand Tribute** **Laura Grand, MD**
10:30 am	***Lab Session - Overview of Intracranial Endoscopes and Instrumentation; Endoscopic Review of Intraventricular Anatomy; ETV; SPF; Endoscopic Approaches to CC Frontal/Atrial/Occipital Pathology; Lesions; Endoscopic/Exoscopic Hematoma Evacuation***
Noon	***Lunch***
12:45 pm	**Honored Guest Lecture** Endoscopic Approach to Lesions of the Cerebellar Pontine Angle and the Pineal Gland **John Lee, MD**
1:30 pm	Endoscopic Approach to the Posterior Third Ventricle **Jody Leonardo, MD**
1:45 pm	Endoscopic Chiari Decompression **Diana Jho, MD**
2:00 pm	**The Dr. Axel Perneczky Lecture** The Supraorbital Approach **Alexander Yu, MD**
2:30 pm	Introduction to Flexible Endoscopy **Kerry Vaughan, MD**
2:45 pm	Choroid Plexus Cauterization **Kerry Vaughan, MD**
2:15 pm	***Coffee Break/Exhibits***
3:00 pm	***Lab Session - Endoscopic Approach to Posterior 3rd Ventricle and Pineal Region Pathology; Retromastoid Endoscopic Craniectomy and Exploration; Introduction to Flexible Endoscopy; Supra-orbital Approach***
5:00 pm	***Adjournment***

Accreditation

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Non-Physicians

Allegheny General Hospital has approved this activity for 15.50 contact hours for non-physicians.

A Special Thank You

To Dr. Donald Whiting for all of your support in the production and facilitation of this educational endeavor.

Donald M. Whiting, MD, MS, FAANS
System Chair, AHN Neuroscience Institute
Co-Director, Division of Functional Neurosurgery
Co-Director, Neurosurgery Spine Bio-Mechanics Lab
Department of Neurosurgery
Allegheny Health Network

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