

Weill Cornell Complex Approaches in Neurosurgery

2019



Presented by:

Antonio Bernardo, MD
Philip E. Stieg, PhD, MD
Rohan Ramakrishna, MD

A hands-on cadaver workshop with
3D Virtual Reality Lectures



Weill Cornell Medicine
Neurological Surgery

4-Day Course in Palm Beach
April 3–6, 2019

 DePuySynthes



Weill Cornell Medicine
Neurological Surgery

2019 Weill Cornell Palm Beach Course on Complex Approaches in Neurosurgery

April 3-6, 2019

Wednesday 4/3

Anterior & Anterolateral Approaches: Transcranial and Endoscopic Routes to the Clivus, Sellar, and Perisellar Regions

7:15-7:45 AM

Welcome, Introduction, and Principles of Skull Base Surgery (Bernardo)

7:45-9:15 AM

Lectures

3D Surgical Anatomy and Techniques of the Orbitozygomatic Approach and Pericavernous Exposure (Antonio Bernardo MD)

The Pterional Approach and its Mini and Extended Variants to the Anterior Cranial Fossa (Jared Knopman MD)

9:15-12:30 PM

Hands-on Dissection

Fronto-orbitozygomatic Craniotomy, Anterior Clinoidectomy, Unlocking of the Superior Orbital Fissure, Exposure of the Perisellar Area, Posterior Clinoidectomy, and Pericavernous Corridors to the Basilar Apex

12:30-1:30 PM

Lunch

1:30-3:00 PM

Lectures

Endoscopic Sinus Anatomy and Corridors to the Skull Base (Rohan Ramakrishna)

Transplanum Transtuberulum Approach for Resecting Suprasellar Craniopharyngiomas & Meningiomas (Theodore Schwartz MD)

Transpterygoid and Transmaxillary Approaches for Pterygopalatine/Infratemporal Fossa Lesions (Shaan Raza MD)

3:00-6:30 PM

Hands-on Dissection

Endoscopic Transnasal Transsphenoidal Approaches to the Anterior Skull Base

Thursday 4/4

Lateral Approaches: Temporal Bone and Transpetrosal Surgical Routes to the Skull Base

7:30-9:30 AM

Lectures

The Subtemporal Transtentorial Approach to the Upper Clivus (Rohan Ramakrishna MD)

3D Surgical Anatomy of the Temporal Bone and the Anterior Transpetrosal Approach (Antonio Bernardo MD)

9:30-12:30 PM

Hands-on Dissection

Subtemporal and Middle Fossa Approaches, and the Extended Middle Fossa Approach with Anterior Petrosectomy

12:30-1:30 PM

Lunch

1:30-2:30 PM

Lecture

3D Surgical Anatomy of the Temporal Bone and the Posterior Transpetrosal Approaches (Antonio Bernardo MD)

2:45-6:30 PM

Hands-on Dissection

Posterior Petrosectomy: Drilling the Mastoid, Facial Nerve Exposure, Translabyrinthine Dissection, Exposure of the Jugular Bulb

Friday 4/5

Posterolateral and Combined Neurosurgical Approaches: The Retrosigmoid and Far-lateral Approaches

7:30-9:45 AM

Lectures

Surgical Anatomy of the Retrosigmoid Approach and the Cerebellopontine Angle (Phillip E. Stieg PhD, MD)

3D Surgical Anatomy of the Jugular Foramen, and Craniocervical Junction—the Far Lateral Approach (Antonio Bernardo MD)

Surgical Planning and Approach Selection for Lateral and Anterior Foramen Magnum Lesions (Rohan Ramakrishna MD)

9:45-12:30 PM

Hands-on Dissection

Far Lateral Approach Transcondylar Approach

12:30-1:30 PM

Lunch

1:30-3:30 PM

Lectures

Combined Transtentorial Approaches for Large Skull Base Lesions (Antonio Bernardo MD)

Carotid Endarterectomy and Lateral Cervical Dissection (Phillip E. Stieg PhD, MD)

3:30-6:30 PM

Hands-on Dissection

Lateral Cervical Dissection and Combined Approaches

Saturday 4/6

Posterior Approaches and Approaches to the Lateral and Third Ventricles

7:30-9:45 AM

Lectures

3D Surgical Anatomy of the Pineal Region (Antonio Bernardo MD)

Occipital Transtentorial Approaches to the Pineal Region (Jeffery Greenfield MD, PhD)

The Supracerebellar Infratentorial Approach and its Variants to the Pineal Region (Mark Souweidane MD)

9:45-12:30 PM

Hands-on Dissection

The Occipital Transtentorial and Supracerebellar Infratentorial Approaches

12:30-1:30 PM

Lunch

1:30-3:30 PM

Lectures

Surgical Anatomy of the Lateral and Third Ventricles (Caitlin Hoffman, MD)

Interhemispheric Transcallosal and Transcortical Transchoroidal Approaches to the Ventricles (Jeffery Greenfield MD, PhD)

Endoscopic Approaches to Intraventricular Lesions (Mark Souweidane, MD)

3:30-6:30 PM

Hands-on Dissection

Interhemispheric Transcallosal and Transcortical Approaches to the Lateral and Third Ventricles