

**Mayo Clinic: Rhoton-de Oliveira Stereotactic Functional Neuroanatomy Applied to Movement Disorders, Epilepsy, and Pain**  
**March 15-17, 2023**  
**Mayo Clinic Florida – Simulation Center**

WIFI username:

WIFI password:

<b>Wednesday March 15, 2023</b>	
<b>Deep Brain Stimulation</b>	
7:00 AM	<b>Breakfast</b>
7:30 AM	<b>Welcome and Introduction</b>
8:00 AM	<b>Surgery for Parkinson’s Disease and Dystonia – Patient &amp; Target Selection</b>
8:20 AM	<b>Microsurgical Anatomy of the Subthalamic Nucleus (STN)</b>
8:40 AM	<b>Advanced Imaging for STN Targeting</b>
9:00 AM	<b>Transition to Workshop</b>
<b>Hands-On Procedural Skills Lab Workshop</b>	
9:05 AM	<b>Frame Fixation, STN Targeting (Hands-On Laboratory – Procedural Skills Lab)</b>
10:25 AM	<b>Stereotactic Approach to the STN (Hands-On Laboratory – Procedural Skills Lab)</b>
<b>OR Simulation Workshop</b>	
9:05 AM – 11:45 AM	<b>STN Programming Directional, Omnidirectional and BrainSense (OR Simulation Room)</b>
11:45 AM	<b>Break</b>
12:05 PM	<b>Lunch Lecture: How to Build a Movement Disorder Practice</b>
1:05 PM	<b>Intraoperative Patient Evaluation for the STN &amp; GPi</b>
1:25 PM	<b>Microsurgical Anatomy of the Globus Pallidus Internus (GPi)</b>
1:45 PM	<b>Advanced Imaging for GPi Targeting</b>
2:05 PM	<b>Break</b>
<b>Hands-On Procedural Skills Lab Workshop</b>	
2:20 PM	<b>GPi Targeting and VR (Hands-On Laboratory – Procedural Skills Lab)</b>
3:40 PM	<b>Stereotactic Approach to GPi (Hands-On Laboratory – Procedural Skills Lab)</b>
<b>OR Simulation Workshop</b>	
2:20 PM – 5:00 PM	<b>GPi Programming Directional, Omnidirectional and BrainSense (OR Simulation Room)</b>
5:00 PM	<b>Adjourn</b>

To ask questions join at:  
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<b>Thursday March 16, 2023 Deep Brain Stimulation</b>	
7:00 AM	<b>Breakfast</b>
7:30 AM	<b>Surgery for Essential Tremor – Patient Selection/Unilateral x Bilateral Approach</b>
7:50 AM	<b>Microsurgical Anatomy of the Ventral Intermediate Nucleus (VIM), Zona Incerta, Ventral Caudalis (VC) and Ventral Oralis (VO) of the Thalamus</b>
8:10 AM	<b>Advanced Imaging for VIM Targeting</b>
8:30 AM	<b>Transition to Workshop</b>
<b>Hands-On Procedural Skills Lab Workshop</b>	
8:35 AM	<b>VIM Targeting and VR (Hands-On Laboratory – Procedural Skills Lab)</b>
9:55 AM	<b>Stereotactic Approach VIM (Hands-On Laboratory – Procedural Skills Lab)</b>
<b>OR Simulation Workshop</b>	
8:35 AM – 11:15 AM	<b>VIM Programming Directional, Omnidirectional and BrainSense (OR Simulation Room)</b>
11:15 AM	<b>Break</b>
11:35 PM	<b>Lunch Lecture: Intraoperative Patient Evaluation for Tremor</b>
12:35 PM	<b>Microsurgical Anatomy of the Centromedian/Parafascicular Nucleus</b>
12:55 PM	<b>Advanced Imaging and Neural Engineering Technologies</b>
1:15 PM	<b>Break</b>
<b>Hands-On Procedural Skills Lab Workshop</b>	
1:35 PM	<b>CM/Pf Targeting (Hands-On Laboratory – Procedural Skills Lab)</b>
2:55 PM	<b>Stereotactic Approach to CM/Pf (Hands-On Laboratory – Procedural Skills Lab)</b>
<b>OR Simulation Workshop</b>	
1:35 PM – 4:15 PM	<b>CM/Pf programming (OR Simulation Room)</b>
4:15 PM	<b>Transition to Learning Space</b>
4:20 PM	<b>Case Discussion - Decision-Making DBS</b>
4:40 PM	<b>Adjourn</b>
6:00 PM	<b>Dinner and Keynote Lecture (Non-CME)</b>

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<b>Friday March 17, 2023</b>	
<b>Epilepsy and Pain Procedures</b>	
7:00 AM	Breakfast
7:30 AM	Hypothalamic DBS for cluster headaches – when we should consider it?
7:50 AM	LITT Amigdalohipocampectomy Stereotactic Planning and Approach
8:10 AM	Transition to Workshop
<b>Hands-On Procedural Skills Lab Workshop</b>	
8:15 AM	Hypothalamic DBS for cluster headaches (Demonstration & Hands-On Laboratory)
10:05 AM	Amigdalohipocampectomy – LITT Stereotactic Procedure (Demonstration & Hands-On Laboratory)
<b>OR Simulation Workshop</b>	
8:15 AM	Mapping of STN using Microelectrode Recording and Virtual Reality
10:05 AM	Mapping of VO, VIM and VC thalamus using Microelectrode Recording, Tractography and Virtual Reality
12:05 PM	Break
12:20 PM	Lunch Lectures: Microsurgical Techniques in Temporal Lobe Epilepsy  Surgical Anatomy and technical Nuances in Microvascular Surgery for Trigeminal Neuralgia
<b>Hands-On Procedural Skills Lab Workshop</b>	
1:20 PM	Microsurgical Techniques in Temporal Lobe Epilepsy (Demonstration & Hands-On Laboratory)
<b>OR Simulation Workshop</b>	
1:20 PM	Mapping of GPi using Microelectrode Recording and Virtual Reality
2:40 PM	Break
<b>Hands-On Procedural Skills Lab Workshop</b>	
3:00 PM	Microvascular Decompression for trigeminal and glossopharyngeal neuralgia (Demonstration & Hands-On Laboratory)
<b>OR Simulation Workshop</b>	
3:00 PM	Troubleshooting in Deep Brain Stimulation Programming - challenges in patient management
4:00 PM	Adjourn

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