

**Mayo Clinic: Rhoton-de Oliveira Treatment Advances in Neurology and Functional Neurosurgery for Movement Disorders, Epilepsy, and Headache 2024**  
**February 1-3, 2024**  
**Mayo Clinic Florida – Kinne Auditorium & Simulation Center**

**WIFI username:**

**WIFI password:**

<b>Thursday February 1, 2024</b>	
<b>Deep Brain Stimulation and Movement Disorders Procedures</b>	
7:00 AM ET	<b>Breakfast</b>
<b>Didactic – Neurosurgery/Neurology Tracks (Live: Kinne Auditorium &amp; Livestream)</b>	
7:30 AM	<b>Welcome and Introduction</b> <i>Alfredo Quiñones-Hinojosa, MD, Joao Paulo Almeida, MD, PhD, Sanjeet Grewal, MD, and Vanessa Milanese, MD, PhD</i>
8:00 AM	<b>Surgery for Parkinson’s Disease and Dystonia – Patient &amp; Target Selection</b> <i>Sara Casagrande, MD</i>
8:25 AM	<b>Microsurgical Anatomy of the Subthalamic Nucleus (STN)</b> <i>Vanessa Milanese, MD, PhD</i>
8:50 AM	<b>Advanced Imaging for STN Targeting</b> <i>Harith Akram, MBChB, PhD</i>
9:15 AM	<b>Break</b>
9:30 AM	<b>Microsurgical Anatomy and advanced imaging for the Globus Pallidus Internus (GPi)</b> <i>Sanjeet Grewal, MD</i>
9:55 AM	<b>Surgery for Essential Tremor – Patient Selection/Unilateral x Bilateral Approach</b> <i>Ryan Uitti, MD</i>
10:20 AM	<b>Microsurgical Anatomy of the Ventral Intermediate Nucleus (VIM), Zona Incerta, Ventral Caudalis (VC) and Ventral Oralis (VO) of the Thalamus</b> <i>Vanessa Milanese, MD, PhD</i>
10:45 AM	<b>Advanced Imaging for Thalamic Targets</b> <i>Erik Middlebrooks, MD</i>
11:10 AM	<b>How to Build a Movement Disorder Practice</b> <i>Alfonso Fasano, MD</i>
11:35 AM	<b>Break</b>
12:00 PM	<b>Lunch Lectures:</b> <b>12:00-12:20: How and when I choose Focused Ultrasound?</b> <i>Jinwoo Chang, MD, PhD</i> <b>12:20-12:40: How and when I choose Deep Brain Stimulation?</b> <i>Sanjeet Grewal, MD</i> <b>12:40-1:00: How and when I choose Radiosurgery?</b> <i>Evan Thomas, MD, PhD</i>
1:00 PM	<b>Lunch Lecture Panel Discussion</b>
1:30 PM	<b>Break – Transition to Workshops (Livestream ends)</b>
<b>Neurology Track Workshop (Live Only – Kinne Auditorium)</b>	
2:00 PM	<b>Intraoperative Patient Evaluation for the GPi</b> <i>Bryan Klassen, MD</i>
2:40 PM	<b>Intraoperative Patient Evaluation for the STN</b> <i>Sara Casagrande, MD</i>
3:20 PM	<b>STN Directional, Omnidirectional and Brainsense Programming</b> <i>Philip Tipton, MD &amp; Alfonso Fasano, MD</i>
4:00 PM	<b>GPi Programming Directional and Omnidirectional</b> <i>Sara Casagrande, MD &amp; Philip Tipton, MD</i>
4:40 PM	<b>VIM Programming Directional and Omnidirectional</b> <i>Alfonso Fasano, MD and Sara Casagrande, MD</i>

**To ask questions join at:**

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5:20 PM	<b>Adjourn</b>
<b>Neurosurgery Track Workshop (Live Only – Procedural Skills Lab in Simulation Center)</b>	
2:00 PM	<b>Frame Fixation, STN Targeting (Hands-On Laboratory – Procedural Skills Lab)</b> <i>Vanessa Milanese, MD, PhD &amp; all faculty</i>
2:50 PM	<b>Stereotactic Approach to the STN (Hands-On Laboratory – Procedural Skills Lab)</b> <i>Vanessa Milanese, MD, PhD &amp; all faculty</i>
3:40 PM	<b>Stereotactic Approach to the GPi (Hands-On Laboratory – Procedural Skills Lab)</b> <i>Sanjeet Grewal, MD &amp; all Faculty</i>
4:30 PM	<b>VIM Targeting and Virtual Reality (Hands-On Laboratory – Procedural Skills Lab)</b> <i>Kendall Lee, MD, PhD; Erik Middlebrooks, MD &amp; all faculty</i>
5:20 PM	<b>Adjourn</b>

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<b>Friday February 2, 2024</b>	
<b>Deep Brain Stimulation &amp; Epilepsy Procedures</b>	
7:30 AM ET	<b>Breakfast</b>
<b>Didactic – Neurology/Neurosurgery Tracks (Live: Kinne Auditorium &amp; Livestream)</b>	
8:00 AM ET	<b>Microsurgical Anatomy of the Centromedian/Parafascicular and Anterior Nucleus of the thalamus</b> <i>Jamie Van Gompel, MD</i>
8:25 AM	<b>Advanced Imaging and Neural Engineering Technologies</b> <i>Kendall Lee, MD, PhD</i>
8:50 AM	<b>Intracranial monitoring for epilepsy</b> <i>Fredric Meyer, MD</i>
9:15 AM	<b>Break</b>
9:30 AM	<b>Probing connectivity using single pulse electrical stimulation in the human brain</b> <i>Dora Hermes Miller, PhD</i>
9:55 AM	<b>LITT Amygdalohippocampectomy</b> <i>Kai Miller, MD</i>
10:20 AM	<b>LITT Amygdalohippocampectomy Stereotactic Planning and Approach (Demonstration)</b> <i>Kai Miller, MD and all faculty</i>
10:45 AM	<b>CM/Pf and ANT Targeting (Demonstration)</b> <i>Jamie Van Gompel, MD &amp; all faculty</i>
11:20 AM	<b>Break</b>
11:30 AM	<b>Microsurgical Anatomy and Techniques in Epilepsy Surgeries</b> <i>Wen Tzu, MD, PhD</i>
12:10 PM	<b>Break</b>
12:30 PM	<b>Lunch lecture: 35 years of Functional Neurosurgery</b> <i>Robert Wharen, MD</i>
1:30 PM	<b>Break – Transition to Workshops (Livestream ends)</b>
<b>Neurosurgery Track Workshop (Live Only – Procedural Skills Lab in Simulation Center)</b>	
2:00 PM	<b>Microsurgical Techniques in Epilepsy Surgeries</b> <i>Wen Tzu, MD, PhD and all faculty</i>
4:30 PM	<b>Adjourn</b>
<b>Neurology Track Workshop (Live Only – Kinne Auditorium)</b>	
2:00 PM	<b>Troubleshooting in Deep Brain Stimulation Programming &amp; Challenges in Patient Management</b> <i>Alfonso Fasano, MD and Sara Casagrande, MD</i>
2:40 PM	<b>Mapping of STN, GPi and Thalamus Using Microelectrode Recording</b> <i>Bryan Klassen, MD</i>
3:00 PM	<b>Mapping of VO, VIM, and VC Thalamus Using Microelectrode Recording and Tractography</b> <i>Bryan Klassen, MD</i>
3:20 PM	<b>VNS programming &amp; Patient Management</b> <i>William Tatum, DO</i>

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3:40 PM	<b>CM/Pf and ANT programming &amp; Patient Management</b> <i>William Tatum, DO</i>
4:00 PM	<b>RNS programming &amp; Patient Management</b> <i>Brin Freund, MD</i>
4:30 PM	<b>Adjourn</b>
<b>Neurology &amp; Neurosurgery Tracks (Live Only)</b>	
6:00 PM	<b>Welcome Dinner &amp; Keynote Lecture (Non-CME)</b> <b>Symptoms and Connectome based Deep Brain Stimulation</b> <i>Andreas Horn, MD, PhD</i>

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<b>Saturday February 3, 2024</b>	
<b>Deep Brain Stimulation &amp; Pain Procedures</b>	
7:30 AM ET	<b>Breakfast</b>
<b>Didactic – Neurology &amp; Neurosurgery Tracks (Live: Kinne Auditorium &amp; Livestream)</b>	
8:00 AM ET	<b>Anatomical nuances for non-invasive and invasive therapeutic approaches to the trigeminal and occipital nerves</b> <i>Vanessa Milanese, MD, PhD</i>
8:25 AM	<b>Advanced Imaging for non-invasive Neuromodulation</b> <i>Andreas Horn, MD, PhD</i>
8:50 AM	<b>Non-invasive treatment for Migraine</b> <i>Sara Casagrande, MD</i>
9:15 AM	<b>Break</b>
9:30 AM	<b>VTA DBS for trigeminal autonomic cephalalgia – when we should consider it? (Lecture)</b> <i>JP Parker, MD</i>
9:55 AM	<b>VTA DBS for trigeminal autonomic cephalalgia (Demonstration and Hands-On)</b> <i>Harith Akram, MBChB, PhD</i>
10:55 AM	<b>Spinal Cord Stimulation x Lesioning for Trigeminal Neuralgia</b> <i>Rushna Ali, MD</i>
11:20 AM	<b>Microsurgical Anatomy and technical Nuances in Microvascular Surgery for Trigeminal and glossopharyngeal Neuralgia</b> <i>Joao Paulo Almeida, MD, PhD</i>
11:45 AM	<b>Break</b>
12:15 PM	<b>Lunch: Case Discussion - Decision-Making in Facial Pain</b> <i>Bill Cheshire, MD</i>
1:15 PM	<b>Break – Transition to Workshops (Livestream ends)</b>
<b>Neurosurgery Workshop (Live Only – Procedural Skills Lab in Simulation Center)</b>	
1:45 PM	<b>Microvascular Decompression for trigeminal and glossopharyngeal neuralgia</b> <i>Joao Paulo Almeida, MD, PhD and All Faculty</i>
3:00 PM	<b>Spinal Cord Stimulation x Radiofrequency for Facial Pain and Occipital Neuralgia</b> <i>Rushna Ali, MD and Vanessa Milanese, MD, PhD</i>
4:15 PM	<b>Adjourn</b>
<b>Neurology Workshop (Live Only – Kinne Auditorium)</b>	
1:45 PM	<b>Programming session: Live Parkinson’s Disease patient</b> <i>Alfonso Fasano, MD</i>
2:10 PM	<b>Programming session: Live Essential Tremor patient</b> <i>Philip Tipton, MD</i>
2:35 PM	<b>Programming session: Live Dystonia patient</b> <i>Sara Casagrande, MD</i>
3:00 PM	<b>Advanced Techniques for Botulinum Toxin in Movement Disorders and Headache Workshop</b> <i>Sara Casagrande, MD, PhD and all faculty</i>
4:15 PM	<b>Adjourn</b>

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