

DAY 1 Monday, August 5, 2024		
Time	Topic	Presenter(s)
7:00-7:30 am	Registration Faculty to pre-meet from 7-7:30	
7:30-7:40 am	Welcome & Introductions	Dr. Amanda Taylor, Dr. Fred Wininger
7:40-8:30 am	 VP Shunting Get familiar with VP shunt systems Learn tips for surgical technique to avoid shunt failure Recognize the indications for shunt placement Managing common complications 	Dr. William Thomas
8:30-8:45 am	Break	
8:45-10:15 am	Brain Surgeries: Transfrontal, Rostrotentorial, Alternative Methods	Dr. Amanda Taylor
10:15 am – 12:45 pm	Lab: Laboratory Overview, Review Instrumentation, VP Shunt, Transfrontal, Rostrotentorial Perform VP shunt placement Perform rostrotentorial and transfrontal approaches Practice approach for zygomatic osteotomy	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger

















DAY 1 (continued) Monday, August 5, 2024		
Time	Topic	Presenter(s)
12:45-1:45 pm	Lunch	
1:45-2:35 pm	Foramen Magnum Decompression with Titanium Mesh Review indications for foramen magnum decompression Review anatomy of region Learn technique for application of titanium mesh over craniectomy	Dr. William Thomas
2:35-2:50 pm	Break	
2:50-4:50 pm	Lab: Laboratory Overview, Review Instrumentation, Foramen Magnum Decompression, Minimally Invasive Techniques • Perform Foramen Magnum Decompression • Review minimally invasive spine approaches	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger
5 pm	Welcome Reception Faculty to debrief first 15 minutes	

















	DAY 2 Tuesday, August 6, 2024	
Time	Topic	Presenter(s)
7:00-7:30 am	Faculty to pre-meet from 7-7:30	
7:30-8:20 am	AO Principles of Fracture Management	Dr. Sharon Kerwin
8:20-8:35 am	Break	
8:35-9:25 am	Available Techniques for Fracture Stabilization Review use of selection of implant size and drilling Review screws and PMMA Review SOP use Review polyaxial screw use	Dr. Sharon Kerwin
9:35-10:25 am	Indications for Thoracolumbar Stabilization, Screws and PMMA, and How to Plan a Stabilization Case Understand anatomical challenges of thoracolumbar stabilization Learn appropriate corridors for thoracolumbar stabilization Review CT Planning software Learn how to plan stabilization angles and implant size based on CT planning	Dr. Talisha Moore
10:25-11:00 am	Lateral Corpectomy and Durotomy Recognize when these approaches might be useful Recognize anatomical landmarks and practical approaches	Dr. Nick Jeffery
11:00 am – 1:00 pm	 Lab: Laboratory Overview, Review Instrumentation, Thoracolumbar Stabilization, Lateral Corpectomy, Durotomy Faculty Demonstration of Lateral Corpectomy on Cadaver Demonstrate and perform all approaches. Identify important bony landmarks. Perform stabilization with Pins and "PMMA" 	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger

















Time	Tuesday, August 6, 2024 Topic	Presenter(s)
1:00-1:50 pm	Lunch	1 10001101 (0)
1:50-2:20 pm	Lumbosacral Decompression and Stabilization with Polyaxial Implant Systems Recognize indications for stabilization Recognize anatomical landmarks and practicalities Review operation of polyaxial systems Compare alternative procedures at the lumbosacral junction	Dr. Fred Wininger
2:20-2:50 pm	 L7 Foraminotomy Recognize indications for this procedure Learn challenges and advantages of procedure 	Dr. Nick Jeffery
2:50-3:05 pm	Break	
3:05-5:20pm	Lab: Laboratory Overview, Review Instrumentation, LS Decompression and Stabilization; Foraminotomy; Demo • Perform approach for lumbosacral stabilization • Perform approach for lateral foraminotomy • Practice implantation on 3D model using 3D Printed Jigs • Learn how to operate a polyaxial system Perform polyaxial implantation	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger
5:20-6:00 pm	Distribution of CT Study and Practice Planning Stabilization Review case provided to planning example Transform CT study into 3-dimensional images for planning with aid of instructors	Dr. Amanda Taylor, Dr. Fred Wininger

















	DAY 3 Wednesday, August 7, 2024	
Time	Topic	Presenter(s)
7-7:30 am	Faculty meet to prepare for Day 3	
7:30-7:45 am	Questions So Far	Dr. Amanda Taylor, Dr. Fred Wininger
7:45-8:35 am	Craniocervical junction: Stabilization of atlantoaxial subluxation, review of concurrent abnormalities • Demonstrate patient positioning and surgical approach to ventral aspect of the atlantoaxial joint • Select and apply appropriate implants for screw and PMMA stabilization • Review use of 3D printed models for surgical planning	Dr. Fred Wininger
8:35-9:35 am	Cervical Stabilization, Utilization of SOP, Caudal Cervical Spondylomyelopathy (CCSM) Review the approach to ventral cervical spine for implant fixation Recognize advantages and disadvantages of SOP system Discuss the use of distraction with intervertebral spacers Discuss indications for stabilization v. decompression for CCSM	Dr. Amanda Taylor, Dr. Sharon Kerwin
9:35-9:45 am	Break	
9:45 am – 12:15 pm	Lab: Laboratory Overview, Review Instrumentation, Cervical Stabilization, Atlantoaxial Stabilization, CCSM Practice implant placement on 3D AA models Identify and utilize anatomical landmarks to guide implant placement Select and place screws for ventral atlanto-axial fixation with screws and PMMA within cadaver Demonstrate ventral surgical approach to the cervical region Utilize SOP system to stabilize caudal cervical vertebrae	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger

















DAY 3(continued) Wednesday, August 7, 2024		
Time	Topic	Presenter(s)
12:15-1:00 pm	Lunch	
1:00-1:50 pm	 Dorsal Cervical Decompression and Cervical Hemilaminectomy Review approaches for both surgeries, Review tips for cervical hemilaminectomy previously unpublished Visualize landmarks for cervical hemilaminectomy 	Dr. Amanda Taylor
1:50-2:20 pm	 Ventral Slot with Mag Review advantages of magnification in ventral slots Review available forms of magnification 	Dr. Fred Wininger
2:20-2:30 pm	Break	
2:30-5:00 pm	Lab: Laboratory Overview, Review Instrumentation, Dorsal Cervical Stabilization and Decompression, Cervical Hemilaminectomy, Ventral Slot, Optional MM/NN Biopsy Faculty Demonstration of Cervical Hemilaminectomy on Cadaver Perform approach to lateral cervical region and hemilaminectomy Perform dorsal cervical approach and decompression (optional based on need for neurosurgery certificate) Perform ventral slot with aid of magnification Optional – perform nerve and muscle biopsy	Dr. Nick Jeffery, Dr. Sharon Kerwin, Dr. Talisha Moore, Dr. Amanda Taylor, Dr. William Thomas, Dr. Fred Wininger
5 pm	Closing Remarks and Course Wrap Up	Dr. Amanda Taylor, Dr. Fred Wininger
5:10 pm	Faculty Debrief	













