



DAY 1 Thursday, August 17, 2023		
Time	Торіс	Presenter(s)
7:00-7:30 am	Registration Faculty to premeet from 7-7:30	
7:30-7:40 am	Welcome & Introductions	Dr. Amanda Taylor, Dr. Fred Wininger
7:40-8:30 am	<ul> <li>AO Principles of Fracture Management</li> <li>Determination of presence of fracture</li> <li>Principles of stabilization</li> <li>Indications for different stabilization techniques in spine</li> </ul>	Dr. Sharon Kerwin
8:30-9:20 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
9:20-9:35 am	Break	
9:35-10:25 am	Indications for CT Planning and 3D Printing in Spinal Stabilization and Thoracolumbar Stabilization, Screws and PMMA  Review CT Planning software for implants Review mechanisms for 3D printing Understand anatomical challenges of thoracolumbar stabilization Learn appropriate corridors for thoracolumbar stabilization	Dr. Amanda Taylor, Dr. Fred Wininger

























DAY 1 (continued) Thursday, August 17, 2023		
Time	Topic	Presenter(s)
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  Demonstrate and perform all approaches Identify important bony landmarks Utilize 3D printed jigs for implant placement Attempt implant placement without jigs	Dr. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt
1:00-1:50 pm	Lunch	
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	<ul> <li>Foraminotomy</li> <li>Recognize indications for this procedure</li> <li>Learn challenges and advantages of procedure</li> </ul>	Dr. Nick Jeffery

























DAY 1 (continued) Thursday, August 17, 2023		
Time	Topic	Presenter(s)
2:50-5:20pm	Lab: Laboratory Overview, Review Instrumentation, LS Decompression and Stabilization; Foraminotomy; Demo  Perform approach for lumbosacral stabilization Perform approach for lateral foraminotomy Learn how to operate a polyaxial system Perform polyaxial implantation	Dr. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt
5:20-5:50 pm	Review of CT Planning and Overview of Planning Software Up and Distribution of CT Study  Review case provided to planning example  Transform CT study into 3-dimensional images for planning	Dr. Amanda Taylor, Dr. Fred Wininger
5:50 pm	Welcome Reception Faculty to debrief first 15 minutes	



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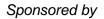








DAY 2 Friday, August 18, 2023		
Time	Topic	Presenter(s)
7-7:30 am	Faculty meet to prepare for Day 2	
7:30-7:45 am	Questions So Far	Dr. Amanda Taylor, Dr. Fred Wininger
7:45-8:35 am	Craniocervical junction: Stabilization of atlantoaxial subluxation, review of concurrent abnormalities  Demonstrate patient 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	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. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt

















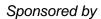






DAY 2 (continued) Friday, August 18, 2023		
Time	Торіс	Presenter(s)
12:15-1:00 pm	Lunch	
1:00-1:50 pm	<ul> <li>Dorsal Cervical Decompression and Cervical Hemilaminectomy</li> <li>Review approaches for both surgeries</li> <li>Review tips for cervical hemilaminectomy previously unpublished</li> <li>Visualize landmarks for cervical hemilaminectomy</li> </ul>	Dr. Amanda Taylor
1:50-2:20 pm	<ul> <li>Ventral Slot with Mag</li> <li>Review advantages of magnification in ventral slots</li> <li>Review available forms of magnification</li> </ul>	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  Preform approach to lateral cervical region and hemilaminectomy  Perform dorsal cervical approach and decompression  Perform ventral slot with aid of magnification  Optional – perform nerve and muscle biopsy	Dr. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt
5-5:15 pm	Faculty Debrief	
5:30 pm	Informal Cocktail Hour	























DAY 3 Saturday, August 19, 2023		
Time	Торіс	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
7:45-8:15 am	<ul> <li>VP Shunting</li> <li>Be familiar with VP shunt systems</li> <li>Learn tips for surgical technique to avoid shunt failure</li> <li>Recognize the indications for shunt placement</li> <li>Managing common complications</li> </ul>	Dr. William Thomas
8:15-9:15 am	<ul> <li>Brain Surgeries: Transfrontal, Rostrotentorial, Alternative Methods</li> <li>Assess the suitability of approaches for surgical access</li> <li>Demonstrate appropriate patient positioning &amp; surgical approach</li> <li>Select/apply appropriate materials for closure</li> <li>Describe anatomic landmarks for skin incision, muscle dissection and osteotomy</li> <li>Determine whether zygomatic osteotomy may be necessary</li> <li>Create an appropriate post-operative monitoring and treatment plan for veterinary patients undergoing these surgeries</li> </ul>	Dr. Simon Platt
9:15-9:20 am	Break	
9:20 am – 12:00 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. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt

























DAY 3 (continued) Saturday, August 19, 2023		
Time	Topic	Presenter(s)
12:00-12:45 pm	Lunch	
12:45-1:15 pm	Foramen Magnum Decompression with Titanium Mesh	Dr. William Thomas
1:15-2:05 pm	Minimally Invasive Technique  Learn indications for minimally invasive spinal surgery Review instrumentation for minimally invasive techniques Review advantages of minimally invasive techniques	Dr. Richard Chua
2:05-2:20 pm	Break	
2:20-4:20 pm	Lab: Laboratory Overview, Review Instrumentation, Foramen Magnum Decompression, Minimally Invasive Techniques  Perform Foramen Magnum Decompression Review minimally invasive spine approaches	Dr. Sharon Kerwin, Dr. Nick Jeffery, Dr. Amanda Taylor, Dr. Fred Wininger, Dr. William Thomas, Dr. Simon Platt
4:20 pm	Closing Remarks and Course Wrap Up	Dr. Amanda Taylor, Dr. Fred Wininger

















