



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	 AO Principles of Fracture Management Determination of presence of fracture Principles of stabilization Indications for different stabilization techniques in spine 	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

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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	 Foraminotomy Recognize indications for this procedure Learn challenges and advantages of procedure 	Dr. Nick Jeffery

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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 8:35-9:35 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 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. Fred Wininger 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

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DAY 2 (continued) Friday, August 18, 2023		
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 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	

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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	 VP Shunting Be 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
8:15-9:15 am	 Brain Surgeries: Transfrontal, Rostrotentorial, Alternative Methods Assess the suitability of approaches for surgical access Demonstrate appropriate patient positioning & surgical approach Select/apply appropriate materials for closure Describe anatomic landmarks for skin incision, muscle dissection and osteotomy Determine whether zygomatic osteotomy may be necessary Create an appropriate post-operative monitoring and treatment plan for veterinary patients undergoing these surgeries 	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

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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 Review indications for foramen magnum decompression Review anatomy of region Learn technique for application of titanium mesh over craniectomy	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

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