

ESCOME Laboratory Outline – Advanced Course

(v 1.09)

Week 1

Monday

Morning		Afternoon	
08:30 – 10:30	<ul style="list-style-type: none">• Introductions, Tour of Campus & Medical Education Building	12:30 – 14:00	Standard Anterior Extensile Cervical Approaches Including Vertebral Artery
10:30 – 11:30	<ul style="list-style-type: none">• Technical Details of Anterior Cervical Surgery and Posterior Cervicothoracic Osteotomy	14:00 – 14:30	Retropharyngeal Approach
		14:30 – 15:30	Odontoid Screw Anterior Fixation
		15:30 – 16:30	Transoral Odontoid Resection
	<ul style="list-style-type: none">• Lecture		

Week 1 – Advanced Course

Tuesday

Morning		Afternoon	
08:30 – 10:00	Cervical Disc Arthroplasty at C5 & C6, C6 & C7	13:00 – 14:30	C4 Corpectomy with Plate C3 – C5
10:00 – 11:00	Cervical Disc Arthroplasty at C3 & C4, C4 & C5	14:30 – 15:30	C5 Corpectomy with Plate C3 – C7 Strut with Kick Plate
11:00 - noon	C6 Corpectomy & Reconstruction With Fixation C5-7	15:30 – 17:00	Sternal Splitting Approach with Fixation C7 - T2

Week 1 – Advanced Course

Wednesday

Morning		Afternoon	
08:30 – 10:00	Minimally Invasive Cervical Foramenotomy C4-5, C5-6	13:30 – 15:00	Cervical Pedicle Screws C3-T3
10:00 – 11:00	C1 – C2 Wiring & Fusion (Brooks) and Sublaminar, Midcervical Wire Passage Gallie Wiring	15:00 – 16:30	C7 Osteotomy with Cervicothoracic Instrumentation
11:00 – 12:30	Cervical Laminoplasty C3-5, C6-T1		<u>NOTE:</u> Need table with head holder

Week 1 – Advanced Course

Thursday

Morning		Afternoon	
08:30 – 10:00	Lateral Mass Fixation C3-T1 with Cervical Pedicle Screws	14:00 – 14:30	● Details of Surgical Instrumentation of the Thoracic Spine
10:00 – 11:30	C2 Pedicle Screw Constructs and Atlantoaxial Screw Fusions C1-2	14:30 – 15:00	● Thoracic Pedicle Screw Techniques
11:30 – 13:00	Occipital Fixation and Occipitocervical Fusions C- Arm all day	15:00 – 17:00	Freehand and Image Guidance (C-Arm and 3D Navigation Techniques), Rod Bending and Constructs
			● Lecture

Week 1 – Advanced Course

Friday

Morning		Afternoon	
08:30 – 10:00	Posterior Transpedicular Approach T5-7	12:30 – 14:30	Vertebroplasty and Kyphoplasty – Lumbar Spine
10:00 – 11:30	Posterior Thoracic Retropleural Approach with Corpectomy T8-10	14:30 – 15:30	<ul style="list-style-type: none"> ● Scoliosis and Trauma Surgery <ul style="list-style-type: none"> • Basic Principles • Rod Contouring • In Situ Bending • Compression, Distraction Techniques • Rod Rotational Maneuvers • Sequential Rod Reduction Techniques
		15:30- 16:30	<ul style="list-style-type: none"> ● Thoracic Hook Strategies Techniques and Instrumentation
	C-Arm all day		<ul style="list-style-type: none"> ● Lecture

Week 2 – Advanced Course

Monday

Morning		Afternoon	
08:30 – 09:00	<ul style="list-style-type: none">• Details of Anterior Thoracic and Lumbar Reconstruction	13:45 – 15:00	Left Thoracoabdominal 10 th Rib Extensile Approach T11-L4
09:00 – 10:45	Right 5 th Rib Thoracotomy Discectomy Depression and Fusion T6 – T7 and T7 – T8	15:00 – 16:30	Discectomy Instrumentation and Fusion with Cages T11-L4 (Corpectomy Optional)
10:45 – 12:45	Corpectomy and Reconstruction T 5-7 & T8-10 <ul style="list-style-type: none">• Titanium Cages• Femoral Ring Allograft• Polymer Cages• Rod/Screw Constructs, Single and Dual Rods• Plates		
	<ul style="list-style-type: none">• Lecture		

Week 2 – Advanced Course

Tuesday

Morning		Afternoon	
08:30 – 10:30	Percutaneous Minimally Invasive TLIF Right L4-5, Left L5-S1	13:30 – 14:00	● Sacral Pelvic Anterior and Posterior Fixation
10:30 – 12:30	Pedicle Subtraction Osteotomy L2, L4	14:00 – 15:30	S2 Alar Iliac and Iliosacral Fixation
		15:30 – 16:30	Jackson Intrasacral Rod Technique
			● Lecture

Week 2 – Advanced Course

Wednesday

Morning		Afternoon	
08:30 – 10:30	Enbloc Spondylectomy T4-6, T8-10	13 :00 -15:00	Percutaneous Lumbar Discectomy
10:30 – 12:30	Vertebral Column Resection T11-12, L1-2	15 :00 – 16:30	Percutaneous Lumbar Instrumentation

Week 2 – Advanced Course

Thursday

Morning		Afternoon	
	Live Animal Lab	13:30 – 15:00	Dome Sacretomy and Spondylolisthesis Reduction
08:30 – 10:30	Percutaneous Lumbar Foramenotomy and Disc Approach	15:00 – 16:00	Removal of Broken Screws and Fixation Salvage
10:00 – 12:30	Thoracoscopy with Stapling		

Week 2 – Advanced Course

Friday

Morning		Afternoon	
08:30 – 10:00	Extensive Retroperitoneal Exposure with Lumbar Iliolumbar Mobilization L1-S1	12.:30 – 14:30	Corpectomy L2-4 with Strut and Instrumentation
10:00 – 11:30	Radial Diskectomy L1-3, L3-5	14:30 – 16:00	Anterior Trans Psoas Exposure with Instrumentation

Week 3 – Advanced Course

Monday

Morning		Afternoon	
08:30 – 10:00	High Thoracotomy Exposure T2-6	12:00 – 16:00	Review and Refine Anterior Techniques Selected by Partner Surgeon Pairs
10:00 – 11:00	VEPTR		

Week3 – Advanced Course

Tuesday

Morning		Afternoon	
08:30 – 09:15	<ul style="list-style-type: none">● Important Considerations for Surgical Support (Anesth. Nursing, etc.)	13:30 – 16:30	Partner Surgeons Present Controversial or Complex Cases for Discussion
09:15 – 12:30	Review and Refine Posterior Techniques Selected by Partner Surgeon Pairs		
	<ul style="list-style-type: none">● Lecture		(Course Diploma and Certificate issued at completion of mentor's 4 th visit to partner's facilities)