

AO Trauma Course - Advanced Principles of Fracture Management

Day 1: Thursday, February 24, 2022

Time	Topic	
Opening		
9:00	9:10	Welcome and introduction
Review of the principles and new techniques		
9:10	9:25	Review of the principles of fracture management
9:25	9:40	Clinical applications for locked plating
9:40	9:55	Tissue vitality and effect of injury
9:55	10:10	The 2018 AO/OTA Fracture and Dislocation Classification update
10:10	10:25	Fracture reduction
10:25	10:40	Minimally invasive osteosynthesis (MIO)—minimizing surgical footprints
10:40	10:50	Summary and Q&A
10:50	11:10	<i>COFFEE BREAK</i>
11:10	12:30	Small group discussion 1: Reduction techniques—concepts and application
12:30	13:20	<i>LUNCH BREAK</i>
Injuries of the upper limb		
13:20	13:40	Fractures of the scapula: indication for surgery and methods of fixation
13:40	13:55	Fractures of the clavicle: when and how to operate—indications and methods of fixation
13:55	14:10	Proximal humeral fractures—to fix, replace, or treat nonoperatively?
14:10	14:25	Complex humeral shaft fractures
14:25	14:40	Distal humerus—intraarticular fractures and complications
14:40	14:55	Fracture dislocation of the elbow
14:55	15:10	Distal radial fractures
15:10	15:20	Summary and Q&A
15:20	15:40	<i>COFFEE BREAK</i>
15:40	16:55	Small group discussion 2: Upper extremity fractures—decision-making and methods of stabilization
16:55	17:05	<i>Location change to practicals</i>
17:05	18:25	Practical exercise 1: Fixation of a four-fragment fracture in the proximal humerus using a proximal humeral interlocking system (PHILOS) plate
18:25		<i>End of day 1</i>

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Day 2: Friday, February 25, 2022

Time	Topic
Injuries of the lower limb	
8:00	8:15 Femoral neck fractures—different patients, different problems
8:15	8:30 Intertrochanteric fractures—treatment options and outcomes
8:30	8:45 Current treatment and options of subtrochanteric fractures
8:45	9:00 Femoral shaft fractures
9:00	9:15 Distal femoral fractures—treatment options and outcomes
9:15	9:25 Summary and Q&A
9:25	9:30 <i>Location change to practicals</i>
9:30	10:50 Practical exercise 2: Distal femur: fixation of an intraarticular type 33C2.1 fracture using an LCP distal femoral plate
10:50	11:10 <i>COFFEE BREAK</i>
11:10	12:30 Small group discussion 3: Fractures of the femur
12:30	13:20 <i>LUNCH BREAK</i>
Injuries of the lower limb 2	
13:20	13:35 Complex tibial plateau fractures
13:35	13:50 Tibial shaft fractures (proximal, distal, and segmental)
13:50	14:05 Early and definitive treatment of pilon fractures
14:05	14:20 Complex malleolar fractures
14:20	14:35 Calcaneal fractures—predicting and avoiding problems
14:35	14:50 Talar neck fractures and complications
14:50	15:05 Navicular and Lisfranc injuries and complications
15:05	15:15 Summary and Q&A
15:15	15:30 <i>COFFEE BREAK</i>
15:30	16:45 Small group discussion 4: Fractures of the tibia, ankle, and foot
16:45	16:55 <i>Location change to practicals</i>
16:55	18:15 Practical exercise 3: Management of a type 41C3 bicondylar tibial plateau fracture using an LCP
18:15	<i>End of day 2</i>

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Day 3: Saturday, February 26, 2022

Time	Topic
8:00	9:30 Practical exercise 4: Management of a type 43C2.3 distal tibial fracture using an LCP distal tibial plate and an LCP one-third tubular plate
9:30	9:50 <i>COFFEE BREAK</i>
	Polytrauma, pelvis, and acetabulum
9:50	10:05 Management of multiple-injured patients (ETC/DCO/EAC)
10:05	10:20 Evaluation and emergency management of pelvic ring injuries
10:20	10:35 Fracture treatment of pelvic ring injuries
10:35	10:55 Principles of acetabular fracture management
10:55	11:05 Summary and Q&A
11:05	11:10 <i>Location change to small group discussions</i>
11:10	12:15 Small group discussion 5: Decision-making in difficult fractures and polytrauma patients
12:15	13:00 <i>LUNCH BREAK</i>
	Special situations and problems
13:00	13:15 Principles of orthogeriatric fracture care (osteoporotic fractures)
13:15	13:30 Periprosthetic fractures
13:30	13:45 Deep vein thrombosis (DVT) prophylaxis
13:45	14:00 Bone grafts and bone graft substitutes to promote fracture union— options and outcomes
14:00	14:15 Mangled extremity management
14:15	14:30 Management of malunion
14:30	14:45 Infection after osteosynthesis
14:45	15:00 Treatment of metaphyseal and diaphyseal nonunions
15:00	15:40 Grand final discussion
15:40	15:45 Closing remarks
15:45	<i>End of the course</i>