AOTrauma Course — Basic Principles of Fracture Management

Day 1

Time		Activity	Speaker	Moderator	Table Instructor
0830-0920		Registration			
0920-0930	10	Welcome and introduction	박기철		
		1. Introductory lectures - combined session with Advanced Course		김기용	
0930-0945	15	The AO world—From history to lifelong learning	변영수		
0945-1000	15	The (soft-tissue) injury—a high priority consideration	S Velkes		
1000-1015	15	Fracture fixation using locking plates	CH Chen		
1015-1030	15	Influence of the patient factors and the injury mechanism on fracture management	오형근		
1030-1040	10	Session discussion			
1040-1100	20	Group photo & coffee break			
		2. Basic principles (I)		변영수	
1100-1110	10	Biology of bone healing—review of eLearning activity	송형근		
1110-1120	10	AO classification of fractures long bones-review of eLearning activity	손훈상		
1120-1135	15	Absolute stability: biomechanics, techniques and fracture healing	한승범		
1135-1150	15	Relative stability: biomechanics, techniques and fracture healing	박기철		
1150-1200	10	Session discussion			
1200-1320		Practical exercise 1 (Group 1,2,3) 1. Internal fixation with screws and plates—absolute stability • Video: 00110, (lag screw, position screw, plate with overbending) • Bone model: 0066 2. The principle of the internal fixator using the locking compression plate - relative stability Video : 00112 Bone model : 0068, 0081		임승재	Table A : 장재훈 Table B : 이광철 Table C : 이영균 Table D : 송형근
1200-1320		Small group discussion 1 (Group 4,5,6) Discussion on general principles, classification, concepts of stability, their influence on bone healing and how to apply implants to achieve appropriate stability		Group 4 : 심재앙, 윤용철, CC Wu Group 5 : 한승범, 남광우 Group 6 : 오형근, 조영호, CH Chen	
1320-1410		Lunch Break			
1410-1530		Practical exercise 1 (Group 4,5,6) 1. Internal fixation with screws and plates—absolute stability • Video: 00110, (lag screw, position screw, plate with overbending) • Bone model: 0066 2. The principle of the internal fixator using the locking compression plate - relative stability, Video : 00112 / Bone model : 0068, 0081		황규태	Table A : 김영우 Table B: 송종훈 Table C: 조재우 Table D: 김형진
1410-1530		Small group discussion 1 (Group 1,2,3) Discussion on general principles, classification, concepts of stability, their influence on bone healing, and how to apply implants to achieve appropriate stability		Group 1 : 임승재 , 장재훈 Group 2 : 심재앙, 이광철 Group 3 : 한승범, 이영균	
		3. Basic principles (II)		한승범	
1530-1545	15	Principles of diaphyseal fracture management—what is important in treating these fractures?	황규태		
1545-1600	15	Reduction techniques of diaphyseal fractures—principles and methods	박기철		
1600-1615	15	Management principles for articular fractures—how do they differ from diaphyseal fractures?	윤용철		
1615-1630	15	Reduction techniques for articular fractures—principles and methods	심재앙		
1630-1640		Session discussion			
1640-1700		Coffee Break			
1700-1900		AO Skills Lab	오형근		
		A. Torque measurement of bone screws (12') B. Soft-tissue penetration during drilling (12') C. Heat generation during drilling (12') D. Mechanics of bone fracture (12') E. Fracture healing (12') F. Techniques of reduction (12') G. Mechanics of intramedullary fixation (12') H. Mechanics of plate fixation, part 1 (12') J. Mechanics of plate fixation,part 2 (12') K. Damaged implant removal (12')		Table A : 김영우 Table B : 장재훈 Table C : 조영호 Table D : 조재우 Table E : 이광철 Table F : 송형근 Table G : 윤용철 (Floating TI : 김형진) Table H : 황규태 (Floating TI : 송종훈) Table J : 남광우 Table K : 임승재 (Floating TI : 이영균)	
1900		End of Day 1			
1910		Course Banquet			

AOTrauma Course — Basic Principles of Fracture Management

Day 2

Time		Activity	Speaker	Moderator	Table Instructor
0800-0850		Practical exercise 2 : Tibial fractures treated with different external fixator frame constructs—assessment of stability (Group 1,2,3)		심재앙	Table A : 송종훈 Table B : 장재훈 Table C : 김형진 Table D : 조재우
0800-0850		Small group discussion 2 (Group 4,5,6) Management principles for the treatment of diaphyseal fractures I		Group 4 : 오형근, 황규태 Group 5 : 김지완, 윤용철 Group 6 : 정구희, 송형근	
0850-0905		Coffee break			
0905-0955		Practical exercise 2 : Tibial fractures treated with different external fixator frame constructs—assessment of stability (Group 4,5,6)		임승재	Table A : 이광철 Table B : 남광우 Table C : 조영호 Table D : 김영우
0905-0955		Small group discussion 2 (Group 1,2,3) Management principles for the treatment of diaphyseal fractures I		Group 1 : 박기철, 이영균 Group 2 : 오창욱, 조재우 Group 3 : 오형근, 장재훈	
		4. Preoperative planning		정웅교	
0955-1010		Forearm fractures need understanding of principles for diaphyseal and articular fractures	오형근		
1010-1110		Preoperative planning—“plan your forearm operation” Templating exercise (in lecture room)	오형근		
1110-1210		Practical exercise 3 (Group 1,2,3) Operate your plan—fixation of a 22-C1 forearm fracture using the LCP 3.5 (8 and 11 holes) • Video : 00113 • Bone model: 6501		정웅교	Table A : 이광철 Table B : 김영우 Table C : 송종훈 Table D : 김형진
1110-1210		Small group discussion 3 (Group 4,5,6) Management principles for the treatment of diaphyseal fractures II		Group 4 : 이준영, 송형근 Group 5 : 임승재, 윤용철 Group 6 : 김학준, 황규태	
1210-1300		LUNCH BREAK			
1300-1400		Practical exercise 3 (Group 4,5,6) Operate your plan—fixation of a 22-C1 forearm fracture using the LCP 3.5 (8 and 11 holes) • Video : 00113 • Bone model: 6501		정웅교	Table A : 이광철 Table B : 송종훈 Table C : 김영우 Table D : 김형진
1300-1400		Small group discussion 3 (Group 1,2,3) Management principles for the treatment of diaphyseal fractures II		Group 1 : 김지완, 조영호 Group 2 : 오형근, 남광우 Group 3 : 심재앙, 이영균	
		5. Specific fx. : articular I		한승범	
1400-1415		Femoral neck fractures	임승재		
1415-1430		Trochanteric fractures	한승범		
1430-1445		Distal femoral fractures—management principles	CC Wu		
1445-1500		Tibia plateau fractures	CH Chen		
1500-1510		Session discussion			
1510-1530		Practical exercise 4 (Group 1,2,3) Tension band wiring of the olecranon • Video: 00132 • Bone model: 6011		송형근	Table A : 조재우 Table B : 송종훈 Table C : 김형진 Table D : 이광철
1530-1610		Practical exercise 5 (Group 1,2,3) Management of a malleolar fracture type 44–B • Video: 00114 • Bone model: 3118		김학준	
1510-1610		Small group discussion 4 (Group 4,5,6) Management principles for the treatment of articular fracture I		Group 4 : 손훈상, 장재훈 Group 5 : 정구희, 황규태 Group 6 : 김지완, 윤용철	
1610-1625		Coffee break			
1625-1645		Practical exercise 4 (Group 4,5,6) Tension band wiring of the olecranon • Video: 00132 • Bone model: 6011		윤용철	Table A : 장재훈 Table B : 김영우 Table C : 조재우 Table D : 송종훈
1645-1725		Practical exercise 5 (Group 4,5,6) Management of a malleolar fracture type 44–B • Video: 00114 • Bone model: 3118		이준영	
1625-1725		Small group discussion 4 (Group 1,2,3) Management principles for the treatment of articular fracture I		Group 1 : 임승재, 이영균 Group 2 : 김학준, 남광우 Group 3 : 오형근, 조영호, CC Wu	
		6. Specific fx : articular II		오형근	
1725-1740		Ankle fractures—a logical approach for their fixation	이준영		
1740-1755		Distal radial fractures—which to fix? How to fix?	S Rao		
1755-1810		Fractures of the olecranon and patella	김지완		
1810-1820		Session discussion			
1820-1920		Practical exercise 6 (Group 1,2,3) Tibial shaft fractures—intramedullary nailing with the expert tibia nail - with reaming (ETN) • Video: 00130 • Bone model: 1149 – 01		김지완	Table A: 이영균 Table B: 이광철 Table C: 손훈상 Table D: 조영호
1820-1920		Small group discussion 5 (Group 4,5,6) Management principles for the treatment of articular fracture II		Group 4 : 황규태, 장재훈 Group 5 : 송형근, 조재우 Group 6 : 윤용철, 김영우	
1920		End of day 2			

AOTrauma Course — Basic Principles of Fracture Management

Day 3					
Time		**Activity**	**Speaker**	**Moderator**	**Table Instructor**
0800-0900		Practical exercise 6 (Group 4,5,6) Tibial shaft fractures—intramedullary nailing with the expert tibia nail - with reaming (ETN) • Video: 00130 • Bone model: 1149 – 01		손욱진	Table A : 송종훈 Table B : 김형진 Table C : 장재훈 Table D : 조재우
0800-0900		Small group discussion 5 (Group 1,2,3) Management principles for the treatment of articular fracture II		Group 1 : 김강일, 이광철 Group 2 : 김지완, 조영호 Group 3 : 손훈상, 김영우	
		7. Emergency management and minimally invasive surgery		민병우	
0900-0915		Radiation hazards	손욱진		
0915-0930		Minimally invasive osteosynthesis (MIO) - when to use it?	CH Chen		
0930-0945		Treatment algorithms for the polytrauma patient	임승재		
0945-1000		Emergency management of pelvic fractures - a critical skill can save lives	송형근		
1000-1010		Session discussion			
1010-1025		Coffee break			
1025-1125		Practical exercise 7 (Group 1,2,3) Intramedullary nailing of a proximal femur using a proximal femoral nail anti-rotation (PFNA) • Video: 00125 • Bone model: 2220		장재석	Table A : 조재우 Table B : 이영균 Table C : 조영호 Table D : 남광우
1025-1125		Small group discussion 6 (Group 4,5,6) Final case discussion on selected topics I :Polytrauma, Complications, Special fractures, e.g. geriatric fractures, osteoporosis, periprosthetic fractures		Group 4 : 민병우, 이광철 Group 5 : 임승재, 송형근 Group 6: 박기철, 장재훈	
		8. Special issues and problems		손욱진	
1125-1140		Implant removal - why, when, and how?	손훈상		
1140-1155		Management of open fractures	이근배		
1155-1210		Infection after ORIF	손욱진		
1210-1220		Session discussion			
1220-1320		Practical exercise 7 (Group 4,5,6) Intramedullary nailing of a proximal femur using a proximal femoral nail anti-rotation (PFNA) • Video: 00125 • Bone model: 2220		장재석	Table A : 송형근 Table B : 이광철 Table C : 장재훈 Table D : 조재우
1220-1320		Small group discussion 6 (Group 1,2,3) Final case discussion on selected topics I:Polytrauma, Complications, Special fractures, e.g. geriatric fractures, osteoporosis, periprosthetic fractures		Group 1 : 민병우, 이영균 Group 2 : 오형근, 조영호 Group 3 : 손욱진, 남광우	
1320-1410		LUNCH BREAK			
1410-1510		Practical exercise 8 (Group 1,2,3) Stabilization of the pelvic ring using a large external fixator		민병우	Table A : 이영균 Table B : 조영호 Table C : 남광우 Table D : 윤용철
1410-1510		Small group discussion 7 (Group 4,5,6) Final case discussion on selected topics II:Polytrauma, Complications, Special fractures, e.g. geriatric fractures, osteoporosis, periprosthetic fractures		Group 1 : 임승재, 송종훈 Group 2 : 손훈상, 조재우 Group 3: 오형근, 김형진	
1510-1525		Coffee Break			
1525-1625		Practical exercise 8 (Group 4,5,6) Stabilization of the pelvic ring using a large external fixator		민병우	Table A : 손훈상 Table B : 김영우 Table C : 송종훈 Table D : 김형진
1525-1625		Small group discussion 7 (Group 1,2,3) Final case discussion on selected topics II:Polytrauma, Complications, Special fractures, e.g. geriatric fractures, osteoporosis, periprosthetic fractures		Group 1 : 임승재, 이광철 Group 2 : 김지완, 조재우 Group 3 : 정구희, 장재훈	
		9. Special issues and problems-combined session with Advances		박기철	
1625-1640		Delayed healing—causes and treatment principles	오창욱		
1640-1655		Violation of principles	박기철		
1655-1705		Session discussion			
1705-1715		Course evaluation & closing remarks			
1715		End of the course			