

AOTrauma Course—Basic Principles of Fracture Management

03 Dec 2017 - 08 Dec 2017, Davos, Switzerland

Pre course: Sunday, 03 Dec 2017

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
12:00	13:30	Presentation "Pre course—Part 1: Joint session (all courses) AGENDA: to be announced LOCATION: Davos	Roger Bingham; Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; Mamoun Kremli; James Krieg; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Marinis Pirpiris; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		90
13:30	17:00	Presentation Pre course—Part 2: Basic Principles Course (COMPULSORY FOR ALL BASIC PRINCIPLES FACULTY) AGENDA: to be announced LOCATION: Aspen 1	Roger Bingham; Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; Mamoun Kremli; James Krieg; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Marinis Pirpiris; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		210

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Sunday, 03 Dec 2017 (Day 1)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration	
15:00	17:00	Other Registration of participants			120	
17:00	18:00	Other Opening ceremony			60	
18:00	19:00	Other FOUNDERS' RECEPTION			60	

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Monday, 04 Dec 2017 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
08:00	08:10	Opening remarks Welcome and introduction	Mamoun Kremli; Marinis Pirpiris		10
08:10	09:10	Module 1 Injury pattern (soft-tissue and bone) and biology of bone healing At the end of this module participants will be able to: • Describe how patient-related factors affect the management of fractures • Describe the importance of soft-tissue in fracture healing • Use the AO/OTA Fracture and Dislocation Classification to describe a fracture	Marinis Pirpiris		60
08:10	08:20	Lecture Keynote lecture—the AO world—from history to lifelong learning	Mamoun Kremli		10
08:20	08:35	Lecture Influence of patient factors and mechanism of injury on fracture management	Ari Levine		15
08:35	08:50	Lecture The soft-tissue injury—a high-priority consideration	Marinis Pirpiris		15
08:50	09:00	Lecture Review of learning outcomes of precourse eLearning module—the biology of bone healing	Sue Deakin		10
09:00	09:10	Lecture Review of learning outcomes of precourse eLearning module—The Müller/-AO Classification of Fractures	David Hahn		10

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Monday, 04 Dec 2017 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
09:10	09:30	COFFEE BREAK			20
09:30	17:55	Module 2 Stability and biomechanics of bone healing At the end of this module participants will be able to: • Explain the biology of fracture healing and how it is affected by fracture treatment • Define absolute and relative stability and describe their effect on fracture healing • Describe the biomechanics of locking compression plates (LCPs) and how to achieve different types of stability • Explain the principles and steps of the lag screw technique	Adam Brooks		505
09:30	09:50	Lecture Absolute stability—biomechanics, techniques, and fracture healing	Frederick Du Plessis		20
09:50	10:10	Lecture Relative stability—biomechanics, techniques, and fracture healing	David Hahn		20
10:10	10:25	Lecture Plate design and function	Roger Bingham		15
10:25	10:30	Other LOCATION CHANGE TO PRACTICAL EXERCISE			5

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Start	End	Title	Moderators/Faculty	Location/Documents	Duration
10:30	12:20	Workshop Practical exercise 1 Internal fixation with screws and plates—absolute stability Practical Directors: M Odat, J Roman	Adam Brooks; John Clarke-Jenssen; Sue Deakin; Frederick Du Plessis; Ayman El Sharawy; Gustavo Fiorentini; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Mahmoud Odat; IHSAN OESMAN; Mario Rancan; Oleksandr Rikhter; Javier Roman; Sami Sökücü; Giovanni Vicenti; Minghui Yang		110
12:20	13:20	LUNCH BREAK			60
13:20	14:30	Workshop Practical exercise 2 Principles of the internal fixator using LCP Practical Directors: J Mutimer, G Vicenti	Husam Darwish; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Mario Rancan; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong		70
14:30	14:35	Other LOCATION CHANGE TO SKILLS LAB			5

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Monday, 04 Dec 2017 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
14:35	16:35	Workshop AO Skills Lab A * Note: participants spend 10 minutes at each station, then rotate Station A – Torque measurement of bone screws - J Mutimer Station B – Soft-tissue penetration during drilling - M Odat Station C – Heat generation during drilling - I Oesman Station D – Mechanics of bone fractures - M Rancan Station E – Techniques of reduction, part 1 - J Roman Station F – Techniques of reduction, part 2 - J Salavarrieta Station G – Mechanics of intramedullary fixation - S Sökücü Station H – Mechanics of plate fixation - R Bingham Station J – Fracture healing and plate fixation - G Vicenti Station K – Difficult implant removal - M Yang	Roger Bingham; Mamoun Kremli; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Mario Rancan; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Minghui Yang		120

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Monday, 04 Dec 2017 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
14:35	16:35	Workshop AO Skills Lab B * Note: participants spend 10 minutes at each station, then rotate Station A – Torque measurement of bone screws - A Brooks Station B – Soft-tissue penetration during drilling - J Clarke-Jenssen Station C – Heat generation during drilling - S Deakin Station D – Mechanics of bone fractures - J Eastman Station E – Techniques of reduction, part 1 - H Darwish Station F – Techniques of reduction, part 2 - G Fiorentini Station G – Mechanics of intramedullary fixation - D Hahn Station H – Mechanics of plate fixation - J Krieg Station J – Fracture healing and plate fixation - W Lavadia Station K – Difficult implant removal - J Lowe	Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Jonathan Eastman; Gustavo Fiorentini; David Hahn; James Krieg; William Lavadia; Jason Lowe; Marinis Pirpiris		120
16:35	16:55	COFFEE BREAK			20

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Monday, 04 Dec 2017 (Day 2)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
16:55	17:55	Discussion (small group) Discussion group 1 General principles, classification, concepts of stability, their influence on bone healing, and how to apply implants to achieve appropriate stability Group 1 – Landwasser 1 Group 2 – Landwasser 2 Group 3 – Landwasser 3 Group 4 – Landwasser 4 Group 5 – Landwasser 5 Group 6 – Landwasser 6 Group 7 – Landwasser 7 Group 8 – Landwasser 8 Group 9 – Landwasser 9 Group 46 – Aspen	Roger Bingham; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; James Krieg; Anze Kristan; Ari Levine; Jason Lowe; Jon Mutimer; Mahmoud Odat; Dan Putineanu; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Chya Wei Wong		60

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Tuesday, 05 Dec 2017 (Day 3)						
Start	End	Title	Moderators/Faculty	Location/Documents	Duration	
08:00	08:15	Lecture Questions and conclusions—injury pattern, biology of bone healing, and stability	Jason Lowe		15	
08:15	13:25	Module 3 Surgical treatment of diaphyseal fractures At the end of this module participants will be able to: • Describe the treatment goals for diaphyseal fractures • Describe the treatment principle for diaphyseal fractures in the upper and lower extremities • Determine the type of reduction and stability needed for diaphyseal fractures • Explain the rationale behind preoperative planning and the importance of careful decision-making with regard to reduction technique, implant requirements, and fixation techniques	Mahmoud Odat		310	
08:15	08:35	Lecture Principles of diaphyseal fracture management—what is important in treating these fractures?	Adam Brooks		20	
08:35	08:50	Lecture Reduction techniques of diaphyseal fractures—principles and methods	James Krieg		15	
08:50	09:05	Lecture Fractures of the femoral diaphysis (including subtrochanteric)—management principles	Sami Sökücü		15	
09:05	09:25	Lecture Intramedullary (IM) nailing—to ream or not to ream	John Clarke-Jenssen		20	

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Tuesday, 05 Dec 2017 (Day 3)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
09:25	09:45	COFFEE BREAK			20
09:45	10:45	Workshop Practical exercise 3 Reamed IM nailing Tibial shaft fractures—IM nailing with the expert tibia nail (with reaming) with extractor Practical Directors: D Hahn, S Sökücü	John Clarke-Jenssen; Husam Darwish; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; James Krieg; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Mahmoud Odat; IHSAN OESMAN; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Minghui Yang		60
10:45	10:55	Other LOCATION CHANGE TO DISCUSSION GROUPS			10
10:55	12:10	Discussion (small group) Discussion group 2 Management principles for the treatment of diaphyseal fractures Group 1 – Landwasser 1 Group 2 – Landwasser 2 Group 3 – Landwasser 3 Group 4 – Landwasser 4 Group 5 – Landwasser 5 Group 6 – Landwasser 6 Group 7 – Landwasser 7 Group 8 – Landwasser 8 Group 9 – Landwasser 9 Group 46 – Aspen	Roger Bingham; Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; David Hahn; James Krieg; Anze Kristan; Ari Levine; Jason Lowe; Jon Mutimer; Dan Putineanu; Mario Rancan; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		75
12:10	13:10	LUNCH BREAK			60

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Tuesday, 05 Dec 2017 (Day 3)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
13:10	13:25	Lecture Questions and conclusions—diaphyseal fractures	Husam Darwish		15
13:25	18:00	Module 4 Treatment of articular fractures At the end of this module participants will be able to: • Describe the treatment goals for articular fractures • Define the key surgical principles to the management of articular fractures • Determine the type of reduction and stability needed for articular fractures • Outline the function and clinical indications for the tension band technique	James Krieg		275
13:25	13:40	Lecture Management principles for articular fractures—how do they differ from diaphyseal fractures?	Ari Levine		15
13:40	13:55	Lecture Reduction techniques for articular fractures—principles and methods	Gustavo Fiorentini		15
13:55	14:10	Lecture Distal radial fractures—which to fix, how to fix?	Adam Brooks		15
14:10	14:25	Lecture Fractures of the olecranon and patella	Husam Darwish		15
14:25	14:40	Lecture Ankle fractures—a logical approach for their fixation	Giovanni Vicenti		15

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Tuesday, 05 Dec 2017 (Day 3)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
14:40	14:45	Other LOCATION CHANGE TO PRACTICAL EXERCISE			5
14:45	15:15	Workshop Practical exercise 4 Tension band wiring of the olecranon Practical Directors: H Darwish, M Yang	Roger Bingham; John Clarke-Jenssen; Husam Darwish; Frederick Du Plessis; Gustavo Fiorentini; David Hahn; Anze Kristan; William Lavadia; Ari Levine; Jason Lowe; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Javier Roman; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		30
15:15	16:15	Workshop Practical exercise 5 Management of a malleolar fracture type 44–C Practical Directors: J Salavarrieta, J Clarke-Jenssen	Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Ayman El Sharawy; Gustavo Fiorentini; James Krieg; William Lavadia; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Chya Wei Wong; Minghui Yang		60
16:15	16:35	COFFEE BREAK			20
16:35	16:50	Lecture Preoperative planning—rationale and how to do it	Jonathan Eastman		15
16:50	17:05	Lecture Forearm fractures need understanding of principles for diaphyseal and articular fractures	Anze Kristan		15
17:05	17:10	Other LOCATION CHANGE TO PRACTICAL EXERCISE			5

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Tuesday, 05 Dec 2017 (Day 3)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration	
17:10	18:00	Workshop Practical exercise 6 (part 1) Preoperative planning—plan your forearm operation Practical Directors: M Kremli, M Pirpiris	Mamoun Kremli; Marinis Pirpiris		50	

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Thursday, 07 Dec 2017 (Day 5)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
08:00	09:10	Workshop Practical exercise 6 (part 2) Operate your plan—fixation of a 22-C1 forearm fracture using the LCP 3.5 (8 and 11 holes) Practical Directors: M Kremli, A El Sharawy	Sue Deakin; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; Mamoun Kremli; James Krieg; Anze Kristan; William Lavadia; Jason Lowe; IHSAN OESMAN; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		70
09:10	09:15	Other LOCATION CHANGE TO LECTURE HALL			5
09:15	09:30	Lecture Femoral neck fractures—types and management principles	Chya Wei Wong		15
09:30	09:45	Lecture Trochanteric fractures—how are they different from femoral neck fractures	James Krieg		15
09:45	10:00	Lecture Distal femoral fractures—management principles	Oleksandr Rikhter		15
10:00	10:15	Lecture Tibial plateau fractures—what is important to consider?	Dan Putineanu		15
10:15	10:30	Lecture Distal tibial fractures—management principles	Minghui Yang		15
10:30	10:50	COFFEE BREAK			20

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Thursday, 07 Dec 2017 (Day 5)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
10:50	12:10	Workshop Practical exercise 7 Intramedullary nailing of a proximal femur using a proximal femoral nail antirotation Practical Directors: J Lowe, J Salavarrieta	Adam Brooks; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Anze Kristan; William Lavadia; Jason Lowe; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Minghui Yang		80
12:10	12:20	Other LOCATION CHANGE TO DISCUSSION GROUPS			10
12:20	13:30	Discussion (small group) Discussion group 3 Management principles for the treatment of articular fractures Group 1 – Landwasser 1 Group 2 – Landwasser 2 Group 3 – Landwasser 3 Group 4 – Landwasser 4 Group 5 – Landwasser 5 Group 6 – Landwasser 6 Group 7 – Landwasser 7 Group 8 – Landwasser 8 Group 9 – Landwasser 9 Group 46 – Aspen	Roger Bingham; John Clarke-Jenssen; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; William Lavadia; Ari Levine; Jason Lowe; Jon Mutimer; Mahmoud Odat; IHSAN OESMAN; Dan Putineanu; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti; Chya Wei Wong; Minghui Yang		70
13:30	14:30	LUNCH BREAK			60
14:30	14:50	Lecture Questions and conclusions—treatment of articular fractures	Dan Putineanu		20

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Thursday, 07 Dec 2017 (Day 5)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
14:50	17:25	Module 5 Emergency management, minimally invasive surgery, and special fractures At the end of this module participants will be able to: • Identify indications for minimally invasive osteosynthesis and when to use it • Outline differences of fracture treatment in children and the elderly compared to those in adults • Understand the dangers of radiation in the operating room and how to avoid them • Outline the algorithm for polytrauma management and discuss the roles of the team members • Recognize the pathology of severe pelvic trauma and identify the reasoning behind emergency pelvic stabilization • Outline the treatment plan and priorities for open fractures • List the causes and factors that lead to postoperative infection • Name factors leading to delayed union and/or malunion	Marinis Pirpiris		155
14:50	15:05	Lecture Minimally invasive osteosynthesis—when to use it?	Roger Bingham		15
15:05	15:25	Lecture Radiation hazards in the operating room—how to minimize?	Mamoun Kremli		20
15:25	15:40	Lecture Fractures in the growing skeleton—how are they different?	Frederick Du Plessis		15

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Thursday, 07 Dec 2017 (Day 5)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration	
15:40	15:55	Lecture Fixation principles in osteoporotic bone—the geriatric patient	Jonathan Eastman		15	
15:55	16:05	Lecture Implant removal—why, when, and how?	Jon Mutimer		10	
16:05	16:25	COFFEE BREAK			20	
16:25	16:40	Lecture Treatment algorithms for the polytrauma patient	Ayman El Sharawy		15	
16:40	16:55	Lecture Indications and techniques for external fixation for damage control orthopedics and open fractures	Mario Rancan		15	
16:55	17:10	Lecture Emergency management of pelvic fractures—a critical skill can save lives	Marinis Pirpiris		15	
17:10	17:25	Lecture Management of open fractures	Chya Wei Wong		15	

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Friday, 08 Dec 2017 (Day 6)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
08:00	09:00	Workshop Practical exercise 8 Tibial fractures treated with different external fixator frame constructs—assessment of stability Practical Directors: S Deakin, G Fiorentini	Roger Bingham; John Clarke-Jenssen; Husam Darwish; Sue Deakin; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; James Krieg; Anze Kristan; Jon Mutimer; IHSAN OESMAN; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Sami Sökücü; Giovanni Vicenti		60
09:00	10:10	Workshop Practical exercise 9 Stabilization of the pelvic ring using a large external fixator Practical Directors: I Oesman, W Lavadia	Roger Bingham; Husam Darwish; Sue Deakin; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; David Hahn; James Krieg; Anze Kristan; William Lavadia; Mahmoud Odat; IHSAN OESMAN; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Julian Salavarrieta; Chya Wei Wong; Minghui Yang		70
10:10	10:15	Other LOCATION CHANGE TO LECTURE HALL			5
10:15	10:30	Lecture Infection after osteosynthesis—how to diagnose and manage	Javier Roman		15
10:30	10:45	Lecture Delayed healing—causes and treatment principles	William Lavadia		15
10:45	11:00	COFFEE BREAK			15

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Friday, 08 Dec 2017 (Day 6)

Start	End	Title	Moderators/Faculty	Location/Documents	Duration
11:00	11:55	Discussion (small group) Discussion group 4 Final case discussion on selected topic: • Polytrauma • Complications • Special fractures, eg, geriatric fractures, osteoporosis, periprosthetic fractures Group 1 – Landwasser 1 Group 2 – Landwasser 2 Group 3 – Landwasser 3 Group 4 – Landwasser 4 Group 5 – Landwasser 5 Group 6 – Landwasser 6 Group 7 – Landwasser 7 Group 8 – Landwasser 8 Group 9 – Landwasser 9 Group 46 – Aspen	Roger Bingham; Adam Brooks; John Clarke-Jenssen; Sue Deakin; Frederick Du Plessis; Jonathan Eastman; Ayman El Sharawy; Gustavo Fiorentini; Anze Kristan; William Lavadia; Ari Levine; Jon Mutimer; IHSAN OESMAN; Dan Putineanu; Mario Rancan; Oleksandr Rikhter; Javier Roman; Julian Salavarrieta; Chya Wei Wong; Minghui Yang		55
11:55	12:00	Other LOCATION CHANGE TO LECTURE HALL			5
12:00	12:15	Lecture Latest developments from the AO Research Institute that will help the surgeon and patient	Geoff Richards		15
12:15	12:30	Lecture Violation of AO principles—when it goes wrong	Mamoun Kremli		15
12:30	12:40	Lecture Closing remarks and end of course	Mamoun Kremli; Marinis Pirpiris		10
12:40	13:10	LUNCH WITH SANDWICHES			30