Event program

AOTrauma Masters Course—Current Concepts—Knee Injuries and Deformities

December 3 to 8, 2017 Davos, Switzerland

Lecture hall: Sanada 2

Course structure

This 5-day, Masters-level course comprises three 1-day modules. Participants also select two from a wide choice of 1-day self-directed learning modules.

Goal of the course

The goal of this course is to increase knowledge and skills for managing difficult and complex cases. State-of-the-art techniques and approaches, best practices for treatment, and the management of complications will all be addressed at a high level.

Target participants

Participants must have completed the AOTrauma Basic Principles and Advanced Principles courses. They must be actively involved in orthopedic trauma management and preferably have at least five years of experience post residency in trauma surgery. Participants must be willing to share their ideas and be able to communicate well in English.

Learning objectives

Upon completion of this course, participants will be able to:

- Identify the complexity of knee anatomy and biomechanics
- Apply the classification of knee injuries to guide therapeutic decision-making
- Determine the importance of ligament and menisci repair in complex knee trauma
- Identify the indications for osteotomies around the knee
- Perform deformity analysis and preoperative planning for osteotomies around the knee
- Identify the indications for fixation versus revision in periprosthetic knee fractures
- Discuss the indications for knee preservation and knee replacement in cases of knee disorders
- Discuss alternatives for the management of postoperative infection and hardware failure

Course description

Current Concepts courses and modules address the latest techniques and best practices in operative fracture management to deal with complex orthopedic trauma problems. The course includes many case presentations and open group discussions moderated by experts in the field. Best evidence is presented through summary lectures and practical exercises, simulations are integrated where appropriate.

AOTRAUMA

Overall Chairperson

Friedrich Baumgaertel
University of Marburg
Koblenz, Germany

Chairperson

Mauricio Kfuri
Missouri Orthopaedic Institute,
University of Missouri
Missouri, USA

Co-Chairperson

Steffen Schröter
University of Tübingen
Tübingen, Germany

Faculty

Alturki	Abdullah	National Gaurd Hospital	Riyadh	Saudi Arabia
Bernstein	Mitchell	Loyola University Medical Center	Chicago	USA
Fogagnolo	Fabricio	Sao Paulo University, Hospital das Clinicas de Ribeirao Preto	Ribeirao Preto	Brazil
Harrer	Joerg	Helmut-G.-Walther Klinikum Lichtenfels	Lichtenfels	Germany
Hubbard	David	West Virgina University	Morgantown	USA
Luo	Cong Feng	Shanghai Sixth People's Hospital	Shanghai	China
Nakayama	Hiroshi	Sapporo City General Hospital	Sapporo	Japan
Ochs	Gunnar	University Clinic Freiburg	Freiburg	Germany
Perka	Carsten	Charite	Berlin	Germany
Stannard	James	University of Missouri	Columbia	USA
Takeuchi	Ryohei	Joint Surgery Center, Yokosuka Municipal Hospital	Yokosuka	Japan
Vincent	Andrew	Christchurch Hospital	Christchurch	New Zealand

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Sunday, December 3, 2017

TIME	AGENDA ITEM	WHO
15:00	Opening of the Congress Center	
15:00–17:00	Registration of participants	
17:00–18:00	Opening ceremony	
18:00–19:00	FOUNDERS' RECEPTION	

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Monday, December 4, 2017

TIME	AGENDA ITEM	WHO
	Acute knee injuries	
08:00–08:05	Welcome and introduction to the course and today's module	M Kfuri, S Schrötter
Module 1	**Tibial plateau fractures**	
08:05–08:10	LOCATION CHANGE TO DISCUSSION GROUPS	
08:10–09:25	**Discussion group 1**	
09:25–09:40	COFFEE BREAK	
09:40–10:00	The three-column concept in the management of tibial plateau fractures	CF Luo
10:00–10:15	The principles of anatomical classification for tibial plateau fractures	M Kfuri
10:15–10:30	Posterolateral split depression fractures—why are they so challenging?	S Schröter
10:30–10:45	Tibial plateau fracture dislocation—when and how to approach ligament injuries?	J Stannard
10:45–11:00	Arthroscopic assisted techniques for the fixation of tibial plateau fractures	M Raschke
11:00–11:15	Question and answer session	
Module 2	**Ligament and soft-tissue injuries in orthopedic trauma**	
11:15–11:20	LOCATION CHANGE TO DISCUSSION GROUPS	
11:20–12:30	**Discussion group 2**	
12:30–13:30	LUNCH BREAK	
13:30–13:45	Rationale of acute management in multiligament knee injuries	F Fogagnolo

13:45–14:00	Current evidence in the repair of the meniscus—how do I do it?	H Nakayama
14:00–14:15	Cartilage repair—what is the status of the art?	J Stannard
14:15–14:30	Acute patellar dislocation—algorithm of treatment	S Schröter
14:30–14:45	Soft-tissue coverage in high energy knee fracture and dislocations	M Kfuri
14:45–15:00	Question and answer session	
15:00–15:20	COFFEE BREAK	
Module 3	**Distal femur and patella**	
15:20–16:05	**Discussion group 3**	
16:05–16:10	LOCATION CHANGE TO LECTURE HALL	
16:10–16:25	Hoffa fractures—how do I approach it?	D Hubbard
16:25–16:40	Complex distal femoral fractures with bone loss	M Bernstein
16:40–16:55	Comminuted patellar fractures—what is the current evidence?	A Alturki
16:55–17:10	Unfortunate association—intra-articular distal femoral and tibial plateau fractures—algorithm of treatment	A Vincent
17:10–17:20	Question and answer session	
17:20–17:55	Keynote lecture—my life as an orthopaedic surgeon	J Schatzker
17:55–18:00	Summary, evaluation and take home message	M Kfuri

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Tuesday, December 5, 2017 (09:00 - 18:00)

Self Directed Learning Day

Participants will choose their own program by selecting one of the following 6 modules:

- External Fixation for Acute Trauma and Nonunion
- Nonunion
- Pediatric proximal femur and other unusual (pathological) fractures
- Fracture Related Infection
- Nailing of complex fractures—special situations
- Blast injuries

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Wednesday, December 6, 2017

TIME	AGENDA ITEM	WHO
	Principles and management of knee deformities	
08:00–08:05	Introduction to today's module	S Schröter
Module 1	**General principles**	Moderator: R Takeuchi
08:05–08:10	LOCATION CHANGE TO DISCUSSION GROUPS	
08:10–09:05	**Discussion group 1**	
09:05–09:10	LOCATION CHANGE TO LECTURE HALL	
09:10–09:20	Rationale of osteotomies around the knee	M Kfuri
09:20–09:40	Deformity analysis and planning an osteotomy in the frontal plane	J Harrer
09:40–10:00	Deformity analysis in the sagittal and axial plane	S Schröter
10:00–10:15	Question and answer session	R Takeuchi
10:15–10:35	COFFEE BREAK	
10:35–11:30	**Practical exercise** **Preoperative planning**	S Schröter, J Harrer
Module 2	**Surgical techniques**	Moderator: S Schröter
11:30–11:45	Open wedge high tibial osteotomy and hybrid osteotomy	R Takeuchi
11:455–12:00	Closing wedge distal femoral osteotomy	S Schröter
12:00–12:15	Double level osteotomy	H Nakayama
12:15–12:30	Rotational osteotomy	J Harrer

12:30–12:45	Question and answer session	S Schröter
12:45–14:00	LUNCH BREAK	
Module 3	**Open wedge HTO and closed wedge DFO**	Moderator: M Kfuri
14:00–14:45	**Practical exercise** **Open wedge HTO**	R Takeuchi
14:45–15:45	**Practical exercise** **Closed wedge DFO**	S Schröter
15:45–16:05	COFFEE BREAK	
Module 4	**Posttraumatic deformities**	Moderator: J Harrer
16:05–16:45	**Discussion group 2**	
16:45–16:50	LOCATION CHANGE TO LECTURE HALL	
16:50–17:05	Principles of correction for tibial plateau intra-articular deformities	M Kfuri
17:05–17:20	Principles of correction for intra-articular distal femoral deformities	J Harrer
17:20–17:35	Osteotomy for the correction of failed osteotomies	H Nakayama
17:35–17:50	Osteotomy in association with biological resurfacing of the joint	J Stannard
17:50–18:00	Summary, evaluation, and take home messages	S Schröter

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Thursday, December 7, 2017 (09:00 - 18:00)

Self Directed Learning Day

Participants will choose their own program by selecting one of the following 6 modules:

- External Fixation for Bone Defects and Deformity Correction
- Malunion
- Pediatric elbow fractures and other long bone growth plate injuries
- Fracture Related Infection
- Complications related to nailing
- Blast injuries

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Friday, December 8, 2017

TIME	AGENDA ITEM	WHO
	Joint preservation versus joint replacement	
07:30–07:35	Introduction to today's module	S Schröter, M Kfuri
Module 1	**Knee failed internal fixation**	Moderator: S Schröter
07:35–07:50	Intra-articular osteotomy	J Harrer
07:50–08:05	Biological replacement	J Stannard
08:05–08:20	Total knee replacement	C Perka
08:20–08:30	Question and answer session	S Schröter
Module 2	**Chronical knee infection after internal fixation**	Moderator: J Harrer
08:30–08:45	Staged knee replacement	M Abdel
08:45–09:00	Arthrodesis versus amputation	D Hubbard
Module 3	**Medical knee arthritis**	Moderator: C Parka
09:00–09:10	Case presentation—high tibial osteotomy	H Nakayama
09:10–09:20	Case presentation—unicompartmental knee replacement	M Abdel
09:20–09:30	Case presentation—biological replacement	M Kfuri
09:30–09:40	Case presentation—total knee replacement	G Ochs
09:40–09:50	Question and answer session	C Parka
09:50–10:10	COFFEE BREAK	

Module 4	**Arthroplasty after traumatic injuries**	Moderator: G Ochs
10:10–10:25	Planning a knee replacement in post-traumatic arthritis	J Harrer
10:25–10:40	Surgical tips and tricks in TKA after traumatic injuries	C Perka
10:40–10:55	Total knee replacement in a post-traumatic stiff knee	M Abdel
10:55–11:05	Total knee replacement for the management of acute fractures	C Perka
11:05–11:20	Total knee replacement after high tibial osteotomy	G Ochs
11:20–11:30	Question and answer session	G Ochs
11:30–11:35	LOCATION CHANGE TO DISCUSSION GROUPS	
11:35–12:30	**Discussion group 1**	
12:30–13:00	BREAK WITH SANDWICHES	
Module 4	**Periprosthetic fractures**	Moderator: A Vincent
13:00–13:10	Classification of periprosthetic knee fractures	F Fogagnolo
13:10–13:20	Periprosthetic femoral fracture—when and how do I fix it?	D Hubbard
13:20–13:30	Periprosthetic femoral fracture—when and how do I revise it?	M Abdel
13:30–13:40	Periprosthetic tibial fracture—when and how do I fix it?	A Vincent
13:40–13:50	Periprosthetic tibial fracture—when and how do I revise it?	C Perka
13:50–14:00	Extensor mechanism failure after total knee replacement—evidence and decision making	G Ochs
14:00–14:15	Summary, evaluation, take home messages	M Kfuri, S Schröter