

# AO Recon Course— Complex Total Hip Arthroplasty

## Course with human anatomical specimens

August 22-23, 2024

Lucerne, Switzerland

**EVENT PROGRAM with  
Learning Objectives**



## Mission

The AO's mission is promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders.

## Purpose statement

AO Trauma is committed to improve patient care outcomes through the highest quality education. We strive to combine the right knowledge and surgical skills that empower the orthopedic and trauma surgeons to put theory into practice and to improve fracture management for the benefit of the patient.

## The AO principles of fracture management

1



Fracture reduction and fixation to restore anatomical relationships.

2



Fracture fixation providing absolute or relative stability, as required by the "personality" of the fracture, the patient, and the injury.

3



Preservation of the blood supply to soft-tissues and bone by gentle reduction techniques and careful handling.

4



Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.

# Welcome

## Dear AO Recon course participant,

It is with great pleasure that we welcome you to our complex course that offers certified, experienced orthopedic surgeons training on the key aspects of complex primary and revision hip arthroplasty.

Over the program's 1.5 days, renowned expert surgeons will lead interactive discussion groups and instructional lectures and deliver technical know-how in practical exercises to develop your decision-making competency.

Your current level of knowledge, attitudes, and skills will be challenged throughout the course. The best-in-class curriculum and faculty will provide you a memorable learning experience that will remain with you for a lifetime.

We hope that you will immediately integrate these insights into your daily practice, in order to reach our shared goal: to improve patient care through surgical excellence.

Yours sincerely,



**Carsten Perka**  
Chairperson  
AO Recon Steering Board



**Bassam Masri**  
Chairperson  
AO Recon Education Forum

# Chairpersons



**Karl Stoffel**

Basel, Switzerland



**Dan Berry**

Rochester, USA

## Regional Faculty

Fares Haddad, London, England

Sisak Krisztian, Szeged, Hungary

## National faculty

Martin Beck, Lucerne, Switzerland

Tobias Bühler, Baden, Switzerland

Björn-Christian Link, Lucerne, Switzerland

Panayiotis Christofilopoulos, Genf, Switzerland

Hannes Ruediger, Zurich, Switzerland

Moritz Tannast, Freiburg, Switzerland

## Goal of the event

The AO Recon Course—Complex Total Hip Arthroplasty teaches current concepts in the treatment of patients with a need for revision or complex primary arthroplasty in the hip.

## Target participants

This course is targeted at certified, experienced orthopedic surgeons who wish to enhance their knowledge and skills in complex arthroplasty.

## Learning objectives

At the end of this course, participants will be able to:

- Describe a systematic clinical, laboratory, and radiographic evaluation in revision and complex primary arthroplasty
- Optimize preoperative planning
- Adopt a patient-centred approach
- Optimize patients preoperatively to reduce complications
- Describe and discuss safe and effective procedures for revision and complex primary arthroplasty
- Discuss the management of early and late problems or complications
- Communicate and facilitate a multidisciplinary team-based approach
- Apply best practice to optimize and document patient outcomes



## Event description

This course is modular in structure and highly interactive. Short, evidence-based lectures cover the key information required. Moderated case discussions in small groups will expand on each topic and help participants to develop decision-making skills in small group discussions and surgical management skills in the anatomical specimen laboratory. Participants will have the opportunity to share their experience with peers and international faculty. All factors related to achieving the best possible outcomes in complex and revision arthroplasty will be covered.

# Day 1

Thursday, August 22, 2024

13:00–13:30	Registration	
13:30–13:40	Welcome and introduction	D Berry K Stoffel
<b>Module 1</b> <b>Moderator: D Berry</b> <b>Indications for revision hip arthroplasty and preoperative planning</b>		
13:40–13:50	Overview of failure mechanisms and indications for revision hip arthroplasty	F Haddad
	Interactive session with participants, summarized afterward by faculty	
13:50–14:00	Preoperative investigation and planning for revision hip arthroplasty	P Christofilopoulos
14:00–14:10	Assessment of acetabular and femoral bone loss	H Ruediger
14:10–14:20	Questions and answers	All
<b>Module 2</b> <b>Moderator: F Haddad</b> <b>Revision arthroplasty of the hip</b>		
14:20–14:30	Extended surgical approaches	H Ruediger
14:30–14:40	Well-fixed implant removal	M Tannast
14:40–14:50	Questions and answers	All
14:50–15:10	Break	
15:10–16:00	<b>Treatment options for acetabular bone loss</b> <b>Case-based lectures with discussion</b>	T Buehler
	Case 1: Jumbo cup (10 min)	K Stoffel
	Case 2: Augments (10 min)	P Christofilopoulos
	Case 3: Cages (10 min)	B Link
	Case 4: Pelvic discontinuity (10 min)	F Haddad
	Discussion (10 min)	

16:00–16:40	<b>Treatment options for femoral bone loss</b> <b>Case-based lectures with discussion</b>	M Beck
	Case 1: Fluted titanium, tapered stem (10 min)	T Buehler
	Case 2: Cemented stems/cement within cement revision (10 min)	P Christofilopoulos
	Case 3: Proximal femoral replacement (10 min)	K Sisak
	Discussion (10 min)	
16:40–17:40	<b>Small group discussion 1</b> 4 cases Revision hip replacement (failed cups and failed stems)	All

### **Module 3**

### **Complex primary total hip arthroplasty (THA)**

17:40–18:30	<b>Treatment options for complex primary hip arthroplasty.</b> <b>Case-based lectures with discussion</b>	K Sisak
	Case 1: Dysplasia (CROWE 3/4)	M Beck
	Case 2: Conversion THA for posttraumatic acetabular fracture	B Link
	Case 3: Conversion THA for posttraumatic femoral fracture	T Bühler
19:00	Course Dinner	

# Day 2

Friday, August 23, 2024

## Module 4 Complications

08:00–09:00	<b>Infection and periprosthetic fractures</b> <b>Case-based lectures with discussion</b>	M Tannast
	Case 1: Infection after hip replacement (15 min)	T Bühler
	Case 2: Is the stem loose or not? (15 min)	K Stoffel
	Case 3: Internal fixation for hip femoral periprosthetic fracture (10 min)	K Sisak
	Case 4: Revision for hip femoral periprosthetic fracture (10 min)	D Berry
	Discussion (10 min)	
09:00–09:20	Break	
09:20–10:10	<b>Dislocation</b> <b>Case-based lectures with discussion</b>	P Christofilopoulos
	Overview of instability after hip replacement (10 min)	D Berry
	Case 1: Spinopelvic relationships in hip dislocation (10 min)	B Link
	Case 2: Dual mobility cups (10 min)	M Tannast
	Case 3: Constrained cups (10 min)	K Sisak
	Discussion (10 min)	
10:10–10:55	<b>Between Joint Preservation Surgery and Computer asated Surgery</b> <b>Case based lectures with discussion</b>	H Ruediger
	Case 1: Joint preservation surgery: The role of PAO	M Beck
	Case 2. Joint preservation Surgery: The role of Surgical hip dislocation/Hip Arthroscopy	M Tannast
	Case 3: THA: Peak of perfection or room for Improvement?	F Haddad
10:55–11:05	Wrap-up and take-home messages	D Berry, K Stoffel
11:05 – 12:00	Lunch	
12:00–12:30	Transfer to anatomical specimen laboratory	
12:30–12:45	Preparation for the anatomical specimen laboratory	
12:45–13:00	Introduction to the laboratory and overview of the day's activities	K Stoffel



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13:00-17:30	Anatomical specimen laboratory—hip arthroplasty	K Stoffel
13:00-13:30	<ul style="list-style-type: none"><li>• Posterior approach to the hip (30 min)</li></ul>	
13:30-13:50	<ul style="list-style-type: none"><li>• Plate osteosynthesis of the posterior column (20 min)</li></ul>	
13:50-15:00	<ul style="list-style-type: none"><li>• Reconstruction of acetabular defect with augments and revision cup (70 min)</li></ul>	
15:00-15:10	<ul style="list-style-type: none"><li>• Implantation of an uncemented stem (simulated by leaving the last broach in place) (10 min)</li></ul>	
15:10-15:30	<ul style="list-style-type: none"><li>• Extended trochanteric osteotomy (ETO) (20 min)</li></ul>	
15:30-16:30	<ul style="list-style-type: none"><li>• Implantation of a modular revision stem (60 min)</li></ul>	
16:30-16:40	<ul style="list-style-type: none"><li>• Refixation of ETO with cerclage wires (10 min)</li></ul>	
16:40-17:30	<ul style="list-style-type: none"><li>• Anatomical dissection (if time allows)</li></ul>	

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17:30-18:00      Closing of Course

# Event information

## Organization

### AO Foundation

Rahel Bättig  
Clavadelerstrasse 8  
7270 Davos Platz, Switzerland  
Phone +41 79 752 03 94  
Email [rahel.baettig@aofoundation.org](mailto:rahel.baettig@aofoundation.org)

### Participants' contact

Denia Schönbächler  
E-mail: [aoges.emea@aofoundation.org](mailto:aoges.emea@aofoundation.org)

## Registration fee

CHF 2100

Included in the course fee are course material, coffee breaks, lunches, course dinner in the hotel on Thursday evening, and the course certificate.

## Cancellation policy

Cancellation policy: 50% until 30 days before the event. No refund thereafter.

## Online registration

[Event Detail \(site.com\)](#)

## Language

English

## European CME accreditation

An application has been made to the UEMS-EACCME® in Brussels for CME accreditation of this event.

# Venue

### AMERON Lucerne Hotel Flora

Seidenhofstrasse 5  
6002 Lucerne  
Switzerland  
[Website](#)

# Sponsor

We thank our major industry partner DePuy Synthes for contributing key in-kind support (materials and logistics), without which this event would not be possible, as well as an unrestricted educational grant.



# General information

## Event organization compliance

In certain countries where AO has no office but offers educational events, the AO cooperates with third party companies to conduct local organization and logistics, as well as to communicate with participants in the local language. In these cases, the AO has put rules and guidelines in place to ensure that this cooperation has no impact on the curricula, scientific program, or faculty selection.

## AO funding sources

Unrestricted educational grants from different sources are collected and pooled together centrally by the AO.

All events are planned and scheduled by local and regional AO surgeon groups based on local needs assessments. We rely on industrial/commercial partners for in-kind support to run simulations/skills training if educationally needed.

## Evaluation guidelines

All AO events apply the same evaluation process, which includes pre- and post-event online evaluation and on-site written questionnaires.

These evaluation tools help ensure that AO continues to meet your training needs.

## Disclosures and conflicts of interest

Disclosure information and potential conflicts of interest (COI) can be viewed at the event webpage.

## Intellectual property

Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. For more information, please see: [www.aofoundation.org/legal](http://www.aofoundation.org/legal).

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is absolutely forbidden.



The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes and made available to the public.

## Security

There will be a security check at the entrance of the building. Wearing of a name tag is compulsory during lectures, workshops, and group discussions.

## No insurance

The event organization does not take out insurance to cover any individual against accidents, theft, or other risks.

## Use of mobile phone

Mobile phone use is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

# Principles of AO educational events

## 1. Academic independence

Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer AO network surgeons.

All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and reflects the expertise of the AO Education Institute ([www.aofoundation.org](http://www.aofoundation.org)).

Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and to keep content free from bias.

## 2. Compliance to accreditation and industry codes

All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality education:

- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, US ([www.accme.org](http://www.accme.org))
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities ([www.accme.org](http://www.accme.org))
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education ([www.uems.eu](http://www.uems.eu))

Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as:

- Eucomed Guidelines on Interactions with Healthcare Professionals ([www.medtecheurope.org](http://www.medtecheurope.org))
- AdvaMed Code of Ethics on Interactions with Health Care Professionals ([advamed.org](http://advamed.org))
- Mecomed Guidelines on Interactions with Healthcare Professionals ([www.mecomed.org](http://www.mecomed.org))

## 3. Branding and advertising

No industry logos or advertising (apart from the AO Foundation and its clinical divisions) are permitted in the area where educational activities take place.

Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

## 4. Use of technologies and products in simulations

In case simulations are chosen as an educational method to educate skills, we only use technology approved by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer reviewing new technology.

More information about the AO Technical Commission and its development and approval processes can be found on the AO's website: [www.aofoundation.org](http://www.aofoundation.org).

## 5. Personnel

Industry staff members are not permitted to interfere with the educational content or engage in educational activities during the event.