AO Recon Online Course—Complex Total Knee Arthroplasty

October 6, 2020
Virtual classroom

Best-in-class education in joint preservation and replacement
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Mission
The AO’s mission is promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders.

Purpose statement
AO Recon is a global network of orthopedic surgeons committed to best-in-class education in joint preservation and replacement.

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 online course participant,

It is with great pleasure that we welcome you to our advanced-level course that offers experienced surgeons training on complex and revision total knee arthroplasty.

In this online course, global leaders in the field of arthroplasty will lead interactive discussion groups and deliver inspiring lectures.

Your current knowledge level, 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 transfer the knowledge you gain here into your daily practice in order to reach our shared goal of improving patient care through surgical excellence.

Yours sincerely,

Norbert P. Haas
AO Recon Steering Board

Carsten Perka
AO Recon Education Forum
Course description
This online version of the 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 and surgical management skills. 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.

Goal of the course
The AO Recon Online Course—Complex Total Knee Arthroplasty teaches current concepts in the treatment of patients with a need for revision or complex primary arthroplasty in the knee.

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 the event, the 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-centered 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 outcome
Chairpersons

Jean-Noël Argenson
Marseille, France

Robert Hube
Munich, Germany

Faculty

Max Ettinger,
Hannover, Germany

Sujith Konan,
London, UK

Yves Acklin,
Basel, Switzerland

Mazhar Tokgozoglu,
Ankara, Turkey

Mohamad Allami,
Baghdad, Iraq

Mojieb Manzary,
Dhahran, Saudi Arabia
## Online Module 1:
**Moderators:** R Hube, JN Argenson
**Revision arthroplasty of the knee—presentations with Q and A (90 min)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>06:00–06:05</td>
<td>Opening remarks and introduction</td>
<td>Chairs</td>
</tr>
<tr>
<td>06:05–06:15</td>
<td>Overview of failure mechanisms and indications for revision knee arthroplasty</td>
<td>JN Argenson</td>
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<tr>
<td>06:15–06:20</td>
<td>Questions and answers (and polls)</td>
<td>All faculty</td>
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<tr>
<td>06:20–06:30</td>
<td>Preoperative planning for revision knee arthroplasty</td>
<td>M Ettinger</td>
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<tr>
<td>06:30–06:35</td>
<td>Questions and answers (and polls)</td>
<td>All faculty</td>
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<tr>
<td>06:35–06:45</td>
<td>Extended surgical approaches and implant removal</td>
<td>M Allami</td>
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<tr>
<td>06:45–06:50</td>
<td>Questions and answers (and polls)</td>
<td>All faculty</td>
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<tr>
<td>06:50–07:00</td>
<td>Step-by-step surgical technique for revision TKA</td>
<td>Y Acklin</td>
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<tr>
<td>07:00–07:05</td>
<td>Questions and answers (and polls)</td>
<td>All faculty</td>
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<tr>
<td>07:05–07:15</td>
<td>Implant selection</td>
<td>M Manzary</td>
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<tr>
<td>07:15–07:20</td>
<td>Questions and answers (and polls)</td>
<td>All faculty</td>
</tr>
<tr>
<td>07:20–07:30</td>
<td>Extensor mechanism failure and patellofemoral complications</td>
<td>R Hube</td>
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<tr>
<td>07:30–08:00</td>
<td>Break</td>
<td>All</td>
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## Online Module 2:
**Moderators:** M Ettinger, Y Acklin
**Revision and complex total arthroplasty of the knee—small group discussions (90 min)**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>08:00–8:45</td>
<td>Small group discussions Revision knee arthroplasty—indications, investigation, and preparation</td>
<td>All faculty</td>
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<tr>
<td></td>
<td>Case 1: Loosening with malalignment</td>
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<td>Case 2: Severe bone loss requiring bone or metal substitution</td>
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<tr>
<td>08:45–9:30</td>
<td>Small group discussions</td>
<td>All faculty</td>
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<td>Case 1: Valgus knee (that requires a hinge)</td>
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<td>Case 2: TKA posttraumatic with hardware</td>
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<td>Case 3: TKA for extraarticular deformity</td>
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<td>09:30–10:00</td>
<td>Break</td>
<td>All</td>
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<td>Time</td>
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<td>Moderators</td>
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<tr>
<td>10:00–10:30</td>
<td><strong>Plenary case-based presentations:</strong> Infection</td>
<td>Moderator: S Konan</td>
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<td>Case 1: Infection after Knee Replacement (20 min)</td>
<td>R Hube</td>
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<td>Discussion (10 min)</td>
<td>Discussion led by moderator</td>
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<tr>
<td>10:30–11:10</td>
<td><strong>Plenary case-based presentations:</strong> Periprosthetic fractures</td>
<td>Moderator: M Allami</td>
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<td>Case 1: Classification (10 min)</td>
<td>M Tokgozoglu</td>
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<tr>
<td></td>
<td>Case 2: Periprosthetic fractures about the knee (20 min)</td>
<td>S Konan</td>
</tr>
<tr>
<td></td>
<td>Discussion (10 min)</td>
<td>Discussion led by moderator</td>
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<tr>
<td>11:10–11:20</td>
<td>Q&amp;A – Audience encouraged to ask questions about topics not covered</td>
<td>All faculty</td>
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<tr>
<td>11:20–11:30</td>
<td>Wrap-up and take-home messages</td>
<td>Chairs</td>
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Event organization

AO Recon
Arisa Wada
Clavadelerstrasse 8
7270 Davos Platz
Switzerland
Mobile +41 79 808 68 94
E-mail arisa.wada@aorecon.org

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 and/or skills training if educationally necessary.

General information

Event fee
AO Recon Online Course—Complex Total Knee Arthroplasty: CHF 100.

Disclosures and conflicts of interest
All disclosure information can be viewed on https://aorecon.aofoundation.org/disclosure.html

Evaluation guidelines
All AO Recon events apply the same evaluation process, which includes pre- and post-event online evaluation. These evaluation tools help ensure that AO Recon continues to meet your training needs.

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.

Recording, photographing, or copying lectures, practical exercises, case discussions, or any event materials is strictly forbidden. Participants violating intellectual property will be dismissed.

The AO Foundation reserves the right to film, photograph, and audio record during its 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 the AO’s marketing and other purposes, and that they may be made available to the public.
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).

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)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (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)
- AdvaMed Code of Ethics on Interactions with Health Care Professionals (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

4. Use of technologies and products in practical sessions
In case practical sessions are chosen as an educational method to educate skills, the technologies and products used have been approved or reviewed by the AO Technical Commission—a large independent group of volunteer surgeons developing and peer-reviewing new technology on behalf of the AO Foundation. Any technology and/or products used in the practical sessions of this event have been found suitable to serve the defined educational purposes. This does not imply any statement about its use and performance in actual clinical scenarios.

More information on the AO Technical Commission can be found on the AO’s website: www.aofoundation.org/tc.

5. Personnel
Industry staff members are not permitted to interfere with the educational content or engage in educational activities during the event.
AO Recon is a global network of orthopedic surgeons committed to best-in-class education in joint preservation and replacement.