

*Surgical Training and
Assessment for Residents*

AO's interactive learning hub

www.aotrauma.org/STaRT



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Improve surgical skills and clinical decision-making



One of the main challenges that residents face is lack of time for learning and skills development. AO Trauma STaRT provides easy access to relevant information that:

- Supports self-directed learning
- Reinforces basic principles to facilitate effective clinical decision-making
- Complements formal educational offerings of certifying bodies and teaching hospitals

Self-directed learning becomes increasingly important for residents. The three main features of AO Trauma STaRT address distinct learning strategies:

- Interactive clinical case discussions
- Self-assessment opportunities for learning
- Overview of and direct access to all AO resources for residents

Residents have unique learning needs: AO Trauma STaRT incorporates effective educational strategies so residents can benefit from the wealth of knowledge, experience, and resources available within the AO.



AO Trauma STaRT is **free of charge** and easy to use. The clinical case discussions, self-assessment options, and extensive resources are aligned with AO Trauma's Educational Program for Residents.

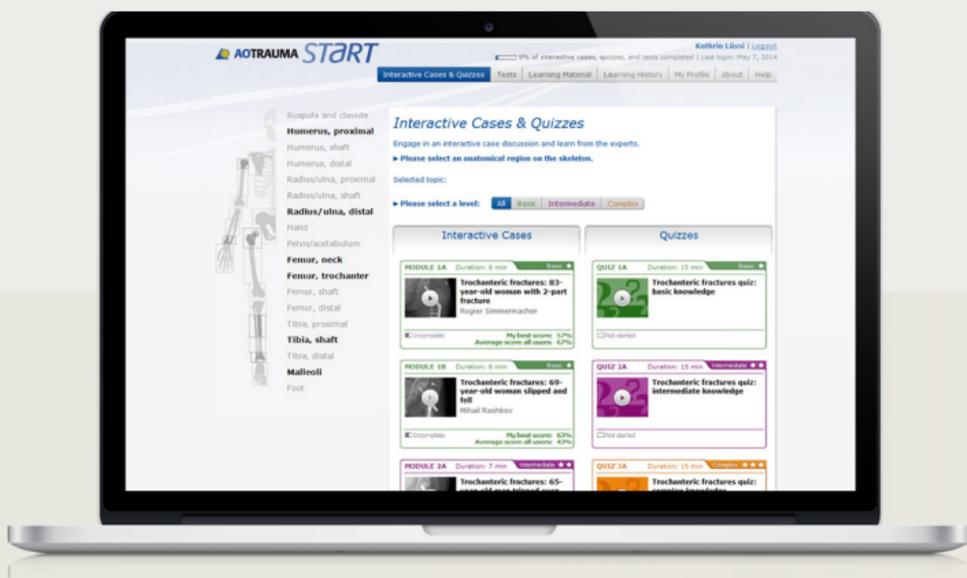
A personalized learning history helps residents keep track of activities completed and scores attained.

AO Trauma STaRT is currently available for use on PC, Mac, and iPad.

Engage in interactive case discussions

Short, focused video-based clinical case discussions delivered by experienced international surgeons:

- Interactive case discussions promote learning based on common patient problems
- Case discussions are graded into the levels: basic, intermediate, or complex.



All images can be enlarged to see details.



83-year-old woman with 2-part trochanteric fracture

First steps

- Medical assessment
- Warm up patient
- Make patient comfortable



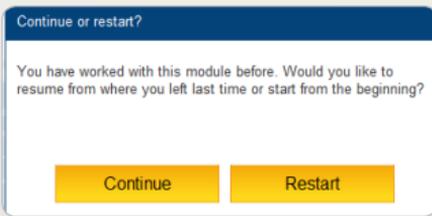
This is the correct answer

at home from a standing height and is complaining of hip pain and subfebrile temperature. She has a history of coronary artery bypass graft and he is on Clopidogrel (Plavix) and Warfarin.

Learners receive direct feedback on their answers from the case presenter.



Take 10 minutes to work through a case discussion. Each case is presented by an experienced surgeon and you are asked a number of questions as the case progresses. The presenter provides direct feedback on your answers—you know immediately if you got it right and the rationale behind it.



Not enough time to complete the case discussion?—No problem. All of your entries will be saved so you can continue the module later.

Take home message

- Reduction and implant position are more important than the type of implant

 A video frame showing a man with glasses speaking. A circular callout bubble contains the text "Take home message" and a bullet point: "Reduction and implant position are more important than the type of implant".

Take-home messages reinforce important concepts

65-year-old man tripped over while shopping and fell on his left leg

Further learning material:

- Step-by-step description of surgical techniques
- Overview of available [AO learning](#)

 A video frame showing a man speaking. Below the video frame is a list of "Further learning material" including "Step-by-step description of surgical techniques" and "Overview of available AO learning".

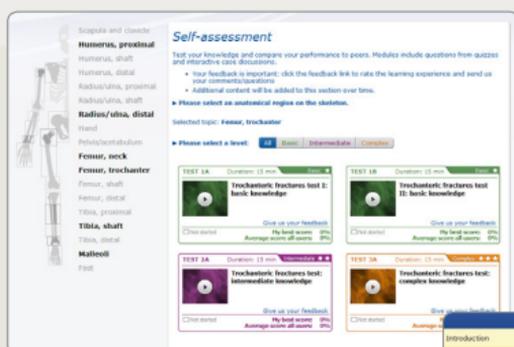
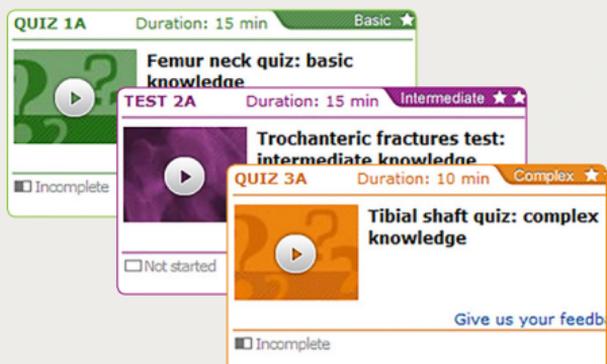
Links to further learning resources and references

Identify your knowledge gaps

Two different options for self-assessment based on multiple-choice questions are available in AO Trauma STaRT:

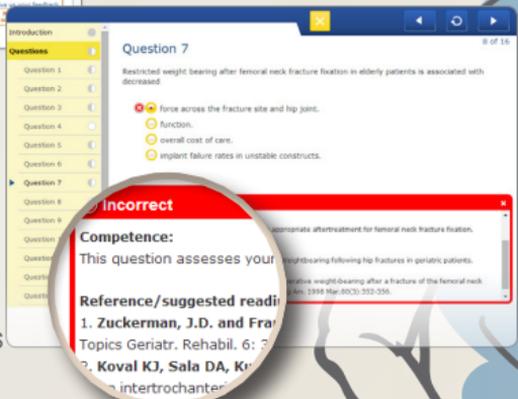
- Quizzes: best suited for learning. Provides immediate feedback to answers.
- Self-assessment modules: ideal for identifying personal knowledge gaps. Summary of results is provided only upon completion.

Quizzes and self-assessment modules are available for three different levels of complexity: basic, intermediate, and complex



Select a module with the right level of complexity for your needs

Learn from your mistakes





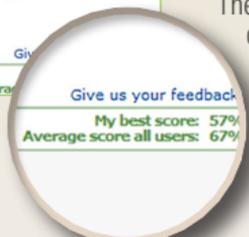
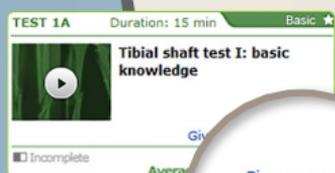
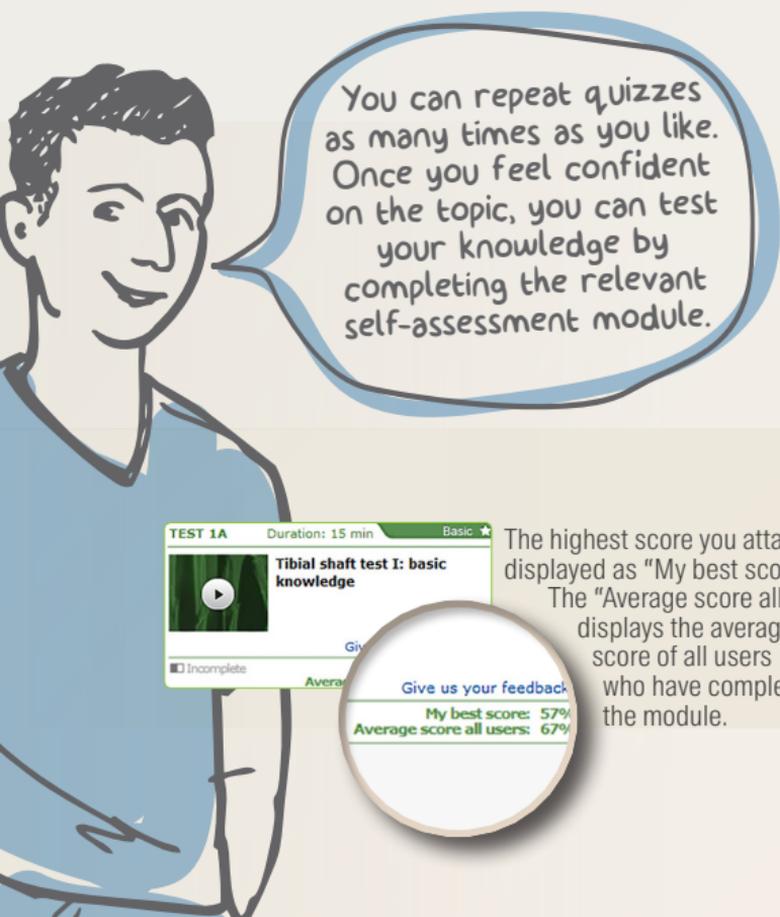
Engage in a quiz to learn about a topic: immediate feedback consists of a comprehensive rationale, references, and tips for further learning.

Complete a self-assessment module to test your knowledge and identify gaps. Select a module with questions on a single or mixed topics. Each test can be repeated up to three times.

Quit quiz?

Would you like to quit the quiz?
You have not completed 14 pages yet.

You can exit a quiz or self-assessment module at any time and save your entries.



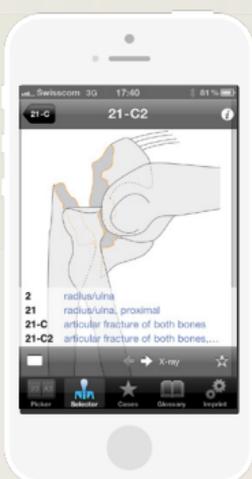
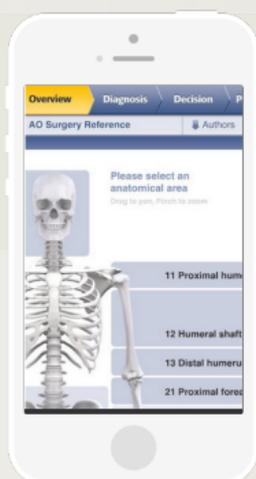
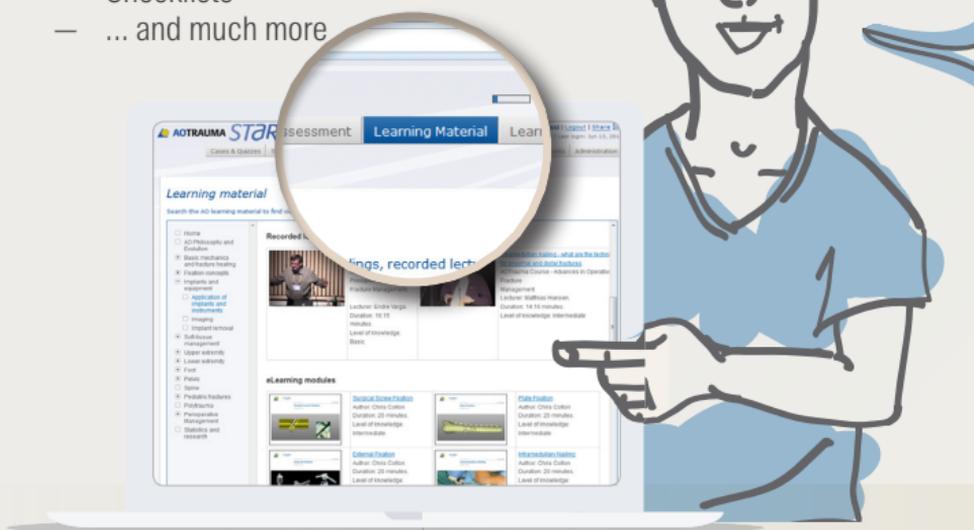
The highest score you attain is displayed as "My best score". The "Average score all users" displays the average best score of all users who have completed the module.

Fast access to AO resources

The Learning Material section of **AO Trauma STaRT** provides **an overview of the vast repository of AO learning resources.**

Browse AO's learning resources to find:

- Teaching videos
- eLearning modules
- Recorded lectures
- Readings
- Webinars
- Webcasts
- Mobile apps
- Checklists
- ... and much more



Find helpful
smartphone apps

The Learning Material section provides you with resources to fill identified knowledge gaps. A clearly structured table of contents gives an overview of existing learning resources. They are labeled by level of complexity, making it easy to identify material relevant to your level.

Continually updated with new offerings, residents can access available learning material via a clearly structured table of contents with direct links.

Search by keywords Search by categories Newest additions

Watch an AO teaching video

Lectures, videos, webinars, eLearning modules

Access selected book chapters

Track your learning history

Just click the Learning History tab to:

- Gain an overview of all case discussions, quizzes, and self-assessments available.
- Check your scores and the time spent on each activity.
- Identify modules you have not attempted.
- Access any module by clicking on the title.



Learning history

Kathryn Lister
AO Foundation -

Course	Status	Score	Duration (hh:mm:ss)
Tibial shaft: Wedge fracture of the tibial shaft	100%	33	00:33:38
Femur neck: ORIF of displaced femoral neck fractures (part 2)	0%	0	00:44:25
Femur neck: Avoiding and managing complications (part 2)	0%	0	00:46:12
Malleolus fractures: Closed ankle injury (motorcycle accident)	100%	80	01:34:42
Tibial shaft: Isolated fracture with good soft-tissue condition	100%	20	00:56:32
Tibial shaft: Isolated open fracture	100%	25	00:12:23
Tibial shaft: Polytrauma patient with closed tibial shaft fracture	100%	25	00:06:13
Femur neck: Emergency room evaluation of a low-energy fracture patient	100%	57	08:02:40
Trochanteric fractures: 65-year-old man tripped over and fell on his left leg	100%	40	19:12:40
Trochanteric fractures: 83-year-old woman with 2-part fracture	100%	57	00:36:12
Femur neck: Closed reduction and percutaneous fixation	100%	33	00:52:19
Femur neck: ORIF of displaced femoral neck fractures (part 1)	100%	0	00:56:26
Femur neck: Avoiding and managing complications (part 1)	100%	0	01:44:18
Trochanteric fractures: 65-year-old woman slipped and fell	100%	63	00:48:23
Trochanteric fractures: High-energy fractures in young patients	100%	40	00:30:33
Tibial shaft quiz 1: basic knowledge	100%	0	00:13:08

AO Trauma STaRT keeps track of your progress process. Your personal learning history can be printed to compare scores with peers or even as a report for your Residency Program Director or learning portfolio.



You can sort the list by completion status or score, whichever you wish, and see how much time you spent on each activity.

Tailored to the needs of residents



Structured interviews with residents, resident supervisors and directors of residency programs helped to identify **the specific needs of residents with regard to learning and learning resources**. AO Trauma STaRT content is developed by international teams of experienced surgeons who are actively involved in resident teaching and training.

AO Trauma STaRT provides a learning hub encompassing:

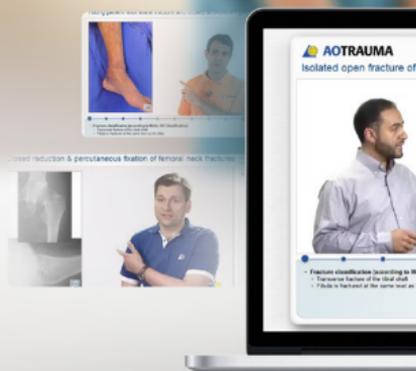
- Easy and fast access to well-structured, tailored learning
- Objective, evidence-based, and up-to-date information
- Interactive, video-based learning tools
- Clinical case discussions
- Assessment questions with comprehensive rationale and references for daily use
- Tools to identify personal knowledge gaps and compare performance with peers

All content of AO Trauma STaRT is aligned with AO Trauma's Educational Program for Residents. **New modules are added on an ongoing basis**. Your input and feedback will help us improve and expand over time.

AO Trauma STaRT: Surgical Training and Assessment for Residents

Simply register and STaRT today!

www.aotrauma.org/STaRT



System requirements:

Operating system: Windows XP, Vista, Windows 7/8, Mac OSX 10.6-10.8, iOS 5/6

Browser: Internet Explorer Version 9/10, Mozilla Firefox Version 22 or higher, Google Chrome 27 or higher, Safari iOS 6/Mac 6.5/Win 5.6

Browser settings: JavaScript activated, pop-up blocker deactivated

