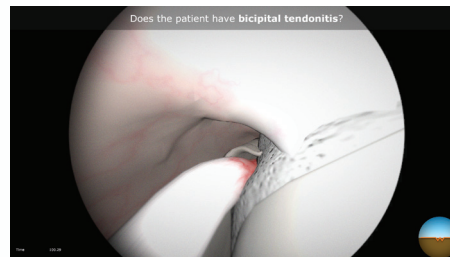
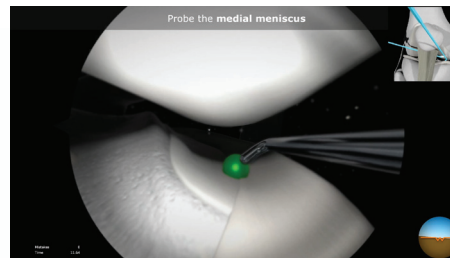


SIMENDO

certifying skills



Simendo
arthroscopy

product
information



Simendo arthroscopy Pro4

Simendo arthroscopy

The Simendo arthroscopy is designed for training and certifying orthopedic trainees and is used to obtain essential skills to safely perform arthroscopic knee and shoulder operations. The software includes three curricula, one for the knee and two for the shoulder (BCP – Beach Chair Position – and LDP – Lateral Decubitus Position).

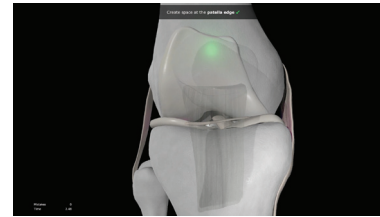
For certification and global competition the arthroscopy trainer can be connected to our online scoring platform [MySimendo.com](https://mysimendo.com).

- ✓ Plug & play via USB.
- ✓ Wide range and high resolution for optimal simulation of shoulder and knee.
- ✓ Restricted valgus/varus movement of the knee.
- ✓ Maximum movement for flexion/extension.
- ✓ High precision.
- ✓ Single housing with table-grip.

Knee

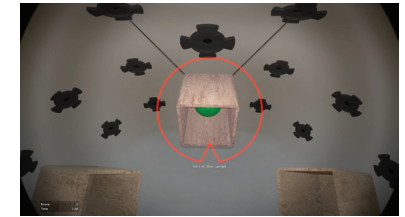
This curriculum teaches the trainee the most important basics to safely perform an arthroscopic knee operation. The trainee will learn to find anatomical landmarks and create the correct spaces by moving the lower leg. In the next phase the trainee will learn to navigate through the knee and work with a 30 degree camera and instrument at the same time. This curriculum has been scientifically validated and proven to be highly effective.

Exercise overview



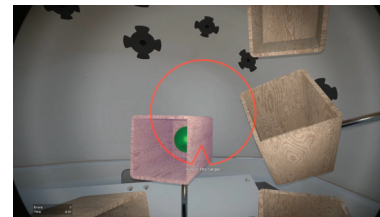
Creating space

Move the lower leg in order to create workspace in the knee joint.



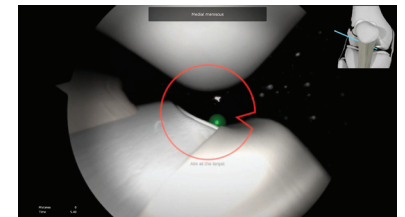
4 Boxes

Work on your accuracy with a 30 degrees angled camera by looking inside four boxes.



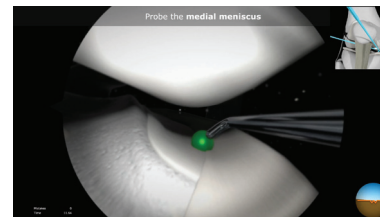
6 Boxes

Work on your accuracy with a 30 degrees angled camera by looking inside six boxes positioned at complex angles.



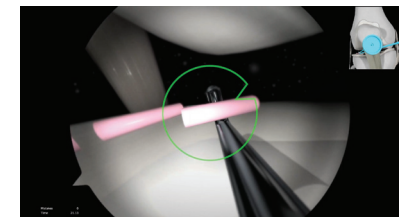
Knee navigation

Navigate through the knee joint with an arthroscope. A standard trajectory from patella, to medial and then to lateral meniscus is followed.



Knee inspection

Do a basic exploration of the knee joint using the arthroscope and an arthroscopic hook.



Knee manipulation

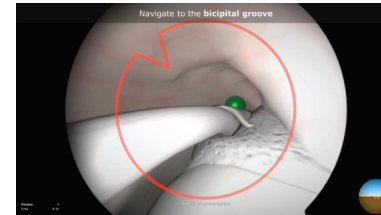
Manipulate an arthroscopic hook for pulling on meniscus tissue.

Shoulder

This curriculum teaches the trainee the most important basics to safely perform an arthroscopic shoulder operation. The trainee will learn to work with the instrument in contra direction to the 30 degree camera, which is one of the most difficult settings for minimal invasive surgery. The curriculum consist of a group of task that are most common in shoulder arthroscopy, such as a shoulder inspection, diagnosis of a SLAP lesion, Bankart lesion and bicipital tendonitis. The shoulder module is based on the left shoulder and available in Beach Chair and Lateral Decubitus position.

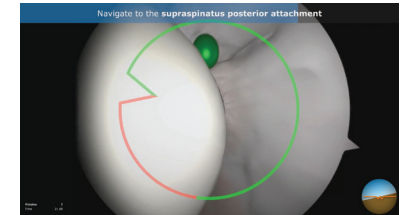
Exercise overview

The exercises listed below are available in Beach Chair and Lateral Decubitus position.



Navigation (clockwise)

Navigate through the shoulder with an arthroscope from the subscapularis to the biceps tendon attachment (clockwise).



Navigation (anti-clockwise)

Navigate through the shoulder with an arthroscope from the biceps tendon attachment to the subscapularis (anti-clockwise).



Inspection

Inspect the shoulder joint using the arthroscope and an arthroscopic hook by touching the points of interest indicated by the spheres.



Diagnosis

Diagnose the shoulder joint for the following conditions: SLAP lesion, Bankart lesion and bicipital tendonitis.

MySimendo

MySimendo is the online platform that comes with the simulator. This platform manages all data that has been obtained through the Simendo simulator. This platform was the first online platform for surgical simulators and is still considered as the most sophisticated and user-friendly platform that is currently available.

With MySimendo.com scores and certificates are safely stored and always accessible for users. The Simendo makes use of several predefined and scientifically validated curricula that includes nominal scores as a reference for user scores. During training there is no human intervention that can influence the scores accept the user itself. This advanced computer model makes the scoring 100% objective and there is no need for supervisors to check whether the trainee performed well.

MySimendo gives you the full benefits of simulation and is widely accepted, it handles over 15.000 scores every month!

- ✔ Most advanced and user friendly online scoring platform for medical simulators.
- ✔ Online profiles so trainees can resume their training on any Simendo worldwide.
- ✔ Safely stores trainee data in a protected environment.
- ✔ Sends out certificates to users and supervisors.
- ✔ Notifies the supervisor after a trainee has passed the exam.
- ✔ Certification expiry option for repeated training.
- ✔ Supports online competing through the simulation software throughout the year.
- ✔ Create hospital groups for regions.

Publications

If you decide to mandate the training it is essential that there is a scientifically proven foundation. Therefore Simendo BV maintains a close relationship with various academic centres and universities. This close relationship does not only lead to new products, but also new publications and validation articles on which the certificate scores are based.

Tuijthof G.J.M., Sierevelt I.N., van Dijk C.N., Kerkhoffs G.M.M.J., Is the presence of a dummy leg essential in the SIMENDO arthroscopy trainer? Oral presentation. 14th ESSKA 2000 Congress, Oslo, Norway, June 9-12, 2010. Knee Surg Sport Tr A 18(1):16-16, 2010.

Tuijthof G.J.M., Visser P.*, Sierevelt I.N., van Dijk C.N.*, Kerkhoffs G.M.M.J.*, Does Perception of Usefulness of Arthroscopic Simulators Differ with Levels of Experience?. Clin Orthop Rel Research, 469(6):1701-8 2011.

Contact

Feel free to contact us if you would like purchase information about the Simendo arthroscopy trainer or one of our other products.

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