VIRTAMED

VirtaMed ArthroS™ ACL Reconstruction Module
Virtual reality training simulator for ACL reconstruction

Life-like experience

- Photorealistic graphics
- Realistic tactile feedback
- Anatomical knee model can be manipulated just like a real knee

Versatile training

- Numerous patient cases with different anatomies
- Original instruments ease transfer of skills to the OR
- Bleeding and complications control available

Customized tutorials

- Interactive didactic reading material to build foundational knowledge
- 3-D tutorial to visualize the procedure
- Live performance feedback, expert-defined scoring and course certificates

Swiss engineering

- Platform compatible with all VirtaMed ArthroS™ anatomical models
- Seamless extension to existing knee model
- Regular updates and high quality support

sales@virtamed.com

ArthroS™ ACL Reconstruction essentials

Focus on finding the optimal tunnel placement

The most critical – and the most difficult – part of ACL repair surgery happens after the surgeon has removed the injured ligament and before they drill tunnels into the femur and tibia bones for the replacement graft: the physician has to identify the optimal location for the tunnels. This requires a deep understanding of the 3D anatomy of the knee joint to ensure an anatomical reconstruction of the ACL. The simulated patient cases with different anatomies help students gain diverse experience in this particular task; the final assessment report will show the consequences of the chosen tunnel positions.
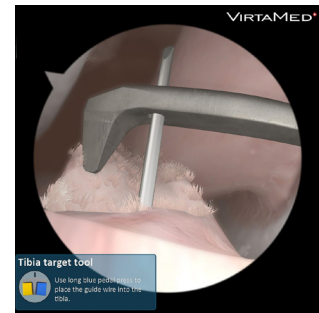
Learn the basics and visualize the procedure

The VirtaMed ArthroS™ ACL Reconstruction Module simulator provides trainees with extensive, high-quality didactic reading material created by Robert A. Pedowitz, MD, PhD, Professor Emeritus of University of California. Furthermore, the simulator comes with a special 3-D training module, where trainees can easily explore the knee from all sides, shift the location of the replacement ACL with a simple click, and experiment how these adjustments affect the joint function.
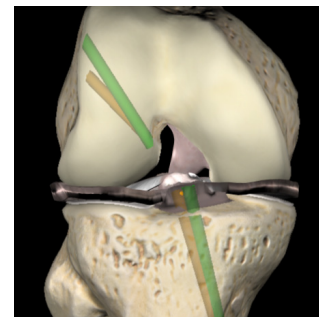
> The truth is that most of the technical skills of ACL reconstruction are currently learned on patients during clinical care delivery. It is challenging to translate three dimensional concepts into efficient and accurate surgical performance, especially when the procedure is visualized with two dimensional video arthroscopy. We need safer and more effective methods to reinforce these concepts of ACL anatomy and reconstruction – such as the VirtaMed ArthroS™ ACL Reconstruction Module.

Dr. Robert A. Pedowitz, M.D.

Professor Emeritus, University of California

> I need one of these for my next arthroscopy course! So far I have seen nothing this good in the field of ACL reconstruction training.

Prof. Dr. Michael J. Strobel

Sporthopaedicum Straubing