

SIMULATOR FOR LAPAROTOMIC AND LAPAROSCOPIC SUTURES

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Innovative and unique system that provides functional suture training through a new concept of Realistic Modulated Surgical Simulator The NEO-KNOT provides training from a simple suture to the complexity of a laparoscopic suture. Its versatility added to the multiple suture models, allow several options that complete one another:

1. Laparotomic Sutures A multifunctional acrylic velcro-coated stand acts as a base for easy attachment of suture models anywhere on its surface. Suture models offer various types of laparotomic suture through Basic , Advanced, Master and Top Master suture kits. There are also other models such as the Suture Disc, Dissection Disc and the Suture Globe. 2. Laparoscopic Sutures with camera and surgical optics With the use of towers in multifunctional support, Neo-Knot becomes a unique model for laparoscopic suture training. The two grasper towers and the camera tower can be moved in various positions of the support, giving the trainee the possibility of simulating various laparoscopic punctures, similar to an actual abdominal wall (The simulator does not include a needle or camera door). The comfort of the vertical adjustment of the towers, and the rotation of the fixation element of the graspers, offer the similar sensation of being operating in a real abdominal wall, offering angulations and similar movements to the reality. Through the integration of systems of simulators multiply the options of difficulties for those who want training in this type of exercise. 3. Laparoscopic Suture with USB camera The same training described on item 2 can also use the option of a digital camera, with low delay, offering the opportunity to use your own computer or a TV with USB input as a monitor, bringing home the training and the possibility of practicing laparoscopic suture. 4. Stand for tablets and smartphones The adjustable stand attaches to the base allowing a tablet or smartphone of any size to be positioned above the Neo-Knot offering virtual imaging, while the laparoscopic dissection or suture procedure occurs. If you have an Apple TV, you can pair it with an iPad or iPhone, or if it's a SmartTV, an Android smartphone can be mirrored via the application, producing an enlarged image on your television with high definition, and easily and practically creating your training environment.

Components and spare parts:

- Multifunctional base, made of acrylic.
- Complete set for laparoscopy.
- USB camera with stand.
- Upgrade set for laparoscopy.
- Suture set, Basic level. With velcro.
- Suture set, Advanced level. With velcro.
- Suture set, Master level. With velcro.
- Suture set, Top Master level. With velcro.
- Camera tower.
- Grasper towers.
- Stand for tablet/smarthphone.