VIRTAMED
Better Surgeries

VirtaMed GynoS™

The most advanced & comprehensive ObGyn training solution.

Realistic training

- Photorealistic graphics
- Best in class haptic feedback
- Original instruments ease transfer of skills to the OR
- Different uterine anatomies

Independent learning

- Progressive training, from basic skills to advanced cases
- Expert-developed courses
- Create your own curriculum with a unique variety of cases
- In-simulation procedure guidance

Portable platform

- Train at multiple locations. The portable platform can be easily packed and unpacked while offering the benefits of a life-size pelvic model for greater immersion.
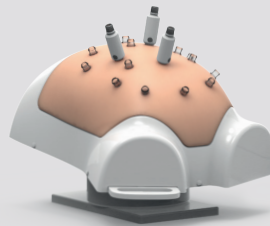
VirtaMed GynoS™ can be complemented with LaparoS™ General Surgery, UroS™ and ArthroS™, for multidisciplinary training on one platform.
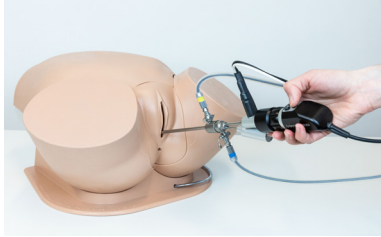
Ergonomic platform

- Use your dedicated training space to standardize teaching across departments and share costs.

The VirtaMed Gynecology Platform

GynoS™ Hysteroscopy

Training goals

- Learn to expertly navigate and examine the uterus using angled optics.

- Gain the experience needed to recognize rare pathologies.

- Practice resection techniques and become proficient in electrosurgery.
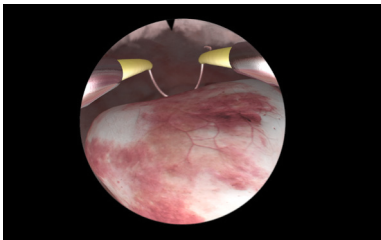
Training cases

- Essential skills for hysteroscopy with step-by-step guidance

- Diagnostic cases for pathology identification

- Polypectomy and myomectomy with cutting loop

- Endometrial ablation with rollerball

- Removal of multiple intrauterine fibroids and septum resection

- Tissue removal with MyoSure ®

## GynoS™ Gynecological Laparoscopy

Training goals

- Patient positioning, trocar placement, hand-eye and bi-manual coordination

- Complete diagnostic laparoscopies and therapeutic procedures

- Become proficient with a range of blunt and electrosurgical instruments
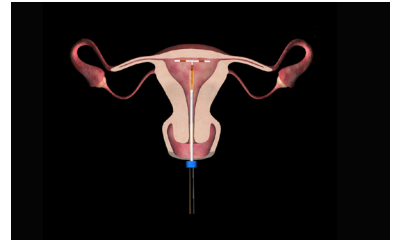

Training cases

- Diagnostic laparoscopy (including tubal patency test and endometriosis)

- Tubal ligation (sterilization clips, bipolar coagulation)

- Ovarian cystectomy

- Bleeding control for ovarian vasculature

- Management of an ectopic pregnancy (salpingectomy and salpingotomy)

- Management of a mild endometriosis (coagulation and resection)

- Key hysterectomy tasks: treatment of adnexa, uterine vessel ligation, vesico-uterine fold dissection

GynoS™ IUD Placement
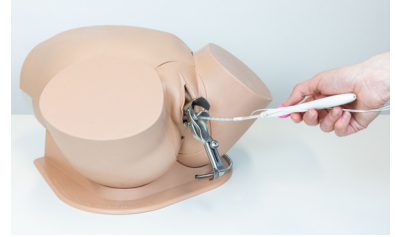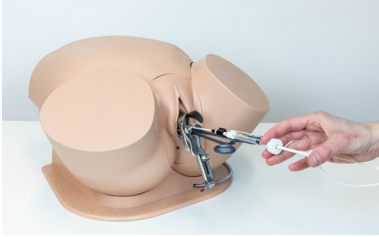

Training goals

- Place an IUD in the correct location, learning to reduce complications such as perforation and implanting the device into the uterine wall.

- Ensure patient comfort when manipulating the version and flexion of the uterus with tenaculum forceps.
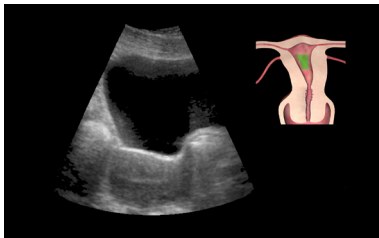

Training cases

- Placement of the Mirena®, PARAGARD®, Kyleena®, and Skyla®/Jaydess® IUDs.

- Uterine sounding.

- Cases include nulliparous patients, as well as patients with anteverted and retroverted uteri.

asrm Embryo Transfer

Training goals

- Perform the various embryo transfer techniques as defined by the American Society for Reproductive Medicine (ASRM).

- Determine the best location for embryo expulsion.

- Train in your team to coordinate tasks, reduce patient risk, and minimize procedure time.
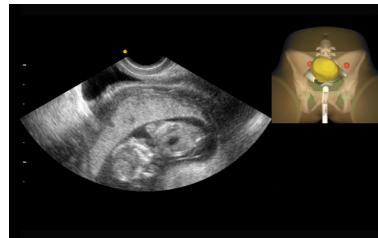

Training cases

- Embryo transfer with and without ultrasound guidance

- A variety of cervical canal challenges including a sharp bend at the internal os, a tortuous canal and a false passage

- 9 different patients for training ultrasonography, catheter identification and expulsion technique.

- 5 transfer protocols to practice to find the best protocol for your clinic

GynoS™ Transvaginal Obstetric Ultrasound

Training goals

- Learn to visualize key anatomical areas faster and more precisely thanks to the realistic tactile sensation of the probe.

- Assess the viability of an embryo, including ectopic pregnancy, fluid in the cul-de-sac, or mass in the adnexa.

- Perform biometric measurements during first trimester to estimate the gestational age.
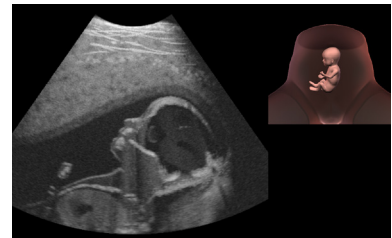

Training cases

- 16 cases with a variety of scenarios to enable trainees to hone their skills before examining patients.

- Cases include healthy pregnancies, pregnancy loss, pregnancies of unknown location, and rare ectopic twins.

GynoS™ Transabdominal Obstetric Ultrasound

Training goals

- Assess the health of the fetus and exclude pathologies following the structured 20 planes and 2 sweeps approach.

- Navigate the transducer across the entire abdomen, learning to acquire an accurate ultrasound image as on a real patient.

- Perform biometric measurements during second trimester to estimate the gestational age.

Training cases

- Over 100 cases spread across the 6 key anatomical areas: the face, brain, heart and thorax, abdomen and pelvis, limbs, and spine.

- 10 different fetal ages between 12-26 weeks to challenge biometry skills

- Basic skills training focused on the primary ultrasound techniques of rocking, tilting and sliding, along with anatomical training and fine navigation skills.
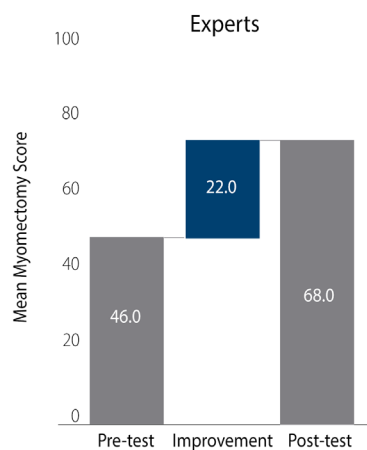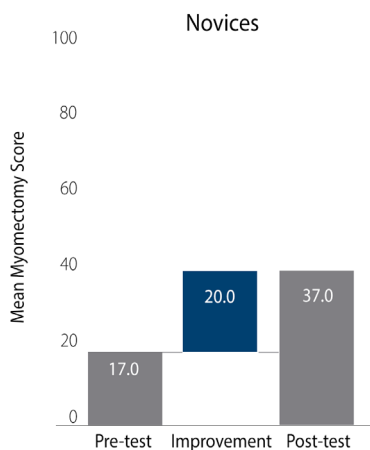
Evidence and testimonials

The VirtaMed GynoS™ simulators have been validated by many studies to make sure they are the most realistic, accurate, and helpful tool on the market for obstetrics & gynecology skills training. Integrating simulation into the educational pathway shortens the learning curve and increases practitioners' confidence in their acquired skills.

> 〞 Our job, our intention is to make sure everyone leaves here competent in imaging, in obstetrics and gynecology, hysteroscopy - and GynoS™ is a great tool to do that.
>
> — *Anthony C. Sciscione, DO Director of the OB/GYN Residency Program Maternal and Fetal Medicine, Christiana Care Newark, DE, USA*

VirtaMed GynoS™ is demonstrated to improve hysteroscopic skills in both novices and experts. [1]

Novices
Mean Myomectomy Score

- Pre-test: 17.0
- Improvement: 20.0
- Post-test: 37.0

Experts
Mean Myomectomy Score

- Pre-test: 46.0
- Improvement: 22.0
- Post-test: 68.0

97.2%
of clinicians think the VirtaMed GynoS™ IUD Placement is a better training tool for inserting IUDs than manufacturer models. [2]

93.5%
of gynecological surgeons would recommend the VirtaMed GynoS™ Hysteroscopy to their friends. [3]

> 〞 What I like best about VirtaMed GynoS™ is the combination of real tactile sensation from a pelvic model and the large variety of training scenarios thanks to virtual reality simulation. We worked hard to make the feeling a life-like experience. Any time during a procedure, GynoS™ gives detailed instructions on what to do and what not to do, as well as immediate feedback if something goes wrong. I am convinced that this will improve education in gynecology, and thus enhance patient safety and comfort.
>
> — *Prof. Dr. med. Michael Bajka, MD, medical adviser for VirtaMed*

[1] Elessawy M, Skrzipczyk M, Eckmann-Scholz C, Maass N, Mettler L, Guenther V, et al. Integration and Validation of Hysteroscopy Simulation in the Surgical Training Curriculum. J Surg Educ. 2017; 74(1): 84–90
[2] Dodge L, Hacker Michele, Averbach S, Voit S, Paul M. Assessment of high-fidelity mobile simulator for intrauterine contraception training in ambulatory reproductive health centres. *Journal of European CME.* 2016; 5: 30416
[3] Bajka M, Tuchschmid S, Streich M, Fink D, Székely G, Harders M. Evaluation of a new virtual-reality training simulator for hysteroscopy. *Surgical Endoscopy.* 2008.

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