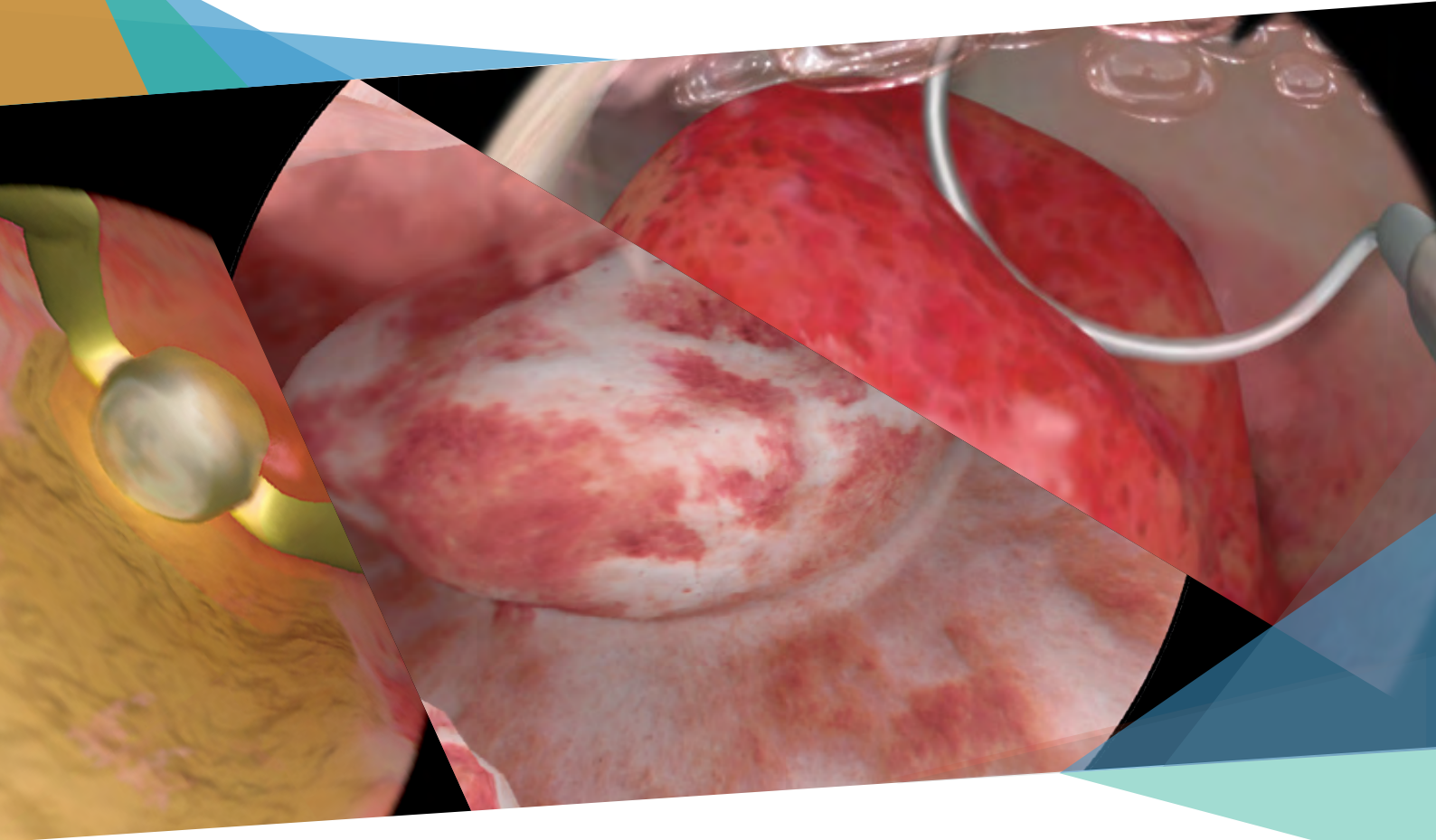


# HYST Mentor™

# TURP Mentor™





## Flexible, cost-effective solutions suitable for various settings

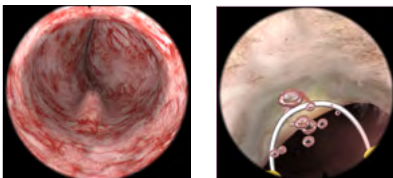
- Height adjustable platform
- Monitors for simulation control and the procedural view
- Haptic system with 4 degrees-of-freedom

### ADAPTED ORIGINAL RESECTOSCOPE

- Fully extractable
- In and outlet valves for fluid handling
- 0° 12° and 30° virtual cameras
- Working element for electro-surgery

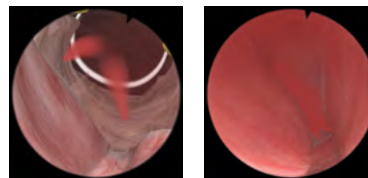


## Educational Features



### HANDS-ON SIMULATION TRAINING

Practice basic tasks to complete procedures in various techniques at a range of difficulty levels.



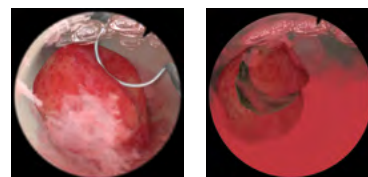
### HANDS-ON COMPLICATION TRAINING

Perform a safe and effective procedure while efficiently managing bleeding and complications.



### DIDACTIC EXPERT TUTORIALS

Introduce and explain “best practice” in core procedural techniques.



### MASTERING INSTRUMENTS

Work with original scopes: diagnostic hysteroscope with angled optics, loop electrode, laser fiber, scissors, graspers and more.

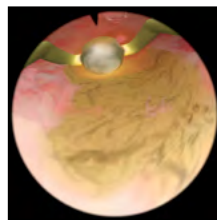
Combined platform for the hands-on practice of hysteroscopy, transurethral resection of the prostate (TURP), transurethral resection of bladder tumors (TURB) and laser BPH treatment.

## HYST Mentor - Comprehensive Hysteroscopy Curriculum

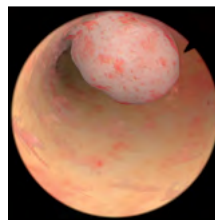
Only Sionix products provide a complete Women's Health Training Curriculum including simulators for Robotic Surgery, Laparoscopy, Ultrasound, Pelvic Exams and Diagnostic and Therapeutic Hysteroscopy.



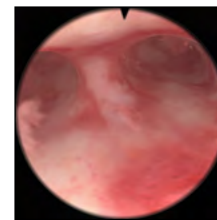
Essential Skills



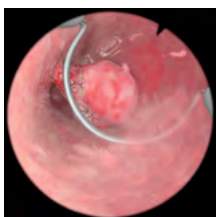
Rollerball Endometrial Ablation



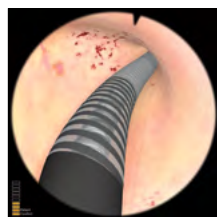
Diagnostic Hysteroscopy



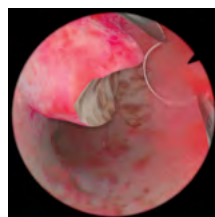
Advanced Resection



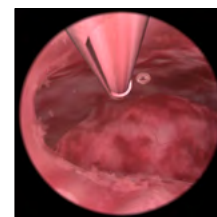
Polypectomy



Essure



Myomectomy



Morcellation

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## TURP Mentor - Comprehensive Training for TURP, TURB and BPH Treatment

Only Sionix products offer a complete Urology Training Curriculum including simulators for Robotic Surgery, Laparoscopy, Endourology, TURP, Laser BPH and TURB.



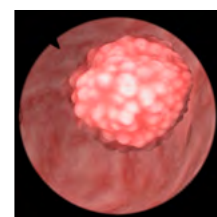
TURP Basic Skills



Laser BPH



TURP Procedures



TURB

Request a demo or more information at [healthcare@3dsystems.com](mailto:healthcare@3dsystems.com)



"HYST Mentor allows our residents and fellows to improve their skills in hysteroscopic basics procedures as well as more advanced procedures such as synechiae or septa procedures. I really think that a such simulator is very useful in a teaching university hospital."

Dr. Guillaume Legendre  
Department of Obstetrics and Gynecology  
Angers University Hospital, Angers, France



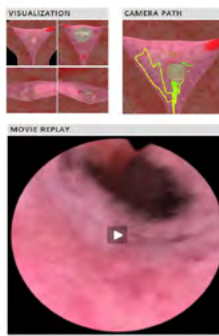
"TURP Mentor offers urology surgeons extremely realistic hands-on training with a wide range of prostate anatomies, pathologies and operative complications. Surgeons can practice the procedure to perfection without risking the patient, after which they can transfer this experience to the OR."

PD Dr. med. Michael Müntener  
Head Physician Urology  
University Hospital Zurich

## MentorLearn Simulator Curricula Management System

3D SYSTEMS' MULTIDISCIPLINARY SIMULATORS EFFORTLESSLY INTEGRATE INTO YOUR PROGRAM CURRICULUM.

| MYOMECTOMY   | 0 / 100 | 0 %              |
|--|---------|------------------|
| Score  | Adapted | Goal             |
| Removed pathology  | 0 / 100 | 47 % >95 %       |
| SAFETY   | 78 / 80 | 97 %             |
| Score  | Adapted | Goal             |
| Tool active without contact  | 18 / 20 | 9 % < 5 s        |
| Tool active when pushing   | 20 / 20 | 0                |
| Cervix contacts  | 20 / 20 | 0 < 1 s          |
| Cavity contacts  | 20 / 20 | 0 < 1 s          |
| ECONOMY  | 76 / 80 | 95 %             |
| Score  | Adapted | Goal             |
| Procedure time   | 40 / 40 | 131 s < 240 s    |
| Cumulative path length   | 30 / 30 | 576 mm < 900 mm  |
| Camera alignment   | 6 / 10  | 90 % > 90 %      |
| VISUALIZATION  | 55 / 60 | 92 %             |
| Score  | Adapted | Goal             |
| Uterine cavity   | 30 / 30 | 91 % > 85 %      |
| Left ostium  | 0 / 5   | 0 s > 1 s        |
| Right ostium   | 5 / 5   | 8 s > 1 s        |
| FLUID HANDLING   | 40 / 40 | 100 %            |
| Score  | Adapted | Goal             |
| Time view obscured   | 20 / 20 | 0 s < 30 s       |
| Time uterus collapsed  | 10 / 10 | 2 s < 15 s       |
| Distension media used  | 10 / 10 | 913 ml < 1000 ml |
| User: Minter   Date: 2013-9-25, 11:55   Case: Myomectomy, Mullum 1 |         |                  |



- Customizable curriculum incorporating training and didactics.
- Easy and efficient administration of simulator users.
- Online learning courses and video-based content.
- Proficiency based hands-on training.
- Performance reports with learning curve graphs.
- Recorded videos of the simulation sessions for debriefing.

## Healthcare Solutions

3D Systems is a pioneer for healthcare solutions that improve outcomes which benefit both patients and surgeons. Our global team works with customers to help navigate technologies and provide support for surgical planning, training, device design, personalized medical technologies and 3D printing. We are dedicated to helping medical professionals train for, plan and practice complex medical procedures to achieve better patient outcomes.

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