

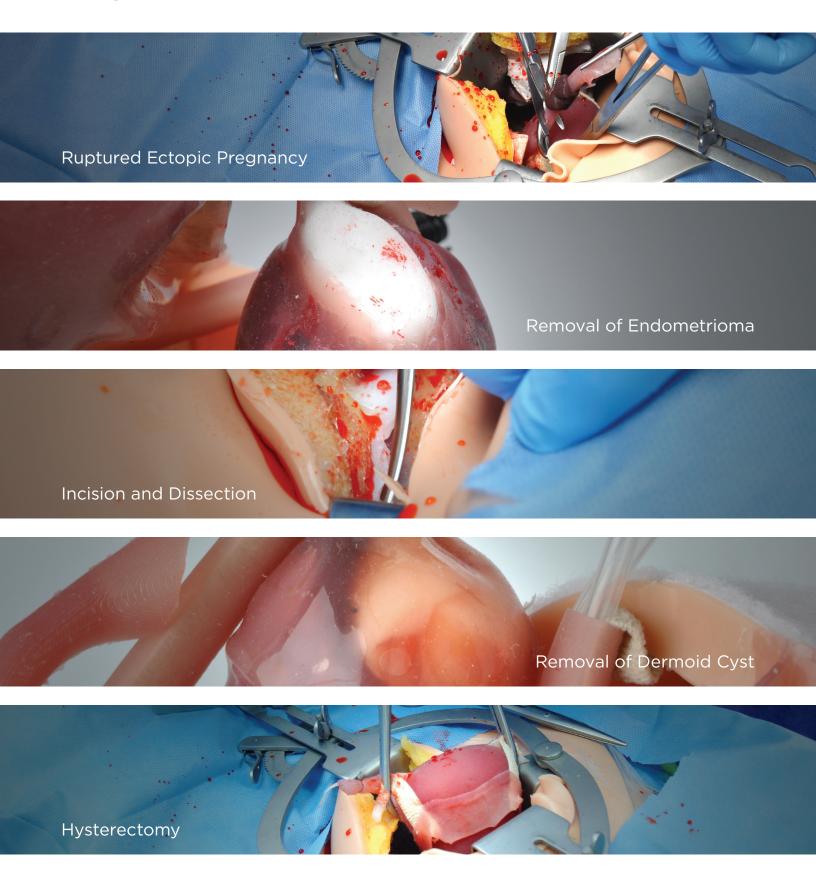
Surgical Chloe™ S2100

Full Body Surgical Simulator

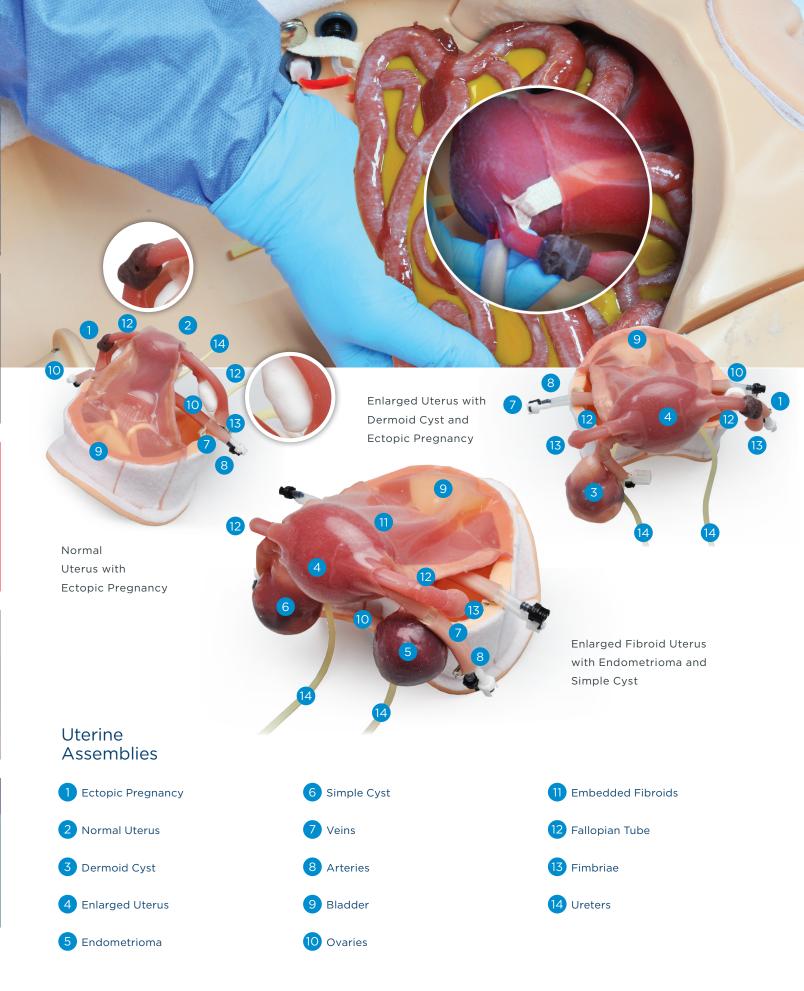
- · Address surgical competencies
- Perform laparotomy, laparoscopy or vaginal procedures
- Scenarios created and tested in an academic OB/GYN environment
- · Use real surgical instruments

Use Real Surgical Address Surgical Record **ACGME Skills** Scenarios **Everything** Instruments Simulator can be · Ruptured ectopic Two onboard cameras With its lifelike used to address · Pelvic mass and a head-mounted abdominal inserts and competencies in six · Septic abortion camera focus on the uterine assemblies, areas including: · Bleeding disorder surgical technique procedures can be patient care, medical · Post-op hemorrhage and intervention performed using real · Patient safety (fire) surgical instruments in knowledge, practice methods, while an based knowledge and · Malignant hyperthermia overhead camera a real Surgical OR. improvement, systems · Cardiac arrest records the actions based practice, com- Anaphylaxis of the surgical team. munication, and Hypoxia professionalism.

$Surgical\ Chloe^{\text{TM}}\ S2100\ |\ \mathsf{Full}\ \mathsf{Body}\ \mathsf{Surgical}\ \mathsf{Simulator}$



See more on full features list...





Assess Individual and Team Competencies

Team-building scenarios can be performed for the development of Gynecologic Surgical Skills and Patient Safety.



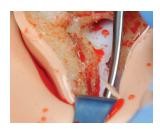
Cut and Suture Like Real Tissue

Multi-layer design representing the skin, subcutaneous, fascia, muscle, and peritoneum for maximum realism.



Practice Laparotomy, Laparoscopy and Vaginal Procedures

Chloe allows caregivers to perform surgical interventions using all three procedures.



Bleeds When Cut

Abdominal inserts and uterine assemblies incorporate simulated blood to allow realistic practice of hemostatic technique.



Bowel Insert

For abdominal and laparoscopic procedures, the simulated bowel can be moved aside to provide access to the underlying uterine assembly.



Record Everything

Seamless integration with Gaumard's intuitive software allows recording of the events log and control of the simulation from a single PC.



Replaceable Uterine Assemblies

Each assembly exhibits different complications and allows surgical teams to carry out a variety of procedures.



CPR + Circulation

Detection and log of chest compression and ventilations, bilateral carotid, radial, and brachial pulses; heart sounds, and programmable blood pressure.



Laptop and Vital Signs Monitor

Surgical Chloe includes one laptop PC with the UNI® control software and a 20in touchscreen Vital Signs Monitor.



Train for Everything From Assessment to Recovery Room

Scenarios can cover an entire procedure, from patient presentation, to assessment, surgical management, and the recovery room.



Speech and Streaming Voice

Be the voice of Chloe[™] and hear caregiver responses. Create and store vocal responses or select from a prerecorded vocal menu.



Surgical and General Patient Safety Scenarios

Train and assess surgeons or teams in complications such as hemorrhage, malignant hyperthermia and patient safety.

Surgical Chloe™ S2100 | Full Body Surgical Simulator

Two pelvic cameras and surgeon's head-mounted camera focus on technique, interventions and teamwork, while an overhead camera records actions of the entire team.

Audio, video and more...

Up to 8 video and audio streams can be recorded along with 4 patient monitor feeds and a simulator log file.

Simulation Made Easy™

Debriefing using the Pro+ is simpler than ever with advanced search functionality, simultaneous multicomputer access and instant playback.

Integrated

Monitor shows "patient" status, views of up to four cameras, operating system, and log of events.

Flexible

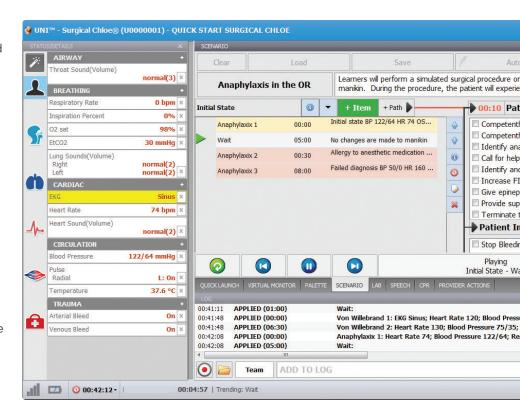
It's compatibility with various wireless and wired cameras TOGETHER with the ability to shoot multiple simulations simultaneously make the Pro+the best option for simulations of all types and sizes.



Surgical Chloe™ S2100 | Full Body Surgical Simulator

UNI® Software

- · Sensors track participants actions
- Changes in condition and care provided are time stamped and logged
- View the actions of up to 6 care providers using a responsive menu or write narrative
- · Generate and share lab results
- Links with recording and debriefing system integrating the event log with cameras and patient monitor
- Automatically changes vital signs in response to blood loss
- 11 preprogrammed scenarios which can be modified by the instructor even during the scenario
- · Create your own scenarios add/edit
- Change simulator's condition during the scenario on-the-fly





Vital Signs Monitor

- · Controlled via laptop
- · Simulated vital signs
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- · Customize alarms
- · Easy to operate and control
- · Reflect simulator's condition during the scenario
- Share images such as ultrasounds, CT scans, lab results
- · Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- · Display up to 8 numeric parameters
- · Select up to 5 dynamic waveforms

Surgical Chloe™ S2100 | Full Body Surgical Simulator

General

- Powered from an internal rechargeable battery or wall outlet
- Simulator receives commands from a wired Laptop (15 foot Ethernet cable included)
- Use preprogrammed scenarios, modify them or create your own quickly and easily
- Remains fully functional even while in transit
- · Workbook of ten (10) advanced scenarios and example surgical checklists
- Training Video

Surgical Components

- Uterine Assembly 1: Normal Uterus with ectopic pregnancy and uterine bleeding. Simulates ruptured Ectopic pregnancy with bleeding, severe vaginal bleeding from uterus, and includes bladder
- **Uterine Assembly 2:** Enlarged Uterus with dermoid cyst on one side and ectopic pregnancy on the other. Simulates ruptured ectopic pregnancy with bleeding; also includes realistic dermoid and bladder
- Uterine Assembly 3: Enlarged uterus with embedded fibroids, endometrioma on one side, and simple cyst on the other. Simulates embedded bleeding fibroids; also includes realistic simple cyst. endometrioma, and bladder

· Abdominal wall insert

- Use your instruments for incision, dissection, and suturing
- Can be used at least 4 times
- Multi-layer design replicates the skin, subcutaneous, fascia, muscle, and peritoneum
- Incorporates bleeding
- Can be used to perform either pfannenstiel or vertical incision
- Can be used to place laparoscopic trocars

· Laparoscopy Abdominal Wall

- Includes 8 access ports on left, right, and midline of abdominal wall

Bowel Overlay

- Includes insert that can be placed over uterine assembly for added realism

Scenarios by Martin E. Olsen, MD

- Ruptured ectopic pregnancy
- · Pelvic mass in pregnancy
- · Septic abortion
- · Bleeding disorder Von Willebrand's
- Post-operative hemorrhage after conization of the cervix
- · Fire in the OR
- · Malignant hyperthermia during surgery
- Cardiac arrest in the OR
- · Anaphylaxis and Hypoxia in the OR

- · Multiple upper airway sounds synchronized with breathing
- Bag-Valve-Mask Ventilation
- · Placement of conventional airway adjuncts

Breathing

- Control rate and depth of respiration
- · Chest rise and lung sounds are synchronized with selectable breathing patterns
- Simulated spontaneous breathing
- · Normal and abnormal breath sounds

- · Conductive skin regions allow for ECG monitoring with real equipment
- Heart sounds may be auscultated and are synchronized with ECG

Circulation

- Measure blood pressure by palpation or auscultation
- Use real BP cuff rather than a "virtual" cuff to measure blood pressure
- Korotkoff sounds audible between systolic and diastolic pressures
- Oxygen saturation detected using real monitors rather than a "virtual" value
- Pulse sites synchronized with BP and heart rate
- Bilateral IV arms with fill/drain sites
- · SubQ and IM injection sites
- · ECG monitoring using real devices
- · Multiple heart sounds, rates and intensities
- · Virtual ECG rhythms are generated
- in real time
- Ovarian and Uterine arteries and veins, with bleeding functionality
- During application of scenarios, vital signs reflect physiologic changes that occur with hemorrhage

Neural Responses

Eyes open and close

Speech

- Wireless streaming audio and pre-recorded responses
- Create and store vocal responses in any language

20in All-in-one Touch Screen PC to **Display Vital Signs**

- Controlled via laptop
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- Share images such as ultrasounds,
- CT scans, lab results
- Touchscreen control

Pro+ Recording and Debriefing System

- Two (2) built in infrared cameras in lower torso
- One (1) head mounted camera
- One (1) overhead camera records actions of surgical team

User Interface

- Sensors track participants actions
- Changes in condition and care provided are time stamped and logged
- Create your own scenarios add/edit
- · Change simulator's condition during the scenario

Includes

- One laptop to run Pro+ system and UNI™ Software
- · Pro+ Recording and debriefing system
- Vital Signs Monitor
- · Four (4) abdominal wall inserts
- · Twelve (12) uterine assemblies, four (4) of each type
- CDROM demonstration video
- · Soft sided case with rollers
- · User Guide

Surgical Chloe™

S2100

Patented; other patents pending

Surgical Chloe™ without PRO+ Recording and **Debriefing System**

S2101

Replaceable Modules

Abdominal Wall Inserts S2100.013

Uterine Assembly 1 S2100.014

Uterine Assembly 2 S2100.015

Uterine Assembly 3 S2100.016

Bowel Overlay S2100.017

Laparoscopy Wall S2100.018