



# Open Surgical Simulation System

“Our System...Your Training”

Under the current surgical educational system, residents and fellows have had significantly less hands-on experience in which they have been allowed to make independent decisions and be responsible for the consequences of those decisions. Strategic Operations™, Inc. (and ST/OPS Tactical Training Canada ULC) uses proprietary and patented\* technology to bring training to the next level. The Open Surgical Simulation System (OS3) consists of a Surgical Simulation Trainer™, a Surgical Blood Pumping System, and Advanced Surgical Skills Packages™ (“ASSPs”) provides for “hyper-realistic”® surgical training.

Using simulation as a training modality, instruction and education can be paused with “time outs” for illustrating critical teaching points and then restarted. Our Surgical Simulation Trainer in conjunction with our Advanced Surgical Skills Packages allow residents and fellows to experience various trauma and general surgery scenarios in a “hyper-realistic”® high-fidelity model where they willingly suspend their disbelief that they are not working on a simulation trainer, but on a real person.

\*Please note, our products and methods may be covered by one or more of the following US Patents: 8,840,403; 9,336,693; 9,865,179; 9,916,774; 9,997,087; 10,325,524; 10,360,817; 10,360,818; 10,665,135; 10,726,743; 10,847,058; 10,977,962; 11,151,902 and US Patents Pending, as well as Foreign Patents: AU 2011271667; CA 2807472; CA 2894673; DE 60 2013 049 550.5; EP2589037 (DE); EP2589037 (FR); EP2589037 (UK); EP2852941 (FR); EP2852941 (UK).



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# Capabilities of the Open Surgical Simulation System:

## Chest Injury Pattern Capabilities

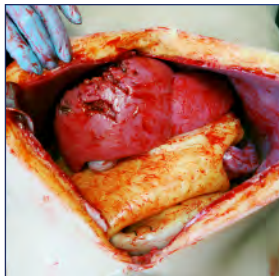
- Pneumothorax
- Haemothorax
- Pericardial tamponade
- Right ventricular laceration
- Left lung lower lobe bleeding injury

## Abdominal Injury Pattern Capabilities

- Hemoperitoneum
- Grade IV liver injury
- Grade IV splenic injury
- Grade IV left renal injury
- Zone II expanding haematoma
- Left external iliac artery injury
- Inferior vena cava injury
- Small bowel injury
- Colon injury
- Ureteral injury

## Procedures

- Needle Decompression
- Chest Tube Thoracostomy
- Resuscitative Left Anterolateral Thoracotomy
- Cross clamping of the thoracic aorta
- Pericardiotomy
- Right ventricular Pledgeted cardiorrhaphy
- Left lung wedge resection
- Internal cardiac massage
- Exploratory laparotomy
- Supraceliac aortic clamping
- Abdominal packing
- Pringle manoeuvre
- Mattox manoeuvre (left medial visceral rotation)
- Cattell-Braasch manoeuvre (right medial visceral rotation)
- Kocher manoeuvre
- Hepatorrhaphy
- Splenectomy
- Left nephrectomy
- Bowel resection with anastomosis
- Primary repair or shunting left external iliac artery injury
- Suprapubic catheter placement



## Surgical Blood Pumping System

- State-of-the-art blood pumping system that can simulate arterial or venous blood flow.
- Analog pressure gauges that depict the pulse and indicate when blood flow has stopped.
- Adjustable blood pressure, flow and pulsatile controls.
- Two independently controlled pumps send blood through four outlets into the ASSPs.
- Wall-mountable light display of real-time pump operation for all training participants to view.
- Foot-operated interrupter on/off switch of system flow & pulses.
- Digital voltage-meters that gauge the viscosity of the blood mix.
- Uses up to a 22.70 litres standard bucket of STOPS Artificial Surgical SFX Blood.



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