



## Laerdal-SonoSim Ultrasound Solution

### **Trauma Care Bundle, eFAST Protocol**

The Trauma Care Bundle, eFAST Protocol is a set of 10 Trauma Care Scenarios for use with LLEAP, extensive scenario support materials, and accompanying hands-on ultrasound scanning cases designed to assess and train healthcare providers and senior medical students in trauma care.

The Trauma Care Bundle, eFAST Protocol is designed specifically for the Laerdal-SonoSim Ultrasound Solution, which integrates simulated diagnostic ultrasound capacity from SonoSim into the Laerdal patient simulator platform. The Laerdal-SonoSim Ultrasound Solution delivers realistic and challenging scenario-based simulations designed to promote proficient critical thinking and clinical decision-making skills. For participants, it provides the opportunity to practice a broad range of trauma care skills in a challenging but risk-free environment.

# The Laerdal-SonoSim Ultrasound Solution

## Trauma Care Bundle, eFAST Protocol

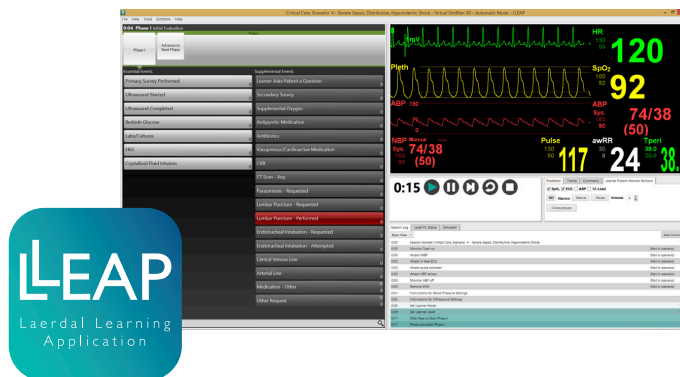
### Description

The Trauma Care Scenarios are designed to assess a learner's ability to care for critically ill trauma patients. Learners will need to perform primary and secondary trauma surveys, in addition to an extended Focused Assessment with Sonography for Trauma (eFAST) examination. The Trauma Care Bundle is structured around the eFAST protocol, so learners are expected to obtain and interpret 6 ultrasound imaging windows from real-patient cases for each Scenario. Consequently, learners are provided with significant exposure to both normal and pathologic ultrasound images.

Learners will need to develop an appropriate differential diagnosis, initiate timely resuscitative interventions, prioritize diagnostic interventions, order appropriate basic laboratory tests, and correctly acquire, interpret, and apply eFAST images towards medical decisionmaking. Participants must formulate a patient-care plan that effectively utilizes health-system resources and personnel, and ensures optimal patient outcomes.

### Trauma Care Scenarios

- Scenario 1: Tension Pneumothorax, Blunt Trauma
- Scenario 2: Hemopericardium, Penetrating Trauma
- Scenario 3: Tension Pneumothorax, Penetrating Trauma
- Scenario 4: Hemoperitoneum, Blunt Trauma
- Scenario 5: Abnormal Mental Status, Blunt Trauma
- Scenario 6: Hemoperitoneum and Hemothorax, Blunt Trauma
- Scenario 7: Hemothorax, Penetrating Trauma
- Scenario 8: Hemoperitoneum, Blunt Trauma
- Scenario 9: Hemoperitoneum and Coagulopathy, Blunt Trauma
- Scenario 10: False-Positive Hemoperitoneum, Blunt Trauma



### Ultrasound Findings

In the Trauma Care Bundle, learners use ultrasound to visualize the internal aftermath of both blunt and penetrating traumas, which can result in pneumothoraces, hemothoraces, hemoperitoneum, and hemopericardium. Specific findings on ultrasound include free fluid in the hepatorenal, splenorenal, suprasplenic, and pelvic spaces, pleural effusion, absences of lung sliding, and B-line artifact. Learners also have the opportunity to visualize pulmonary "barcode signs" on M-mode Doppler ultrasound.



### Ordering Information

390-10051 Trauma Care Bundle  
Includes: 10 Trauma Care Cases and 10 Trauma Care Scenarios

### SimCenter™

Visit [www.laerdal.com/simcenter](http://www.laerdal.com/simcenter) to learn how to optimize your simulation training using SimCenter:



#### SimStore™

Access to validated, standardized content from industry experts

#### SimManager™

A suite of online tools that allows you to fully optimize your entire simulation center operation

#### SimView™

A debriefing solution giving you the ability to study simulation events more closely

For more information, visit [laerdal.com/UltrasoundSolution](http://laerdal.com/UltrasoundSolution)