

CAE Caesar™ trauma patient simulator

Realistic training solution for first responders







When medical professionals are prepared to respond quickly and appropriately to traumatic injuries in demanding settings, they can dramatically improve patient outcomes.

WHEN HUMAN LIVES ARE AT STAKE...

Why train with the CAE Caesar™ trauma patient simulator?

Quite simply, CAE Caesar is one of the most realistic and physiologically advanced trauma patient simulators available.

Environmental conditions in combat or “point of injury” situations can often be hostile and make emergency care challenging. Rugged, durable and water-resistant, CAE Caesar is the only full-bodied trauma patient simulator that can be used outside the classroom in different types of terrain, climates and other challenging elements that confront first-response teams in the field.

CAE Caesar autonomously generates a wide range of physiological responses to traumatic injuries and treatment. As learners work through various scenarios, they can receive valuable and continuous feedback that details CAE Caesar’s vital signs, treatments provided and verbal cues that can range from lucid to anxiety-filled responses. If the learner’s interventions are correct, CAE Caesar’s condition will stabilize or improve.

With its intuitive graphic user interface, CAE Caesar is easy to operate and permits instructors to use either pre-set scenarios or customize their own.





An accelerated learning curve

With CAE Caesar, students will learn:

1. Rapid identification of life-threatening injuries based on anatomical and physiological responses
2. Rapid airway management skills including an emergency surgical cricothyrotomy procedure
3. Identification and proper treatment of open and closed chest injuries including the ability to perform a bilateral Needle Chest Decompression (NCD)
4. Hemorrhage control treatment of both compressible and non-compressible injuries
5. Identification of pulse points and proper response to patient's hemo-dynamic state
6. IV access and fluid resuscitation
7. Effective inter-personal and patient communication skills

CAE Caesar allows learners to develop critical thinking skills and core treatment modalities that are important in reducing morbidity and mortality in combat care.

SYSTEM FEATURES AND BENEFITS

CAE Caesar – full-body realism



Comprehensive range of mobile, responsive anatomic and physiological features

Anatomically accurate

- Size (183 cm/6 ft) and weight (79 kg/175 lbs) of an average male soldier
- Skin: realistic tactile look and texture
- Realistic eye representation
- Realistic airway from the oral and nasal passages and the cricothyroid cartilage space to the esophagus and tracheal bifurcation
- Breathing – bilateral chest rise/fall
- Anterior to axillary rib cage with proper intercostal muscle spacing

Autonomous physiological responses

- Level of consciousness depicted in speech patterns and eye response
- Hemorrhage level
- Respiration rate and depth
- Accurate response to properly applied tourniquets, pressure dressings and wound packing
- Bilateral pulse points (carotid, radial, femoral and pedal)

Complete and proper articulation of joints and spine

- Neck (flex/extend/abduction/adduction/ head and neck rotation)
- Back (flex/extend)
- Shoulders (flex/extend/abduction/ adduction/transverse abduction/transverse flexion/transverse extension/medial and lateral rotation)
- Elbows (flex/extend)
- Forearms (pronate/supinate)
- Wrists (Flex/extend/abduction/adduction)

Verbal response/sounds

- Autonomous response based on physiological condition
- Integrated capability for instructor generated response
- Proper verbal and non-verbal responses to injuries and treatments applied
 - *Lucid speech*
 - *Moaning/confused speech*
 - *Unconscious*



CAE Caesar is multi-functional, adaptable and easy to use

Learners are exposed to a range of trauma scenarios

- 21 pre-programmed “trauma” scenarios and individual scenarios for skills acquisition and validation
 - Scenarios include unstable airways, venous to arterial hemorrhaging from compressible and non-compressible injuries and open and closed chest injuries causing moderate to tension pneumothorax conditions
- Cases can be used for skills acquisition, skills development, validation and sustainment training
- Scenarios may be easily customized by the instructor
- Instructor may log commentary using the intuitive Instructor Operating Station at key teaching moments during exercises
- Recording/monitoring and logging training events for immediate field debriefing

Built to sustain realistic field environment during simulation exercises

- Sounds can be deployed (such as gunfire, explosions and other realistic noises) to immerse the learner into the environment being created
- 100% wireless and self-contained
- Runs up to 4 hours on a single fully-charged battery
- Controlled by a touch-based portable remote tablet PC
- Rugged, water resistant and durable for use in realistic working environment
 - *Can be used on multiple types of terrain such as dirt, sand, rocks or mud*
 - *Can be used in cold, heat and high humidity environments*
 - *Can be used to practice patient transport skills in ambulance, helicopter, fixed-wing aircraft and other transport vehicles*

“Rapid reset” capabilities for quick turn around between exercises

- Can be reset and readied for the next simulation exercise in less than 10 minutes
- Quick and easy to replace battery (easy access/no tools required)
- Battery can be recharged while in or out of simulator
- Easy to refill fluids
- Quick replacement of pneumothorax cartridges (easy access/no tools required)
- Modular change of limbs

Easy operation: intuitive graphic user interface and troubleshooting capabilities



Better prepared. Better performance. Better outcomes

At CAE Healthcare we understand the importance of being prepared. That's why we're committed to providing comprehensive solutions – ones that help healthcare practitioners sharpen their clinical, individual and interprofessional skills and prepare for better patient outcomes.

We believe simulation-based education and training is much more than just using a simulator. Our team will work with you to help you achieve your goals. Through a proactive approach to understanding our customers' requirements, CAE Healthcare can help you select the best set of solutions for your environment. Our commitment to you is the delivery of easy-to-use, integrated educational solutions that meet your most rigorous training demands. When you choose CAE Healthcare you can expect reliability, valuable content and worldwide expert technical support.



To learn more about what our team can do for you, contact us today:

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