

- There is **Trauma Patient Simulator** and **Emergency Care Simulator** in this room.
- 3 different patients and 10 different patient scenarios with Trauma Patient Simulator, 6 different patient scenarios can be studied with Emergency Care Simulator. In addition to ready-made scenarios, new scenarios can be created by trainers on the control computer.

### **Trauma Patient Simulator (CAE Caesar)**

- It has spontaneous respiration. Bilateral and unilateral chest movements are observed.
- Airway is realistic. Many airway procedures can be applied.
- It has bilateral palpable pulses, displays 12-lead dynamic ECG.
- Eyelids are mobile and can speak in pre-recorded sounds. These vary according to consciousness and clinical status.

### **The activities that can be done with this simulator are:**

- Airway opening techniques such as orotracheal, nasotracheal, ET tubes, retrograde, fiber optic, right mainstem, combi tube, LMA, bag-valve-mask ventilation can be simulated. Needle cricothyrotomy can be applied.
- Bilateral needle decompression can be applied.
- Bleeding from 6 different ports can be simulated, hemorrhage treatment is applied for all kinds of injuries that can be compressed and cannot be applied.
- IV cannulation is available on the forearms. IO sternal cannulation is available.
- Real-time pharmacological response is obtained according to the drug and its dose.

### **Emergency Care Simulator (CAE Ares)**

- It has spontaneous respiration. Bilateral and unilateral chest movements are observed. There are areas of auscultation in the anterior chest wall and sounds in the upper respiratory tract.
- Airway is realistic. Many airway procedures can be applied.
- Carotid and femoral pulses can be taken bilaterally, radial and brachial pulses can be taken unilaterally. Variable pulses can be simulated.
- It displays 12-lead dynamic ECG. 4-lead ECG can be monitored with real equipment.
- Normal and abnormal heart, lung and bowel sounds can be simulated.

**The activities that can be done with this simulator are:**

- 6 ready-made scenarios can be simulated including cardiopulmonary arrest, head trauma and pneumothorax, heroin overdose, inferior-posterior MI, sepsis and stroke. New scenarios can be prepared with the control computer.
- Bag-valve-mask (BVM) ventilation, orotracheal and nasotracheal intubation, endotracheal tube intubation, retrograde and fiberoptic intubation, transtracheal jet ventilation, right main stem intubation with detection can be applied. Abdominal distension occurs with intubation of the esophagus.
- Needle/surgical cricothyrotomy and tracheostomy can be applied.
- Bilateral needle decompression can be applied.
- Defibrillation, cardioversion, pacing using live equipment via external defib and CPR can be applied. The compression resistance of the chest and the compression depth are realistic. The software records the hand location compressions, speed and the depth of ventilation and ventilation/compression rate. After the simulation, participants can be evaluated in this way.
- It is possible to intramuscular injection from 4 sites. Unilateral iv cannulation can be applied from the antecubital area and the back of the hand; blood can be taken from these sites. Unilateral humoral intraosseous way is available.
- Urinary catheterization can be applied.