POC-CENT Medical Simulation System

The Point-of-Care Center for Emerging NeuroTechnology (POC-CENT) Medical Simulation System gives medical students the opportunity to safely engage in common healthcare scenarios while practicing skills, processes, and procedures until perfected.

Each simulation is carefully designed to meet specific learning objectives while providing interactive, hands-on, and experiential learning that can be more effective than passive modes of instruction.

Before You Begin

The POC-CENT Medical Simulation System uses a web browser-based plugin called “Unity3D” to simulate the healthcare scenario. It is important to note that the simulation does not save your progress if the web page is closed before completion. If you need to stop the simulation before finishing, you will have to start over from the beginning the next time you visit the page. Each simulation listed below shows an estimate of the time needed to complete the scenario so you can plan accordingly.

To print these instructions, click here for a printer-friendly PDF version of this page.

For assistance or technical support, use the Contact Us link or email ucsim@uc.edu. Phone support is also available during normal business hours at (513) 556-8562.

How to Install the Simulation System

1) When you visit the POC-CENT Medical Simulation System for the first time, you will be prompted to download and install the Unity Web-player browser plugin.

The plugin should work with all up-to-date versions of Internet Explorer, Firefox, Chrome, Safari, and Opera on a desktop or laptop machine. At this time, the simulation system does not work on most mobile devices or tablets, though we are exploring that option for future releases.

If you have difficulties installing the plugin, see the Unity Webplayer Download page for more information.

2) After completing the installation, the simulation will begin loading. It may take a moment or two for the simulation to fully load in your browser window.

3) When the login screen appears, enter your full First and Last Name, university ID, and the email address where your simulation results should be sent.
Navigating in the Simulation

Dialogue in the simulation will be in both audio and text, so you should make sure your speakers or headphones are working before beginning the simulation.

To navigate inside the simulation, you can use the arrow keys or A,S,D,W keys to walk forward, walk back, turn left, or turn right. Clicking and holding down the left mouse button will give you free control of the camera view.

Using the Simulation Interface

The simulation uses a Control Panel to control the equipment and other interactive components of the simulation. You can click either the button on the Control Panel or click the equipment in the room to interact with the simulation.
For example, to view the patient chart, you can click the Patient Chart button on the Control Panel, or click the Patient Chart at the foot of the patient’s bed.

NURSE: Please look at the patient information by opening the patient chart.

As the simulation proceeds, the Attending Physician will ask questions that can be answered by clicking the correct answer on the screen.

ATTENDING PHYSICIAN: The patient's MAP is 58 and CVP is 16 after the 4th liter of normal saline. What is the next appropriate order?

A. Normal saline
B. Norepinephrine drip
C. Dobutamine drip
D. Hydrocortisone
E. Check a lactic acid level

At the conclusion of the simulation, the results of your answers will be sent to the email address you entered at the beginning of the simulation, and if applicable, your instructor will be copied on the results.

**Simulation Scenarios**

Select from the modules below to begin a simulation.

<table>
<thead>
<tr>
<th>Module</th>
<th>Description</th>
<th>Estimated Time to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>4th Year Medical Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shock &amp; Respiratory Distress</td>
<td>A 62 year old male patient has come to the Urgent Care clinic complaining of shortness of breath, fever, chills, and malaise.</td>
<td>30 mins.</td>
</tr>
</tbody>
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