

## VitalSim™ Scenarios

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The Emergency Preparedness Scenarios - Terrorism modules reflect five major groups, each containing five cases that address different levels of exposure and/or personal injury. The simulation scenarios are designed to encourage learners to assess and manage the casualties to determine correct priorities to enhance operational assignments. The scenarios are specifically developed for use with simulators using VitalSim technology. These include Nursing Anne, Nursing Kelly, ALS Simulator, MegaCode Kelly and Resusci Anne Simulator.

- Scenario Group 1 (five cases): Nerve Agent
- Scenario Group 2 (five cases): Improvised Explosive Device (IED)
- Scenario Group 3 (five cases): Blister Agent
- Scenario Group 4 (five cases): Cyanide Agent
- Scenario Group 5 (five cases): Radiological Dispersal Device (RDD)



## EMERGENCY PREPAREDNESS SCENARIOS - TERRORISM

VitalSim Simulator Features, Capabilities and Comparison Chart

# EMERGENCY PREPAREDNESS SCENARIOS - TERRORISM

## VitalSim™ Scenarios

### Simulators for the scenarios using the VitalSim technology

The VitalSim simulators (Nursing Anne, Nursing Kelly, ALS Simulator, and MegaCode Kelly) are controlled via the VitalSim control unit, which uses a handheld remote control to run the scenario. Detailed information regarding assembly, maintenance, and troubleshooting procedures can be found in the directions for use (DFU), which is shipped with the VitalSim unit.

Resusci Anne® Simulator has VitalSim technology inside the simulator, and is operated using a handheld remote control and/or the PC Skill Reporting Software.

Each of the simulators has different capabilities. There may therefore be some differences in how each simulator responds to the scenarios:

### Ventilations

With the ALS Simulator and the Resusci Anne Simulator, the chest rises with each ventilation. Students can easily calculate respiratory rate with this feature. MegaCode Kelly Advanced, Nursing Anne and Nursing Kelly do not have a chest rise feature. The respiratory rate can still be calculated by listening to the ventilation sounds each of these manikins produce.

### Pulse oximeter

The simulators using VitalSim technology do not have pulse oximetry capabilities. The instructor will need to supply this information after the learner connects the appropriate probe, and during the simulation.

### Chest tube

Chest tubes can be inserted through a realistic insertion site on both the ALS Simulator and MegaCode Kelly Advanced. Nursing Anne and Nursing Kelly do not have this realistic site. There is a chest tube insertion opening on Nursing Anne and Nursing Kelly into which a chest tube can be placed and dressed. Chest tubes cannot be used on Resusci Anne Simulator.

### CPR

The ALS Simulator, MegaCode Kelly Advanced, and the Resusci Anne Simulator all permit CPR to be performed. This feature is not available on Nursing Anne and Nursing Kelly.

### Vocal sounds

The simulators all have voice sounds that can be activated on the remote control unit if wanted. Any vocal sounds listed in a scenario need to be applied using a microphone.



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# FEATURES, CAPABILITIES AND COMPARISON

## Comparison Table

Features	ALS Simulator	RA Simulator	MegaCode Kelly Advanced	Nursing Anne	Nursing Kelly
Endotracheal intubation	•		•	•	•
Bag-mask ventilation	•	•	•	•	•
Stomach auscultation to verify proper airway position	•		•		
LMA placement	•	•	•	•	•
Signs of spontaneous respiration	•	•			
Lung blockage (shut off L/R or Both)	•				
Pneumothorax decompression	•		•		
Chest tube insertion	•		•		
IV arm allows peripheral intravenous therapy & site care	•	•	•	•	•
Subcutaneous injection sites include: deltoid, bilateral thigh, gluteal & ventrogluteal	•	•	•	•	•
3 - 4 Lead ECG	•	•	•	•	
Pulses synchronized with ECG	•	•	•	•	
Ventilation sensor	•				
ECG and heart rate can be displayed on the simulated monitor	•	•	•	•	
BP can be taken automatically	•				
BP can be auscultated or palpated in BP arm	•	•	•	•	•
BP can be displayed on the simulated monitor					
Carotid pulse (bilateral in ALS and MegaCode Kelly)	•	•	•	Pulse Bulb	Pulse Bulb
Simulator "speaking" through instructor microphone	•	•	•	•	•
Independent left and right lung sounds	•	•	•	•	•
Cough, vomiting, moaning, or user-programmed sounds	•				
Cough, vomiting, moaning, or pre-programmed sounds		•	•	•	•
Bleeding trauma modules	•	•	•	•	•