



# Sterile Techniques Simulator

## Quick Start Guide

The Sterile Techniques Simulator helps students learn how to maintain sterility while performing urinary catheterization, tracheostomy suctioning, and central line dressing changes.

### SMART Sensing Components:

- A. Chest Patient Board
- B. Pelvis Patient Board
- C. 2 pairs of Sterile Gloves
- D. Male Genitalia
- E. Female Genitalia
- F. Central Line Swab
- G. 3 Swab Sticks
- H. Catheter with Collecting Bag
- I. 2 Sterile Equipment Trays
- J. Suction Tube
- K. Suctioning Catheter
- L. 5 towel drapes
- M. 5 central line bandages
- 4 AA batteries
- Downloadable curriculum
- 1-year limited warranty



**WARNING:** Patient Boards scuff easily. Handle with care.

# STERILE TECHNIQUES SIMULATOR

## Set-Up Instructions:

1. Insert 2 batteries into both the Chest Patient Board and Pelvis Patient Board.

**NOTE:** Do not operate on powered work surface.

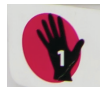


## Preparing The Product For Use:

### Chest Patient Board Connections:



1. Plug the Sterile Equipment Tray cord into the board.
2. Plug the Sterile Gloves cords (1 and 2) into the board.



You can now practice central line dressing changes. To practice tracheostomy suctioning, complete the following:

## Tracheostomy Suctioning

1. Plug in the two parts of your tracheostomy suctioning line (J. Suctioning Tube and K. Suctioning Catheter).



2. Plug the Suctioning Tube and Catheter cord into the board.



3. When all cords are connected to the board, you are ready to practice both central line dressing changes and tracheostomy suctioning.



**NOTE:** Put the catheter tube and Catheter into the connected Sterile Equipment Tray before beginning the procedure.

# STERILE TECHNIQUES SIMULATOR

## Pelvis Patient Board Connections:



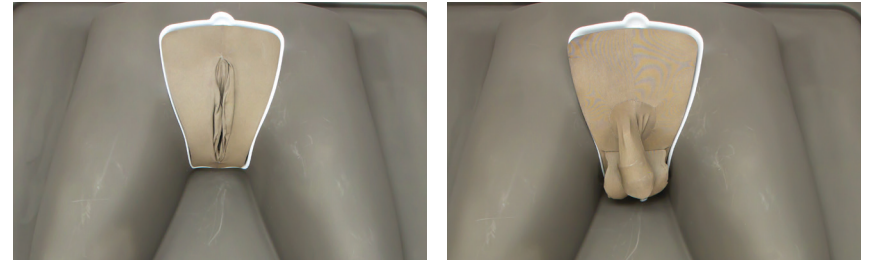
1. Plug the Sterile Equipment Tray cord into the board.
2. Plug the Sterile Gloves cords (1 and 2) into the board.
3. Plug the Catheter with Collecting Bag cord into the board.
4. When all cords are connected to the board and showing **GREEN** you are ready to practice both male and female catheterization, depending on which genitalia you have plugged in.



5. Plug in the genitalia you wish to practice with.



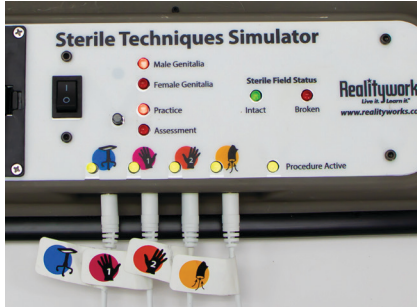
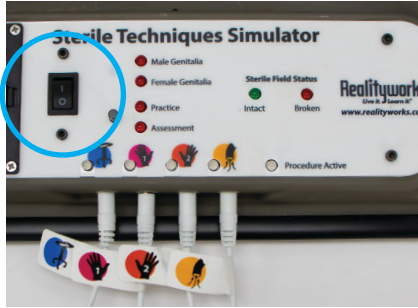
6. Set it in the genitalia compartment.



# STERILE TECHNIQUES SIMULATOR

## Powering On The Patient Boards:

On the Patient Board (both Chest and Pelvis), flip the power switch to power the simulator on. The lights should illuminate on the board, showing you it is ready to begin practice.

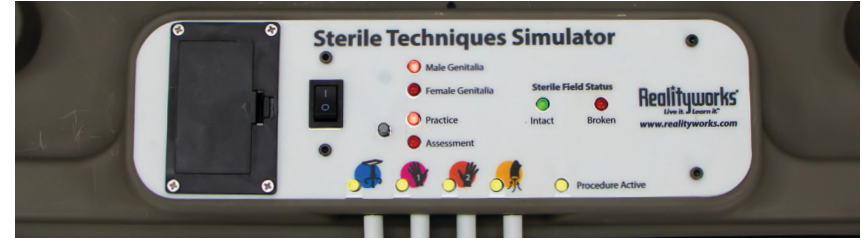


## Patient Board Light Information:

When all cords are plugged in correctly and the board is turned on, you should see all **GREEN** lights for the cords that are plugged in.



## Chest Patient Board:



## Tracheostomy Or Central Line Dressing:

Pick the procedure you want to train on. The **RED** light indicates which procedure you are practicing; the procedure you are not practicing will not light up.

## Practice Or Assessment:

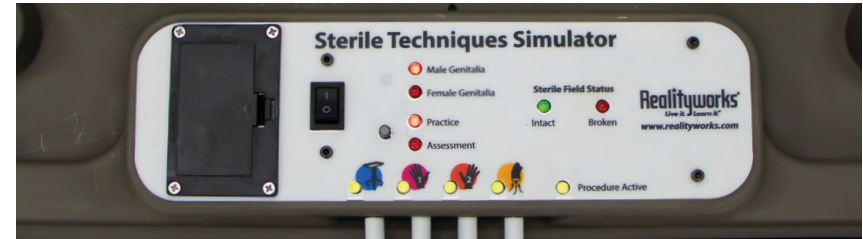
Pick the mode you want to train with. Practice tells you in real time if you have broken sterility. Assessment tells you at the end of the procedure if you broke sterility.

# STERILE TECHNIQUES SIMULATOR

1. Toggle to select your procedure and mode by pushing the small gray buttons. Make the procedure 'Active' by pressing either of the Simulation buttons, large silver buttons located on either side of the lower aspect of the board.
2. Practice Mode: When in Practice Mode, the Sterile Field Status will light up as Intact (**GREEN**) or Broken (**RED**). When you start the procedure, it will begin with the Sterile Field Status Intact and show **GREEN**. If you touch something outside the Sterile Field, Sterile Field will be broken and the status will show **RED**.
3. Assessment Mode: When in Assessment Mode, the Sterile Field Status will **NOT LIGHT UP AT ALL** – until a user pushes the Simulation button for a second time after the procedure is complete. The lights will not help the user know if sterility has been broken or is intact until the full procedure is completed. Remember, you will need to push the Simulation button to start the simulation and again to end the simulation. When you push the Simulation button a second time, the Sterile Field Status will light up as Intact (**GREEN**) or Broken (**RED**).



## Pelvis Patient Board:



## Male Genitalia Or Female Genitalia:

The **RED** light indicates which type of genitalia you have plugged in; the genitalia you are not using will not light up.

## Practice Or Assessment:

Pick the mode you want to train with. Practice tells you in real time if you have broken sterility. Assessment tells you at the end of the procedure if you broke sterility.

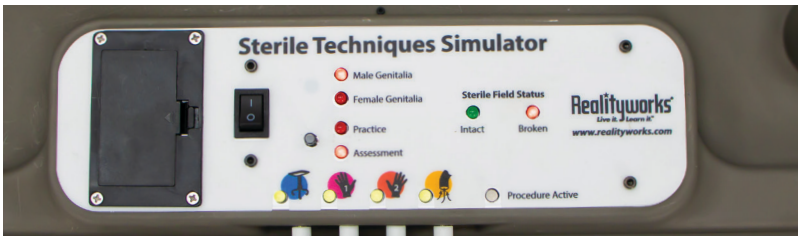
**NOTE:** For the Pelvis Patient Board, when you have connected the Male or Female Genitalia, the board will automatically recognize what genitalia you are using and the light will correspond with the correct genitalia. However, if you switch genitalia while the board is on, you will need to turn the board off and back on again for the software to recognize the change in genitalia.

# STERILE TECHNIQUES SIMULATOR

1. Select your mode by pushing the small gray button. Make the procedure 'Active' by pressing either of the Simulation buttons, large silver buttons located on either side of the lower aspect of the board.
2. Practice Mode: When in Practice Mode, the Sterile Field Status will light up as Intact (**GREEN**) or Broken (**RED**). When you start the procedure, it will begin with the Sterile Field Status Intact and show **GREEN**. If you touch something outside the Sterile Field, the Sterile Field will be broken and the status will show **RED**.



3. Assessment Mode: When in Assessment Mode, the Sterile Field Status will **NOT LIGHT UP AT ALL** until a user pushes the Simulation button for a second time after the procedure is completed. Remember, you will need to push the Simulation button to start the simulation and again to end the simulation. When you push the Simulation button a second time, the Sterile Field Status will light up as Intact (**GREEN**) or Broken (**RED**).



## Starting a procedure:

1. Make sure all cords are connected to the Patient Board and put all needed sterile equipment into the Sterile Equipment Tray.
2. Put on the Sterile Gloves and ensure they are plugged into the board. The SMART Sterile Gloves included with the product are necessary to communicate with the technology in the Patient Boards.  
**NOTE:** If you would like to do more sterile glove training, you can first put on medical gloves and put the Sterile Gloves over the medical gloves to enhance the learning experience.
3. Put all equipment in the Sterile Equipment Tray and place the tray near the Patient Board. Ensure your tray is plugged into the correct Patient Board.

### Chest Patient Board:

- Central Line Swab
- Central Line Dressing
- Suction Catheter and Suction Tube (connected to each other and cable connected to the board)



### Pelvis Patient Board:

- 3 Swab Sticks
- Catheter and Collecting Bag (connect the cable to the board)



# STERILE TECHNIQUES SIMULATOR

4. Press the Simulation button to begin.

**PRACTICE:** Check to make sure the Sterile Field Status is Intact (**GREEN**).

**ASSESSMENT:** The Sterile Field Status will not show Intact or Broken. Perform the procedure and press the Simulation button again. Once you press the button a second time, the Sterile Field Status will show Intact (**GREEN**) or Broken (**RED**).



5. Complete the Simulation Procedure:

## Tracheostomy:

Insert the Tracheostomy Suction Catheter into the neck Trach port. To avoid breaking sterility, only touch the inner Trach tube.

At the start of the procedure, touch inside the circle of the Sterile Water/Saline Solution.

Insert the suction catheter until you hear the patent cough. Remove the catheter and touch inside the Sterile Water/Saline Solution again to continue suctioning. Repeat as many times as needed for training.



## Central Line:

Using the SMART Central Line Swab and a central line bandage, you can practice sterile technique during central line cleaning.

Clean the central line area starting from the closest to the central line already placed to farther away from the line. For this simulation, the sensors are looking for 90% coverage of the swab to complete the cleaning.

The first hand to touch the swab and place to the central line area is your cleaning hand. Take the swab from the Sterile Equipment Tray and move it around the sensor plate until the lights on the board turn from **GREEN** to **ORANGE**.

**NOTE:** The procedure will break sterility if the non-swab hand touches any surfaces except the inside of the Sterile Equipment Tray or if the swab touches anything outside the central line area.

After you have completed the cleaning, apply a central line dressing/bandage to the central line. This dressing should be in the Sterile Equipment Tray and should be removed and applied correctly to the central line area.

# STERILE TECHNIQUES SIMULATOR

## Catherization:

Male and Female catherization are identical other than the placement of the swab sticks for cleaning.

Clean the genitalia using the 3 SMART Swabs. Clean one area, discard the swab, take the second swab, and clean a new area. Repeat with the third swab.

For each catherization procedure, once the catheter is placed correctly, you will see the cord lights change from a **GREEN** to **ORANGE**, showing you have placed the catheter correctly.

**NOTE:** The catheter will break sterility on all surfaces except for the inside of the Sterile Equipment Tray and the dominant hand used to insert the catheter. The non-dominant hand should/can stay in contact with the genitals throughout the procedure. Failure to keep in place will result in a sterility break.

## Product Usage:

### LOW BATTERY

- If the Procedure Active Lights start to blink **ORANGE**, the boards batteries must be replaced soon.

### Cleaning Instructions:

- Patient Boards: Use canned air to remove debris from the Patient Boards. **No liquids should ever come in contact with the Patient Boards.**
- Sterile Equipment Tray: Ensure the tray is disconnected from the Patient Board and wipe it down with a damp cloth. **Do not pour water on the tray.**
- Gloves: Disconnect the gloves from their cords and machine wash.
- Genitalia: Spot clean with a damp cloth.
- Other accessories: Clean with disinfecting wipes.

**ALL items must be completely dry before using.**



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