

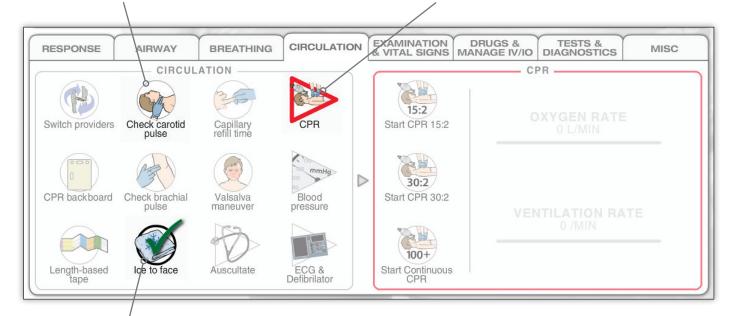
## **PALS Actions Overview > Legend**

#### **Action buttons (round buttons)**

Clicking a round button initiates an action. Clicking this button, for example, checks the child's carotid pulse.

#### Menu buttons (triangular buttons)

A triangular menu button doesn't perform an action in itself, but opens a menu to the right of the button where related actions are available. The red outline around this button indicates that this menu is active.



#### **Active action button**

The green check mark indicates that the given action is active—in this case ice has been placed on the child's face.

To stop an active action simply click it again.

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## Response

#### Tap and shout

Checks for response by tapping and shouting to determine the level of consciousness.

#### Look for breathing

Determines if the child is breathing by observing chest movement.

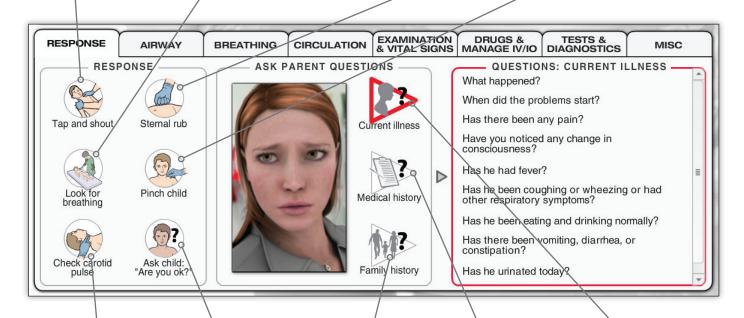
#### Sternal rub

Applies a painful stimulus by performing a sternal rub.

Not available for infant

#### Pinch infant/ child

Applies a painful stimulus by pinching the child.



#### **Check carotid pulse**

Performs a pulse check at the carotid artery.

#### **Menu: Family history**

Asks the parent questions in regard to family history.

## Menu: Medical history

**Menu: Current illness** 

Asks the parent questions

in regard to current illness.

Asks the parent questions in regard to medical history.

#### Ask child: "Are you OK?"

Asks if the child is OK. Not available for infant

## **Airway**

#### Head tilt-chin lift

Performs a head tilt chin lift. This relieves airway obstruction caused by the tongue blocking the airway.

#### **Suction**

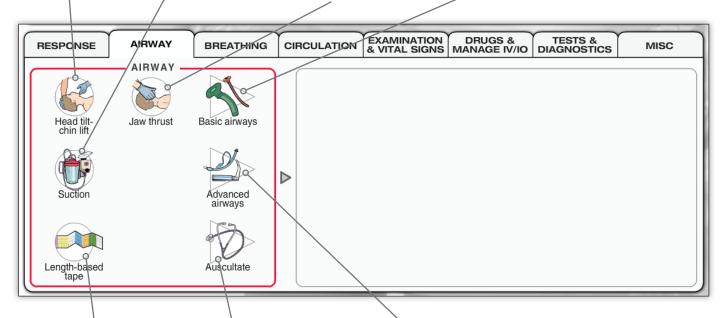
Performs suction of the upper airway and airway adjuncts to remove secretions.

#### **Jaw thrust**

Performs a jaw thrust. This relieves airway obstruction caused by the tongue blocking the airway.

#### Menu: Basic airways

Presents options for basic airway adjuncts.



#### **Length-based tape**

Uses a color-coded length-based resuscitation tape to determine correct drug dosages, equipment size, and defibrillation doses.

#### **Menu: Auscultate**

Presents options for auscultation.

#### Menu: Advanced airways

Presents options for advanced airway adjuncts.

## Airway > Basic airways

#### Menu: Basic airways

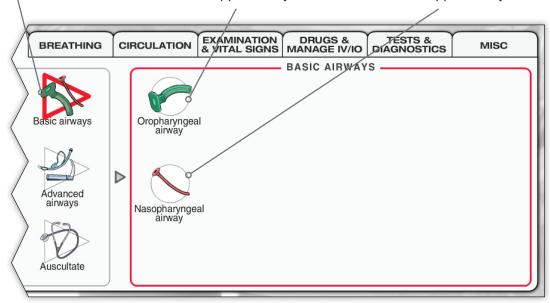
Presents options for basic airway adjuncts.

#### Oropharyngeal airway

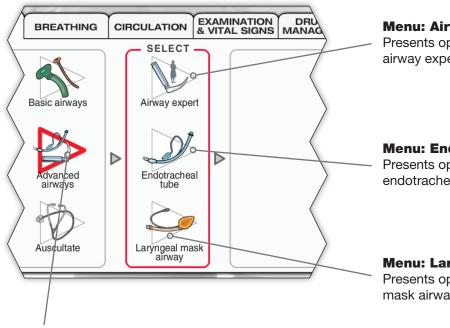
Inserts an oropharyngeal airway to improve patency of the upper airway.

#### Nasopharyngeal airway

Inserts a nasopharyngeal airway to improve patency of the upper airway.



## Airway > Advanced airways



#### **Menu: Advanced airways**

Presents options for advanced airway adjuncts.

#### **Menu: Airway expert**

Presents options for the airway expert.

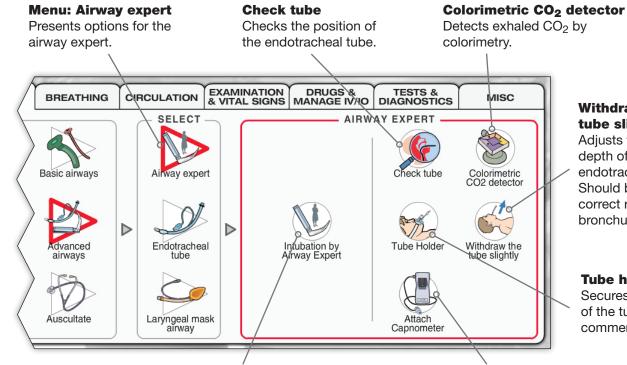
#### **Menu: Endotracheal tube**

Presents options for the endotracheal tube.

#### Menu: Laryngeal mask airway

Presents options for the laryngeal mask airway.

## Airway > Advanced airways > Airway expert



#### **Intubation by Airway Expert**

Airway expert intubates the child. Students will have to confirm and secure the device themselves.

#### **Attach capnometer**

Attaches a dynamic CO<sub>2</sub> detector/capnograph.

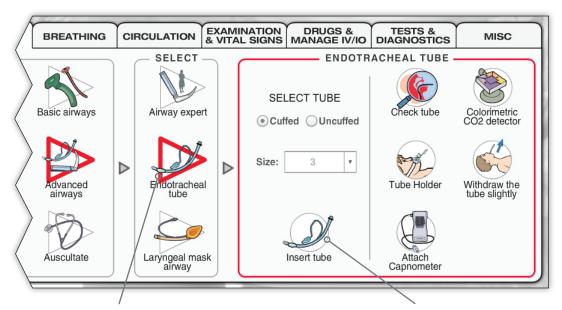
## Withdraw the tube slightly

Adjusts the insertion depth of the endotracheal tube. Should be used to correct right main bronchus intubation.

#### **Tube holder**

Secures the placement of the tube with a commercial tube holder.

## Airway > Advanced airways > Endotracheal tube



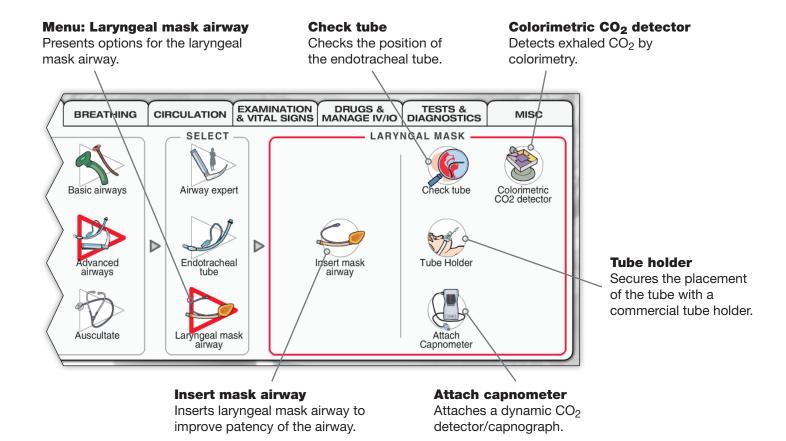
#### Menu: Endotracheal tube

Presents options for the endotracheal tube.

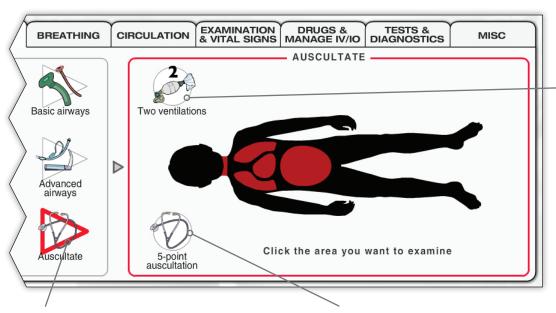
#### Insert tube

Inserts endotracheal tube to improve patency of the airway. The user will have to select the correct size and whether to use a cuffed or uncuffed device.

## Airway > Advanced airways > Laryngeal mask airway



## Airway > Auscultate



# **Menu: Auscultate** Presents options for auscultation.

#### 5-point auscultation

Listens to abdomen and both upper and lower lung zones to confirm proper airway device placement.

**Two ventilations**Gives 2 ventilations with a self-inflating

bag.

## **Breathing**

#### **Look for breathing**

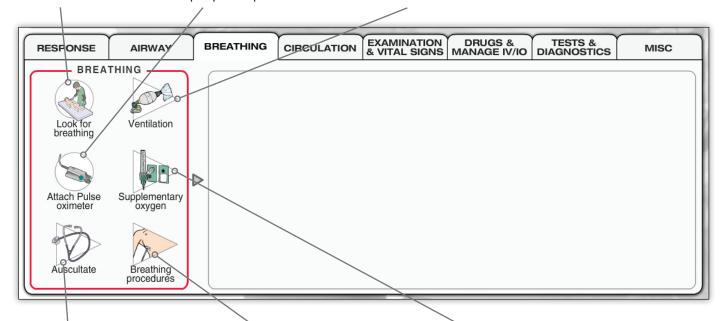
Determines if the child is breathing by observing chest movement.

#### Attach pulse oximeter

Measures the oxygen saturation of the peripheral arterial blood and the peripheral pulse rate.

#### **Menu: Ventilation**

Presents options for ventilation.



#### **Menu: Auscultate**

Presents options for auscultation.

See page 6.

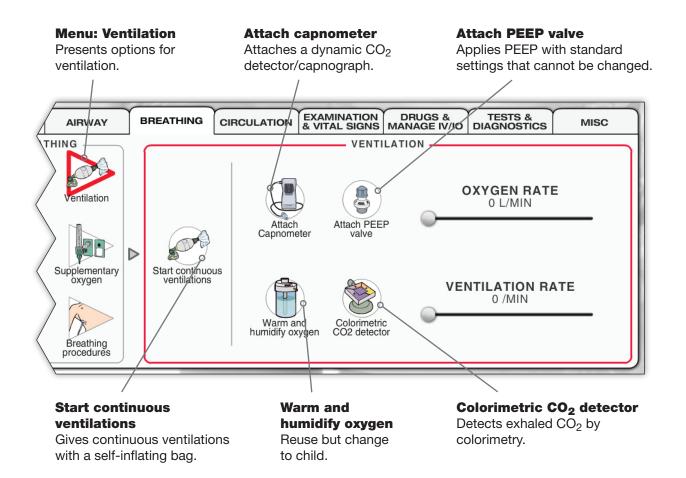
# Menu: Breathing procedures

Presents options for treating pneumothorax.

## Menu: Supplementary oxygen

Presents options for different oxygen supplements.

## Breathing > Ventilation



## **Breathing > Supplementary oxygen**

#### **Menu: Supplementary** oxygen

Presents options for different oxygen supplements.

#### Attach nasal cannula

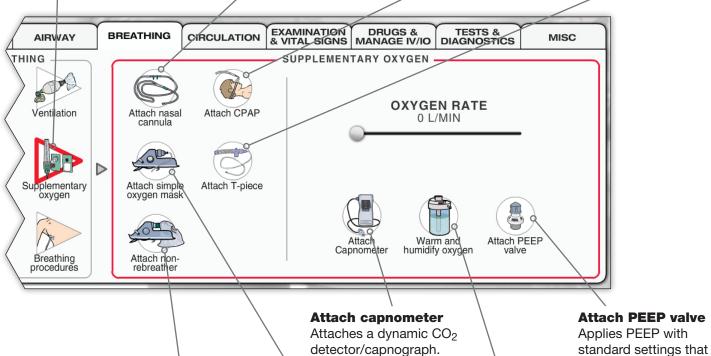
Places a nasal cannula on the child, allowing for increased oxygen supply.

#### Attach CPAP

Places a CPAP mask on the child with standard settings that cannot be changed.

#### **Attach T-piece**

Places a T-piece on the endotracheal tube, allowing for spontaneous breathing and oxygen supply.



#### Attach nonrebreather

Places a nonrebreathing mask on the child, allowing for increased oxygen supply.

## detector/capnograph.

Attach simple oxygen mask Places a simple oxygen

mask on the child, allowing for increased oxygen supply.

#### cannot be changed. Warm and

humidify oxygen Reuse but change to child.

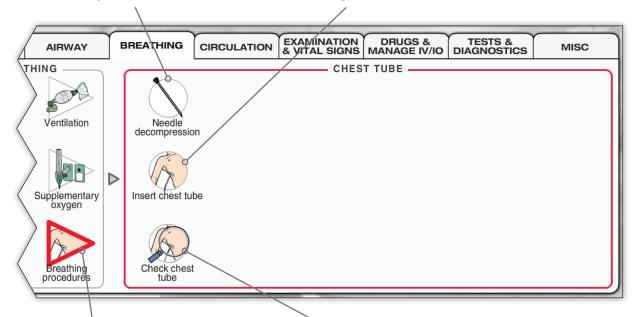
## Breathing > Breathing procedures

#### **Needle decompression**

Performs needle decompression on the right side.

#### Insert chest tube

Inserts a chest tube on the right side.



#### **Menu: Breathing procedures**

Presents options for treating pneumothorax.

#### **Check chest tube**

Checks if the chest tube is functioning correctly.

### **Circulation**

#### **Switch providers**

Causes the rescuers to switch positions to prevent rescuer fatigue and maintain an adequate compression rate and depth.

#### **CPR** backboard

Places a rigid backboard to improve the quality of chest compressions.

## Check carotid pulse

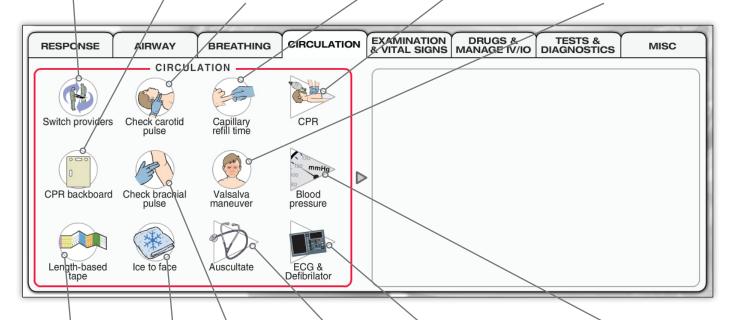
Performs a pulse check at the carotid artery.

#### Menu: CPR

Presents options for CPR.

#### Valsalva maneuver

The child performs the Valsalva maneuver to increase vagal tone. *Not available for infant.* 



**Capillary refill time** 

Checks the capillary

refill time of the child.

#### **Length-based tape**

Uses a color-coded length-based resuscitation tape to determine correct drug dosages, equipment size, and defibrillation doses.

## Check brachial pulse

Performs a pulse check at the brachial artery.

## Menu: Auscultate

Presents options for auscultation.

See page 6.

#### Ice to face

Covers the child's forehead and eyes without obstructing the airway to elicit a vagal response that might terminate a supraventricular tachycardia.

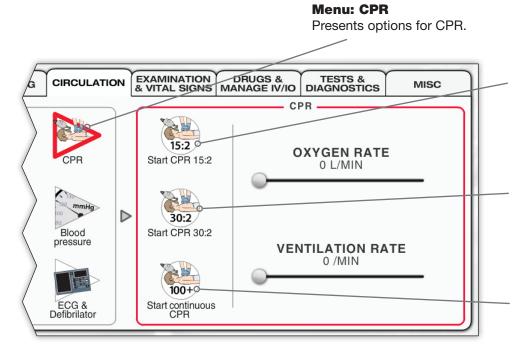
#### **Menu: Blood pressure**

Presents options for measuring the blood pressure of the child.

#### Menu: ECG & defibrillator

Presents options for various electrophysiologic interventions and cardiac monitoring options.

### Circulation > CPR



#### Start CPR 15:2

Performs CPR with cycles of 15 chest compressions and 2 ventilations. (Press button again to stop compressions.)

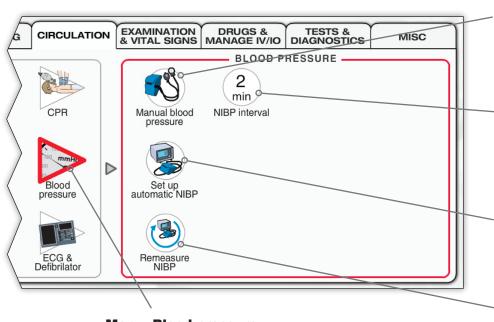
#### Start CPR 30:2

Performs CPR with cycles of 30 chest compressions and 2 ventilations. (Press button again to stop compressions.)

#### **Start continuous CPR**

Performs chest compressions at 100 compressions per minute continuously without pauses for ventilation. Meanwhile, the student should set the ventilation and oxygen rates delivered by the other provider (preferably 8 to 10 breaths per minute with high-flow oxygen).

## **Circulation > Blood pressure**



#### Menu: Blood pressure

Presents options for measuring the blood pressure of the child.

#### **Manual blood pressure**

Measures the blood pressure of the child manually.

#### **NIBP** interval

Sets the time interval for repeated automatic NIBP measurement.

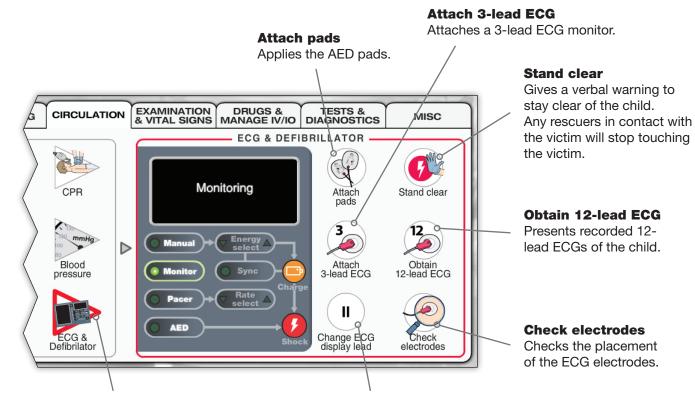
#### Set up automatic NIBP

Initiates automatic noninvasive blood pressure (NIBP) measurement.

#### **Remeasure NIBP**

Triggers remeasurement of the NIBP.

## **Circulation > ECG & defibrillator**



#### Menu: ECG & defibrillator

Presents options for various electrophysiologic interventions and cardiac monitoring options.

#### Change ECG display lead

Changes the ECG lead displayed on the monitor.

## **Examination & Vital Signs**

#### **Examine ears**

Examines the ears with an otoscopic procedure. Might reveal relevant information about possible etiology of an infection.

#### **Check skin**

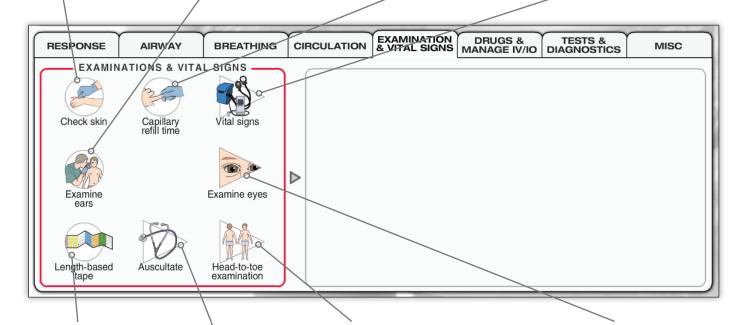
Checks the condition of the child by inspecting clinical signs of the skin.

## Capillary refill time

Checks the capillary refill time of the child.

#### Menu: Vital signs

Presents options for checking the vital signs in one place.



#### **Length-based tape**

Uses a color-coded lengthbased resuscitation tape to determine correct drug dosages, equipment size, and defibrillation doses.

#### **Menu: Head-to-toe examination**

Allows for full-body clinical examination, including findings from inspection and palpation of the different regions of the body.

#### Menu: Examine eyes

Presents options for examining the eyes of the child.

#### **Menu: Auscultate**

Presents options for auscultation.

See page 6.

## **Examination & Vital Signs > Vital signs**

#### Look for breathing

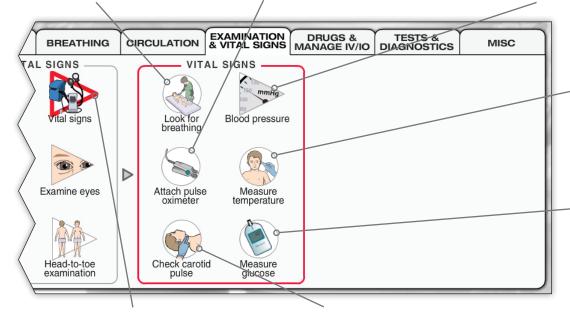
Determines if the child is breathing by observing chest movement.

#### Attach pulse oximeter

Measures the oxygen saturation of the peripheral arterial blood and the peripheral pulse rate.

#### **Menu: Blood pressure**

Presents options for measuring the blood pressure of the child.



#### Measure temperature

Measures the temperature of the child.

#### **Measure glucose**

Checks the capillary glucose level.

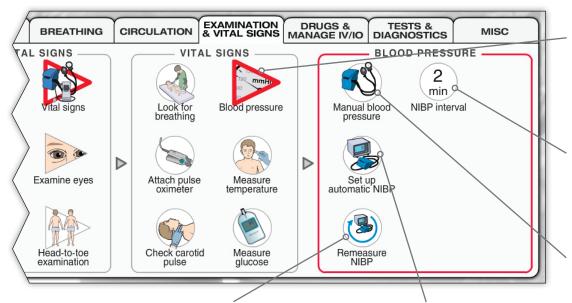
#### Menu: Vital signs

Presents options for checking the vital signs in one place.

#### **Check carotid pulse**

Performs a pulse check at the carotid artery.

## Examination & Vital Signs > Vital signs > Blood pressure



## NIBP interval

Sets the time interval for repeated automatic NIBP measurement.

**Menu: Blood pressure** 

Presents options for

measuring the blood

pressure of the child.

#### **Manual blood pressure**

Measures the blood pressure of the child manually.

#### **Remeasure NIBP**

Triggers remeasurement of the NIBP.

#### Set up automatic NIBP

Initiates automatic noninvasive blood pressure (NIBP) measurement.

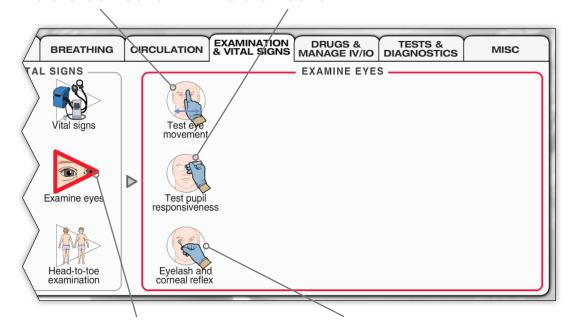
## Examination & Vital Signs > Examine eyes

#### **Test eye movement**

Checks the eye movements of the child.

#### **Test pupil responsiveness**

Checks the pupillary light reflex of the child.



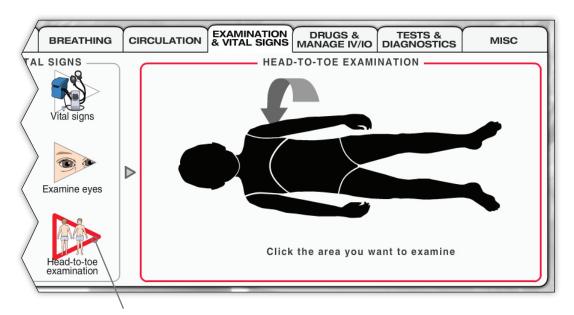
#### **Menu: Examine eyes**

Presents options for examining the eyes of the child.

#### **Eyelash and corneal reflex**

Checks the ciliary and/or corneal reflex of the child.

## Examination & Vital Signs > Head-to-toe examination



#### **Menu: Head-to-toe examination**

Allows for full-body clinical examination, including findings from inspection and palpation of the different regions of the body.

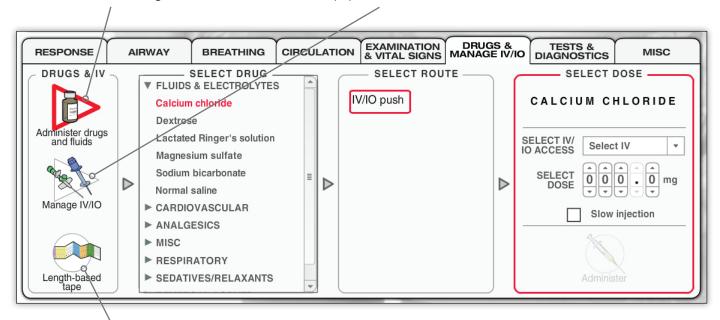
## Drugs & Manage IV/IO

#### Menu: Administer drugs and fluids

Presents the various drugs and fluids available for treating the child.

#### Menu: Manage IV/IO

Presents options for placing intravenous (IV) and/or intraosseous (IO) cannulas at different sites.



#### **Length-based tape**

Uses a color-coded length-based resuscitation tape to determine correct drug dosages, equipment size, and defibrillation doses.

## **Tests & Diagnostics**

#### **Arterial blood gases**

**View lab results**Allows the student to study the results of the blood tests ordered.

Performs an arterial blood gas test. The results are returned in the medical record after a short while. Not available for infant

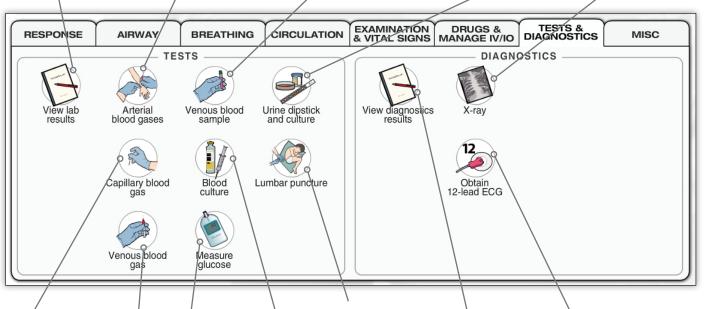
#### **Venous blood sample**

Collects venous blood samples. The results are returned in the medical record after a short while.

## Urine dipstick and culture

Performs a urine dipstick test, reports the immediate findings, and sends the sample for culturing.

**X-ray**Performs on-site chest x-ray.



#### **Capillary blood gas**

Performs a capillary blood gas test. The results are returned in the medical record after a short while.

### Measure glucose

Checks the capillary glucose level.

#### **Lumbar puncture**

Performs a lumbar puncture, reports the immediate findings, and sends the sample for culturing.

#### Obtain 12-lead ECG

Presents recorded 12-lead ECGs of the child.

#### Venous blood gas

Performs a venous blood gas test. The results are returned in the medical record after a short while.

#### **Blood culture**

Obtains a blood culture. Results are not returned during the simulation.

## View diagnostics results

Presents results of the diagnostics performed during simulation.

### Misc

#### **Blanket**

Places a blanket on the child.

#### **Supine**

Places the child in a supine position.

#### Ice to face

Covers the child's forehead and eyes without obstructing the airway to elicit a vagal response that might terminate a supraventricular tachycardia.

#### **Measure temperature**

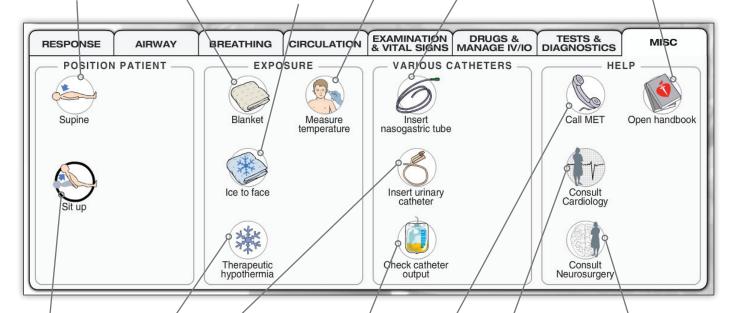
Measures the temperature of the child.

#### **Open Handbook**

Pauses the simulation and shows the 2010 Handbook of Emergency Cardiovascular Care for Healthcare Providers.

## Insert nasogastric tube

Inserts a nasogastric tube.



#### Sit up

Places the child in a sitting position.

#### **Therapeutic** hypothermia

Begins preparation for post-cardiac arrest therapeutic hypothermia.

#### **Insert urinary** catheter

Places a urinary catheter in the bladder of the child.

#### **Check catheter output**

Checks the urinary output from the child.

#### **Call MET**

Activates the medical emergency team. This gives the learner the option to emphasize the need to call for help; however, there will be no response to this action during the simulation.

#### **Consult Cardiology**

Calls for cardiologic consultation. This gives the learner the option to emphasize the need to consult relevant expertise; however, there will be no response to this action during the simulation.

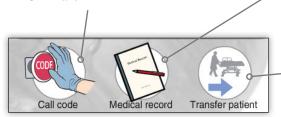
#### **Consult Neurology**

Calls for neurologic consultation. This gives the learner the option to emphasize the need to consult relevant expertise; however, there will be no response to this action during the simulation.

### **Other Actions**

#### Call code

Activates the emergency response system, resulting in emergence of 2 additional rescuers to assist with CPR later.

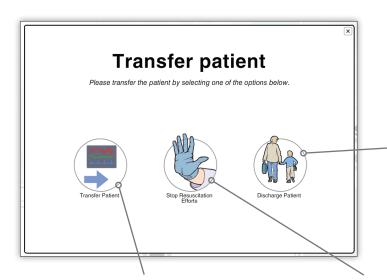


#### **Medical record**

Opens the medical record to review the child's history, clinical signs, and lab findings obtained during the case.

#### **Transfer patient**

Ends the scenario by transferring the child. Presents options for ending the simulation.



#### **Discharge patient**

Ends the scenario by discharging the child from the hospital.

#### **Transfer patient**

Ends the scenario by transferring the child. Presents options for ending the simulation.

#### **Stop resuscitation efforts**

Ends the scenario by aborting all interventions and withholding further treatment.