

Resusci Anne Simulator

User Guide



The Resusci Anne Simulator is a realistic manikin designed to meet the learning objectives of basic healthcare and intermediate life support. The simulator supports training for CPR, defibrillation, vital sign recognition and supraglottic airway management procedures.



Note

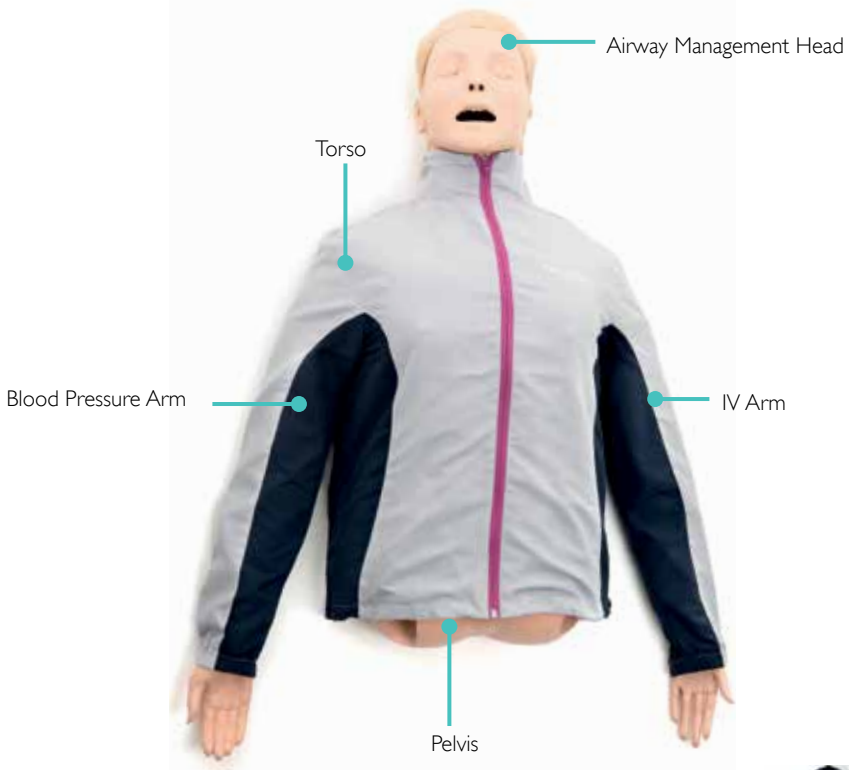
Photos/illustrations may vary from product.

Contents

1	Items included	4
2	Get started	6
3	Features	10
4	Use	16
5	Maintenance	15
6	Cleaning	20

See Important Product Information pamphlet for more information or visit www.laerdal.com

1 Items Included



Simulated Blood



Lubricant



Manual Defibrillation Plates



3 Eye Sets (normal, constricted, dilated pupils)



Air Pump



Blood Pressure (BP) Cuff



SimPad (Link Box with lithium-ion battery installed in manikin).
SimPad Wrist Strap and Sleeve



Reservoir bag

Items Included



Extrication
Rescue Legs



Pants



Full body
soft pack



Microphone Headset and
2nd Microphone



2 x AC Adapters



USB Cable



LAN Cable



Microphone
Extension
Cable

2 Get Started

Charge battery



Charge battery using AC adapter included.

Attach legs

Detach lower chest skin and fold back.

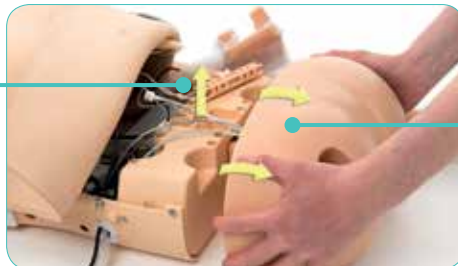


Remove stomach foam.

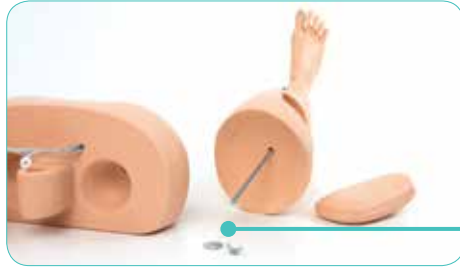


Twist to disconnect tubing between pelvis and torso.

Remove bolt connector.

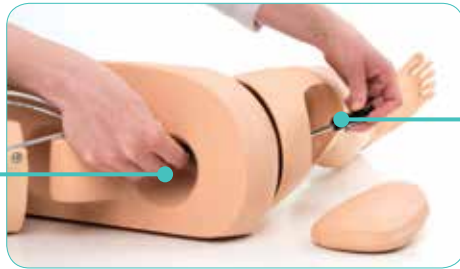


Disengage pelvis from torso.
Do not disrupt connection wires between pelvis and torso.



Remove wing nut and washer from bolt inserted in leg. Spring assembly remains in leg.

Remove Thigh Pad and insert bolt through hole in pelvis. Slide washer and wing nut back over bolt.



Use screwdriver to secure screw while driving bolt into wing nut.

Reattach pelvis, with legs, to torso.



Replace bolt connector to secure.

Reconnect tubing between pelvis and torso and place in groove.



Slide loose wires/tubes down into pelvis.

To remove legs, reverse procedure.

Get Started

Connect blood pressure cuff to arm

Place blood pressure cuff on arm.



Connect clear tubing on cuff to blood pressure connector on BP tubing. Insert connector and twist to click into place.

Connect external microphone



If using external microphone, plug microphone into jack on side of Link Box. Pink extension cable provided.

Fill air container

Attach air pump hose to fill valve located on right side of torso.

Air container is located inside pelvis.



Use manual pump provided (or external compressor). Do not to exceed 10 bar (145 psi).

Detach air pump from fill valve.



Note

If spontaneous breathing is activated and no chest rise is observed, ensure there is enough air in the air container. Refill as necessary.

Prepare IV Arm

Attach IV bag to IV tubing.
Select a vein and attach IV tubing to IV bag.



Allow fluid to flow through arm and out of other vein. Clamp off flow (with a knot or clamp) of fluid from open vein.

Connect SimPad to simulator

Refer to SimPad User Guide for instructions.

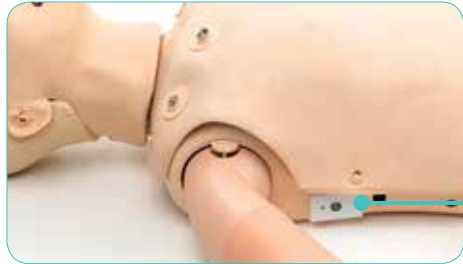
Connect PC to simulator (optional for SimPad Patient Monitor)



To use PC software, connect Ethernet cable between simulator and a computer.

3 Features

On/Off



On/Off button



Note

The Simulator will make a coughing sound when it is fully turned on.

Head tilt/Chin lift



Jaw thrust



Breathing

Spontaneous breathing is controlled by the SimPad.

Chest compressions



Manikin will detect correct hand position.



Note
Spontaneous breathing must be deactivated while performing CPR.

Defibrillation



Defibrillation connectors and ECG connectors can be used with AEDs or manual defibrillators.



Note
Defibrillation must be performed on defibrillation connectors only. Observe safety precautions for use of defibrillators.



Caution

- Do not provide more than $2 \times 360\text{J}$ discharges per minute on average to prevent overheating.
- Manikin chest must be kept dry. Ensure manikin remains dry when using IV arm.
- To prevent chest pitting, do not apply conductive gel or conductive defibrillation pads intended for patient use.

Features

Ventilation



Airway management tools can be used.

Airway obstruction

Airway obstruction can be activated by the SimPad.



Note

- If the simulator is turned off while closure valve is closed, valve remains closed. Closure valve will open automatically when simulator is turned on.
- Do not use simulated vomit for suctioning.

Lung

The simulator is equipped with one disposable unilateral lung.

Stomach



To deflate stomach, press gently.

Heart and lung sounds



Heart and lung sounds are controlled by the SimPad.

Blood pressure



Right arm can be used for blood pressure training.

IV arm

Use left arm for IV training.



Note

If training session involves administration of fluids and/or drugs, empty arm immediately following session.

Pupils



Use different pupils to simulate various patient conditions.

Features

Cricoid cartilage



Cricoid cartilage can be detected.

Carotid pulses



Carotid pulses synchronize to ECG.



Note

Do not use excessive force when palpating the carotid pulse as this will result in no pulse felt.

Voice



Speaker in head emits prerecorded or live sounds. Refer to SimPad User Guide for instructions.

To run simulations

Refer to SimPad User Guide for information on how to control the simulator during sessions.

Pupil replacement

Pull back hair:

Detach the top of face skin and ears and fold back until eyes are exposed.



Detach eye from head. To insert new eye, place in hole and press into place.



Reattach face and hair by reversing procedure.

4 Use

Preparing for IO Simulation

Attach the Tibial IO bag to the Tibial tube.
Close the pinch clamp.



Detach leg skin.



Remove the Tibial IO Unit from the leg.



Remove the tube from the Tibial IO Unit.



Fill the Unit with 30 - 35ml of blood mixture.



Connect the tube to the Unit.



Replace the Unit into the leg cavity.



Replace leg skin.
Unpinch clamp.



Replacing the Tibial IO Pad

Attach the Tibial IO bag to the Tibial tube and close the pinch clamp.



Detach leg skin.



Remove the Tibial IO Unit from the leg.



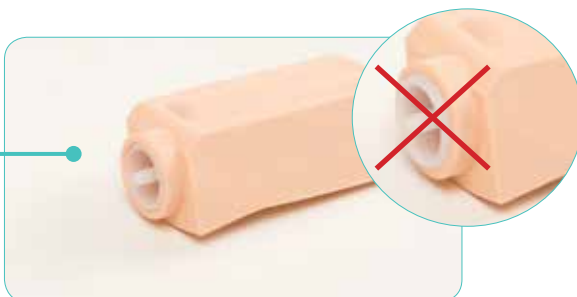
Remove the tube from the Tibial IO Unit.



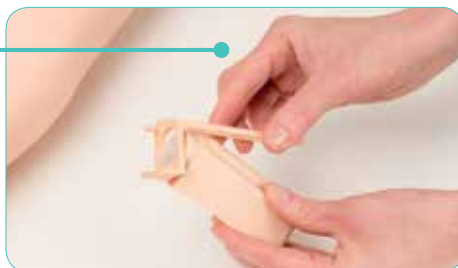
Remove the Tibial IO Pad from the Chassis.



Ensure nipple is retracted in the new pad



Fit the new the Pad into the Chassis.



Secure by pressing the rear of the Pad until the unit locks in place.

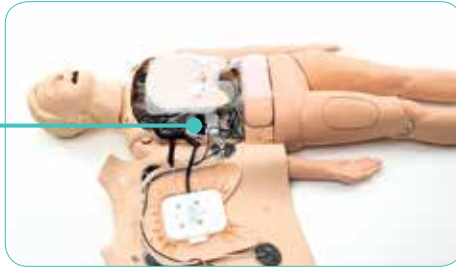


Then replace the Unit into the Leg.

5 Maintenance

Change battery

Only use Laerdal lithium-ion battery.



Release strap securing battery to Link Box.

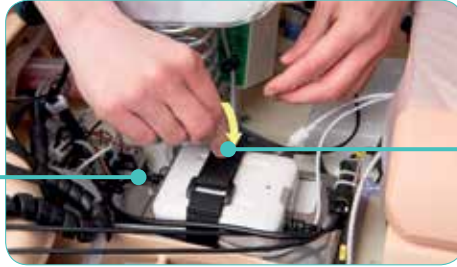


Remove battery.

Detach battery connector from Link Box.



Replace battery.
Plug in battery
connector.



Secure battery
with strap.

Ventilation

- Lubricate airway with two or three sprays prior to starting your training session.
- Lubricate airway management tools liberally prior to starting intubations. Consider whether additional lubrication is needed later in the session.
- Use only lubrication provided. Do not use silicon or other lubricant, as this may damage manikin.



Note

Head contains electrical components. Due to inability to sanitize airway, mouth-to-mouth/mouth-to-mask ventilation should not be performed.

BP arm assembly and disassembly

For transportation using hard case you must disassemble BP arm.

Press grooves to
release arm and
expose cable.



Detach cable.
Remove arm.



To reassemble, reverse procedure. Ensure grooves on bolt fit properly into hole on torso.
Reattach chest skin.

Lung replacement

Detach chest skin to expose lung.



Detach tubing from blue airway closure valve located under lung plate.



Reattach tubing to airway closure valve and attach new lung.

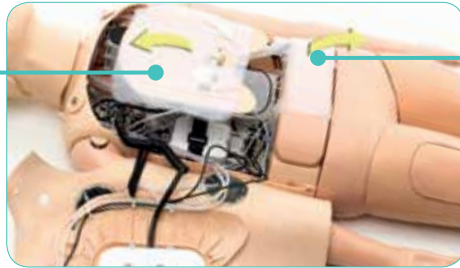


Press gently to secure lung plate.



Stomach replacement

Detach chest skin and lift lung plate to locate and easily access stomach tubing.



Lift stomach piece.

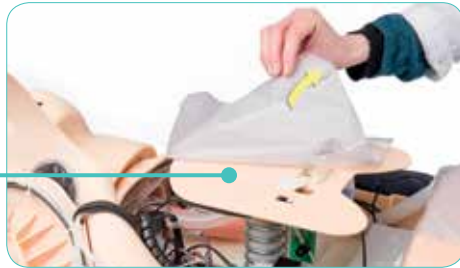


Detach stomach bladder and tubing from stomach valve. Attach new stomach bladder.

Replace stomach piece. Reattach chest skin.

Breathing bladder replacement

Detach chest skin and locate breathing bladder under lung.



Detach breathing bladder and replace with new bladder.



Reattach lung to lung plate. Reattach chest skin.

6 Cleaning

Preventive maintenance is the best method to ensure optimal operation. General inspection should be conducted at regular intervals.

Periodically wash all skin parts that are not regularly sanitized using warm water and soap or manikin wipes.

Most stains can be removed with warm water and soap or Laerdal manikin wipes. Before use, test cleaning agents on a non-critical area (e.g. under the chest cover).



Note

Pigments from lipstick and pens may be impossible to remove. Avoid using coloured plastic gloves when handling the manikin, as they may cause discolouration.

© 2014 Laerdal Medical AS. All rights reserved.
Manufacturer: Laerdal Medical AS
PO. Box 377, Tanke Svilandsgate 30, 4002 Stavanger, Norway
T: (+47) 51 51 17 00

20-06313 Rev B

www.laerdal.com



Laerdal
helping save lives