

Mechanical chest compressions during CPR (see over for LUCAS instructions)

For an arrest in hours in Worthing, if Cardiology accept a patient for rescue PCI, ask them to bring **Autopulse** to the patient. Otherwise, **LUCAS** is available in Worthing and St Richards EDs.

Consider mechanical chest compressions for:

- 1) Patient transfer**
- 2) Massive Pulmonary Embolism** if the patient is thrombolysed CPR may continue for over an hour (see massive PE prompt card)
- 3) Hypothermic cardiac arrest** - where rewarming may take several hours
- 4) Other predictably prolonged resuscitations**
- 5) Resuscitation during the pandemic** - to reduce the number of staff exposed to aerosol generating procedures

Notes

- **Do not place the LUCAS suction cup over the defibrillation pad or sensor.** Detach the sensor and place it away from the centre of the chest.
- Routine use of mechanical CPR devices in hospital is not currently recommended and is not a substitute for effective manual CPR.
- Cardiac arrest caused by hypothermia is not the same as hypothermia caused by cardiac arrest.

LUCAS is intended for use as an adjunct to manual CPR when effective manual CPR is not possible (e.g., during patient transport or extended CPR when fatigue may prohibit the delivery of effective/consistent compressions to the victim, or when insufficient EMS personnel are available to provide effective CPR). Refer to the Instructions For Use for complete directions for use, indications, contraindications, warnings, precautions and potential adverse events.



ON/OFF



ADJUST

MANUAL POSITIONING OF THE SUCTION CUP



ADJUST



PAUSE



ACTIVE

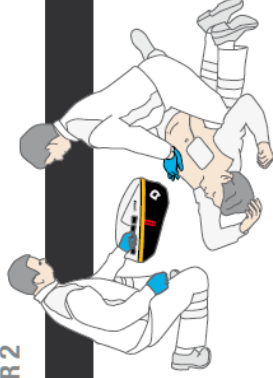
RESCUER 1 (LUCAS Operator)

RESCUER 2

1. POWER ON LUCAS.



- Push **ON/OFF** to start self-test and power up the LUCAS device
- The device will be ready and in the **ADJUST** mode



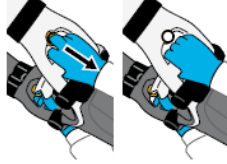
2. PLACE THE LUCAS BACK PLATE.



- Pause manual CPR briefly
- Put the **BACK PLATE** under the patient, immediately below the armpits



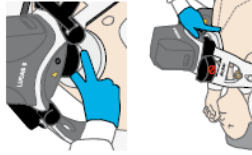
3. ATTACH THE UPPER PART.



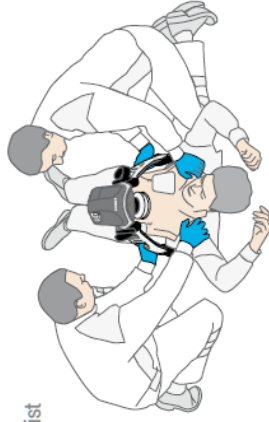
- Pull the **RELEASE RINGS** once to open **CLAW LOCKS**. Then let go of the rings
- Stop manual CPR briefly while attaching the **UPPER PART** to the **BACK PLATE**. Listen for "CLICK" sound
- Pull up once to ensure attachment



4. PUSH DOWN SUCTION CUP. ADJUST POSITION IF NEEDED.



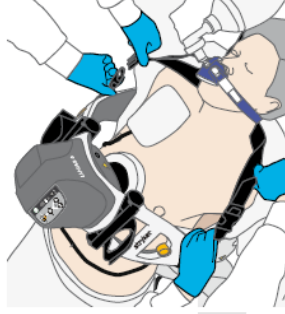
- Push down the **SUCTION CUP**
- The lower edge of **SUCTION CUP** should be immediately above the end of the sternum
- Adjust if necessary (stay in **ADJUST** mode)



5. LOCK POSITION. START COMPRESSIONS.



- Push **PAUSE** to lock **START POSITION**
- Push **ACTIVE** (continuous) or **ACTIVE (30:2)** to start compressions



... ATTACH STABILIZATION STRAP. FOLLOW CPR PROTOCOLS.