

Autopulse

Procedure

Douglas County KS EMS System

March 2022

Approved Provider: EMR, EMT, AEMT, Paramedic

Reference Protocols: [CAPE](#)

Indications

- The AutoPulse is a consistent and effective delivery method for chest compression in the pulseless adult patient.
- The AutoPulse is intended for adults, 18 years of age or older.

Precautions

- The AutoPulse is NOT intended for patients with a traumatic injury (wounds resulting from physical injury or violence)
- The AutoPulse must be used only in cases that manual CPR would normally be initiated.
- Failure to properly position the LifeBand at the patient's armpit line may cause injury to the patient.
- If a system error occurs, immediately revert to manual CPR.
- Do not use the AutoPulse in the presence of an oxygen rich atmosphere (>25%), flammable anesthetics, or other flammable agents.

Technique (Fig. 1)

- The AutoPulse is intended for use in adult patients that meet the following parameters:

Patient Parameter	AutoPulse Specification
• Chest Circumference	• 29.9 to 51.2 in.
• Patient Chest Width	• 9.8 to 15 in.
• Max Patient Weight	• 300 lbs (136 kg)

- Remove all clothing from torso to ensure skin-to-platform contact
- Align armpits onto the yellow line on the platform (fig.1)
- Power up the AutoPulse
- Close chest bands ensuring they are at a 90° angle to the platform and not twisted.
- Press CONTINUE (green button). Do NOT touch the patient or the LifeBand during this phase.
- Press START (green button) to begin compressions.
- To pause or stop operation press STOP (orange button)

Troubleshooting

For Fault/User Advisory:

- Lift up and fully extend both chest bands
- Check both lateral and vertical patient placement
- Verify that chest bands are not twisted, are at 90° to the platform and are free of obstructions
- Press RESTART (green button)
- If you cannot rectify the problem, immediately open the chest bands and revert to manual CPR.

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Documentation

Include the following (minimum)

- Indications
- Complications
- Clinical outcome

Notes

- When CPR is indicated, it should start immediately and should not be postponed.
- Do not place or position the patient on the AutoPulse platform in either a facedown orientation or on their side.
- Do not touch the patient while the AutoPulse is analyzing the patient's size.
- If you must move or realign the patient, you must press the Stop/Cancel button before the adjustment
- Operating the AutoPulse on a patient for extended periods of time may result in minor skin irritation to the patient.
- Check the patient's chest rise while ventilating during active operation.

Tips, Battery life and maintenance:

- Rotate batteries daily, remember you have a 2% draw/day when inside of the platform
 - Battery in platform goes in the charger
 - Battery in the charger is used as the spare
 - Spare battery goes inside platform
 - Power the platform on until you see the "align patient message"
 - Ensure there is NO red light or user advisory
 - Power off
- 4 back, back, back-to-back audible tones when 3 – 6 minutes of run is left
- When is the right time to change battery???? *HYPERFOCUSED on blood flow.....pulse check, rhythm check are good times. Turn off machine to change out battery, **Continue compressions manually.***
- Assign roles
 - Provider who changes battery
 - Provider who operates buttons
 - Provider lifts LifeBand to home position – this accomplishes 2 things... you can resume manual chest compressions if it is taking to long to change battery or make a defibrillation decision and eliminates an error code when the device is powered back on after the battery change

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Fig. 1



Ensuring proper alignment will prevent most CPR stoppage