

Synchronized Cardioversion

Effective: 03/01/2022

Supersedes:
N/A

Approved Provider: Paramedic

Reference Protocols: [Dysrhythmia](#)

Indications

- Unstable Tachydysrhythmia as defined below and in dysrhythmia protocol
 - Severe Decreased LOC. GCS Less than 8
 - Hypotension
 - Cardiogenic shock due to dysrhythmia
 - Last step in treatment algorithm as indicated by dysrhythmia protocol

Precautions

- Cardioversion is not the initial step in treatment unless above indications are met
- Appropriate BLS and ALS maneuvers, as mandated by protocol, should be carried out first unless above indications are met.

Contraindications

- Pulseless Patients
- Apneic Patients

Procedure (Fig. 1)

- Connect ECG electrodes to patient in standard positions (synchronization will not occur without ECG monitor in place)
- Clean and dry chest. Remove excess hair if necessary to obtain optimal electrode to skin contact.
- Connect fast patches to matching cable
- Apply fast patches to patient's chest as described below:
 - Anterior-Posterior ***preferred*** (Fig. 1)
 - Apply one electrode left anterior chest halfway between the xiphoid process and left nipple, with the upper edge of the electrode below the nipple line.
 - Place the other electrode on left posterior chest beneath the scapula and lateral to the spine
 - Anterior-Anterior *only used when anterior- posterior is not able to be completed*
 - Place the positive patch (with the heart on it) on the left side of the chest, midaxillary over the fourth intercostal space.
 - Place the negative electrode on the right chest, sub clavicular area.
- Push the "SYNCH" button.
 - Insure that each QRS complex is being sensed. Sensing marks will appear on screen and on print out.
- Set appropriate energy setting.
 - **Narrow/Regular:** 50J - 100J - 150J
 - **Narrow/Irregular:** 120J – 150J – 200J
 - **Wide/ Regular:** 120J – 150J – 200J
 - **Wide/ Irregular:** *Defib* 120J – 150J – 200J

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Procedure (cont.)

- Ensure nobody is touching the patient.
- Push and hold the "SHOCK" button. Hold until the energy is delivered.
- Repeat as necessary and monitor patient for improvement or deterioration.

Documentation

- Indications for procedure.
- Energy required for conversion.
- Response to intervention.

Notes

- Fast patches may be placed on the stable tachycardic patient but should not be used unless the patient deteriorates.

Fig. 1 ADULT ANTERIOR/POSTERIOR

