

CARDIAC EMERGENCIES

C-3 Adult Cardiac Arrest (Shockable) Rhythm

Begin CPR using the current ECC guidelines

- Administer oxygen;
- Attach monitor.

Ventricular Fibrillation/Ventricular Tachycardia.

Shock

Biphasic: Manufacturer recommendation: if unknown, use maximum available. Second and subsequent doses should be equivalent.
Monophasic: 360 J.

CPR for 2 minutes

- IV/IO access.

Shockable Rhythm?

Treat patient using the C-4 protocol.

Shock
Base information above.

CPR for 2 minutes

- Epinephrine 1mg IV/IO every 3-5 minutes;
- Consider advanced airway.

Shockable Rhythm?

Shock
Base information above.

CPR for 2 minutes

- Treat reversible causes;
- Lidocaine 100 mg IV push, repeat 50 mg every 5 – 10 minutes with a maximum dosage of 200 mg.

Shockable Rhythm?

This protocol generally mirrors the 2010 American Heart Association Guideline for CPR and ECC. Changes have been made to reflect the current Solano County Paramedic scope of practice.

Solano County Approved Specific Treatment for Reversible Cause of Cardiac Arrest

- Hypovolemia – Consider an additional 500 ml Normal Saline IV Bolus;
- Hypo/Hyperkalemia – If patient has a history of Renal Failure, administer Calcium Chloride 1gm IV after thoroughly flushing IV line administer Sodium Bicarbonate 50 mEq IV;
- Hypothermia – treat possible hypothermia by warming measure;
- Tension pneumothorax – consider needle thoracostomy;
- Toxins – possible tricyclic antidepressants overdose, administer Sodium Bicarbonate 50 mEq IV, 1 time only.

Consider field pronouncement if no Return of Spontaneous Circulation (ROSC) after 20 minutes.

For ROSC complete a 12 Lead EKG and transport to the closest STEMI Receiving Center.

Solano County Paramedics may initiate patient transport at any time should patient condition warrant during the use of this protocol or may follow Policy 6155 at the appropriate time during the resuscitation.

After endotracheal intubation monitor ET CO₂ if possible

Reversible Causes:

- Hypovolemia;
- Hypoxia;
- Hydrogen ion (acidosis);
- Hypo/Hyperkalemia;
- Tension Pneumothorax;
- Tamponade;
- Toxins;
- Thrombosis, pulmonary;
- Thrombosis, coronary.

Disrupted Communications

In the event of a “disrupted communications” situation, the paramedic in Solano County may utilize all portions of this treatment protocol needed to stabilize an immediate patient without Base Hospital Contact.