4I - SPECIFIC CAUSES OF CARDIAC ARREST ADULT & PEDIATRIC

TREATMENT PRIORITIES:

1. Circulatory support
   - Apply ResQCPR® within 2 minutes
   - Chest compression rate 80/min ResQCPR®
   - Chest compression rate 110/min
   - Appropriate compression depth & full recoil
   - Limit pauses in compressions
   - Timely defibrillation (if indicated)
   - Utilize Res-Q-Pod®
   - If hyperkalemia, calcium chloride first medication

2. Oxygenation/Ventilation support
   - Avoid hyperventilation in rate & volume
   - Use waveform capnography (if equipped)
     **Mandatory use if patient intubated

EMERGENCY MEDICAL DISPATCHER

EMERGENCY MEDICAL RESPONDER

EMT

EMT-INTERMEDIATE 85

ADVANCED EMT

PARAMEDIC

EMR / EMT

FIND POSSIBLE CAUSES OF CARDIOPULMONARY ARREST & TREAT WHERE APPROPRIATE:

HYPOXIA – OXYGENATION/VENTILATION WITH 100% O2
HYPOKALEMIA – RAPID TRANSPORT
PRE-EXISTING ACIDOSIS – OXYGENATION/VENTILATION WITH 100% O2
PRE-EXISTING HYPOTHERMIA (PROLONGED COLD EXPOSURE) – REWARM PATIENT
CARDIAC TAMPONADE – RAPID TRANSPORT
THROMBOSIS (AMI OR PE) – RAPID TRANSPORT
TRAUMA – SEE APPROPRIATE TRAUMA PROTOCOLS
TOXINS/DRUG OVERDOSE – SUSPECTED NARCOTIC/OPIATE
ADULT: NALOXONE 2 mg IN, MAY REPEAT ONCE
PEDIATRIC: NALOXONE 0.5 mg IN, MAY REPEAT ONCE

EMT-I85 / AEMT

FIND POSSIBLE CAUSES OF CARDIOPULMONARY ARREST & TREAT WHERE APPROPRIATE:

HYPOVOLEMIA
ADULT: 1 LITER NS IV/IO BOLUS IF NO SIGNS OF PULMONARY EDEMA
PEDIATRIC: 20 mL/kg NS IV/IO BOLUS IF NO SIGNS OF PULMONARY EDEMA
HYPOGLYCEMIA (GLUCOSE <50 mg/dL) - **ADULT & PEDIATRIC**
D10 5 mL/kg IVPB WIDE OPEN UP TO 250 mL OR
D25 2 mL/kg IV/IO UP TO 100 mL (must be ≥ 1 year of age) OR
D50 1 mL/kg IV/IO UP TO 50 mL (must be ≥ 25 kg)
CARDIAC TAMPONADE
ADULT: 500 mL NS IV/IO BOLUS IF NO SIGNS OFPULMONARY EDEMA
PEDIATRIC: 10 mL/kg NS IV/IO BOLUS IF NO SIGNS OF PULMONARY EDEMA

ADVANCED EMT OR HIGHER LICENSE:
TOXINS/DRUG OVERDOSE – SUSPECTED NARCOTIC/OPIATE
ADULT: NALOXONE 2 mg IVP/IOP, MAY REPEAT ONCE
PEDIATRIC: NALOXONE 0.5 mg IVP/IOP, MAY REPEAT ONCE

PARAMEDIC

FIND POSSIBLE CAUSES OF CARDIOPULMONARY ARREST & TREAT WHERE APPROPRIATE:

HYPERKALEMIA – CALCIUM CHLORIDE 10 mg/kg IVP/IOP (MAX 1 gram) & SODIUM BICARBONATE 1 mEq/kg IVP/IOP (MAX 50 mEq)
TOXINS/DRUG OVERDOSE – SUSPECTED TRICYCLIC ANTIDEPRESSANT - SODIUM BICARBONATE 1 mEq/kg IVP/IOP (MAX 50 mEq)
TOXINS/DRUG OVERDOSE – SUSPECTED BETA BLOCKERS
ADULT: GLUCAGON 1 mg IVP/IOP
PEDIATRIC: GLUCAGON 0.5 mg IVP/IOP
TOXINS/DRUG OVERDOSE – SUSPECTED CALCIUM CHANNEL BLOCKERS - CALCIUM CHLORIDE 10 mg/kg IVP/IOP (MAX 1 gram)
TENSION PNEUMOTHORAX – NEEDLE THORACOSTOMY (CHEST DECOMPRESSION)