



EMS System for Metropolitan Oklahoma City and Tulsa 2021 Medical Control Board Treatment Protocols



Approved 9/9/20, Effective 1/15/21, replaces all prior versions

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 OF PULMONARY 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/IO, MAY REPEAT ONCE
PEDIATRIC: NALOXONE 0.5 mg IVP/IO, MAY REPEAT ONCE

PARAMEDIC

FIND POSSIBLE CAUSES OF CARDIOPULMONARY ARREST & TREAT WHERE APPROPRIATE:

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