



EMS System for Metropolitan Oklahoma City and Tulsa 2020 Medical Control Board Treatment Protocols



Approved 9/11/19, Effective 1/15/20, replaces all prior versions

8E – SNAKEBITES – PIT VIPERS (RATTLESNAKES, COPPERHEADS, & MOCASSINS) (CROTALINAE ENVENOMATION) ADULT & PEDIATRIC

EMERGENCY MEDICAL
DISPATCHER

EMERGENCY MEDICAL
RESPONDER

EMT

EMT-INTERMEDIATE 85

ADVANCED EMT

PARAMEDIC

TREATMENT PRIORITIES

1. Vital signs
2. Epinephrine for anaphylaxis
**** First two epi doses are standing order. Any additional epi dose requires OLMC consult.**
3. OK Poison Center consult
4. Appropriate destination per OK Poison Center consult

EMD

ADVISE TO AVOID PHYSICAL EXERTION
OR ENVIRONMENTAL STRESS (TEMP EXTREMES).
MOVE AWAY FROM SNAKE(S) IF ABLE
OPEN AIRWAY IF NOT ALERT AND INEFFECTIVE BREATHING

EMR

EMT

GENERAL SUPPORTIVE CARE – MARK EDGE OF SWELLING/TENDERNESS EVERY 15 MINS TO DETERMINE SYMPTOM PROGRESSION
OBTAIN VITAL SIGNS & ADMINISTER O₂ VIA NC, NRB, OR BVM AS APPROPRIATE
IMMOBILIZE/ELEVATE AND AVOID JOINT FLEXION IN EXTREMITY BITTEN TO MINIMIZE SWELLING OF EXTREMITY
DO NOT CUT THE BITE SITE OR ATTEMPT TO “EXTRACT THE VENOM” FROM BITE SITE WITH SUCTION/VACUUM DEVICES
CONSULT OKLAHOMA POISON CONTROL CENTER PER PROTOCOL 8C – DESCRIBE SNAKE APPEARANCE/TYPE AS BEST ABLE
APPLY CARDIAC MONITOR (if equipped)

EMT OR HIGHER LICENSE:

FOR ANAPHYLAXIS ONLY (ANAPHYLAXIS FROM SNAKEBITE IS RARE):

ADULT: **EPINEPHRINE 1mg/mL 1:1000 0.5 mg (0.5 mL) IM OR AUTOINJECTOR ANTERIOR/LATERAL THIGH.

PEDIATRIC: **EPINEPHRINE 1mg/mL 1:1000 0.15 mg (0.15 mL) IM OR AUTOINJECTOR ANTERIOR/LATERAL THIGH.

OLMC ORDER ONLY FOR EPINEPHRINE IF PT ≥ 50 YEARS OLD, HEART ILLNESS HISTORY, OR BLOOD PRESSURE > 140/90 mmHg
MEASURE END-TIDAL CO₂ & MONITOR WAVEFORM CAPNOGRAPHY (if equipped, *** Mandatory use if pt intubated)

ADULT: APPLY Bi/CPAP IF INDICATED (if equipped)

PLACE SUPRAGLOTTIC AIRWAY IF INDICATED & ONLY IF BVM VENTILATIONS INEFFECTIVE

EMT- I85

AEMT

ADULT: INTUBATE IF INDICATED
IV ACCESS

ADULT: IV NS TKO IF SYS BP ≥ 100 mmHg WITHOUT HYPOTENSIVE SYMPTOMS

ADULT: IV NS 250 mL BOLUS IF SYS BP <100 mmHg WITH HYPOTENSIVE SYMPTOMS & NO SIGNS OF PULMONARY EDEMA

ADULT: REPEAT UP TO 2 LITERS NS IF SYS BP REMAINS < 100 mmHg WITH HYPOTENSIVE SYMPTOMS & NO SIGNS OF PULMONARY EDEMA

PEDIATRIC: IV NS TKO IF SYS BP ≥ (70 + 2x age in years) mmHg

PEDIATRIC: IV NS 20 mL/kg BOLUS IF SYS BP < (70 + 2x age in years) mmHg & NO SIGNS OF PULMONARY EDEMA

REPEAT UP TO 60 mL/kg IF SYS BP REMAINS < (70 + 2x age in years) mmHg & NO SIGNS OF PULMONARY EDEMA

FOR ANAPHYLAXIS ONLY (ANAPHYLAXIS FROM SNAKEBITE IS RARE):

ADULT: **EPINEPHRINE 1mg/mL 1:1000 0.5 mg (0.5 mL) IM ANTERIOR/LATERAL THIGH

PEDIATRIC: **EPINEPHRINE 1mg/mL 1:1000, 0.01 mg/kg IM NOT TO EXCEED 0.3 mg IM ANTERIOR/LATERAL THIGH

OLMC ORDER ONLY FOR EPINEPHRINE IF PT ≥ 50 YEARS OLD, HEART ILLNESS HISTORY, OR BLOOD PRESSURE > 140/90 mmHg

PARAMEDIC

ANTIEMETIC (IF REQUIRED); **ADULT:** ONDANSETRON 4 mg IVP/ODT. MAY REPEAT ONCE IN 10 MINUTES

PEDIATRIC: ONDANSETRON 0.1 mg/kg IVP TO A MAXIMUM SINGLE DOSE OF 4 mg; IF AGE > 2 years, MAY GIVE ONDANSETRON 4 mg ODT

ANALGESIA (IF REQUIRED); OPIOID/OPIATE USE, ADULT MUST HAVE SYS BP ≥ 100 mmHg; PEDIATRIC MUST HAVE SYS BP ≥ (70 + 2x age in years) mmHg

ADULT: FENTANYL 1 mcg/kg SLOW IVP/IM/IN, MAXIMUM DOSE 100 mcg. MAY REPEAT EVERY 10 MINUTES TO
MAXIMUM CUMULATIVE DOSE OF 3 mcg/kg or 250 mcg WHICHEVER IS LESSER.

OR

ADULT: MORPHINE SULFATE 2 - 4 mg SLOW IVP, MAY REPEAT 2 - 4 mg EVERY 5 MINUTES TO A TOTAL OF 10 mg.

OR

ADULT: HYDROMORPHONE 0.5 - 1 mg SLOW IVP, MAY REPEAT EVERY 10 MINUTES TO MAXIMUM CUMULATIVE DOSE OF 2 mg.

PEDIATRIC: OLMCP ORDER ONLY FOR OPIOID/OPIATE ANALGESIA

SEVERE REACTION/ANAPHYLAXIS SERIOUS DYSPNEA, GI DISTRESS, ANGIOEDEMA, OR SYS BP <100 mmHg ADULT OR < (70 + 2x age in years) mmHg PEDIATRIC

ADULT: **EPINEPHRINE 1mg/mL 1:1000 0.5 mg (0.5 mL) IM ANTERIOR/LATERAL THIGH

PEDIATRIC: **EPINEPHRINE 1mg/mL 1:1000, 0.01 mg/kg IM NOT TO EXCEED 0.3 mg IM ANTERIOR/LATERAL THIGH

IF REFRACTORY ANAPHYLAXIS, ADMINISTER INTRAVASCULAR EPINEPHRINE 1:10,000

ADULT: **EPINEPHRINE 0.1mg/mL 1:10,000 1 mg SLOW IV/IOP (OVER 3 MINUTES)

PEDIATRIC: **EPINEPHRINE 0.1mg/mL 1:10,000, 0.01 mg/kg SLOW IV/IOP (OVER 3 MINUTES) NOT TO EXCEED 0.5 mg

ADULT: MEDICATION ASSISTED INTUBATION IF INDICATED

CONTINUOUS ASSESSMENT & TREATMENT PER APPLICABLE PROTOCOL(S)