



# EMS System for Metropolitan Oklahoma City and Tulsa 2026 Medical Control Board Treatment Protocols

Approved 9/17/25, Effective 1/15/26, replaces all prior versions



EMS SECTION

## Treatment Priorities

1. Vital Signs
2. 5 Ps EXAM
3. Hospital notification of concern regarding circulation compromise
4. Analgesia (if required)

## 10J – COMPARTMENT SYNDROME

### Adult & Pediatric

EMERGENCY MEDICAL DISPATCHER

EMERGENCY MEDICAL RESPONDER

EMT

EMT-INTERMEDIATE 85

ADVANCED EMT

PARAMEDIC

EMD  
DO NOT MOVE THE PATIENT UNLESS IN DANGER  
CONTROL BLEEDING WITH DIRECT PRESSURE  
DO NOT ATTEMPT TO SPLINT INJURIES

EMR

EMT

TRAUMA AND HYPOVOLEMIC SHOCK SUPPORTIVE CARE  
OBTAIN VITAL SIGNS

HISTORY OF TRAUMA IN EXTREMITY IN PAST DAYS OR ACUTELY THAT COULD CAUSE PRESSURE TO BUILD IN DEEP SPACES OF EXTREMITY?  
(MUSCLE OR TISSUE SWELLING? DEEP SPACE BLEEDING?)

#### EVALUATE EXTREMITY FOR “5 Ps” OF COMPARTMENT SYNDROME:

PAIN OUT OF PROPORTION TO ASSESSED INJURY (APPEARS MINOR INJURY, PATIENT IN EXCRUCIATING PAIN)?

PARESTHESIA (NUMBNESS DUE TO NERVE COMPRESSION)?

PRESSURE (SKIN/MUSCLE FEELS TENSE DUE TO INCREASING FORCE WITHIN COMPARTMENT)?

PARALYSIS (LATE SIGN DUE TO NERVE COMPRESSION - DON'T WAIT ON PARALYSIS TO REPORT CONCERN)

PULSELESSNESS IN DISTAL EXTREMITY (LATE SIGN OF COMPARTMENT SYNDROME - DON'T WAIT ON ABSENT PULSE TO REPORT CONCERN)

SUSPECTED COMPARTMENT SYNDROME, POSITION EXTREMITY TO PROMOTE CIRCULATION TO DISTAL EXTREMITY

EMT-I85

AEMT

IV ACCESS

PARAMEDIC

CONTINUOUS ASSESSMENT & TREATMENT PER APPLICABLE PROTOCOL(S)

ANALGESIA (IF REQUIRED)

FOR OPIATE USE, ADULT MUST HAVE SYS BP  $\geq$  100 mmHg; PEDIATRIC MUST HAVE SYS BP  $\geq$  (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:** KETAMINE 0.3 mg/kg UP TO A MAX OF 30 mg in 100 mL NS INFUSED OVER 10 MINUTES.  
KETAMINE 50 mg IN BREATH ACTUATED NEBULIZER (ADD NS TO MAKE TOTAL VOLUME 5 mL), OXYGEN ON 6-8 LPM

**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:** FENTANYL 1 mcg/kg SLOW IVP/IM/IN, MAXIMUM DOSE 50 mcg

OLMCP CONSULT IF FURTHER ANALGESIA REQUIRED