

Fentanyl Citrate

Formulary

Douglas County Kansas EMS System

November 2022

Approved Provider: Paramedic

Referenced Protocols: [Abdominal Pain](#), [Acute Eye Injury](#), [Burns](#), [Chest Pain](#), [Childbirth](#), [Crush Syndrome](#), [Pain/ Anxiety Management](#)

Dosing and Administration	
ADULT Medications: <ul style="list-style-type: none">25-100mcg IV/IO Slow Push, IM/IN (Titrate to effect, may repeat 5-10 min) (<i>Total Max. dose 400mcg</i>)	PEDIATRIC Medications: Refer to HandTevy <ul style="list-style-type: none">1 mcg/kg, up to 100mcg. IV/IO Slow Push, IM/IN (Titrate to effect, may repeat 5-10 min) (<i>Total Max. dose 400mcg</i>)

Pharmacology and Actions:

- Synthetic, potent narcotic analgesic with pharmacologic actions qualitatively similar to those of morphine, but action is more prompt and less prolonged

Indications:

- First line drug when providing analgesia for moderate to severe pain in isolated trauma

Contraindications:

- Patients having taken MAO inhibitors within 14 days
- Myasthenia gravis (Neuromuscular disorder)
- Impending delivery
- Hypersensitivity
- Hypotension (BP>100)

Precautions:

- Head injuries/increased intracranial pressure
- Older adult population, debilitated, poor risk patients
- Cardiac diseases, angina, hypotension or cardiac arrhythmias/brady arrhythmias
- Liver or kidney dysfunction
- Children
- Use with caution in patients who have ingested alcohol or other CNS depressants
- Known substance abuse
- Max dose 200mcg in labor before impending delivery**

Administration:

- IV/IO, IM/IN. Can be paired with Zofran to combat nausea side effect.
- Consider lower dosing regimen in patients > 65 years of age, debilitated, chronically ill, critically ill or when this is used in conjunction w/ other CNS depressants.

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Side Effects:

- **Central Nervous System:** Sedation, euphoria, dizziness, diaphoresis, delirium, convulsions with high doses
- **Cardiovascular:** Hypotension, bradycardia, circulatory depression, cardiac arrest
- **Gastrointestinal:** nausea, vomiting, constipation
- **Respiratory:** laryngospasm, bronchoconstriction, respiratory depression or cardiac arrest