

Initial Date: 07/19/2023 Revised Date:

# Fentanyl

Pharmacological Category: Analgesic, Opioid; General Anesthetic

## Routes: IV/IO/IM/IN

### Indications:

- 1. Pain management
- 2. Patient sedation

#### Contraindications:

- 1. Altered Mental Status
- 2. Hypotension
- 3. Respiratory Depression

### **Expected effects:**

- 1. Decreased pain
- 2. Decreased agitation

### Side effects:

- 1. Drowsiness
- 2. Hypotension
- 3. Respiratory Depression
- 4. Vomiting

## Dosing: CHEST PAIN/ACUTE CORONARY SYNDROME

Indication: Chest pain in which nitroglycerin is contraindicated due to erectile dysfunction medication or suspected cardiac chest pain is refractory to nitroglycerin.

Adults (65 years of age or under) administer:

1. Fentanyl 1 mcg/kg IV/IO/IN, max single dose 100 mcg. May repeat one time.

Total dose may not exceed 200 mcg.

Adults (> 65 years of age or older) administer:

1. Fentanyl 0.5 mcg/kg IV/IO/IN. Max single dose 50 mcg. May repeat three times. Total dose may not exceed 200 mcg.

### **Dosing: PAIN MANAGEMENT**

Indication: Patient is unable to tolerate ketamine or ketamine is not available and the patient has significant pain (described as 7 or greater on the Wong Pain Scale).

Adults 65 years of age or under administer:

1. Fentanyl 1 mcg/kg IV/IO/IN. Max single dose 100 mcg. May repeat one time. Total dose may not exceed 200 mcg.

Adults > 65 years of age administer:



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1. Fentanyl 0.5 mcg/kg IV/IO/IN. Max single dose 50 mcg. May repeat three times. Total dose may not exceed 200 mcg.

Pediatrics administer:

- 1. Fentanyl according to MI MEDIC cards
- 2. If MI MEDIC cards are not available administer: a. Fentanyl 0.1 mg/kg IV/IO/IN

### **Dosing: PATIENT PROCEDURAL SEDATION**

Adults administer:

1. Fentanyl 50-100 mcg (1 mcg/kg) IV/IO titrated slowly (IN, if available). May repeat every 4 minutes to a maximum of 3 mcg/kg.

Pediatrics administer:

1. Fentanyl according to MI MEDIC cards

- 2. If MI MEDIC cards are not available administer:
  - a. Fentanyl 1 mcg/kg IV/IO titrated slowly (IN, if available). May repeat every 5 minutes to a maximum of 3 mcg/kg
  - 5 minutes to a maximum of 3 mcg/kg.

Used in the Following Protocols

Chest Pain/Acute Coronary Syndrome (Section 5 Adult Cardiac) Pain Management (Section 7 Procedures) Patient Procedure Sedation (Section 7 Procedures)