

West Michigan Regional MCC
MEDICATION SECTION
FENTANYL

Initial Date: 7/19/2023

Revised Date: [12/26/10/2025](#)
9-24R

Section:

Fentanyl

Adopting MCAs will have an "X" under their MCA name. If no "X" is present, the MCA has not approved or adopted the protocol.

Allegan	Barry	Clare	Ionia	Isabella	Kent	Mason
					X	
Montcalm	Muskegon	N. Central MI	Newaygo	Oceana	Ottawa	
	X					

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

Notes:

1. Fentanyl is not to be diluted prior to being administered.

MCA Name: WMRMCC ([Muskegon-Kent](#) County MCA)

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MCA Board Approval Date: [06/12/2025](#)[3/26/2025](#)

MCA Implementation Date: [4/1/2025](#)

MDHHS Approval: [1/24/2025](#)

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Section:

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, rounded to the nearest dose, 25, 50, 75, 100 mcg (refer to the dosing table below), max single dose 100 mcg. May repeat one time. Total dose may not exceed 200 mcg.

Age Group	Weight	Fentanyl Dose
Adult > 14 years of age and ≤ 65 years of age	Up to 40 kg (89 lbs)	25 mcg
	41-70 kg (90-155 lbs)	50 mcg
	71-90 kg (156-199 lbs)	75 mcg
	91 kg (200 lbs) and above	100 mcg

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

1. Fentanyl 0.5 mcg/kg IV/IO/IN, rounded to the nearest dose 25, 50 mcg (refer to dosing table below), max single dose 50 mcg, may be repeated three times. Total dose may not exceed 200 mcg.

Age Group	Weight	Fentanyl Dose
Adult > 65 years of age	Up to 65 kg (144 lbs)	25 mcg
	66 kg (145 lbs) and above	50 mcg

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Dosing: PAIN MANAGEMENT

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

Adults (65 years of age or under) administer:

1. Fentanyl 1 mcg/kg IV/IO/IN, rounded to the nearest dose, 25, 50, 75, 100 mcg (refer to the dosing table below), max single dose 100 mcg. May repeat one time. Total dose may not exceed 200 mcg.

Age Group	Weight	Fentanyl Dose
Adult > 14 years of age and ≤ 65 years of age	Up to 40 kg (89 lbs)	25 mcg
	41-70 kg (90-155 lbs)	50 mcg
	71-90 kg (156-199 lbs)	75 mcg
	91 kg (200 lbs) and above	100 mcg

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

1. Fentanyl 0.5 mcg/kg IV/IO/IN, rounded to the nearest dose 25, 50 mcg (refer to dosing table below), max single dose 50 mcg, may be repeated three times. Total dose may not exceed 200 mcg.

Age Group	Weight	Fentanyl Dose
Adult > 65 years of age	Up to 65 kg (144 lbs)	25 mcg
	66 kg (145 lbs) and above	50 mcg

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.

Used in the Following Protocols

Chest Pain/Acute Coronary Syndrome (Section 5 Adult Cardiac)

Pain Management (Section 7 Procedures)

MCA Name: WMRMCC (~~Muskegon~~ Kent County MCA)

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Patient Procedure Sedation (Section 7 Procedures)