



REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

GENERIC NAME

morphine



(IV Infusion, IV Bolus, Intramuscular, Subcutaneous)

Effective Date: Dec 2011

CLASSIFICATION

Opioid analgesic

OTHER NAMES

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Revised Date: Dec 2022

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ADMINISTRATION POLICY: *NOTE: Refer to PCA Monograph for Palliative Care*

IV Infusion – May be administered by a nurse

IV Bolus – May be administered by a nurse

Intramuscular – May be administered by a nurse

Subcutaneous – May be administered by a nurse

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 10 mg/mL – 1 mL ampoule; 50 mg/mL – 5 mL, 10 mL ampoule (pharmacy only),
1 mg/mL 100 mL premixed bag

Intramuscular/Subcutaneous: Administer undiluted

IV Bolus: Dilute dose to 10 mL (i.e.: 9 mL of normal saline and 1 mL morphine 10mg/mL = 1 mg/mL) administer over 3-5 minutes

IV Intermittent: Dilute dose in 50 – 100 mL of normal saline, administer over 15 to 30 minutes

IV Infusion: Pump Library: *Premixed solution preferred when available*

Drug Library	Rate	Short Name	Care Unit
Yes	mg/h	morp100	General & Critical Care
Drug	Diluent	Final Volume (VTBI)	Final Concentration
100 mg premixed bag	100 mL premixed	100 mL	1 mg/mL
Clinical Advisory: High Alert			
Low Dose Limit: 0.5 mg/h		High Dose Limit: 30 mg/h	

Drug Library	Rate	Short Name	Care Unit
Yes	mg/h	morp100	General & Critical Care
Drug	Diluent	Final Volume (VTBI)	Final Concentration
100 mg (10 mL of 10 mg/mL)	100 mL NS (remove 10 mL)	100 mL	1 mg/mL
Clinical Advisory: High Alert			
Low Dose Limit: 0.5 mg/h		High Dose Limit: 30 mg/h	



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DOSAGE:			
IV/Intramuscular/Subcutaneous:			
Acute Pain:	1 to 10 mg/dose every 2 to 4 hours as needed		
ACS:	1 to 5 mg IV every 5 to 10 minutes as needed		
Chronic Pain/Palliative Care:	5 to 20 mg/dose every 2 to 4 hours as needed		
IV/Subcutaneous Infusion:			
Acute Pain Load:	2 to 10 mg/dose		
Acute Pain Continuous Infusion:	0.8 to 10 mg/hour		
Chronic Pain/Palliative Care:	10 to 150 mg/hour		
Maximum Rate:			
IV bolus:	Over 3 minutes		
Maximum concentration:			
As supplied			
STABILITY/COMPATIBILITY:			
Stability of Final Admixture: 24 hours room temperature			
Compatibility: Compatible with D5W, normal saline, combination dextrose/saline solutions			
PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:			
<ul style="list-style-type: none"> • Respiratory depression, shortness of breath • Palpitations, hypotension, bradycardia • Dizziness, confusion • Nausea, vomiting, constipation, paralytic ileus • Histamine release resulting in hypotension and pruritus 			
ADDITIONAL NOTES AND NURSING CONSIDERATIONS:			
<ul style="list-style-type: none"> • Monitor pain relief, respiratory, blood pressure and mental status • Suspect opioid toxicity if there is decreased level of consciousness, progressive slowing of respiratory rate and respiratory rate drops to less than 10 breaths per minute • ANTIDOTE: naloxone 			