

Jackson County Medical Control Authority
MICU Protocols
MICU CHEST PAIN

Date: December 2017

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MICU Chest Pain

Indications: MICU patients with active chest pain or anginal equivalent pain

Administration of Nitroglycerin: Mix nitroglycerin 50 mg in 250ml of normal saline. Begin infusion at 10-20 mcg/min and increase 5-10 mcg, q min, titrating for pain while maintaining systolic BP > 90. Maximum rate of 200 mcg/min.

Dose Ordered (mcg/min)	Amount to infuse in ml/hr	
	50 mg/250 ml 100 mg/500 ml (200 mcg/ml)	100 mg/250 ml 200 mg/500 ml (400 mcg/ml)
10	3	1.5
20	6	3
30	9	5
40	12	6
50	15	8
60	18	9
70	21	10
80	24	12
90	27	14
100	30	15
110	33	17
120	36	18
130	39	19
140	42	21
150	45	23
160	48	24
170	51	26
180	54	27
190	57	29
200	60	30

Contraindications: Hypotension, hypersensitivity

Adverse Effects: Headache, flushing, hypotension, reflex tachycardia, bradycardia

Administration of Morphine: Initial dose 2-6mg IVP. Continue in 2mg increments, q 5 min as needed or until pain is relieved while maintaining systolic BP > 90.

Contraindications: Hypotension, hypersensitivity, suspected head or abdominal injury, non-vented patients with respiratory depression.

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Adverse effects: Respiratory depression, hypotension or bradycardia. **Have naloxone available to reverse effects if necessary.** The hypotensive effects of nitroglycerine are worsened in patients on VIAGRA or similar medications.

MICU Directives:

1. Follow generalized protocol for MICU patients.
2. Maintain vital signs within 5 minutes of administration every 15 minutes when stabilized or pain free.
3. Maintain delivery by IV infusion pump.
4. Continue to reassess patient for symptomatic improvement. Decrease or discontinue NTG if patient develops hypotension.
5. Suggest 325 mg mg of baby aspirin PO as indicated on all MI patients.