



DISCOMFORT / PAIN OF SUSPECTED
CARDIAC ORIGIN

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BLS

ALS

- Ensure patent airway
- O₂ saturation PRN
- Use supplemental O₂ to maintain saturation at 94-98%
- O₂ and/or ventilate PRN
- Minimize patient exertion, including walking, when possible
- If SBP \geq 100 mmHg, may assist patient to self-medicate own prescribed NTG¹ SL (**maximum 3 doses, including those the patient has taken**)
- May assist with placement of 12-lead ECG leads
- May assist patient to self-medicate own prescribed aspirin up to a max dose of 325 mg

- Monitor/ECG
- IV ^A
- Obtain 12-lead ECG
- Repeat 12-lead ECG after arrhythmia conversion or any change in patient condition²
- If STEMI suspected, immediately notify BH, transmit 12-lead ECG to appropriate STEMI receiving center and transport³
- Report LBBB, RBBB or poor-quality ECG
- Aspirin 324 mg chewable PO^{4,5} ^A

If SBP \geq 100 mmHg

- NTG¹ 0.4 mg SL, MR q3-5 min ^A
- Treat pain with opioids per Pain Management Protocol (S-141)

Discomfort/pain of suspected cardiac origin with associated shock

- 250 mL fluid bolus IV/IO with no rales, MR to maintain SBP \geq 90 mmHg ^A

If BP refractory to second fluid bolus

- Push-dose epinephrine 1:100,000 (0.01 mg/mL) 1 mL IV/IO, MR q3 min, titrate to SBP \geq 90 mmHg

Push-dose epinephrine mixing instructions

1. Remove 1 mL normal saline (NS) from the 10 mL NS syringe
2. Add 1 mL of epinephrine 1:10,000 (0.1 mg/mL) to 9 mL NS syringe

The mixture now has 10 mL of epinephrine at 0.01 mg/mL (10 mcg/mL) concentration.

¹ NTG is contraindicated in patients who have taken erectile dysfunction medications such as sildenafil (Viagra®), tadalafil (Cialis®), and vardenafil (Levitra®) within 48 hours; and pulmonary hypertension medications such as sildenafil (Revatio®), and epoprostenol sodium (Flolan®) and (Veletri®)

² Do not delay transport for a repeat 12-lead ECG

³ Immediately transmit 12-lead ECG to receiving hospital for suspected STEMI patients regardless of patient presentation

⁴ Administer aspirin even if discomfort/pain has resolved. If aspirin is not given, document the reason

⁵ Aspirin may be withheld if an equivalent dose has been administered by a healthcare professional