Heart Failure in Adults

Acute Pulmonary Edema

- SBP > 160 and/or HR > 100
  - Consider IV beta-blocker
- SBP 100-160
- SBP < 100

Volume overload?

- Yes
  - Loop diuretic, IV bolus, consider IV infusion
- No
  - Nitroglycerin SL or drip

Symptoms improved?

- Yes
  - Stabilized?
    - Yes
      - Return to main algorithm box #6, "Initiate HF Management"
    - No
      - ED observation or short-stay admission, return to algorithm #6, "Initiate HF Management"
- No
  - Other causes?
    - Yes
      - Other IV therapies having greater risk:
        - Morphine sulfate
        - Milrinone
        - Dobutamine
      - Consider emergent imaging and/or hemodynamic monitoring
    - No
      - No

Symptom relief?

- Yes
  - Back to algorithm box #46, "Stabilized?"
- No
  - Volume overload, refractory to initial therapy?
    - Yes
      - Out of guideline - consultation and/or tertiary center referral
    - No

Other IV therapies having greater risk:
- Morphine sulfate
- Milrinone
- Dobutamine

Consider emergent imaging and/or hemodynamic monitoring

ED observation or short-stay admission?

- Yes
  - No
  
Out of guideline - consultation and/or tertiary center referral

Consider consultation:
- Acute coronary syndrome
- Myocarditis
- Uncontrolled hypertension
- Valvular insufficiency
- Non-cardiac etiologies

Source: http://www.icsi.org Institute for Clinical Systems Improvement March 2010