

Firelands Regional Medical Center School of Nursing  
AMSN 2024  
Unit 6: Heart Failure online assignment (1.5H)

Directions:

- Read Lewis Chapter 38, review ATI Pharmacology Made Easy 4.0: Cardiovascular Module: Drug Therapy for Heart Failure, and review the Unit 6 Pharmacology List.
- Utilizing the resources above, complete the case study. There will be many items for each question.
- Utilizing the Pharmacology List and ATI/Skyscape, complete three ATI Medication Templates from the Pharmacology List.
- This assignment is due in the Unit 6: HF assignment drop box by March 11, 2024 at 0800.
- Be prepared to discuss this assignment in class.
- You must complete the assignment in full to receive the 1.5H theory credit.

Assignment Objectives:

- Determine overall goals in the treatment of heart failure.

**CASE STUDY:**

Frannie Failure, a patient on 4P, calls the nurse and states, "I feel really puffy. My rings feel so tight on my fingers and I am having trouble catching my breath." The patient is lying flat in the bed and is alert and oriented x 3. Normal saline 0.9% @ 125mL/HR is running.

Assessment:

- Vital Signs: T 97.9 oral, HR 120, RR 24, SpO2 86% RA, BP 152/94, pain 0/10.
- Respiratory: Lung sounds- crackles throughout bilaterally, non-productive cough.
- Cardiac: Heart sounds- S3, pedal pulses not palpable, 3+ pitting edema bilateral feet and ankles.
- Skin intact, pale and cool.
- Gastrointestinal: Bowel sounds x4 WNL, BM yesterday morning.
- Intake/Output: Patient has had 900ml in and 200ml out over the last 8 hours.

**1. What additional information would you want/need to know?**

- a. I would assess BNP, health history, daily weights, what meds they are taking, bladder scan

**2. What assessment/ interventions would be appropriate for this patient?**

- a. Diuretics, monitor vs, Raise HOB, monitor I&O, monitor for changes in LOC, assess for edema, monitor O2

**3. What would you anticipate the healthcare provider to order?**

- a. ACE, ARBs, BB, diuretics

- 4. What medications would be appropriate for this patient (include all pertinent from the Pharmacology List) ? Doses? Nursing Interventions? You will pick three of these medications to complete the ATI Medication Templates.**
- a. Captopril – 25mg PO TID, monitor BP, Pulse, and assess for angioedema and fluid overload
  - b. Valsartan – 40mg PO BID, monitor BP, angioedema, and daily weights
  - c. Digoxin – IV,IM 0.5-1mg given as 50% of the dose initially and one quarter of the initial dose in each of 2 subsequent doses at 6-12 hour intervals, monitor apical pulse for a full minute before administering, monitor BP, monitor ECG during IV administration and 6 hour after each dose.
  - d. Dobutamine – IV 2.5-15 mcg/kg/min max dose is 40mcg/kg/min, monitor BP, HR, ECG, CO, and UOP, palpate peripheral pulses, monitor potassium levels.
  - e. Furosemide – 20-80mg PO daily, monitor fluid status, monitor BP and HR, assess for tinnitus and hearing loss
  - f. Hydrochlorothiazide – 12.5-100mg PO 1-2 doses/day, monitor BP, I&O, daily weight, edema, and potassium levels.
  - g. Metoprolol Succinate – 12.5-25mg PO daily , monitor BP, ECG, and HR, I&O, daily weights, monitor VS q5-15 minutes during and several hours after parenteral administration; if pulse is below 40bpm administer atropine.
  - h. Milrinone – IV loading dose of 50mcg/kg followed by continuous infusion at 0.5mcg/kg/min, monitor BP and HR, monitor I&O, daily weights, monitor ECG continuously and electrolytes.
  - i. Spironolactone – 25mg PO daily (Potassium <or equal to 5 and GFR >50, monitor I&O, daily weights, BP,ECG, and development of hyperkalemia.
- 5. What patient education would you include?**
- a. **Following medication regimen**
  - b. **Lowering sodium in diet**
  - c. **Restricting fluid intake**
  - d. **Lifestyle modifications**

