

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?

I would like to know the patient's weight to compare to admission weight, I would ask about her previous medical history, how long she's been experiencing her cough, I would compare all assessment findings to previous ones, age, what medications she is taking.

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

Some interventions would be to raise the HOB, Admin oxygen 2L nasal cannula, Stop fluids, doppler to further assess pulses, assess for any dizziness/lightheadedness, assess LOC, get patient's weight, EKG, Labs (CBC, lipids, kidney function, UA), XRAY.

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

I would anticipate the healthcare provider to order a diuretic, chest x-ray, EKG, fluid restriction, heart healthy low sodium diet, daily weights.

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.

Furosemide- Bolus 0.1 mg/kg followed by 0.1mg/kg/hr double q 2 hrs to a max of 0.4mg/kg/hr, interventions would be to obtain a daily weight, watch intake and output, assess edema, lung sounds, mucous membranes, monitor BP and pulse, monitor electrolytes.

Nesiritide- 2 mcg/kg bolus followed by 0.01 mcg/kg/min continuous, intervention consist of monitoring BP, pulse EKG, resp rate, intake and output, daily weight, assess signs of HF (dyspnea, crackles, edema)

Nitrates (Isosorbide)- 5-20mg 2-3 times daily, interventions include assessing patient for chest pain, location, duration, intensity, precipitating factors, monitor BP and pulse

Morphine Sulfate - 0.05-0.2 mg/kg q3-4hrs max dose 15mg/dose intervention would be to assess pain, assess LOC, BP, pulse, respirations

Milrinone- 50 mcg/kg followed by 0.5 mcg/kg/min, monitor HR, BP, monitor intake and output, monitor EKG, monitor electrolytes

Dopamine- 5-15 mcg/kg/min, monitor BP, HR, pulse pressure, EKG, CO, urine output, assess and palpate pulses.

Lisinopril- 10 mg daily, Monitor BP, pulse, assess for signs of angioedema

Sacubitril/valsartan- Sacubitril 49mg/valsartan 51 mg twice daily initially, double dose in 2-4wks, assess BP (lying, sitting, standing), monitor daily weight, assess for angioedema, monitor renal function.

Carvedilol- 6.25mg twice daily, monitor BP, pulse, assess for orthostatic hypotension, monitor intake and output, daily weight

5. What patient education would you include?

Education consists of diet plan, low sodium, weighing themselves every day, small frequent meals, increased walking and other activities gradually, cardiac rehab program, avoiding extreme hot and cold, teaching signs and symptoms of HF, monitoring swelling, the importance of follow-up appointments, receive vaccinations, plan daily rest, take medication as prescribed.