

ATI Real Life Student Packet  
N202 Advanced Concepts of Nursing  
2025

Student Name: Nicholas Vitella

ATI Scenario: CKD

**To Be Completed Before the Simulation**

\*Blue boxes should be completed using textbook information. What do you expect to find? This information should be collected before you start the ATI simulation\*

Medical Diagnosis: Chronic Kidney Disease

**NCLEX IV (8): Physiological Integrity/Physiological Adaptation**

Anatomy and Physiology

Normal Structures

- kidneys main fx: regulation of volume and composition of extracellular fluid and excretion of waste products.
- additional fx: control BP, make erythropoietin, activate vitamin D, and regulate acid-base balance.
- nephron is the functional unit w/ each kidney containing approximately 1million nephrons
- blood flow to kidneys, around 1200ml/min, accounts for 20-25% of cardiac output
- glomerulus – selective filtration
- proximal tubule – reabsorption of 80% of water, glucose, amino acids, and bicarb
- loop of Henle – concentrates filtrate.
- Reabsorption of Na and Cl in ascending and water in descending limb
- distal tubule: reabsorption of water, regulated by ADH, and bicarb. Regulation of calcium and phosphorus. Regulation of Na and K by aldosterone. Secretion of K, H, and ammonia.
- collecting duct: reabsorption of water (requires ADH)

**NCLEX IV (7): Reduction of Risk**

Pathophysiology of Disease

Chronic Kidney Disease is progressive irreversible loss of kidney function. Risk factors include advanced age, obesity, diabetes, and hypertension. CKD can often be asymptomatic resulting in it being undiagnostic and no treatment. When the kidney function deteriorates all body systems are affected resulting in retained urea, creatinine, phenols, hormones, electrolytes, and water. Uremia is when these symptoms develop in multiple body systems often when the GFR is 15 mL/min or less. In the early stage of CKD patients will have increasing difficulty with fluid retention and need diuretic therapy. As GFR decreases, BUN and Creatinine increase. This can cause nausea, vomiting, lethargy, fatigue, and headaches. Defective carbohydrate metabolism also occurs which can result in moderate hyperglycemia and hyperinsulinemia. Hyperkalemia can occur causing fatal dysrhythmias from the decreased excretion of potassium by the kidneys. Sodium may vary but if dilutional hyponatremia occurs, it can contribute to edema, hypertension, and heart failure. Hypermagnesemia can occur causing dysrhythmias, decreased mental status, hypotension, and respiratory failure. Metabolic acidosis results from the kidneys impaired ability to excrete acid. Anemia can occur from decreased production of erythropoietin by the kidneys. These patients have increased risk for infection and bleeding. Cardiovascular death is the most common cause of death with these patients. The GI system can be affected causing stomatitis, gastroparesis, uremic fever, and so on. Neurological changes are also expected from increased nitrogenous waste products. CKD mineral and bone disorder can occur from progressive deterioration of the kidney function.

**To Be Completed Before the Simulation**

Anticipated Patient Problem: Fluid Volume Excess

Goal 1: A.S. will maintain optimal fluid balance as evidenced by  $\leq 1$  kg in weight gain per day

<b>Relevant Assessments</b>  (Prework) What assessments pertain to your patient's problem? Include timeframes	<b>Multidisciplinary Team Intervention</b>  (Prework) What will you do if your assessment is abnormal?
Weigh Daily	Document and notify provider PRN
Assess for Edema Daily	Elevate edematous extremities above heart level/reposition q 2 hr
Auscultate lung sounds q 4 hr	Reposition to semi-fowlers position q 4 hr
Assess/Record Intake and Output q 4 hr	Implement prescribed fluid restriction PRN
Assess vital signs q 4 hr	Administer diuretics as ordered
Assess laboratory values (Sodium, Potassium, Creatinine, BUN) daily	Notify provider PRN

Goal 2: A.S. will maintain normal BP ( $\leq 140/90$  mmHg) during my care

**To Be Completed Before the Simulation**

Anticipated Patient Problem: Risk for Electrolyte Imbalance

Goal 1: A.S. will maintain serum Potassium WNL (3.5-5.0 mEq/L) during my care

<b>Relevant Assessments</b>  (Prework) What assessments pertain to your patient's problem? Include timeframes	<b>Multidisciplinary Team Intervention</b>  (Prework) What will you do if your assessment is abnormal?
Assess Serum Potassium Level Daily	Notify provider and administer prescribed medication PRN
Monitor ECG Continuously/PRN	Notify provider/rapid response team PRN
Assess Arterial Blood Gas PRN	Administer Sodium Bicarbonate per provider order
Assess Urine Output Hourly	Administer Loop diuretics as ordered
Assess for Dialysis adjustments PRN	Collaborate with nephrology with dialysis settings PRN
Assess Neuromuscular status q 2 hr	Implement fall/safety precautions, assist with mobility q 2 hr

Goal 2: A.S. will exhibit no ECG changes related to hyperkalemia during my care

**To Be Completed During the Simulation:**

**Actual Patient Problem:** Fluid Volume Excess #1

Clinical Reasoning: CKD, edema, hypertension

Goal: A.S. will maintain optimal fluid balance as evidenced by  $\leq 1$  kg in weight gain per day **Met:**  **Unmet:**

Goal: A.S. will maintain normal BP ( $\leq 140/90$  mmHg) during my care **Met:**  **Unmet:**

**Actual Patient Problem:** Risk for Electrolyte Imbalance #2

Clinical Reasoning: CKD, elevated electrolytes

Goal: A.S. will maintain serum Potassium WNL (3.5-5.0 mEq/L) during my care **Met:**  **Unmet:**

Goal: A.S. will exhibit no ECG changes related to hyperkalemia during my care **Met:**  **Unmet:**

Additional Patient Problems: Deficient Knowledge #3, Anxiety #4

Below will be your notes, add more lines as needed. **Relevant Assessments:** Indicate pertinent assessment findings. **Multidisciplinary Team Intervention:** What interventions were done in response to your abnormal assessments? **Reassessment/Evaluation:** What was your patient’s response to the intervention?

<b>Patient Problem</b>	<b>Time</b>	<b>Relevant Assessments</b>	<b>Time</b>	<b>Multidisciplinary Team Intervention</b>	<b>Time</b>	<b>Reassessment/Evaluation</b>
#1 and #2	1830	Fatigue, lethargy “my leg just feels so tired” lower extremity edema, AV fistula present	1850	Raised HOB 24-45 degrees, placed limb alert bracelet, Applied NC at 2L	1850	O2 saturation at 96%
#1 and #2	1830	Potassium 6.0 mEq/L	1910	Applied Cardiac Monitor and IV insertion into Right Forearm 20 G	1910	Peaked T waves present
#3	1910	Difficulty understanding hemodialysis	1910	Educated on hemodialysis with supplemental illustration	1910	“Thank you for explaining it to me” “my blood pressure may decrease during hemodialysis”
#1 and #2	2000	Diagnosis of CKD	2000	Hemodialysis performed	2000	Resting in bed, lethargy
#4	2000	“its all so overwhelming”	2000	Provided attentive listening and therapeutic communication,	2000	“Okay thank you” resting in chair, CM provided transportation

				consulted CM		services
#3	2000	Addressed concerns of peritoneal site	2000	Assessed peritoneal site	2000	Peritoneal site score 2
#3	2000	Poor nutritional intake not adhering to prescribed diet	2000	Educated on diet plan provided by provider	2000	

**To Be Completed After the Simulation**

\*The orange boxes should be filled out with your simulation patient's actual results, assessments, medications, and recommendations\*

**NCLEX IV (7): Reduction of Risk**

Actual Labs/ Diagnostics  
 ECG: NSR/ Sinus Tachy peaked T waves  
 Potassium 6.0 mEq/L  
 Sodium 132 mEq/L  
 BUN 42 mg/dL  
 Creatinine 8.0 mg/dL  
 Glucose 166 mg/dL  
 GFR less than 90mL/min

**NCLEX II (3): Health Promotion and Maintenance**

Signs and Symptoms  
 Hyperkalemia  
 Hypervolemia  
 Scattered Rhonchi/tachypnea  
 Edema  
 Fatigue  
 Lethargy  
 Weakness  
 Weight gain  
 Hyperphosphatemia  
 Hypocalcemia

**NCLEX II (3): Health Promotion and Maintenance**

Contributing Risk Factors  
 Type 2 DM  
 Hypertension

**NCLEX IV (7): Reduction of Risk**

Therapeutic Procedures  
Non-surgical  
 CT  
 Hemodialysis  
  
Surgical

Prevention of Complications  
 (Any complications associated with the client's disease process? If not what are some complications you anticipate)  
 Cardiac Dysrhythmias  
 Bone/Mineral Disorders  
 Electrolyte Disorders

**NCLEX IV (6): Pharmacological and Parenteral Therapies**

Medication Management  
 Sodium Chloride  
 Glipizide  
 Furosemide  
 Losartan  
 Ferric Citrate  
 Linagliptin  
 Docusate Sodium  
 Gentamicin  
 Gabapentin  
 Atorvastatin

**NCLEX IV (5): Basic Care and Comfort**

Non-Pharmacologic Care Measures  
 Supplemental Oxygen (NC)  
 Raise HOB  
 Applying blankets  
 Education  
 Therapeutic Communication  
 Attentive Listening

**NCLEX III (4): Psychosocial/Holistic Care Needs**

Stressors the client experienced?  
 Fear  
 Anger  
 Frustration  
 Confusion

**Client/Family Education**

Document 3 teaching topics specific for this client.  
 • Nutritional education  
 • Dialysis education  
 • Medication/Insurance/Payment navigation

**NCLEX I (1): Safe and Effective Care Environment**

Multidisciplinary Team Involvement  
 (Which other disciplines were involved in caring for this client?)  
 Provider, Case Management, RN, Dietician, Home Health Nurse, Pharmacy

Patient Resources

Outpatient hemodialysis, dietary consult, providers office, transportation services

**Reflection Questions**

Directions: Write reflection including the following:

1. What was your biggest “take away” from participating in the care of this client?

My biggest takeaway was how vital it is to blend professional nursing skills with team-based care in the physiological and emotional needs of a patient. Not only did the interventions to correct the patient's CKD but it was also integrating therapeutic communication, interprofessional collaboration, and providing resources so the patient can be successful with their health outpatient as well. Providing this holistic care really represents patient centered care.

2. What was something that surprised you in the care of this patient?

What surprised me was how quickly the patient's condition could shift through smaller interventions. By raising the head of bed, applying blankets, providing therapeutic communication, education and attentive listening made such an impact in their condition. While this isn't addressing a patient with CKD primary needs, it did make a significant difference in the client's general mood and attitude towards her disease.

3. What is something you would do differently with the care of this client?

What I would do differently with the care of this client is prioritize a more structured approach for this patient's education. While education was provided, it was more reactive than proactive. The patient was anxious, and with the multiple topics of education that needed to be covered, it would have been beneficial to their condition if they were aware before their admission to the hospital.

4. How will this simulation experience impact your nursing practice?

This experience will impact my nursing practice going forward by reinforcing the importance of providing holistic, patient centered care even with patients that are experiencing complex conditions. It demonstrated to me that managing the physical symptoms is only one part of the patient's care. Addressing the emotional and psychosocial needs are just as important and essential for them to achieve their highest level of health. In the future I would want to make sure I better my therapeutic communication skills, being the role of an educator, and communication/patient advocacy with the interdisciplinary team.