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# Acute Renal Failure

Patient name: \_\_\_\_\_

Admission: \_\_\_\_\_

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- I. The client/caregiver has a basic understanding of the anatomy and physiology of the renal system.**
- The kidneys are two bean-shaped organs and are located on each side of the vertebral column at the 12th thoracic vertebrae at the posterior abdominal wall.
  - Each kidney has a ureter about 25 to 30 centimeters long that connects to the bladder.
  - The function of the kidneys is to remove waste materials from blood, balance body fluids, and form urine.
- II. The client/caregiver can define acute renal failure.**
- Acute renal failure is the sudden inability of kidneys to remove metabolic waste and concentrate urine without losing electrolytes.
  - Renal cells are damaged by decreased renal blood flow and a lack of oxygen and other nutrients to the cells.
- III. The client/caregiver can list factors that may increase risk of renal failure.**
- Low blood pressure caused by trauma, surgery, serious illness, septic shock, hemorrhagic shock, burns, or dehydration
  - Acute pyelonephritis or septicemia
  - Urinary tract obstruction
  - Blood transfusion reaction
  - Autoimmune kidney disease
- IV. The client/caregiver can recognize signs and symptoms.**
- Nausea and vomiting
  - Urinary system changes
    - A decrease in the amount of urine
    - No urination
    - Excessive urination at night
  - Changes in mental status or mood
    - Drowsiness or lethargy
    - Agitation

- V. The client/caregiver can list measures to manage acute renal failure.**
- Follow prescribed diet closely.
    - High in carbohydrates
    - Low in protein
    - Low in sodium
    - Low in potassium
  - Monitor fluid status closely.
    - Weigh daily using the same scale at the same time each day.
    - Measure intake and output.
    - Restrict fluids as instructed.
  - Take medication as ordered (possible use of antibiotics and/or diuretic).
  - Avoid infections, or get prompt treatment of infection.
  - Follow activity as ordered with regular rest periods.
  - Provide skin care and oral hygiene:
    1. Keep fingernails short and avoid scratching.
    2. Use lotions to moisturize skin and decrease itchiness.
    3. Use a soft-bristled toothbrush and mouthwash.

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- G. Keep follow-up appointments with physician and laboratory tests.
- H. Use Medic Alert card and bracelet.

**VI. The client/caregiver can list possible complications.**

- A. Fluid and electrolyte imbalance
- B. Chronic renal disease
- C. Anemia (loss of blood in the intestines)
- D. End-stage renal disease
- E. Damage to heart or nervous system
- F. Hypertension
- G. Need for dialysis

**RESOURCES**

National Kidney Foundation  
[www.kidney.org](http://www.kidney.org)

National Kidney and Urologic Diseases Information Clearinghouse  
<http://kidney.niddk.nih.gov/about/index.htm>

Support groups

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