ACTIVE LEARNING TEMPLATE: *Nursing Skill*

STUDENT NAME _____

SKILL NAME_____   REVIEW MODULE CHAPTER_____

Description of Skill

Creatinine (Cr)

Indications

This lab is the specific indicator for kidney function and muscular disorder.

Outcomes/Evaluation

Normal Findings?

Normal Range: 0.6 to 1.3 mg/dL

Abnormal Findings?

Elevated levels of creatinine are above 1.3 mg/dL. Decreased levels of creatinine are below 0.6 mg/dL.

Elevated levels of creatinine indicate underlying kidney disease.

CONSIDERATIONS

Nursing Interventions (pre, intra, post)

Creatinine is a byproduct of creatine metabolism. It is excreted by the kidneys and created in proportion to muscle mass.

Client Education

Normal Range: 0.6 to 1.3 mg/dL

Instruct the client to avoid excessive exercise for 8 hours and excessive red meat intake for 24 hours before the test.

Creatine Clearance, the ability of the kidneys to clear solutes from the plasma, is important and the best approximation of kidney function. Elevated levels of creatinine indicate underlying kidney disease. Chronic kidney disease (CKD) symptoms begin as a result of this.

Potential Complications

Increased value of creatinine can indicate impaired kidney function, renal disease, congestive heart failure (CHF), dehydration, and hyperparathyroidism. Decreased value of creatinine can be due to a loss of muscle mass, inadequate protein intake, pregnancy, and liver disease.

Nursing Interventions

Ensure proper diet by providing essential information to patient.

Explain reasons for fluid and diet restrictions to enhance patient's understanding and compliance.

Monitor creatinine and BUN levels. These levels indicate renal/kidney function.

References:
Hinkle, J.L., & Cheever, K. H. (2022). Brunner & Suddarth's textbook of medical-surgical Nursing (15t:h ed.). Wolters Kluwer Health Lippincott Williams & Wilkins

N321 PowerPoint Presentation - Lab Analysis/Diagnostics

Phelps, L.L. (2020). Sparks and Taylor's Nursing Diagnosis Reference Manual (11th ed.). Wolters Kluwer