Disorders of Potassium and Magnesium Homeostasis
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LEARNING OBJECTIVES

Upon completion of the chapter, the reader will be able to:

1. Identify the body compartments where potassium and magnesium are highly concentrated.
2. Discuss the metabolic processes that tightly regulate potassium and magnesium homeostasis.
3. Determine the causes of disorders of potassium and magnesium homeostasis, including those related to medications.
4. Identify the common clinical presentations associated with disorders of potassium and magnesium homeostasis.
5. Assess the severity of disorders of potassium and magnesium based on laboratory values and the presence or absence of signs and symptoms.
6. Develop rational pharmacotherapy treatment and monitoring plans for hypo- and hyperkalemia.
7. Develop rational pharmacotherapy treatment and monitoring plans for hypo- and hypermagnesemia.
9. Understand the effect that magnesium deficiency has on potassium homeostasis.
10. Consider the appropriateness of nonpharmacologic therapy for the treatment of potassium disorders.