



Fluid, Electrolyte and Acid-Base Physiology: A Problem-Based Approach, 5e

Kamel S. Kamel MD FRCPC, Mitchell L. Halperin MD FRCPC

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With a **strong focus on problem solving and clinical decision making**, *Fluid, Electrolyte, and Acid-Base Physiology* is your comprehensive, go-to guide on the diagnosis and management of fluid, electrolytes, and acid-base disorders. This **in-depth reference** moves smoothly from basic physiology to practical clinical guidance, taking into account **new discoveries; new understanding of fluid, acid-base, and electrolyte physiology; and new treatment options** available to today's patients. An essential resource for nephrologists and emergency practitioners, this **extensively revised** edition helps you make the best management decisions based on the most current knowledge.

- Presents **questions and explanations throughout** that let you test your knowledge and hone your skills.
- **High-yield margin notes and key point boxes** make essential information easy to review.
- **Numerous line drawings, diagnostic algorithms, and tables** facilitate reference.
- **Distinguished authors** apply their extensive experience in research, clinical practice, and education to make **theoretical and clinical knowledge** easy to understand and apply.
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- **More patient-based problem solving** illustrates how key principles of renal physiology, biochemistry, and metabolic regulation are applied in practice, challenging you to test your knowledge and hone your decision-making skills.
- **Highlights updated clinical approaches** to the diagnosis and management of fluid, electrolyte, and acid-base disorders based on current research and understanding.
- **Integrative whole-body physiology** provides a more comprehensive grasp of the pathophysiology of fluid, electrolyte, and acid-base disorders.

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