

Fluid, Electrolyte and Acid-Base Disorders

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Clinical Evaluation and Management



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Preface

The purpose of writing this book is to present a clear and concise understanding of the fundamentals of fluid, electrolyte, and acid–base disorders that are frequently encountered in clinical practice. For example, students, housestaff, and practicing physicians find the subject of fluid balance, electrolyte, and acid–base problems particularly difficult. This book provides them with basic information in a clear-cut and straightforward manner for easy and appropriate management of a patient.

Each chapter begins with pertinent basic physiology followed by its clinical disorders. Cases for each fluid, electrolyte, and acid–base disorder are discussed with answers. In addition, board-type questions with explanations are provided for each clinical disorder to increase the knowledge of the physician.

This book is different from other available texts in fluid, electrolyte, and acid–base physiology in several aspects. First, each chapter is treated succinctly and conceptually with simple figures, flow diagrams, and tables. This avoids detailed explanation of each concept. Second, the clinician can understand the concepts more clearly and organize information more efficiently. This avoids memorization. Third, each basic concept is explained with a clinical example. This will help the clinician to apply the principles of basic science to clinical practice in the management of patients with fluid, electrolyte, and acid–base problems; and finally, the common approach to the fluid, electrolyte, and acid–base disorders as well as discussion and explanation in the form of case presentations will make the clinician comfortable in the management of the patients' problems.

This book would not have been completed without the help of many students, housestaff, and colleagues, who made me learn nephrology and manage patients appropriately. They have been the powerful source of my knowledge. I am grateful to all of them. I am extremely thankful and grateful to my family for their immense support and patience. Finally, I extend my thanks to the staff at Springer, particularly Gregory Sutorius and Margaret Burns, for their constant support, help, and advice. Constructive criticism for improvement of the book is gratefully acknowledged.

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