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SECOND EDITION

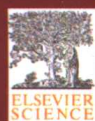
CRITICAL CARE MEDICINE

Principles of Diagnosis and Management
in the Adult

JOSEPH E. PARRILLO
R. PHILLIP DELLINGER



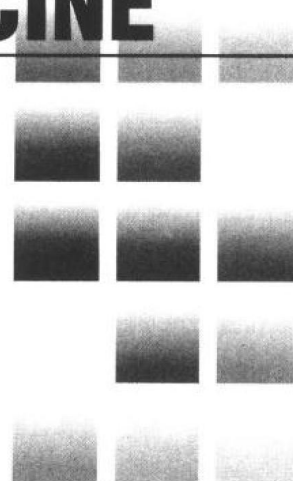
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CRITICAL CARE MEDICINE

Principles of Diagnosis and Management in the Adult



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PREFACE

Few fields in medicine have grown, evolved, and changed as rapidly as critical care medicine during the past 30 years. From its origins in the postoperative recovery room and the coronary care unit, the modern intensive care unit (ICU) now represents the ultimate example of medicine's ability to supply the specialized personnel and technology necessary to sustain and restore seriously ill individuals to productive lives. While the field continues to evolve rapidly, sufficient principles, knowledge, and experience have accumulated in the past few decades to warrant production of a comprehensive volume dedicated to adult critical care medicine. We chose to limit our book to adults to allow production of a comprehensive textbook in a single volume.

For a number of years, Joe Parrillo and Roger Bone discussed the need for an authoritative, comprehensive textbook written by acknowledged leaders in the field. The book was envisioned to be multidisciplinary and multiauthored, but aimed primarily at practicing critical care physicians who spend the majority of their time caring for patients in an ICU. The textbook would be appropriate for critical care internists, as well as surgical or anesthesia critical care specialists. The goal was to produce the acknowledged standard in critical care medicine.

This vision led to the publication of the first edition of this textbook in 1995. The textbook sold exceedingly well for a first edition text. Our publisher, Mosby, was planning a second edition when two events occurred. The first, as you are probably aware, was the untimely death of Roger Bone, MD, who will be greatly missed by us and the entire critical care community. The second was the purchase of Mosby by Harcourt.

Joe Parrillo was very fortunate to recruit R. Phillip Dellinger, MD, an authority and major leader in academic critical care medicine, to be a co-editor for the second and subsequent editions. As co-editors, we have labored to pro-

duce a highly readable text that can be used as a comprehensive review or a reference source. We felt it was important to produce a textbook that would exist in a single volume. This was a challenge, since critical care knowledge and technology have expanded significantly during the last decade. By placing emphasis on clear, concise writing and adult critical care medicine, this goal was achieved.

Our view of critical care medicine is mirrored in the organization of this textbook. Modern critical care is a multidisciplinary specialty that includes much of the knowledge and technology contained in many disciplines represented by the classic organ-based subspecialties of medicine, as well as the specialties of surgery and anesthesiology. The book begins with a series of chapters devoted to the technology, procedures, and pharmacology that are essential to the practicing critical care physician. This is followed by sections devoted to the critical care aspects of cardiovascular, pulmonary, infectious, renal, metabolic, neurologic, gastrointestinal, and hematologic-oncologic diseases. Subsequent chapters are devoted to important social, ethical, and other issues such as psychiatric disorders, severity of illness scoring systems, and administrative issues in the ICU.

Each chapter is designed to provide a comprehensive review of pertinent clinical, diagnostic, and management issues. This is primarily a clinical text, and thus emphasis is placed on considerations important to the practicing critical care physician; however, we also present the scientific (physiologic, biochemical, and molecular biologic) data pertinent to the pathophysiology and management issues. We have aimed for a textbook length that is comprehensive but manageable. Substantial references are provided for those wishing to explore subjects in greater detail. We have identified key points and key references to highlight the most important issues within each chapter.

We have been fortunate to attract a truly exceptional group of authors to write the chapters for *Critical Care Medicine: Principles of Diagnosis and Management in the Adult*. For each chapter, we have chosen a seasoned clinician/scientist actively involved in critical care, who is one of a handful of recognized experts in his or her chapter topic. To provide uniformity in content and style, one or both of us have edited and revised each chapter.

We wish to thank the highly dedicated individuals who provided us with the assistance needed to complete a ven-

ture of this magnitude. Our thanks go to Delphine Sayeed, who provided invaluable organizational and superb editorial input; to Geri Byrd and Toni Piper, for their administrative assistance; and to the excellent editorial staff at Harcourt Health Sciences, including Ann Ruzycka, Allan Ross, and Melissa Lastarria.

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