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Ronald D. Miller

Editor

麻醉学

ANESTHESIA

FIFTH EDITION (第5版)

Volume 1

Consulting Editors

Roy F. Cucchiara

Edward D. Miller, Jr.

J. Gerald Reves

Michael F. Roizen

John J. Savarese

上册

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第五版

Ronald D. Miller

主编

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Preface to the Fifth Edition

The Fourth Edition of *Anesthesia* is widely recognized as the most complete and thorough analysis and presentation available on the specialty of anesthesiology. The consulting editors and I examined the Fourth Edition carefully to ensure that the entire specialty of anesthesiology in the Fifth Edition is adequately addressed in a scholarly, thorough, and contemporary manner. Each author was instructed to revise his or her chapter in a manner that ensured its being a contemporary treatment of the subject matter being described.

There are some modest changes in the subject matter and its reorganization in the Fifth Edition of *Anesthesia*. From a monitoring point of view, the use of transesophageal echocardiography is increasingly becoming a standard in anesthesia, not only for patients with cardiac surgery but also for many other patients with critical illnesses or procedures being performed. In that regard, we made the decision to have a separate chapter on transesophageal echocardiography (Chapter 31) written by Dr. Michael Cahalan, who is regarded as an international expert on this topic. We also recognized the increasing importance of information systems in the clinical setting in which we work. As a result, Dr. Ira Rampil added a chapter on "Finding Professional Information on the Internet" (Chapter 78). Also, recognizing the increasing requirement of assessing the effectiveness of clinical care, Dr. Dennis Fisher added a section on outcomes in his statistical analysis in Chapter 21.

As in previous editions, each chapter is written as a complete discussion of its topic and is fully referenced. As a result, there is some overlap from chapter to chapter. This overlap provides the reader with contrasting but equally valid views on many important areas in anesthesia. Also, there was an attempt to provide cross-referencing from one chapter to another on a particular topic.

With each new edition of *Anesthesia*, the number of pages and illustrations has progressively increased. This is a reflection of the increasing knowledge base that anesthesiologists need in order to have a complete understanding of the

practice of anesthesiology. Therefore, a major emphasis in the Fifth Edition was to facilitate the overall understanding of the subject being discussed. In the Fourth Edition, color illustrations were inserted with regard to certain key illustrations. In the Fifth Edition, additional color was added, which should facilitate the ease of reading the text. Furthermore, a decision was made to develop a CD-ROM to provide a verbal and visual description of some of the more difficult technical procedures described in the text. It was our view that the addition of the CD-ROM would greatly enhance the understanding of some of the more technical aspects of our specialty. CD-ROM icons placed throughout both volumes indicate the related videos.

There is increasing recognition in health care delivery that standardization of health care not only increases quality but also tends to decrease cost. While one can debate this conclusion, there is no doubt that the practice of medicine is moving in a direction of standardization; anesthesiology is no exception. As a result, we are very grateful to the American Society of Anesthesiologists and Michael Todd, M.D., Editor-in-Chief of *Anesthesiology*, for allowing us to publish the ASA Practice Guidelines. The practice parameters described in these guidelines have been referenced to the appropriate chapters. This will allow the reader to compare leading experts' approaches to a particular topic with the standard recommendations of the American Society of Anesthesiologists.

As with the Fourth Edition, we believe that this text is truly peer-reviewed and that the review process by our consulting editors equals that of many excellent journals. I, therefore, especially thank Drs. Roy F. Cucchiara, Edward D. Miller, Jr., J. Gerald Reves, Michael F. Roizen, and John J. Savarese for their expertise and help in the development of the Fifth Edition of *Anesthesia*. Finally, I would like to acknowledge the support of Lewis Reines, President, and Allan Ross, Medical Editor, as well as the assistance of the editorial and production staff at W.B. Saunders Company, especially Ann Ruzycka, Senior Development Editor; Shelley Hampton, Production Editor; and Scott Filderman, Copy Editor.