

encourage the reader to apply the physiologic principles in clinical practice. A detailed content outline and extensive subject index are also provided. The 4 appendixes show symbols and abbreviations used in cardiopulmonary physiology, units of measurement, derivations of important equations, and the Dubois body-surface-area chart. An interactive Internet-based learning platform, which includes an instructor's manual, a test-question bank, and PowerPoint slides, is also available for instructors and students, but I did not review those materials.

The author does a good job of demonstrating how various physiologic concepts are related to clinical practice. The Clinical Focus boxes describe scenarios typically encountered in daily respiratory care practice. Good examples are found in the chapters on the mechanics of breathing and pulmonary function testing. I did find, however, that several topics could have been presented in a different sequence in the text that would better show the clinical correlations to basic physiologic principles. For example, the discussion of fetal and newborn cardiopulmonary physiology would be more meaningful (particularly for students in their first year of respiratory care education) if it were presented after the chapters on cardiovascular anatomy and physiology. It is difficult to fully grasp the consequences of any of the congenital cardiac defects presented without an understanding of normal cardiovascular anatomy and physiology. Similarly, I think the discussion of pulmonary-artery catheterization and the effects of left-ventricular dysfunction on pulmonary-artery-catheter measurements in the chapter on pulmonary blood flow would be more appropriately introduced in a later chapter. In fact, the author presented the same material on pulmonary-artery catheterization later in the text, where he discusses cardiac output and hemodynamic measurements.

Overall, I found the author's writing style succinct and easy to read. I think this textbook should be a useful adjunct for students in respiratory therapy programs that use problem-based learning, and for clinicians interested in learning more about the physiologic basis of respiratory care.

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A-Z of Chest Radiology. Andrew Planner, Mangerira C Uthappa, Rakesh R Misra. Cambridge, United Kingdom: Cambridge University Press. 2007. Soft cover, 211 pages, illustrated, \$58.

A-Z of Chest Radiology is a concise guide to the imaging of acute and chronic respiratory conditions. Using the A-Z format, the authors included over 60 radiographic chest disorders (eg, asthma and sarcoidosis), radiographic findings (eg, Westermark's sign and lobar collapse), and general radiographic appearances (eg, lung consolidation).

The book begins with a brief primer on interpretation of plain chest radiographs, including fundamentals of radiograph quality-assessment, evaluating for patient rotation, and identifying key chest anatomy. The section describes what structures should be visualized in posterior-anterior and lateral normal chest radiographs. The book then delves into the abnormal findings, organized alphabetically. The discussion of each item begins with a brief review of its defining characteristics. Next is a short list of the most common clinical and radiologic features, accompanied by classic image examples of plain chest radiographs, and, frequently, chest computed tomography (CT) images. For each radiographic condition the authors include the differential diagnosis and a few management recommendations.

Physicians are the intended audience of this pocket guide reference. The authors suggest it also may be used for radiology boards review, but the lack of content depth makes that use unlikely. The overview of chest-radiograph interpretation and discussion of the imaging findings may be useful to respiratory therapists and nurses who want to learn the basics of radiographic interpretation and more fully appreciate their patients' conditions. Although the back cover purports that the text is "comprehensive," more specialized physicians, such as radiologists and pulmonologists, may find the reviews too straightforward and lacking needed advanced details.

The book is most useful for the relatively inexperienced reader of chest radiographs. Its initial overall review of interpretation of plain radiographs, and subsequent description of common abnormal findings, is excellent. Line diagrams beside posterior-an-

terior and lateral radiographs provide a "key" for correlating the anatomic structures to the radiographic findings. The labeling of ribs and mediastinal and hilar contents will be helpful to the novice. The sections on bronchiectasis, metastases, chronic obstructive pulmonary disease, and asthma show the classic findings of these diseases on plain radiographs. The sections on pleural effusion, lung consolidation, collapse, pneumothorax, and heart failure illustrate both the common and the trickier aspects of visualizing these frequent abnormal findings. This would serve as a handy tool for residents, general internists, or family practitioners who have basic radiographic skills and see common pulmonary conditions.

The text has a nice summary of common anatomical variants, congenital abnormalities, and mediastinal structures seen on chest imaging that may be missed or misinterpreted as other pathology. It also provides a nice reference for visualizing the thymus (normal and as a thymoma) and thyroid goiter. There are sections on pectus excavatum, mastectomy, abnormalities of the aorta, cardiac silhouette, and diaphragm, with images of various diaphragmatic hernias. The text will help practitioners to better localize the abnormalities and more accurately diagnose conditions. For common radiographic findings the book does serve as a concise, quick reference, and would be useful to a practitioner interpreting radiographs during a busy clinic.

The authors' choice of subjects for the A-Z topics, however, is a bit haphazard. It is difficult to discern the rationale for their choice of subjects. Though they do provide discussion of expected topics such as sarcoidosis, abscess, and hemothorax, they also included sections on freak anatomic variants (Macleod syndrome, Poland syndrome, foregut duplication cyst), while excluding more common pathologies seen by pulmonary physicians and chest radiologists. The text is missing discussion of less rare pulmonary diseases such as asbestosis, eosinophilic lung diseases, vasculitis, and pulmonary hemorrhage. The only interstitial lung diseases covered are idiopathic pulmonary fibrosis, hypersensitivity pneumonitis, sarcoidosis, silicosis, and pneumoconiosis. The discussion of CT findings is minimal and lacks any descriptors to help distinguish between the causes of interstitial pneumonitis and progressive fibrosis.

The authors chose to include a thorough discussion of the findings of neuroenteric

cyst and alveolar microlithiasis, which are more “fascinomias” and not practical for the general clinician. Discussion of lung cancer is limited to a section on carcinoma, which does not detail characteristic radiographic differences between small-cell carcinoma, bronchoalveolar carcinoma, and bronchogenic squamous carcinoma. This degree of generalizing of findings has little clinical utility for the pulmonologist, but may be somewhat useful to the general practitioner and possibly to the respiratory technician and nurse.

There is also sparse discussion of pulmonary infections. The only infections included are varicella pneumonia and tuberculosis; there is no discussion of fungal infection. A section on calcified granuloma in the text does even not mention endemic fungi as a possible cause, which is a glaring omission. Also missing is discussion of *Pneumocystis* pneumonia and its unique radiographic findings, and the radiographic findings associated with human immunodeficiency virus, such as pulmonary Kaposi sarcoma or atypical mycobacterial infection. Pneumonia is lumped into the section on lung-consolidation, and there is minimal mention of other presentations beyond focal consolidation. Also missing are images of atypical bacterial infections with diffuse infiltrates. Although varicella pneumonia does produce a somewhat unique radiographic image, it is unclear why other more common viral pneumonias such as influenza are not mentioned.

The text is also frustrating in its lack of consistent discussion of CT. For most of the A-Z items, the radiologic features section provides a generalized, vague description of CT findings, occasionally with CT images, but the coverage is spotty and missing important distinguishing features. For example, the description of the CT findings in lymphangioleiomyomatosis says “numerous random thin-walled cysts of varying size and shape,” but the CT findings of lymphangioleiomyomatosis are more distinctive than that, notably in their diffuse distribution. Similarly, the summary of CT findings in extrinsic allergic alveolitis reads: “progression to the chronic form leads to interstitial thickening, honeycombing, and traction bronchiectasis,” which neglects to mention the predominance of the disease in the upper lobes. Because the focus of this pocket guide appears to be plain radiographs, given the initial primer, the CT bullet-points appear to be an after-thought. There is also

occasional mention of magnetic-resonance-imaging findings, included sporadically, for unclear reasons. The indiscriminate discussion and limited specific information provided makes the text of limited value as a reference for chest CT. The book might have been better without any discussion of CT, rather than such a piecemeal version.

It might also have been best to leave out the sections on management. For the clinician these bullet points lack sufficient detail to be useful; they provide only a simplistic overview, and many are out-dated. For managing chronic obstructive pulmonary disease the book suggests “nebulized ipratropium bromide” and to consider “albuterol infusion.” It neglects to mention long-acting inhaled bronchodilators, which are the mainstay of treatment for advanced disease. The management sections also commonly include diagnostic and prognostic information instead of treatment information. For example, the discussion of mesothelioma management includes “confirm diagnosis with biopsy. Give radiation to biopsy site . . . survival is poor.” It neglects to mention the only treatment for cure, which is surgical resection. For nonclinicians, such as radiologists, these abbreviated key points may be helpful.

Although there is a list of abbreviations at the start of the text, nonstandard terms such as “M C & S” and “NBM” will distract American readers. The book lacks an index; there is only a table of contents for the A-Z headings. No references are cited. Respiratory therapists and nurses may find interesting the management guidelines for the rarer pulmonary disorders for which they do not commonly provide therapy.

Overall, **A-Z of Chest Radiology** functions very well as ready reference book for the novice interpreter of chest radiographs. It serves as a handbook for respiratory therapists, nurses, primary-care practitioners, and physicians in training. It is well organized and structured, with clear illustrations and diagrams, especially in the primer on chest radiograph interpretation. Each A-Z item has bulleted clinical and radiographic findings, which are concisely written and provide key “take-home” points, and the images illustrate those points. The inclusion of a differential diagnosis allows the reader to see similarities in imaging of clinically distinct disorders. The text is not too dense or cluttered; the pages are nicely laid out. I would recommend this guide to the apprentice interpreter of chest radiographs but not

to an experienced radiologist or pulmonologist.

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Management of Acute Pulmonary Embolism. Stavros V Konstantinides MD, editor. Foreword by Samuel Z Goldhaber MD. *Contemporary Cardiology* series, Christopher P Cannon MD, series editor. Totowa, New Jersey: Humana Press. 2007. Hard cover, illustrated, 271 pages, \$149.

Acute pulmonary embolism is a common and complex medical condition that, as stated in this book’s foreword, “causes dread among physicians and patients.” Its symptoms are nonspecific, diagnosis is difficult and requires a high degree of suspicion, and treatment is often controversial. Understanding the nuances and controversies when diagnosing and treating pulmonary embolism is critical for providers in both the in-patient and out-patient settings. **Management of Acute Pulmonary Embolism**, edited and written by the world’s foremost experts on venous thromboembolism, is a remarkably readable and thorough summary of the diagnosis and treatment of pulmonary embolism. This text would be an excellent reference tool for medical students, residents, fellows, physicians, nurses, respiratory therapists, primary-care providers, and subspecialists.

This medium-sized text contains many well-done tables and figures, including flow diagrams, color micrographs, and photographs. The 3 main sections, Diagnostic Approach to the Patient With Suspected Pulmonary Embolism, Treatment and Secondary Prophylaxis of Venous Thromboembolism, and Specific Aspects, each consist of several chapters. The chapters are concise, easy to find in the text, and an ideal kind of reference to use when wanting some immediate knowledge relating to a current clinical problem. Each chapter concludes with a detailed but not overwhelming reference list.

The section on diagnosis covers crucial topics, including clinical probability scor-