will help you understand what to do when facing a new transmissible disease. I recommend this book as a valuable addition to departmental and personal libraries.

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This book addresses the complex and fascinating topic of host-pathogen interactions and their respective roles in the pathogenesis of pulmonary infectious diseases. The book includes 13 chapters, written primarily by Dutch physician-scientists with active research programs in the field of pediatric infectious diseases. Although variable in length, the chapters are generally well-written, up to date, and well-referenced. However, because the book was written primarily from a pediatric perspective, very little information is included regarding adult infectious diseases. Much of the content is pediatric-specific, with marginal relevance to common pulmonary infectious syndromes in adults.

Noteworthy chapters include the first two in the book. Chapter 1, “Relevance of Genetic Background in Respiratory Tract Infections,” provides an interesting and relatively comprehensive overview of host immunogenetics in respiratory tract infection. Chapter 2, “The Hygiene Hypothesis: The Role of Microbes in the Prevention of Atopy and Atopic Disease,” presents an interesting discussion of the hygiene hypothesis of allergic disease, with implications further explored in Chapter 11, “Viral Infections and Childhood Asthma.”

Chapter 9, which addresses the role of vaccines in the prevention of respiratory tract infections, provides an interesting discussion of the pneumococcal vaccine and the potential problems inherent in vaccination strategies for other bacterial and viral respiratory pathogens.

The overall appeal of this book is diminished by a number of curious omissions and deficiencies. Despite the well-recognized and critical role of dendritic cells in the host response to pulmonary pathogens, the term “dendritic cell” is not in the index, and dendritic cells are not specifically discussed in the text. Influenza, despite its obvious overall importance as a viral respiratory pathogen, receives scant attention. This deficiency is especially puzzling, given the inclusion of specific chapters devoted exclusively to adenovirus and rhinovirus. Likewise, tuberculosis receives relatively minor attention in this book, despite the worldwide importance of Mycobacterium tuberculosis as a pulmonary pathogen and the amount of scientific interest in host response to M. tuberculosis. The book does not include a chapter on the microbe-host interface in chronic obstructive pulmonary disease, which perhaps reflects the editors’ pediatric focus. Similarly, bronchiectasis is not discussed outside of the context of cystic fibrosis.

On the back cover, the book touts itself as “essential reading for all scientists and medical professionals involved in this field.” In my opinion, this self-assessment is a bit of an overstatement. The primary audience should be investigators of pediatric infectious diseases who want a contemporary, focused review on one of the topics covered. However, other texts, such as Immunology, Infection, and Immunity, edited by Pier et al, may better serve this purpose. Scientific investigators in the field are far more likely to rely on original manuscripts and contemporary reviews published in peer-reviewed journals.

Most of the chapters have insufficient information to guide clinical decision making. For clinical reference, health-care providers would be better served by relying on comprehensive textbooks such as Principles and Practice of Infectious Diseases, 6th edition, edited by Mandell et al, or condensed textbooks such as Infectious Diseases: The Clinician’s Guide to Diagnosis, Treatment, and Prevention, edited by Dale. Comparable textbooks in pediatric infectious diseases are available. Online resources, such as UpToDate, also provide more appropriate information for health-care practitioners than is covered in The Microbe-Host Interface in Respiratory Tract Infections.

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Exhaled breath condensate (EBC) has been more and more extensively used as a novel and noninvasive method to study airway inflammation. It is simple to perform, is very well tolerated by patients, and no adverse events have been reported so far. Serial measurements can be made with no harmful effects on patients, which is of extreme value in medicine. EBC has been obtained from both adults and children suffering from various pulmonary diseases, such as asthma, cystic fibrosis, chronic obstructive pulmonary disease, and interstitial lung diseases. Several markers and mediators are detectable in EBC: hydrogen peroxide, thiobarbituric acid-reactive substances, isoprostanes, prostaglandins, and leukotrienes. Nitric oxide-related markers have also been studied in EBC. There is increasing evidence that the changes in content of markers found in EBC reflect local abnormalities of airway-lining fluid.

I started reviewing this book with the conviction that the task was going to be “homework” that I did not really feel like doing. But I soon realized it was to be a completely different story, as I found the book interesting and stimulating. It is very well written and easy to read. It covers almost all the current knowledge on what EBC is, where it comes from, the technical aspects of EBC collection, the clinical aspects of EBC, et cetera.

The book is intended to provide a comprehensive view of EBC for all interested in pulmonary medicine: physicians and researchers in the field.

The table of contents provides a detailed guide to the structure of the book. The arrangement of headings is carried into the text chapters, and each chapter begins with an exceptionally precise list of subheadings that emphasize each aspect of the described topics.

The book starts with an excellent chapter on a new EBC approach to monitoring lung inflammation. It describes the general idea of how EBC has broadened the spectrum of available tools to study lung diseases in vivo. Until EBC, in vivo studies were limited by the invasive nature of obtaining samples from within the lung (eg, bronchoalveolar lavage, biopsy, sputum collection). The chapter also predicts future EBC develop-