



**IN THE NAME OF ALLAH,
MOST GRACIOUS, MOST MERCIFUL**

CLINICALLY CHALLENGING PEDIATRIC INFECTIOUS DISEASE CASES

A Clinical Infectious Disease Handbook

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ACKNOWLEDGMENT

The authors worked collaboratively to write this infectious disease handbook with the aim to provide the readers with summarized clinical scenarios of real clinical cases collected from our institution. Our target readers are physicians, postgraduate residents and undergraduate medical students. This book includes different clinical infections involving almost all clinically significant organisms causing infections. The book was arranged into chapters according to causative agents. Each clinical case is followed by a discussion along with references. In addition, images such as CT-scans, X-rays and microbiological pictures of organisms related to each case were also provided. We also supplement our book with a self-assessment in the form of multiple choice questions and clinical cases. This book will help future doctors, practicing physicians, and newly graduating residents in critical thinking and better management of patients. Through this book, they will be exposed to different clinically challenging cases of which some are rare or difficult to diagnose and treat. We acknowledge the medical records, the microbiology laboratories and personnel involved in the secretary editing of this book.

INTRODUCTION

This book is a collection of pediatric case studies of challenging cases involving previously healthy or chronically ill children with underlying diseases. It provides pediatric infectious disease fellows and residents with realistic clinical scenario, including a discussion of differential diagnoses, clinical approach, management and outcome. In addition, each individual case included patient's history, physical examination, laboratory and imaging studies. The main purpose of this case studies handbook is to provide the reader with varieties of clinically challenging cases that include developmental and disease problems compatible with our family and cultural environments, which must be considered to provide optimal care. Updated guidelines on clinical care were used to support our recommendations. Postgraduate infectious disease doctors are expected to develop their own clinical decision skills as they are exposed to difficult clinical situations during their health care provisions. The 23 cases included in this book presented the author's experience and collaboration during patient's management in both the pediatric and microbiology units. We, as authors, aimed to improve student's and resident's clinical skills and critical thinking. Multiple choice questions and answers are provided at the end of each chapter under the assessment sections. A broad range of challenging cases, covering infection of different organ systems, were discussed. These included the respiratory, central nervous system, skin and soft tissue and other major systems. As our cases are enhanced by microbiological and clinical images, this book might be considered an adequate educational tool for students, residents and pediatricians. The comprehensive updated discussions in this book provide the reader with an interesting source of information easier to obtain and analyze compared to a textbook discussion.

Declaration Statement

We declare that all the clinical cases included in this book are realistic cases obtained from our hospital electronic health system with an agreement compatible with our institution strategies at King Khalid University Hospital (KKUH). The microbiology images illustrating microorganisms were obtained from the microbiology laboratory at KKUH matching the rules established by the microbiology

laboratories guidelines. The microscopic slides are usually kept for a specific duration as recommended and then discarded according to the laboratory safety guidelines. The clinical images were obtained from patients after taking their permission verbally at the time of the examination of the clinical cases. Care was considered to preserve the obscured identity of patients. The purpose of taking the photos, as to be used as a learning tool, was explained to the patient or to his/her parents.

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