

Cardiopulmonary Pharmacology

for Respiratory Care

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*This book is dedicated to my wife Hengameh
and to my daughters Mahkameh and Morvarid.*



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Preface

Introduction

Today, respiratory care is one of the major areas of allied health. Respiratory care personnel provide evaluation, treatment, management, and monitoring of patients with many different types of respiratory-related conditions. Their job descriptions include cardiopulmonary resuscitation, oxygen administration, use of ventilators, administration of lung-specific medications, measurement of breathing capacity, and complete monitoring of the cardiopulmonary system. Cardiac and respiratory disorders are interconnected. There are some disorders of the heart that directly affect respiration, resulting in pulmonary disorders. Therefore, discussion of both of these areas is vital in understanding either of them. Drug therapy is one of the major components of respiratory care, requiring an extensive knowledge of pharmacology. The varied activities of a respiratory care technician require extensive and thorough training, as well as a complete, in-depth textbook.

Organization of Content

This book is organized into five units and contains 22 chapters, followed by appendices, an answer key, a glossary, and an index. In each chapter, drugs are

discussed in relation to their mode of action, clinical implications, adverse effects, contraindications, and precautions. Each chapter contains many tables and color figures.

Features

Each chapter contains an outline of key topics, objectives that students must be able to meet upon completion of the reading, and a list of key terms (which are bolded in the chapter text). At the end of the main body of chapter text, a summary highlights important concepts, followed by learning goals, which provide answers to the objectives listed at the beginning of the chapter. Also, chapters contain critical thinking questions, related Web sites, review questions, and a case study.

Current Drug Information

The drug information in this book is current as of its printing. Remember that drug information changes often; you should always make sure you have the most up-to-date drug information before preparing or administering any medication. Consult current publications, such as *Physicians' Desk Reference*, *Drug Facts and Comparisons*, or drug package inserts.

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Everest University's Melbourne campus.

Dr. Moini was Assistant Professor at Tehran University School of Medicine for 9 years, where he taught medical and allied health students. The author is a professor and former director (for 15 years) of allied health programs at Everest University. Dr. Moini established several programs at

As a physician and instructor for the past 35 years, he understands the importance of respiratory care therapists in the modern healthcare setting. He advocates the importance of pharmacology in the treatment of respiratory disorders because today respiratory disorders are some of the leading causes of disability and death in the United States.

Dr. Moini is actively involved in teaching and helping students to prepare for service in various health professions. He worked with the Brevard County Health Department as an epidemiologist and health educator consultant for 18 years. He has been an internationally published author of various allied health books since 1999.

