Textbook of
PATHOLOGY
for BPT Students
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Foreword
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Dedicated to
Students who inspired me
Patients who provided the knowledge
My parents and family members who encouraged and supported me
Foreword

There are several books in pathology for various courses, but it is difficult for the young student to choose the one which suits her/his course and standard. Nowadays, students look for short prose and look for anything which helps them to pass the examinations. Little do the students realize that apart from passing the examination, it is very important that they should also understand the basics and fundamentals; because every time the student is made to treat a patient, her/his competency is put to test by the patient. The book written by Dr Ramadas Nayak serves that very purpose of "understanding". With the adoption of simple language, this book is a great boon for the "not-so-good in English" students too. The text is crystal clear, the illustrations are very appropriate and succinct. With his enormous experience as a "Good Teacher", the author has given a lot of importance to the needs of the average learner. That the book is within the reach of an average student is very obvious. I am sure that this book will be a grand success. I am confident that the pundits will appreciate the purpose of such a book and the students will find it not only easy to read and understand, but also help them in passing the examination. The author has also thought about keeping the cost low so that it will be affordable to her/him. I am confident that this book will also find a place in the shelf of the teacher who teaches pathology to the students of physiotherapy.

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Preface

Pathology is a rapidly expanding and ever-changing field and lays the foundation for understanding diseases. This book is an endeavor to present the vast knowledge of pathology in a lucid manner for BPT (Physiotherapy) students. My aim is to provide a sound knowledge of pathology and hence, give insight into etiology, pathogenesis, pathology and the disease course. Every attempt has been made to present information in a simplified text augmented with the use of illustrations.

ORGANIZATION

This book consists of 24 chapters and is organized into two sections namely General Pathology and Systemic Pathology.

Section 1: It consists of general pathology and provides an overview of the basic pathologic mechanisms underlying diseases including cellular adaptations, inflammation, tissue repair, chronic inflammation, hemodynamic disorders, immunological disorders, neoplasia and genetics.

Section 2: It deals with systemic pathology with chapters devoted to diseases of various organ systems including vascular, cardiac, respiratory, gastrointestinal, liver and biliary tract, pancreas, kidney, bones, endocrines, skin, peripheral nervous system and central nervous system.

After many years (more than 34 years) of teaching BPT students, I found there is no textbook meant only for BPT students. I also observed that undergraduate students find it difficult to understand, remember and answer the questions during examinations, in a satisfying way. This encouraged me to write a book to fill the niche, to provide basic information to BPT students in a nutshell. The text provides all the basic information, the student will ever need to know. Key words are shown in bold words so that student can rapidly go through the book on the previous day or just before the examination. Most students are fundamentally “visually oriented.” As the saying “one picture is worth a thousand words”, it encouraged me to provide many illustrations.

HOW TO USE THIS BOOK

I recommend this book to all BPT students for understanding the basic knowledge and refresh their knowledge during examinations. The readers are requested to give more emphasis on words in bold letters that represent the key words to be remembered.

Numerous illustrations, gross photographs, photomicrographs, tables, flowcharts and X-rays have been incorporated for easy understanding of the subject.

Ramadas Nayak
My sincere thanks to all my family members, especially my wife Smt Rekha Nayak, my daughter Ms Rashmitha Nayak and my son-in-law Mr Ramnath Kini, who have patiently accepted my long preoccupation with this work. A special thanks to my grandson master Rishab Kini who kept me agile throughout the preparation of this book.

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