*Textbook of*

# PATHOLOGY

for BPT Students

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## for BPT Students

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*Students who inspired me*
*Patients who provided the knowledge*
*My parents and family members who*
*encouraged and supported me*

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# 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.

**CV Raghuveer** MBBS DCP MD FIC Path

# 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**

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# Contents

## SECTION 1: GENERAL PATHOLOGY


**1. Introduction** **3**
Normal Cell Structure and Functions *3*
Introduction to Pathology *5*

**2. Cell Injury and Adaptation** **7**
Types of Cellular Responses to Injury *7*
Cellular Adaptations *7*
Cell Injury *12*
Necrosis *16*
Apoptosis *21*
Pathologic Calcification *22*
Other Tissue Changes *24*
Pigments *25*
Self-assessment Exercises *27*

**3. Inflammation and Repair** **29**
Acute Inflammation *29*
Sequence of Events in Acute Inflammation *30*
Chemical Mediators of Inflammation *37*
Outcomes of Acute Inflammation *42*
Morphological Types/Patterns of Acute Inflammation *43*
Systemic Effects of Inflammation *45*
Chronic Inflammation *46*
Granulomatous Inflammation *47*
Repair *48*
Healing *49*
Healing by Repair, Scar Formation and Fibrosis *49*
Cutaneous Wound Healing *50*
Factors that Influence Wound Healing *53*
Complications of Wound Healing *54*
Healing of a Fracture *56*
Self-assessment Exercises *58*

**4. Infectious Diseases** **60**
Mycobacterial Diseases *60*
Tuberculosis *60*
Leprosy *68*
Syphilis *73*
Bacterial Diseases *77*
Viral Diseases *79*
Rickettsial Infections *81*
Chlamydial Infections *82*

Fungal Infections and Opportunistic Infections *83*
Parasitic Diseases *83*
Self-assessment Exercises *89*

**5. Hemodynamic Disorders** **90**
Hyperemia and Congestion *90*
Edema *94*
Thrombosis *98*
Embolism *103*
Infarction *110*
Shock *112*
Self-assessment Exercises *119*

**6. Immunity** **120**
Immunity *120*
Cells of the Immune System *121*
Cytokines *122*
Hypersensitivity: Immunologically Mediated Tissue Injury *123*
Immediate (Type I) Hypersensitivity *123*
Antibody-Mediated (Type II) Hypersensitivity *126*
Immune Complex–Mediated (Type III) Hypersensitivity *128*
T Cell-Mediated (Type IV) Hypersensitivity *131*
Autoimmune Diseases *132*
Systemic Lupus Erythematosus (SLE) *133*
Acquired Immunodeficiency Syndrome (AIDS) *136*
Amyloidosis *141*
Self-assessment Exercise *148*

**7. Neoplasia** **149**
Introduction *149*
Classification *150*
Nomenclature of Neoplasms *151*
Characteristics of Benign and Malignant Neoplasms *153*
Carcinoma in Situ *158*
Metastasis *159*
Precancerous Conditions/Lesions *161*
Molecular Basis of Cancer *162*
Hallmarks of Cancer *162*
Etiology of Cancer (Carcinogenic Agents) *167*
Laboratory Diagnosis of Cancer *175*
Prognosis *176*
Common Specific Epithelial Tumors *177*
Mesenchymal Tumors *177*
Peripheral Nerve Sheath Tumors *179*
Skeletal Muscle Tumors *180*
Self-assessment Exercises *180*

**8. Nutritional Disorders** **182**
Common Vitamin Deficiencies *182*
Fat-soluble Vitamins *182*

Water-soluble Vitamins—Vitamin B Complex *188*
Protein–Energy Malnutrition *192*
Self-assessment Exercise *193*

**9. Genetic Disorders** **194**
Genes *194*
Classification of Genetic Disorders *194*
Mendelian Disorders/Single-gene or Monogenic Disorders *195*
Chromosomal Aberrations *197*
Trisomy 21 (Down Syndrome) *199*
Klinefelter Syndrome *200*
Turner Syndrome *201*
Self-assessment Exercise *202*

**SECTION 2: SYSTEMIC PATHOLOGY**

**10. Vascular Disorders** **205**
Arteriosclerosis *205*
Atherosclerosis *205*
Aneurysms and Dissection *210*
Hypertension *213*
Vascular Tumors *216*
Self-assessment Exercises *218*

**11. Heart Disorders** **219**
Ischemic Heart Disease *219*
Angina Pectoris *220*
Myocardial Infarction (MI) *220*
Infective Endocarditis *227*
Rheumatic Fever and Rheumatic Heart Disease *230*
Congenital Heart Disease *235*
Left-to-Right Shunts *237*
Right-to-Left Shunts *240*
Self-assessment Exercise *241*

**12. Hematology** **242**
Introduction *242*
Disorders of Red Cells *243*
Anemia *243*
Iron Deficiency Anemia *246*
Megaloblastic Anemia *249*
Pernicious Anemia *252*
Anemias of Blood Loss *254*
Aplastic Anemia *254*
Hemolytic Anemia *256*
Hereditary Hemolytic Anemia *256*
β-Thalassemia Major *258*
Sickle Cell Anemia *261*
Acquired Hemolytic Anemias *263*
Disorders of White Cells *265*

Normal Differential Leukocyte Count (DLC) *265*
Quantitative Disorders of Leukocytes *265*
Acute Leukemia *268*
Acute Lymphoblastic Leukemia/Lymphoma *270*
Acute Myelogenous Leukemia *273*
Chronic Myelogenous Leukemia *274*
Chronic Lymphocytic Leukemia *277*
Disorders of Hemostasis *278*
Normal Hemostasis *278*
Classification of Hemostatic Disorders *279*
Immune Thrombocytopenic Purpura *281*
Coagulation Disorders *282*
Hereditary Coagulation Disorders *282*
Hemophilia *283*
Acquired Coagulation Disorders *285*
Plasma Cell Neoplasms *287*
Multiple Myeloma (Plasma Cell Myeloma) *287*
Blood Transfusion *291*
Self-assessment Exercises *295*

**13. Lymph Nodes** **297**
Lymphoid Neoplasms *297*
Non-Hodgkin Lymphoma *298*
Hodgkin Lymphoma *302*
Metastatic Carcinoma *307*
Self-assessment Exercises *308*

**14. Respiratory Tract** **309**
Normal Structure and Function *309*
Pulmonary Infections—Pneumonia *309*
Tuberculosis *312*
Chronic Obstructive Pulmonary Diseases *312*
Bronchial Asthma *316*
Bronchiectasis *320*
Lung Abscess *322*
Pneumoconioses *323*
Carcinomas *326*
Self-assessment Exercises *329*

**15. Oral Cavity** **330**
Precancerous Lesions of Oral Cavity *330*
Squamous Cell Carcinoma *331*
Salivary Gland Neoplasms *333*
Pleomorphic Adenoma *333*
Warthin Tumor *335*
Self-assessment Exercise *336*

**16. Gastrointestinal Tract Disorders** **337**
Esophageal Cancer *337*
Stomach *339*

Acute Gastritis *339*
Peptic Ulcer Disease (PUD) *340*
Gastric Adenocarcinoma *343*
Typhoid Fever *348*
Shigellosis-Bacillary Dysentery *351*
Amebiasis *353*
Tumors of Intestine *355*
Polyps of Colon *357*
Colorectal Cancer: Adenocarcinoma *358*
Acute Appendicitis *362*
Self-assessment Exercises *362*

**17. Liver, Biliary Tract and Pancreas** **364**
Normal Structure and Function of Liver *364*
Jaundice *365*
Large Bile Duct Obstruction *367*
Viral Hepatitis *368*
Chronic Hepatitis *370*
Alcoholic Liver Disease *372*
Cirrhosis *372*
Liver Abscess *377*
Hemochromatosis *377*
Tumors of Liver *378*
Pathology of Gallbladder *380*
Pathology of Pancreas *384*
Self-assessment Exercises *387*

**18. Urinary System** **388**
Normal Anatomy *388*
Glomerular Diseases *389*
Urolithiasis (Renal Calculi, Stones) *391*
Self-assessment Exercises *392*

**19. Diabetes Mellitus** **393**
Diabetes Mellitus *393*
Type 1 Diabetes (T1D) *394*
Type 2 Diabetes (T2D) *395*
Pathogenesis of the Complications of Diabetes *396*
Self-assessment Exercises *404*

**20. Endocrine Disorders** **405**
Thyroiditis *405*
Thyrotoxicosis *407*
Graves' Disease *409*
Myxedema *411*
Diffuse and Multinodular Goiters *411*
Neoplasms of the Thyroid *414*
Carcinomas *416*
Adrenal Glands *420*
Self-assessment Exercises *425*

**21. Bone and Joint Disorders** **426**
Infections—Osteomyelitis *426*
Osteoporosis *430*
Bone Tumors *431*
Infectious Arthritis *437*
Osteoarthritis *438*
Rheumatoid Arthritis *440*
Gout and Gouty Arthritis *442*
Self-assessment Exercises *444*

**22. Skin** **445**
Squamous Cell Carcinoma *445*
Basal Cell Carcinoma *446*
Melanoma *447*
Self-assessment Exercises *450*

**23. Peripheral Nerves and Skeletal Muscles** **451**
Neuromuscular Diseases *451*
Diseases of Peripheral Nerves *451*
Diseases of the Neuromuscular Junction *455*
Diseases of Skeletal Muscle *457*
Self-assessment Exercises *459*

**24. The Central Nervous System** **460**
Introduction *460*
Infections *460*
Cerebrovascular Diseases *464*
Intracranial Hemorrhage *465*
Paraplegia *466*
Hemiplegia *467*
Demyelinating Diseases *467*
Neurodegenerative Diseases *468*
Central Nervous System Tumors *470*
Self-assessment Exercises *473*

*Index* *475*