

Clinical Exercise Physiology

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Subjects: Exercise Physiology, Chronic Disease, Exercise Testing.

Description: *Clinical Exercise Physiology, Third edition* provides a comprehensive look at the clinical aspects of exercise physiology by thoroughly examining the relationship between exercise and chronic disease and addressing diseases and populations that clinical exercise physiologists encounter in their work.

Purpose: The two original goals of this book, as stated in the preface, are to disseminate the research associated with clinical exercise physiology and to provide a comprehensive resource for people working in the field.

Audience: Clinical exercise physiologists, sports medicine practitioners, exercise and sport science educators, physical therapists, athletic trainers, and physicians interested in treating their patients with exercise will benefit from the current information provided by this book.

Features: The book is composed of 8 parts including 32 chapters. Additionally, there are a glossary, references and an index at the end of the book. The book contains 70 figures including line drawings and 190 tables. Part I is "Introduction to Clinical Exercise Physiology" including the following chapter headings; 1-"Introduction", 2-"Behavioral Approaches to Physical

Activity promotion", 3-"General Principles of Pharmacology", 4-"General Interview and Examination Skills", 5-"Graded Exercise Testing and Exercise Prescription". Part II is "Endocrinology and Metabolic Disorders" where Diabetes, Obesity, Hypertension, Hyperlipidemia and Dyslipidemia, Metabolic Syndrome, and End-Stage Renal Disease are subjected in Chapters 6 to 11, respectively. Part III addresses various Cardiovascular Diseases like Acute Coronary Syndrome, Revascularization of the Heart, Chronic Heart Failure, Peripheral Artery Disease, and Cardiac Electrical Pathophysiology in Chapters from 12 to 16. Part IV comprises the topics about Chronic Obstructive Pulmonary Disease, Asthma, and Cystic Fibrosis in 3 Chapters under the heading "Diseases of the Respiratory System". Part V, "Oncology and the Immune System", has two Chapters named Cancer and Human Immunodeficiency Virus. Part VI is "Disorders of the Bone and the Joints" and encompasses three Chapters named Arthritis, Osteoporosis, and Nonspecific Low Back pain. The "Selected Neuromuscular Disorders" in Part VII includes Spinal Cord Injury, Multiple Sclerosis, Cerebral Palsy, and Stroke in the Chapters from 25 to 28. Finally, topics about Children, Aging, Depression, and Intellectual Disability are subjected in Part VIII under the heading "Special Populations".

Assessment: The updated third edition of *Clinical Exercise Physiology* is fully revised. The chapters begin with an introduction to the specific disease. The practical application boxes throughout each chapter provide information on maintaining a professional environment for client-clinician interaction, a literature review, and a summary of the key components of prescribing exercise.

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