exercise performance requires an efficient coupling of external (cardiovascular) and internal (cellular) respiratory processes that are modulated by the central and peripheral nervous system. This coupling of external and internal respiratory system is critical to maintain metabolic homeostasis and prevent the development of exercise intolerance. Exercise intolerance can be caused by a wide range of pathophysiological mechanisms, including metabolic, cardiovascular, and respiratory factors.

ACSM's Clinical Exercise Physiology - American College of Sports Medicine - 2017-12-26

ACSM's Clinical Exercise Physiology provides a comprehensive guide to the clinical aspects of exercise physiology. Covering 24 chronic conditions, this textbook is designed to help clinicians understand the underlying physiology and how to interpret the tests. It covers normal physiology and disease considerations and foundational elements, such as screening, pharmacology, and electrocardiography. It also includes a practical guide to the interpretation of cardio-pulmonary exercise tests.


Maximum oxygen uptake during exercise is one of the best predictors of operative mortality and prognosis in chronic cardiovascular disease. Cardiopulmonary exercise (CPX) tests are therefore an increasingly common component of the diagnostic evaluation of patients with chronic diseases. The book provides an overview of CPX testing and interpretation, covering normal physiology and disease considerations and foundational elements, such as screening, pharmacology, and electrocardiography.

Clinical Exercise Electrocardiography - Karlman Wasserman - 2015-04-27

This book will help you understand the clinical applications of electrocardiography in exercise testing. Cardiologists, nurses, exercise test technologists, cardiologists, exercise physiologists, physical rehabilitation specialists, and other health professionals will find it an excellent reference for clinical applications and research.

Clinical Exercise Testing and Prescription - Scott O. Roberts - 1997-09-01

This text is used by those who are interested in understanding the basic mechanisms of exercise intolerance. It provides a comprehensive overview of the pathophysiology of exercise intolerance, including the cardiovascular system. To achieve this, clinical cases are used to illustrate the wide spectrum of pathophysiological causes of exercise intolerance. This book provides a comprehensive overview of the pathophysiology of exercise intolerance, including the cardiovascular system.


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Cardiopulmonary Exercise Testing in Children and Adolescents - Christopher R. Van Loon - 2017-09-27

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Clinical Exercise Testing and Prescription - Andrew M. Jones - 2016-04-17

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Wasserman & Whipp's Principles of Exercise Testing and Interpretation, Sixth Edition, provides a comprehensive, practical overview of cardiopulmonary exercise testing (CPET) ideally suited for pulmonologists, cardiologists, anesthesiologists, and others with an interest in clinical exercise testing. Written by authors who are uniquely positioned to convey relevant aspects of research and apply them to clinical contexts, this volume offers in-depth coverage of essential information for conducting CPET, or for utilizing data from this discipline in clinical practice or research. Clearly defines terminology throughout and focuses on the core elements of CPET that are common to all users, ensuring that content is easily accessible to clinicians from a wide variety of backgrounds. Reviews the central aspects of exercise physiology and metabolism important for understanding measurements used in CPET: identifies core procedures and measurements for conducting tests and laboratory quality control. Outlines systematic, step-by-step approaches to the interpretation of exercise data, including the scientific and technical basis of the methods and analyses. Includes a new chapter on approach to data and interpretation - focused on practical approaches to viewing, summarizing, and reporting results of a test. Illustrates normal and abnormal results of exercise tests through discussion of dozens of actual case presentations. Draws on the extensive experience and expertise of authors from the fields of pulmonary medicine and physiology with experience in research and clinical studies related to cardiology, metabolism, sports medicine, and other areas. Enrich Your Ebook Reading Experience Read directly on your preferred device(s), such as computer, tablet, or smartphone. Easily convert to audiobook, powering your content with natural language text-to-speech.