

Box 4.2

Cognitive Skills Required to Competently Supervise Clinical Exercise Tests

- Knowledge of appropriate indications for exercise testing
- Knowledge of alternative physiologic cardiovascular tests
- Knowledge of appropriate contraindications, risks, and risk assessment of testing
- Knowledge to promptly recognize and treat complications of exercise testing
- Competence in cardiopulmonary resuscitation and successful completion of an American Heart Association-sponsored course in advanced cardiovascular life support and renewal on a regular basis
- Knowledge of various exercise protocols and indications for each
- Knowledge of basic cardiovascular and exercise physiology including hemodynamic response to exercise
- Knowledge of cardiac arrhythmias and the ability to recognize and treat serious arrhythmias (see Appendix B)
- Knowledge of cardiovascular drugs and how they can affect exercise performance, hemodynamics, and the electrocardiogram (see Appendix A)
- Knowledge of the effects of age and disease on hemodynamic and the electrocardiographic response to exercise
- Knowledge of principles and details of exercise testing including proper lead placement and skin preparation
- Knowledge of endpoints of exercise testing and indications to terminate exercise testing

Adapted from (32).

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the American College of Sports Medicine text.

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ACSM's Clinical Exercise Physiology American College of Sports Medicine, 2019-02-01 ACSM's Clinical Exercise Physiology adapts and expands upon the disease related content from ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription 7th Edition to create a true classroom textbook This new resource offers research based coverage of more than 35 conditions commonly seen in practice from a host of cardiovascular disorders to immunological hematological disorders Condition chapters are organized by disease types and then divided into sections that cover specific conditions from a pathological and etiological perspective To provide a complete view of clinical exercise physiology the book also covers important considerations and foundational elements such as screening pharmacology and electrocardiography As an American College of Sports Medicine publication the text offers the unsurpassed quality and excellence that has become synonymous with titles by the leading exercise science organization in the world

Handbook of Burns Volume 2 Lars-Peter Kamolz, Marc G. Jeschke, Raymund E. Horch, Markus Küntscher, Pavel Brychta, 2012-07-26 This volume compiles the perspectives of a multi author team examining the entire spectrum of burn reconstruction and long term treatment Individual chapters cover basic aspects of wound healing and scarring and those of plastic surgery relating to tissue rearrangement and the use of flaps as well as the long term use of skin and skin substitutes Furthermore topics such as rehabilitation and scar management are addressed in detail This part provides detailed reconstruction guidelines divided by anatomic region e g face hands as well as aspects of future trends and prospects in burn reconstruction among which are e g allotransplantation and bionics

Equine Sports Medicine and Surgery - E-Book Kenneth W Hinchcliff, Andris J. Kaneps, Raymond J. Geor, Emmanuelle Van Erck-Westergren, 2023-12-15 Get evidence based guidelines to keeping athletic horses healthy and physically fit Equine Sports Medicine and Surgery 3rd Edition provides a comprehensive guide to exercise physiology and training within a clinical context along with a detailed review of all diseases affecting horses participating in racing and competition Not only does this text discuss the physiological responses of each body system to exercise but it covers nutritional support the prevention of exercise induced disorders and lameness and modification of training regimens New to this edition are topics such as drug effects on performance and the use of cloud based technologies for monitoring performance as well as new content on exercise physiology welfare conditioning farriery behavior and vision Written by an expert team of international authors each print purchase of this this authoritative all in one resource comes with an ebook NEW Chapters in this edition include History of Equine Exercise Physiology Welfare of Equine Athletes in Sport and the Social License to Operate The Connected Horse

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for youth body dimensions This book serves as a means of focusing and unifying approaches to performing pediatric exercise testing in order to lay the foundation for new and innovative approaches to exercise testing in the health care of children and adolescents

Ruppel's Manual of Pulmonary Function Testing - E-Book Carl Mottram, 2022-02-01 Selected for Doody's Core Titles 2024 in Respiratory Therapy Master pulmonary function testing procedures and prepare for PFT credentialing exams Ruppel's Manual of Pulmonary Function Testing 12th Edition provides comprehensive coverage of common pulmonary function tests testing techniques and the pathophysiology that may be evaluated by each test It also includes information on equipment measurement software reference values and quality assurance so you can develop the testing skills you need to find and assess lung abnormalities and conditions such as asthma COPD and emphysema Written by Carl D Mottram a well known expert in pulmonary function procedures this bestselling guide helps you get accurate test results every time Entry and Advanced Level objectives prepare you for success on the NBRC's Pulmonary Function Technologist credentialing examinations and follow the content guidelines of the CPFT and RPFT exam matrices from the National Board for Respiratory Care How To boxes provide step by step guidelines to performing pulmonary function tests taking the guesswork out of completing accurate and result producing tests Case studies provide problem solving challenges for real life patient scenarios including each case history PFT testing results a technologist's comments and questions and answers PFT Tips highlight and reinforce the most important pulmonary function testing information in every chapter Convenient study features include key terms chapter outlines learning objectives chapter summary points suggested readings a glossary and self assessment questions Authoritative all in one resource eliminates the need to search for information in other sources Criteria for acceptability and repeatability are included in each test section as well as interpretive strategies to help you adhere to recognized testing standards

Comprehensive Electrocardiology Peter W. Macfarlane, Adriaan van Oosterom, Olle Pahlm, Paul Kligfield, Michiel Janse, John Camm, 2010-11-05 New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies

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