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DESCRIPTION:

Get evidence-based guidelines to keeping athletic horses healthy and physically fit! Equine Sports Medicine & 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 used 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. Written by an expert team of international authors led by Dr. Kenneth W. Hinchcliff, this authoritative, all-in-one resource is also available as an eBook on Expert Consult.

New to this edition:

- NEW! New chapters in this edition include:

History of Equine Exercise Physiology

Farriery and Shoeing of the Equine Athlete

Transportation of Athletic Horses

Investigating Causes of Death During Exercise

Behaviour and Behavioural Abnormalities in Horses Used for Racing and Competition

Welfare of Horses Used in Racing and Competition

The Connected Horse on innovative, cloud-based technologies used to monitor horses during racing/competition and training

Track and Course Design

Principles of Regulation of Drug Use in Competition Horses

Detection of Drug Use in Performance Horses

Drug Effects on Performance

Epidemiology and Control of Infectious Diseases in Populations of Equine Athletes

Key Features:

- Comprehensive coverage is based on sound research and evidence-based practice, and provides an understanding of the physiologic processes underlying the responses of horses to exercise and physical conditioning, from musculoskeletal and respiratory disorders to nutrition and physical rehabilitation.

- International perspective on equine athletics includes guidelines pertinent to different geographic areas and racing jurisdictions.

- Complementary and alternative therapies are explored, as well as physical therapy and chiropractic therapy for athletic horses.

- Coverage of abnormalities of the upper airway is now divided into two chapters: Disease of the Nasopharynx and Diseases of the Larynx and Trachea.

- Coverage of diseases of the heart is divided into two chapters: Arrhythmias in Equine Athletes and Structural Heart Disease of Equine Athletes.

- Nearly 900 drawings and clinical photos depict equine anatomy, testing, and treatment scenarios.

- High-quality artwork includes new radiographic, ultrasonographic, CAT scan, and MRI images to aid understanding and diagnosis.

- Expert Consult website includes a fully searchable version of the entire text with each new print purchase.

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Section 1: Integrative physiology and exercise testing

NEW! History of equine exercise physiology

The horse as an athlete

Laboratory exercise testing

Exercise testing in the field

Genetic basis of equine performance

NEW! Farriery and shoeing of the equine athlete

NEW! Transportation of athletic horses

Section 2: Musculoskeletal system

Epidemiology of orthopaedic diseases in athletic horses

Muscle physiology: responses to exercise and training

Muscle disorders of equine athletes

Skeletal physiology: responses to exercise and training

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Biomechanics of locomotion in the athletic horse

Joint physiology: response to exercise and training

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The carpus

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Nutrition for the equine athlete: above and beyond nutrient requirements

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Thermoregulation and exercise-associated heat illnesses

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NEW! Investigating causes of death during exercise

Section 8: Gastrointestinal System

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Section 9: Veterinary management of the performance horse **Veterinary aspects of training Thoroughbred racehorses**

Veterinary aspects of training horses used for harness racing (trotters and pacers)

Veterinary aspects of training event horses

Veterinary aspects of training dressage horses

Veterinary aspects of training and racing endurance horses

Veterinary aspects of training and competing polo horses

Veterinary aspects of training and competing Western performance horses

Veterinary aspects of training the showjumping horse

Investigating causes of death during exercise

NEW! Behaviour and behavioural abnormalities in horses used for racing and competition

NEW! Welfare of horses used in racing and competition

NEW! The connected horse - discussing innovative, cloud-based technologies for use in monitoring horses during racing/competition and training

NEW! Track and course design

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Anesthesia of the equine athlete

NEW! Principles of regulation of drug use in competition horses

NEW! Detection of drug use in performance horses

NEW! Drug effects on performance

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NEW! Epidemiology and control of infectious diseases in populations of equine athletes

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Equine rehabilitation: chiropractic therapy for athletic horses

Physical treatment of the equine athlete

Appendix 1a - Reference ranges for the leukogram of athletic horses

Appendix 2 - Reference ranges for serum biochemical variables in athletic horses

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