

Reference Number	C-E.2
Module Title	Equine Cardiovascular and Respiratory Disease
Category and Value	C – 10 credits
Study Hours	100

Introduction

This module will cover the principles of cardiovascular and respiratory disease, cardiovascular disorders, non-infectious disorders of the respiratory tract, infectious respiratory disease and preventive health. It is aimed at practicing equine veterinarians.

This module is one of four C-modules covering Equine Medicine, which can be used towards a designated Certificate in Advanced Veterinary Practice (Equine Medicine). Candidates are advised to consult the list of available modules for the complete set of options. Upon completion of all the necessary modules, a further synoptic assessment will also be required to achieve a designated certificate.

It is recommended that candidates complete Foundations of Advanced Veterinary Practice (A-FAVP.1) and Equine Practice (B-EP.3) prior to this module, as they provide essential postgraduate training in literature critique and evidence-based medicine (required for journal clubs and assessments) and fundamental training in reflective and evidence-based writing, and clinical reasoning, required for case-based assessments.

Aims

The aims of this module are to develop knowledge/skills of disease and disorders involving the cardiovascular and respiratory systems in horses and their management, including preventive health strategies.

Learning Outcomes

By the end of this module successful candidates will be able to:

1. using case-based examples, systematically apply the principles of equine cardiovascular and respiratory physiology and disease to the practice situation incorporating clinical reasoning skills and evidence based veterinary medicine;
2. synthesise appropriate protocols for diagnosis, treatment and control of different types of equine cardiovascular and respiratory diseases;
3. critically appraise literature relevant to the respiratory and cardiovascular systems and explain how the literature can be used to inform practice;
4. critically review and reflect on your clinical work, including identifying potential clinical audit points translating to new protocols or measurable outcomes;

5. apply your knowledge of infectious respiratory disease to design preventive health care for horses, including consideration of disease control regulations of regulatory bodies in the equestrian industry.

This module will also incorporate the generic skills of evidence-based medicine, clinical reasoning, literature review and critique, communication, clinical audit and reflection.

Module Content

Principles of cardiovascular and respiratory disease

- Anatomical, physiological, immunological and pathological processes involved in cardiorespiratory disease.
- The relationships between the cardiovascular and respiratory systems and the overall health status of the patient.
- The principles and practical application of equine exercise physiology.

Cardiovascular and respiratory disease diagnosis, management and prevention

- Clinical presentation and diagnosis of disease of the equine cardiorespiratory system and their relationship to underlying pathophysiology and host-pathogen interactions.
- A problem-orientated approach to presenting signs such as:
 - Reduced exercise tolerance
 - Respiratory noise
 - Nasal discharge
 - Epistaxis
 - Coughing
 - Respiratory distress
 - Cardiac rhythm disturbances
 - Cardiac murmurs
- Treatment and prevention of diseases of the equine cardiorespiratory system
- Preventive health care relating to the equine cardiorespiratory disease, including consideration of disease control regulations of organisations such as the British Horseracing authority (BHA) and Fédération Equestre Internationale (FEI).

Assessment Strategy

Module providers are responsible for deciding on assessment strategies and methods, subject to accreditation by RCVS.