

<b>Reference Number</b>	C-E.4
<b>Module Title</b>	Equine Neuromuscular, Behaviour and Special Senses
<b>Category and Value</b>	C – 10 credits
<b>Study Hours</b>	100

## Introduction

This module will cover equine ophthalmology and neuromuscular disease in the equine patient. 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 increase depth of knowledge of disease and disorders involving the equine nervous system and eyes as well as to develop an understanding of stress, pain and suffering in the horse.

## Learning Outcomes

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

1. Critically evaluate the pathophysiology and clinical disease syndromes, and the approach to diseases affecting the eye and neuromuscular systems of the horse.
2. Critically appraise the physiology of pain, suffering and stress in the horse to compare and contrast stress and pain in the horse.
3. Apply clinical reasoning skills and evidence-based medicine in the diagnostic approach and management of diseases relevant to the topic covered.
4. Critically appraise the literature relevant to clinical cases in the topics covered and how the literature can be used to inform practice.
5. Critically reflect on the appropriate case for onward referral.

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**

### **Equine Ophthalmology**

- Ocular anatomy, immunology and physiology
- The ocular examination
- Ophthalmic and periocular diseases
- Clinical presentations: visual deficits, ocular and periocular discharge, ocular pain

### **Equine Neuromuscular Disease**

- Equine neuroanatomy
- The neurological examination
- Neurological diseases: Brain, cerebellum, brainstem, spinal cord and peripheral nerve disease
- Myopathies and muscular disorders
- Clinical presentations: ataxia, paresis, muscle atrophy, sensory deficits, abnormalities of balance, trembling, seizures, sleep disorders, altered states of consciousness and mentation, deafness, pain or swelling and myopathy.

### **Equine Headshaking**

- Pathophysiology and relevant neuroanatomy of headshaking
- Clinical presentation, diagnosis and treatment of headshaking

### **Equine pain and stress**

- Physiology of pain and suffering and stress
- Clinical indicators of pain on the horse
- Stress versus pain
- Minimising stress

## **Assessment Strategy**

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