

## C-E.3 Equine General Medicine

**Credits:** 10 (100 hours)

**Provider:** Veterinary Postgraduate Unit – Institute of Veterinary Science

### RCVS Content Covered

The following outlines the modular content as set out by the RCVS.

At the end of the module, candidates should be able to:

- Demonstrate thorough understanding of the anatomical, physiological, immunological and pathological processes involved in diseases of the hepatobiliary, urinary, haematopoietic and haemolymphatic systems, and endocrinological and dermatological disorders, including the relationships between these body systems and the overall health status of the patient.
- Show familiarity with principles and practical application of oncology.
- Show thorough familiarity with the clinical presentation, diagnosis, treatment and prevention of diseases of the equine hepatobiliary, urinary, haematopoietic and haemolymphatic systems, and equine endocrinological and dermatological disorders.
- Demonstrate understanding and promote concepts of a problem-orientated approach in horses of all age groups presenting with liver failure, hepatic encephalopathy, jaundice, dysuria, urinary incontinence, discoloured urine, polydipsia/polyuria, anaemia, thrombocytopenia, purpura, vasculitis, lymphangitis, immunodeficiency states and skin lesions.
- Review and constructively criticise current literature in the subject area, to enable them to determine its relevance to their current practice.
- Utilise their understanding of Evidence Based Medicine and Decision Analysis to develop practical diagnostic and treatment protocols for their patients.
- Use available resources and communicate with owners in such a way as to achieve optimum results in their practice circumstances in relation to general medicine cases.
- Review the outcomes of at least part of their clinical work, using the process of clinical audit to improve performance.
- Recognise when a case is truly unusual, and become familiar with the information resources available to enable them to deal with such cases.
- Recognise when a case is beyond their personal or practice capabilities, and provide an effective channel of referral.

### Aim of the Module

The aims of this module are to increase your depth of knowledge of disease and disorders involving the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems using a problem orientated approach. This module will also incorporate the generic skills of evidence based medicine, clinical reasoning, literature review and critique, communication, clinical audit and reflection.

## Learning Outcomes

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

1. in-depth understanding of the anatomical, physiological, immunological and pathological processes involved in diseases of the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems;
2. application of the processes involved in of diseases of the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems in the synthesis of appropriate protocols for diagnosis, treatment and control disease affecting these systems;
3. clinical reasoning skills and the use of evidence based medicine in the decision making process of diagnostic approach and management of diseases of the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems;
4. competence in application of a problem-orientated approach in horses of all age groups presenting with liver failure, hepatic encephalopathy, jaundice, dysuria, urinary incontinence, discoloured urine, polydipsia/polyuria, anaemia, thrombocytopenia, purpura, vasculitis, lymphangitis, immunodeficiency states and skin lesions;
5. the ability to critically appraise literature relevant to the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems and discuss how the literature can be used to inform practice;
6. the ability to critically review and reflect on your clinical work, including identifying potential clinical audit points translating to new protocols or measureable outcomes;
7. the ability to independently research and critically review the literature to provide evidence to support current or revised protocols for diagnosis or management of diseases affecting the hepatobiliary, urinary, haematopoietic, haemolymphatic, endocrine and integumentary systems.

## Module Structure

The module is divided into 6 study units:

### **Study Unit 1** Hepatobiliary

*Clinical problems:* liver failure, hepatic encephalopathy, jaundice.

### **Study Unit 2** Urinary

*Clinical problems:* dysuria, urinary incontinence, discoloured urine, polydipsia/polyuria

### **Study Unit 3** Haematopoietic

*Clinical problems:* anaemia, thrombocytopenia.

### **Study Unit 4** Haemolymphatic (and oncology)

*Clinical problems:* purpura, vasculitis, lymphangitis, immunodeficiency states.

### **Study Unit 5** Endocrine

### **Study Unit 6** Dermatology

*Clinical problems:* skin lesions

## Assessment Strategy

2 x open book examination using a range of short answer questions, 2 x reflective case reports (1500 words each) and 1 x journal critique/journal club presentation (pass/fail)

PLEASE NOTE: It is your responsibility to ensure that you have access to sufficient appropriate cases where you were the primary decision maker to produce adequate material for the module. This may not be possible with some internship positions. You must also be aware of any limitations of your facilities that may make the accumulation of appropriate cases difficult or impossible.