

<b>Reference Number</b>	C-E. 9
<b>Module Title</b>	Mare Reproduction and Breeding Management
<b>Category and Value</b>	C – 10 credits
<b>Study Hours</b>	100

## Introduction

This module will cover reproductive physiology and breeding management together with reproductive diseases and disorders of the mare. This will include infertility, pregnancy, parturition, and assisted reproduction techniques. It is aimed at practicing equine veterinarians.

This module is one of three C-modules covering Equine Stud Medicine, which can be used towards a designated Certificate in Advanced Veterinary Practice (Equine Stud 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 aim of this module is to develop an in-depth knowledge of the underlying theory and practically apply this knowledge to reproduction and breeding management of the mare.

## Learning Outcomes

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

1. using case-based examples, systematically apply the principles of mare reproductive physiology and disease to the practice situation incorporating clinical reasoning skills and evidence based veterinary medicine;
2. synthesise appropriate protocols for diagnosis, treatment and management of different types of reproductive problems and assisted reproductive techniques in the mare;
3. apply protocols for management of reproductive problems and assisted reproductive techniques in the mare, incorporating evidence from the diagnostic database and scientific literature as well the ability to appropriately adapt to client, animal and practice factors;
4. critically appraise literature relevant to clinical cases in the topics covered and discuss how the literature can be used to inform practice;

5. reflect critically on clinical work, recognising the truly unusual case and when a case is beyond personal or practice capabilities.

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

## **Module Content**

### Reproductive Physiology

- Physiology and control of the oestrous cycle;
- Breeding soundness examination and other diagnostic procedures;
- Disorders of the ovary and oviduct;
- Disorders of the uterus.

### Pregnancy

- Physiology of pregnancy and pregnancy diagnosis;
- Management of the pregnant mare and twinning;
- Pregnancy loss and abortion in the mare;
- Conditions, monitoring, and treatment of the mare in late pregnancy.

### Parturition

- Normal parturition and induction;
- Dystocia;
- Periparturient complications;
- Post-parturient diseases and postpartum breeding.

### Assisted Reproduction, and other reproductive tract disorders

- Artificial Insemination in the mare;
- Embryo transfer and assisted reproduction;
- Congenital abnormalities of the reproductive tract and disorders of the cervix;
- Selected surgical techniques of the mare's reproductive tract

## **Assessment Strategy**

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