

## C-E.9 Mare Reproduction and Breeding Management

**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.

- Normal structure and function of the genital tract during the oestrus cycle, and endogenous and exogenous endocrine control of cyclicity.
- Diagnosis, treatment and management of clinical conditions affecting the structure and function of genital organs and fertility.
- The physiology of normal pregnancy, including the techniques of pregnancy diagnosis and assessment of foetal health.
- The causes of pregnancy loss and abortion.
- Diseases of pregnancy.
- Clinical and endocrine aspects of normal parturition.
- Dystocia, caesarean section and foetotomy.
- Post-partum problems in the mare.
- Examination of the placenta.
- Diagnostic and surgical procedures applicable to broodmares.
- Management and care of the broodmare.
- Common gynaecological and non-gynaecological conditions of the broodmare, including genetic disorders.
- Familiarity with the HBLB Codes of Practice.
- Artificial insemination and embryo transfer in the mare.

### Aim of the Module

The aim of this module is to consolidate and advance undergraduate and practice experience to develop and practically apply knowledge to reproduction 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.

## Module Structure

This module is divided into 4 Study Units as outlined below:

### UNIT 1 Reproductive Physiology, Examination of the Mare, infertility

- Physiology and control of the oestrus cycle
- Breeding soundness examination of the mare and other diagnostic procedures
- Infertility 1-Disorders of the ovary and the oviduct
- Infertility 2-Disorders of the uterus

### UNIT 2 Pregnancy

- Pregnancy physiology and diagnosis
- Management of the pregnant mare
- Abortion in the mare
- Monitoring, conditions and treatment of the late term pregnant mare

### UNIT 3 Parturition

- Normal parturition and induction
- Periparturient complications
- Dystocia
- Post-parturient disease and the post-partum breeding mare

### UNIT 4 Assisted Reproductive Techniques and Other Reproductive Tract Disorders

- Artificial insemination in the mare
- Embryo transfer in the mare
- Congenital abnormalities of the reproductive tract and disorders of the cervix
- Selected surgery of the reproductive tract

## Assessment Strategy

2 x open book examinations 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.