

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

## Introduction

This module will cover the reproductive physiology of stallions, diseases, and disorders of the stallion's reproductive tract, and artificial insemination. 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 the ability to practically apply this knowledge to reproduction in the stallion and breeding management.

## Learning Outcomes

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

1. demonstrate in-depth understanding of reproductive physiology in the normal stallion including endocrine control;
2. demonstrate a critical awareness of the pathological process involved in stallion reproductive problems including infertility;
3. demonstrate application of a sound clinical reasoning process in the approach to breeding management, assisted reproductive techniques and reproductive problems, incorporating evidence from the diagnostic database and scientific literature as well as 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. demonstrate critical reflection 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 and breeding soundness evaluation;**

- Reproductive anatomy and physiology of the stallion;
- Breeding soundness examination;
- Semen collection and evaluation;
- Microbiology and transmission of diseases through semen;
- Management of the breeding stallion and stallion behaviour.

### **Reproductive tract abnormalities and causes of infertility**

- Infertility in the Stallion;
- Reproductive conditions of the stallion: The testicle;
- Reproductive conditions of the stallion: The penis;
- Reproductive conditions of the stallion: The accessory sex glands and miscellaneous conditions;
- Surgical procedures of the male reproductive tract.

### **Artificial Insemination**

- Artificial insemination with fresh and chilled semen;
- Artificial insemination with frozen semen;
- Advanced methods in semen preparation;
- Preservation of stallion genetics;
- Equine genetics and significance for the equine industry.

## **Assessment Strategy**

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