

## C-E.10 Stallion Reproduction and Breeding Management

**Credits:** 10 (100 hours)

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

### RCVS Content Covered

Click [here](#) to view the module content as outlined by the RCVS.

### Aim of the Module

The aim of this module is to develop an in-depth knowledge of the underlying theory and practical approach to reproduction in the stallion and breeding management.

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

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

1. critically evaluate normal stallion reproductive physiology, including endocrine control, and pathophysiology to the diagnostic evaluation and treatment of reproductive problems including infertility;
2. apply clinical reasoning skills and evidence-based medicine in the approach to breeding management, assisted reproductive techniques and reproductive problems;
3. critically appraise the literature relevant to clinical cases in the topics covered, and how the literature can be used to inform practice;
4. critically reflect on the appropriate case for onward referral.

### Module Structure

The syllabus will be divided into 3 study units, preceded by an introductory week, each containing basic lecture and reading material supported by weekly interactions in the form of asynchronous case-based discussions, other discussions and/or synchronous journal clubs/literature critiques.

#### Study Unit 1: Reproductive Physiology and Breeding Soundness Evaluation

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

#### Study Unit 2: 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 the significance for the Equine Industry

### **Study Unit 3: Reproductive tract abnormalities and causes of infertility**

- Reproductive conditions of the stallion: the testicle
- Reproductive conditions of the stallion: the penis
- Infertility in the stallion
- Surgical procedures of the reproductive tract
- Other problems in the stallion

### **Assessment Strategy**

- **2 x 1500-word reflective case reports (60%)**  
On a topic related to the relevant study units, students are required to reflect on their own practice, using evidence-based veterinary medicine to inform their reflection. Reflective case reports are written following the format of published case reports in the veterinary literature. The case report component of the assessment must be passed for successful completion of the module, and is non-compensatory with other assessments, however there is compensation between case reports. Case reports are also submitted to a discussion board for critique and discussion by/with peers. A proportion of marks for this assessment are also allocated to this discussion element.
- **1 x 1-hour open book examination (30%)**  
Based around clinical scenarios/cases, relevant to the module study units.
- **1 x written journal critique (not more than 500 words) and short oral presentation of the critique (15 minutes) (10%)**  
Hosted by a staff member online synchronously using MS Teams. Students present their critique to the group, and the tutor and the students then hold a discussion of all papers. These are assessed on the submitted critique as well as the discussion.
- **1 x case log – 10 cases (pass/fail)**  
The case log assessment is designed to assist the candidate in developing a solid foundation for everyday equine practice and demonstrate the necessary knowledge and skill base in the clinical setting.

Assessments are submitted sequentially with feedback being given between assessments to aid in the development of writing skills.

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.