

## B-PAP.2 Production Animal Practice

**Credits:** 10 (100 hours)

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

### RCVS Content Covered

The following is an abbreviated outline of the modular content as set out by the RCVS.

The scope and level of study which candidates will need to undertake in order to achieve the intended Learning Outcomes will depend on their existing familiarity with the topics, their individual learning needs, the production animal species being studied and the educational approach taken by module providers. The topics listed below are indicative of the required areas of study – they are not intended to be prescriptive and they should be viewed in the context of the production animal species being studied.

#### **Evaluation and management of clinical cases and population/herd/flock health disease problems**

- Application of evidence-based veterinary medicine
- Selection of appropriate laboratory diagnostic procedures and interpretation of results
- Diagnostic imaging, including radiology and diagnostic ultrasound
- Fertility and reproduction management, including approaches to pregnancy diagnosis where appropriate
- Disease dynamics in populations

#### **Therapeutics and surgical practice**

- Clinical pharmacology
- Surgical practice, including pre-operative evaluation, aseptic techniques, peri-operative analgesia, post-operative care and client education.
- Anaesthetic management, including pre-anaesthetic assessment, sedation, analgesia, anaesthetic equipment, monitoring and supportive measures, recovery/post operative care.

#### **Population health and welfare**

- Welfare, nutrition and husbandry
- Health and disease surveillance
- Population/herd/flock health planning and disease control
- Information technologies for improving animal health and production (for example, specific software analyses and farm databases)

## Aim of the Module

The aims of this module are to:

1. develop in depth knowledge of diseases or disorders of ruminant farmed animals including consideration of the principles of management, handling and restraint, preventative medicine and diagnostic procedures;
2. develop clinical reasoning and evidence based medicine to an advanced level;
3. develop communication skills in case management and critical reflection to professional peers.

## Learning Outcomes

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

1. demonstrate an in depth knowledge, and systematic approach to clinical problems in production animal practice utilising advanced clinical reasoning skills and evidence based medicine;
2. demonstrate a critical awareness of the techniques and developments at the forefront of production animal practice and an ability to systematically review the literature;
3. demonstrate a comprehensive understanding of the communication skills required to present case reports, including the ability to present information logically, concisely, discriminating between useful and extraneous information, and the ability to discuss the findings in the light of appropriately sourced literature;
4. demonstrate critical evaluation of issues raised by a case or clinical problem, or the subsequent review of the literature, and the application of learning into practice.

## Module Structure

The module will be divided into 5 study units:

**Study Unit 1.** This unit will explore the economies of the dairy, beef and sheep sectors, and review the principles and approach to assessment of appropriate housing, nutrition, behaviour, handling and transport. Legislative codes in relation to the production animal industry are reviewed.

**Study Unit 2.** This unit will cover the principles of reproduction and breeding, including oestrus cycle and manipulation, reproductive technologies and dystocia, in addition to the basic approach to herd or flock fertility assessment.

**Study Unit 3.** This unit will cover preventative medicine and biosecurity, with a focus on the principles of epidemiology, flock or herd health planning and accredited health schemes. A reminder of zoonotic and notifiable diseases will be provided.

**Study Unit 4.** This unit will explore the approach to diagnosis and disease, both in the individual animal as well as the herd or flock, including diagnostic tools.

**Study Unit 5.** This unit will review the principles of therapeutics and common surgical procedures, including antimicrobial and anthelmintic selection and resistance, medicine use and legislation in food producing animals, and the principles of surgery, anaesthesia and analgesia.

## Assessment Strategy

4 x reflective case reports (1500 words) 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.