Ref. No.	C –C.7
Title:	Cattle – Youngstock Rearing and infectious diseases
Category and Value:	C - 10 Credits
Notional Study Hours:	100

Candidates working towards the designated Certificate in Advanced Veterinary Practice (Cattle) will need to complete the following modules: A-FAVP.1 Foundations in Advanced Veterinary Practice, B-PAP.2 Production Animal Practice, C-C.6 Cattle – Bovine Mastitis and Lameness and at least two other Cattle C modules (from C-C.4, C-C.5 and C-C.7) plus one other C module which may be a fourth cattle module. Upon completion of all the necessary modules, a further synoptic assessment will also be required.

Aims

The aim of this module is to enable the candidate to extend and consolidate clinical knowledge and skills gained at undergraduate level, so that they can apply this knowledge to the management of the health of youngstock in beef and dairy herds, and the diagnosis and treatment of diseases of young cattle. The candidate will be able to evaluate their own standards of practice and develop strategies for continuous improvement in the future.

Learning outcomes

At the end of this module delegates should be able to:

1. Explain in detail the management and monitoring of diseases in youngstock. Understand the role of the veterinary surgeon in heifer and beef rearing programmes and be able to plan a heifer rearing strategy
2. Apply in depth knowledge of the aetiology, pathology, diagnosis, differential diagnosis, treatment, prognosis and control of common and emerging diseases affecting beef and dairy youngstock in the UK;
3. Understand the legislation relating to the health, management, and welfare of cattle and food production in the UK
4. Perform sedation/anaesthesia (regional and general) and simple surgical procedures in dairy and beef youngstock
5. Write professional reports to farmers and/or veterinary surgeons
6. Create a herd health plan specific to the needs of a given herd

Module content

The Artificially reared calf – Birth to Weaning
- Problems at birth, passive immunity and colostrum
- Common calf diseases: especially alimentary and respiratory diseases; their epidemiology, recognition and treatment, including rational drug use, prevention and control

The Dairy Heifer – Weaning to Calving

- Management of calves at weaning, post weaning diseases
- Normal targets for growth
- Common diseases at grass: their epidemiology, recognition, treatment, prevention and control
- Common diseases in housed animals: their epidemiology, recognition, treatment, prevention and control
- Puberty and factors controlling its onset, weight and condition score at service
- Reproductive problems, congenital abnormalities, acyclicity, poor pregnancy rates

Suckled Calf Production
- Management of replacement heifers for optimum fertility
- Common diseases of suckled calves: diagnosis, treatment and prevention

Common and Emerging Diseases
- Epidemiology, recognition, treatment, prevention and control of the common and emerging diseases including, IBR, BVD, Lepto, Neospora, Salmonella, Johne's disease, TB, Schmallenburg, Bluetongue.
- Herd economic assessment of disease and disease prevention; herd health preventative medicine schemes
- Recording systems for monitoring disease: analysis of health records and targets for disease incidence

Assessment strategy for this module
- One outline herd-specific health plan (1500 words) to be produced by the candidate for a cattle farm they have direct contact with, which covers the major areas of production on the farm. This should not be a farm assurance document.
- A case book of two cases, each of up to 1500 words length. These cases should be selected to demonstrate the candidate's ability to use the competences that have been acquired to cope with a challenging situation, rather than using classic "textbook cases" of particular conditions.
- Short answer test and or MCQs (1 hour)