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| REF NO | B-ZM.6 |
| TITLE | ZOOLOGICAL MEDICINE |
| CATEGORY AND VALUE | B - 10 CREDITS |
| NOTIONAL STUDY HOURS | 100 |

Candidates working towards the designated Certificate in Advanced Veterinary Practice (Zoological Medicine) will need to complete the A-Professional Key Skills module, the B-Clinical Key Skills module, this B module in Zoological Medicine and three of the five available C-Zoological Medicine modules. Upon completion of all the necessary modules, a further synoptic oral assessment will also be required.

LEARNING OUTCOMES

Please refer to the General Guidance and Assessment for all Modules document.

Candidates should have a sound grounding in the areas of practice listed below. They also need develop the skills needed to create case studies that demonstrate the following competencies:

- The written communication skills required to present case studies
- An ability to demonstrate their competence in the area under discussion
- Reflective skills that enable them to understand the issues raised by the case and what they learnt from it.

ASSESSMENT STRATEGY FOR THIS MODULE

It is suggested that this module could be assessed by the following methods:

- Five case reports of 1000 words covering 5 of the following 8 categories, and involving species, or groups of species, from at least 3 of these taxonomic groups: mammals, birds, reptiles and amphibia, fish, invertebrates
- Reflective essay on how studying for the module has helped the candidate improve exotic animal welfare and/or conservation

Candidates will need to present a minimum of 5% exotic/zoo/ wildlife case load during the previous two years for this module.

SYLLABUS CONTENT

1. Management, Behaviour and Legislation

- Housing/confinement/holding pen design
- Welfare (5 freedoms)
- Handling/movement techniques (Humane)
- Legislation affecting subject/welfare e.g. Secretary of States Standards of Modern Zoo Practice, CITES enforcement, Wildlife and Countryside Act

2. Nutrition

- Principles of nutrition in wildlife and exotic species
- Methods of supplementing diets
- Methods of calculating energy requirements and metabolic quotients

3. Anaesthesia

- Principles of anaesthesia
- Overview of anatomical differences relevant to anaesthesia (e.g. birds vs mammals vs fish vs reptiles etc.)
- Chemical restraint and anaesthesia. Choice of chemicals. Health and safety (especially etorphine).
- Remote injections (darts, blowpipes and rifles)
- Inhalation agents and circuits. IPPV. Injectables vs. inhalants.
- Monitoring equipment

4. Diagnostics

- Blood sampling sites and techniques
- Faecal assessment
- Radiography/MRI/CT
- Ultrasonography
- ECG
- Haematology/biochemistry assessment (species variations)
- Endoscopy

5. Common Diseases including Zoonoses

- Overview of conditions seen according to species blocks
- Diseases affecting individuals, groups and/or populations
- Zoonoses, e.g. psittacosis, yersiniosis, primate viral diseases etc.

6. Surgery

- Principles of surgery including asepsis, wound healing and repair
- Comparative surgical considerations for mammals, birds, reptiles and fish
- Common procedures in exotic pets, zoo animals and fish.

7. Therapeutics

- Routes of administration of drugs according to species (IM/SC/IP/IO/IV sites)
- Fluid therapy
- Commonly used antimicrobials in different taxa
- Analgesics

8. Conservation

- Biodiversity and the objectives of conservation efforts
- Effect of mankind on individual species and habitats
- Disease and population dynamics
- *in situ versus ex situ* conservation programmes