

<b>REF NO</b>	<b>B-ZM.6</b>
<b>TITLE</b>	<b>ZOOLOGICAL MEDICINE</b>
<b>CATEGORY AND VALUE</b>	<b>B - 10 CREDITS</b>
<b>NOTIONAL STUDY HOURS</b>	<b>100</b>

Candidates working towards the designated Certificate in Advanced Veterinary Practice (Zoological Medicine) will need to complete the A-Foundations in Advanced Veterinary Practice module, this B module in Zoological Medicine and three of the five available C-Zoological Medicine modules and a “free choice” module, which may be another Zoological Medicine module. 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