

REF. NO.	C –ZM.2
TITLE:	ZOOLOGICAL MEDICINE ZOO ANIMALS
CATEGORY AND VALUE:	C - 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, the B-Zoological Medicine module 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.

ASSESSMENT STRATEGY FOR THIS MODULE

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

- A **case log** of fifty cases for this C module. These cases should not be used for any other modules the candidate may take. The log should comprise a list of cases seen, dates when the cases were seen and outcome of each case. The log is meant only to document that these cases were seen and no details will be required to put in the case log. These cases should demonstrate that the candidate has seen a reasonable number of cases in practice while studying for the module and is not relying on information gained solely from classical textbooks on the subject.
- Two Essay questions (out of a choice of 5 questions) will need to be satisfactorily completed before the full qualification is awarded. These will be set in an exam situation
- Once the essay questions have been satisfactorily completed, then candidates will attend a PowerPoint quiz where short answers to the 'spots' will be required.

MODULE CONTENT

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

- Thoroughly understand the triage methods, pre-release assessment, varying release methods, common diseases seen, principles of disaster medicine, post-mortem techniques and anaesthesia and monitoring relevant to wildlife species.
- Review and constructively criticise current literature on the specialty, to enable them to determine the relevance to their current practice
- Utilize their understanding of Evidence Base Medicine and Decision Analysis to develop practical approaches to dealing with wildlife species.
- Recognize when a case is truly unusual and become familiar with information resources available to enable them to deal with such cases
- Recognize when a case is beyond their personal or practice capabilities for continued testing and monitoring.

SYLLABUS CONTENT

1 BIOLOGY

Species commonly seen and their classification
Knowledge of evolutionary relationships of vertebrates and some knowledge of the classification of invertebrates

Ecology, population and conservation biology
Knowledge of the biology, population dynamics, status and distribution in the wild of the commonly seen zoo animals and be familiar with conservation issues concerning them

Anatomy and physiology
Knowledge of the diversity in anatomy and physiology within the animal kingdom

Behaviour
Knowledge of normal behaviour and social structures of a range of zoo species

2 HUSBANDRY

Housing, management and restraint
Knowledge of important aspects of housing, breeding management, restraint (physical and chemical), capture and transport

Nutrition
*Knowledge of feeding and nutritional requirements of a range of zoo species
Clinical conditions which arise from deficiencies/excesses*

Welfare and ethics
Knowledge of potential welfare issues and the ethical debate on the capture and maintenance of wild animals in zoos

Law
Candidates should be aware of the Zoo licencing Act and the Secretary of States Standards for Modern Zoo Practice as well as legislation relevant to health and safety, transport of animals, and notifiable diseases

3 DISEASE

Common infectious and non-infectious diseases, diagnoses and treatments in the following :-

Mammals

Birds

Reptiles

Amphibians

Fish

Invertebrates

Disease surveillance

Quarantine techniques

Post-mortem techniques and clinical pathology

Post mortem *Basic technique for diagnostic post mortems*
Samples required for a diagnosis to be achieved

Clinical Pathology *Significant differences in haematology and biochemistry*
from other domestic species to be understood
Knowledge of what samples should be taken in order
for a diagnosis to be made

Zoonoses

An appreciation of the significant zoonotic conditions carried by common zoo
animals

Knowledge of the routes of transmission and safe practice to prevent zoonotic
spread

4 ANAESTHESIA

Anaesthesia and monitoring

Pre-anaesthetic procedures and assessment of the patient

Induction techniques including remote delivery of drugs

Maintenance of anaesthesia, circuits used, methods of intubation

Monitoring of anaesthetic depth

Recovery and post-anaesthetic management

Knowledge of how differences in anatomy and physiology affect anaesthesia

Medicine and Surgery

Common medical and surgical procedures