

# The Hebrew University of Jerusalem

Syllabus

# ZOO AND WILDLIFE MEDICINE 2 WEEK ROTATION - 65769

*Last update 14-09-2023* 

HU Credits: 2

<u>Degree/Cycle:</u>

Responsible Department: Veterinary Medicine

<u>Academic year:</u> 0

Semester: Yearly

<u>Teaching Languages:</u> Hebrew

<u>Campus:</u> Rehovot

Course/Module Coordinator: Dr. Nili Avni-Magen

Coordinator Email: zoovets@jerusalemzoo.org.il

Coordinator Office Hours: by appointment

<u>Teaching Staff:</u> Dr. Nili Avni-Magen, Dr. ELAD SMIT

Course/Module description:

different wildlife species and their requirements: nutrition, handling, restraint, husbandry during hospitalization

### Course/Module aims:

• To acquire theoretical and practical knowledge in wildlife medicine, with emphasis on avian wildlife medicine.

• To be thoroughly introduced to different wildlife species and their requirements: nutrition, handling, restraint, husbandry during hospitalization.

• To learn proper physical examination for different wildlife species including birds, mammals, and reptiles (most common species: Common Kestrel, Spur-thighed tortoise, and Western European Hedgehog).

• To acquire tools for diagnosis and treatment of wildlife including diagnostic imagery (mainly radiology) and first aid techniques, including fluid administration, triage, bandaging, and medication.

• To become familiar with anesthesia protocols for different species and observe/assist in (mainly avian) orthopedic surgery (if surgeries are scheduled during rotation period).

• During the rotation, there will be an emphasis on independent clinical thought and research in new areas of wildlife medicine.

Learning outcomes - On successful completion of this module, students should be able to:

At the end of the rotation, the student will be able to and expected to:

• Recognize and identify different species of wildlife.

• Conduct independent physical examination of different avian species (and additional species depending on the season of the rotation).

• Assess the conditions of multiple animals needing simultaneous treatment, quickly evaluate prognosis of animals to survive in the wild, and prioritize the treatment of the individual cases and medical problems (triage).

• Develop a reasonable diagnostic plan and correctly interpret results, propose relevant treatment options including medication, nutrition, proposed surgical procedures, rehabilitation, anesthesia, and general husbandry, in order to best ensure successful rehabilitation and release of the animal back to

#### <u>Attendance requirements(%):</u> 100

Teaching arrangement and method of instruction: Teaching is based on accompanying the veterinarians for their routine treatments and assisting with the assessment of new admissions. During the rotation, the student will assess new cases independently and will be able to make an initial plan for treatment. The student will interpret blood test results, dermatological samples, and radiology images. Depending on caseload, the student may monitor anesthesia and assist in surgery of wild animals.

# <u> Course/Module Content:</u>

Wildlife medicine and surgery (with emphasis on avian medicine)

# Required Reading:

Additional Reading Material:

Practical wildlife care, 2nd edition, Les Stocker Reptile Medicine and Surgery, 2nd edition, Douglas Mader Exotic Animal Formulary, 4th edition, James W. Carpenter Fowler's Zoo and Wild Animal Medicine: Current Therapy, Volume 7, R. Eric Miller & Murray E. Fowler Clinical Anatomy and Physiology of Exotic Species: Structure and function of mammals, birds, reptiles, and amphibians, B. O'Malley Avian Medicine: Principles and Applications, Ritchie, Harrison, & Harrison Clinical Avian Medicine, Harrison & Lightfoot Avian medicine. 2nd edition. Jaime Samour

<u>Grading Scheme:</u> Personal Guide / Tutor / Team Evaluation 100 %

# Additional information: