



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

VET2010 Veterinary Diagnostic Imaging

3 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Demonstrate radiation safety procedures.
 - a. Describe proper use and storage of dosimetry badge and personal protective equipment.
 - b. Describe the physiologic effects of ionizing radiation.
2. Implement radiographic quality control measures.
 - a. Utilize radiographic technique charts.
3. Illustrate proper use and care of ultrasonography and endoscopic equipment.
 - a. Detail appropriate storage, cleaning and handling of ultrasonography and endoscopic equipment.
4. Exercise the ability to properly position dogs, cats, horses and birds to obtain diagnostic images.
 - a. Demonstrate use of appropriate markers and film identification methods.
 - b. Demonstrate appropriate collimation for the anatomic part being radiographed.
 - c. Identify anatomical landmarks for various radiographic views.
 - d. Demonstrate appropriate measurement of the subject and preparation of radiograph equipment to obtain diagnostic images.
5. Exercise the ability to position laboratory and exotic animals for diagnostic radiographs.
 - a. Demonstrate use of appropriate markers and film identification methods.
 - b. Demonstrate appropriate collimation for the anatomic part being radiographed.
 - c. Describe common means of restraint for exotic animal radiography.
 - d. Demonstrate appropriate measurement of the subject and preparation of radiograph equipment to obtain diagnostic images.
6. Modify diagnostic imaging techniques to accommodate mice, rats, guinea pigs, lizards and amphibians.

- a. Cite unique safety concerns for various laboratory and exotic species.
 - b. Describe routine changes made in exposure settings for laboratory and exotic patients.
7. Articulate the process of radiographic techniques utilized in screening for canine hip dysplasia.
 - a. Demonstrate adequate positioning of patients for OFA radiography.
 - b. Define the Penn-Hip method of hip evaluation.
 - c. Describe appropriate labeling of films submitted for OFA evaluation.
8. Exercise the ability to process Orthopedic Foundation of America (OFA) online applications for canine hip dysplasia.
 - a. Identify all required information on OFA applications.
 - b. Demonstrate ability to process online application.
9. Participate in the performance of routine contrast medium study (barium studies, cystography, and intravenous urogram).
 - a. Describe the indications for contrast studies.
 - b. Indicate the differences in positive and negative contrast media.
10. Utilize radiographic equipment to expose film (stationary and portable units).
 - a. Describe indications for use of portable vs. stationary units.
 - b. Recognize essential tools and techniques necessary for successful film exposure.
11. Produce quality diagnostic radiographic films.
 - a. Evaluate diagnostic quality of film.
 - b. Articulate appropriate measures to improve the diagnostic quality of a film and minimize re-takes.
12. Prepare radiographic logs, reports, files and records.
 - a. List all information which must be logged for each radiographic exposure.
 - b. Describe appropriate filing of exposed films.
 - c. Describe appropriate storage and retrieval of digital films.
 - d. Recognize radiographs as an integral part of the patient's medical record.
13. Create diagnostic dental radiographic images.
 - a. Describe positioning for various dental radiographic views.
 - b. Outline appropriate placement of dental film and accurate settings for exposure

Big Ideas and Essential Questions

Big Ideas

- Creating a diagnostic radiograph
 - proper positioning
 - safety protocols
- Students familiar with all forms of diagnostic imaging

Essential Questions

1. How has the role of Veterinary Technicians in diagnostic imaging advanced?
2. What are the roles and responsibilities of the Veterinary Technician with regards to diagnostic imaging?
3. What role do Veterinary Technicians play regarding client communication?
4. What will the Veterinary Technician do to advance knowledge?

These SLOs are not approved for experiential credit.

Effective: Fall Summer 2021