

Name: \_\_\_\_\_

## Diagnostic Imaging Assignment

Date: \_\_\_\_\_

Work with DVM to determine which patient will undergo ultrasound and/or radiographs. Decide anatomical region for study and obtain appropriate equipment.

Ultrasound:

Familiarize yourself with the equipment by reading the manual, turning the unit on (to include the printer), etc. Once prepared obtain patient and perform the study. Print the best image you can of the intended target for inclusion in your lab report. Critique the technique used; consult equipment manual for assistance

Radiographs:

Familiarize yourself with the x-ray machine based on instruction received in lecture as well where room and safe light switches are in the darkroom. Familiarize yourself with all safety equipment. Familiarize yourself with the auto processing unit. Obtain the cassette(s) needed and load with film. Set up film identification. Measure the patient and calculate the exposure required. Consult with the DVM to determine the views necessary (Lateral, DV, etc)

Log exposure information into radiology log book. Take and develop radiograph(s). Bring dry radiograph into classroom for critique ( kVp, mAs, positioning, artifact, other). Label, file and store radiograph. Record radiograph information into client record

Work with cooperatively with class members to practice the tasks listed below.

1) **Communication:** Communicate in a professional manner in all formats – written, oral, non-verbal, and electronic.

Apply understanding of interpersonal skills and team dynamics: working cooperatively with Program staff and fellow students to facilitate excellent animal health care. Includes making proper notations regarding equipment so others will be able to determine when the next scheduled maintenance tasks need to occur.

Recognize the legality of the veterinary-client-patient relationship: admit and discharge patients in accordance with the laws as well as established facility protocols

Provide client education in a clear and accurate manner at a level the client understands: provide written handouts with facility policy; answer client questions within the scope of a student technician demonstrating a respect for and willingness to learn from program staff

2) **Laws and Ethics:** Follow and uphold applicable laws and the veterinary technology profession's ethical codes to provide high quality care to patients.

Understand and observe legal boundaries of veterinary health care team members

Interact professionally with clients and program staff and fellow students: demonstrate respect for yourself, the Program and the veterinary profession by adhering to uniform regulations, arriving promptly and being prepared to carry out assigned clinical duties.

Demonstrate a commitment to high quality patient care: in keeping with established Program protocols, work with others to achieve the common goal of providing animal patients with a clean, dry and safe environment

Respect and protect the confidentiality of client and patient information: Client names are not to be mentioned outside the facility; hospital cases are to be discussed from a medical perspective within the classroom setting only.

3) **Patient assessment:** Demonstrate and perform patient assessment techniques in a variety of animal species.

Recognize common domestic animal species and breeds

Use common animal identification methods

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Use effective and appropriate restraint techniques for various animal species: encage and remove small animals from cages, apply dog muzzle safely, apply Elizabethan collar, use restraint pole, restrain birds, pocket pets and exotics

Environmental conditions

- o implement sanitation procedures for animal holding and housing areas

4) **Imaging:** Safely and effectively produce diagnostic radiographic and non-radiographic images.

Implement and observe recommended radiation safety measures

Implement radiographic quality control measures

Develop and properly utilize radiographic technique charts

Position dogs, cats, horses, and birds for radiographic studies

Demonstrate an understanding of the modifications of diagnostic imaging techniques as they apply to mice, rats, guinea pigs, lizards, and amphibians

Utilize radiographic equipment to expose x-ray film (stationary and portable units)

Process exposed films to create diagnostic radiographic images (automatic\*, hand, and digital processing)

Label, file, and store film

Complete radiographic logs, reports, files and records

Perform positive and negative radiographic contrast studies (including GI series, pneumocystogram, and intravenous urogram)

Learn radiographic techniques utilized in screening for canine hip dysplasia

Demonstrate proper maintenance of radiographic equipment, including recognition of faulty equipment operation

5) **Ultrasound:**

Demonstrate understanding of ultrasonography equipment