

SMALL ANIMAL DIAGNOSTIC IMAGING MENTORSHIP II



VM 21600

CRITERIA HANDBOOK AND LOGBOOK

INDEX OF NOTEBOOK

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Clinical Mentorship Tasks

NOTE: Digital imaging may be used to produce the following images. The student may NOT crop the image post-exposure (appropriate collimation should be done when taking the image) nor should computer-editing software be used. Radiographs should be submitted as JPEGs labeled as the task

The patient will be heavily sedated or anesthetized for these views:

1. Video Verification of Equipment and Supplies
2. Mediolateral Projection of the Radius/Ulna (Antebrachium)
3. Craniocaudal Projection of the Radius/Ulna (Antebrachium)
4. Mediolateral Projection of the Stifle Joint (Femorotibial)
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7. Ventrodorsal Extended Projection of the Pelvis for Canine Hip Dysplasia Screening (*Canine Live*)
8. Lateral Projection of the Skull
9. Ventrodorsal Projection of the Skull
10. Intraoral Full Mouth Dental Radiographs (*Live or intubated Cadaver*)

NOTE THE FOLLOWING DUE DATES FOR THE TASKS ABOVE:

Fall and Spring Semester 11:59p.m. Thursday of week 1 – Task 1

11:59p.m. Thursday of week 5 – Tasks 2-5

11:59p.m. Thursday of week 10 – Tasks 6-9

11:59p.m. Thursday of week 12 – Task 10

Summer Semester 11:59p.m. Thursday of week 1 – Task 1

11:59p.m. Thursday of week 4 – Tasks 2-5

11:59p.m. Thursday of week 8 – Tasks 6-9

11:59p.m. Thursday of week 10 – Task 10

Incomplete grades will not be assigned for mentorships at the end of the semester.

Grade penalties will be assessed for tasks submitted after the due date.

Resubmission due dates will be set by the instructor as required.

Animal Use Guidelines

The student shall abide by the following guidelines when performing mentorship tasks:

1. All animals used for demonstration of mentorship skills must be appropriately restrained by another person, for the safety of the patient and the student.
2. A mentorship task may be performed only once on a single animal.
3. A student may perform a maximum of ten (10) minimally invasive tasks (denoted by one asterisk) on a single animal within a 24-hour period.
4. A student may perform a maximum of three (3) moderately invasive tasks (denoted by two asterisks) on a single animal within a 24-hour period.
5. When combining tasks, a student may perform a maximum of five (5) minimally and three (3) moderately invasive tasks on a single animal within a 24-hour period.
6. Tasks denoted with no asterisks do not involve live animal use.

For example, a student might perform the following tasks on an animal in a single day:

1. Restrain a dog in sternal recumbency*
2. Restrain a dog in lateral recumbency*
3. Restrain a dog for cephalic venipuncture*
4. Restrain a dog for saphenous venipuncture*
5. Restrain a dog for jugular venipuncture*
6. Administer subcutaneous injection**
7. Administer intramuscular injection**
8. Intravenous cephalic injection – canine**

Failure to comply with the Animal Use Guidelines may result in failure of the Clinical Mentorship.

CONTACT PERSON

Questions regarding the overall Clinical Mentorship process should be directed to
Pam Phegley, BS, RVT
Clinical Mentorship Coordinator
(765) 496-6809
phegley@purdue.edu

Questions regarding this mentorship (tasks, due dates, etc.) should be directed to the instructor for this mentorship course.

STUDENT INFORMATION

GOALS OF CLINICAL MENTORSHIP

Working with a veterinary care facility, the student will perform tasks under the supervision of a clinical mentor (veterinarian or credentialed veterinary technician).

In order to achieve the goals for this Clinical Mentorship, the tasks must be performed to the level of competency as outlined by the criteria for each task. The submitted videos should demonstrate proficiency in performing skills that have been learned and practiced until the student feels comfortable. While occasional guidance from the mentor is acceptable during the learning phase, video submissions must show that the student can execute the task independently, smoothly, and competently without excessive direction or outside assistance. All tasks must be performed without reliance on the Task Verification Form or other written sources during the video. Video demonstration of each skill should reflect the ability to perform the skill autonomously, as would be expected in clinical practice.

The student is responsible for providing documentation for each task as defined by the *Materials Submitted for Evaluation and Verification* section on each task.

In addition to the documentation, the Clinical Mentorship site supervisor will verify that the student performed the task under their supervision.

Final approval of successful performance and completion of the Clinical Mentorship will be made by the Purdue University instructor in charge of the Clinical Mentorship. This approval will be based upon the documentation provided by the student.

The Purdue University instructor in charge has the option to require additional documentation if, in their judgment, the student has not performed and/or documented the task to the level set by the criteria.

Documentation of completed tasks is essential to validate the educational process and insure that the performance of graduates of the Veterinary Nursing Distance Learning Program meets the standards of quality required by the Purdue University College of Veterinary Medicine faculty and the American Veterinary Medical Association accrediting bodies.

Essential criteria for each skill are denoted by **(critical)** and must be included in the performance of the skill in order for the task to be approved. Failure to demonstrate any **(critical)** steps clearly will result in resubmission of the task. Critical components include actions or omissions that would compromise patient or personal safety, cause potential immediate harm to the patient or personnel, demonstrate a serious breach of infection control protocols, show a fundamental lack of knowledge of performance of the task, or fail to demonstrate required AVMA essential skills.

Live narration of videos is expected for all submissions. If a student wishes to submit a video with voice-over they must contact the instructor prior to making the video to discuss whether an exception may be made. Certain tasks require live narration, and exceptions will not be made for those.

Continuous, unedited video is preferred, and is required for some tasks. Required continuous, unedited video will be noted in the task description. If video is not continuous, the student must ensure that all criteria are demonstrated in the video clips.

PRE-REQUISITES FOR CLINICAL MENTORSHIP

Agreements

Because of legal, liability and AVMA accreditation issues, the following documents must be submitted prior to beginning the Clinical Mentorship

1. Clinical Mentorship and Facility Requirement Agreement
2. Supervisor Agreement
3. Release of Liability, Health Risk and Insurance, Technical Standards and Mentorship Code of Conduct
4. Professional Liability Insurance Coverage

These documents are available on the VNDL website.

If more than one Clinical Mentorship course is taken, separate Clinical Mentorship and Facility Requirement Agreement and Supervisor Agreement must be completed for each course.

More than one Mentorship Supervisor may sign the mentorship logbook. Each must be either a DVM or a credentialed technician, and must complete a separate Supervisor Agreement.

Failure to complete and submit the listed documents and/or non-payment for Student Professional Liability Insurance Coverage will prevent the student from enrolling in the Clinical Mentorship

Insurance

Two types of insurance are recommended or required for the student working in a Clinical Mentorship.

Health Insurance is highly recommended to cover the medical expenses should the student become injured while on the job. It is the student's responsibility to procure such insurance.

Liability Insurance is required to protect the student in the event of a suit filed against the student for acts he/she performed while in the Clinical Mentorship.

Each VNDL student is required to purchase, for a nominal fee, Professional Liability Insurance through Purdue University. The fee covers from the time of initiation of coverage until the subsequent July 31st.

Students will not be enrolled in Clinical Mentorships until the Professional Liability Insurance is paid, and the student is covered by the policy.

WHAT TO LOOK FOR IN A MENTORSHIP FACILITY

When evaluating a facility for clinical mentorships, the student should thoroughly research the site. It is strongly suggested to visit the site if not currently working there. This experience is a chance to begin to apply the wealth of knowledge and skills acquired and developed to this point in the veterinary nursing education. The following are points of discussion or questions to consider when evaluating the site (RVT includes any credentialed veterinary technician):

- Does the site currently have credentialed veterinary technicians/nurses on staff?
- Are there any boarded DVM specialists or VTS RVTs on staff?
- What is the role of the technician/nurse versus other members of the staff (such as veterinary assistants)?
- What is the overall size of the staff (professional and paraprofessional staff)?
- Is the site an accredited practice or facility (AAHA, ALAC, etc.)?
- Has the site hosted a VNDL student in the past?
- Does the staff seem receptive to hosting a student?
- Is the site located in a safe and easily accessible location? Are there geographical considerations?
- Is this also an employment opportunity?
- Ask the supervisor:
 - What are their specific goals for the student?
 - Have they ever been a supervisor before for a veterinary technician/nursing student?
 - Who else at the site may be involved in supervision?
 - Do they have any concerns for the legal allowances in which the student may perform certain tasks?

It is strongly recommended that the student show potential mentorship supervisor(s) examples of mentorship logbooks, so they are aware of what the student will need to accomplish in this facility. The discussion should include that most tasks will require videos of the student performing skills, and how this will be accomplished. A student may have multiple supervisors (either DVM or credentialed technician), and one must be present any time the student is performing skills for a clinical mentorship. Supervisors sign Task Verification forms which state that they observed the student as they performed each task. Mentorship supervisors act as coaches and must be present to ensure the safety of the patient and personnel. They are not involved in evaluation of skills; this is done by Purdue instructors.

SELECTING THE CLINICAL MENTORSHIP SITE – FACILITY REQUIREMENTS

You must visit the Clinical Mentorship Site and determine if the following supplies and equipment are readily available to you for use during your Clinical Mentorship. The mentorship supervisor will verify the availability of required items by completing the Mentorship and Facility Requirement Agreement

The veterinary care facility must be equipped with the following equipment:

- 300MA/125KVP X-ray machine (high-output machine for analog or digital radiography)
- Radiographic Machine Technique Chart
- Measuring Calipers
- Thyroid shields (2)
- 0.5mm Lead aprons (2)
- 0.5mm Lead gloves that provide 360^o coverage of hands (2 pair)
- Right and Left lead identification markers
- Patient Identification Labeling system for digital images
- Individual, Personal Radiation exposure monitoring device (dosimetry badge)
- Portable Dental Radiography machine
- Dental radiography film and chairside developer, or digital unit sensor (DR or CR)

SELECTION OF CLINICAL MENTORSHIP SUPERVISOR

The Clinical Mentorship Supervisor is the person who will sign Task Verification forms that verify performance of tasks at the Clinical Mentorship site. This person must be a credentialed veterinary technician (have graduated from an AVMA accredited program or met State requirements for credentialing as a veterinary technician) or a licensed veterinarian.

An individual who claims to be a “veterinary technician” but has not met the criteria for credentialing above is not eligible to be mentorship supervisor.

The individual is not considered to be an employee of Purdue University when acting as your Clinical Mentorship supervisor.

Each Clinical Mentorship Supervisor must complete a *Clinical Mentorship Supervisor Agreement*. These agreements must be submitted prior to beginning the Clinical Mentorship. Multiple supervisors may be used for documentation of mentorship tasks. Each supervisor must complete a separate agreement.

Should the Clinical Mentorship Supervisor change during the course of the Clinical Mentorship, the student will need to have the new supervisor complete a *Clinical Mentorship Supervisor Agreement* and submit to the Purdue VNDL office.

***ALL TASKS PERFORMED FOR A MENTORSHIP MUST BE OBSERVED IN PERSON BY A SUPERVISOR FOR
WHOM DOCUMENTATION HAS BEEN SUBMITTED***

CRITERIA HANDBOOK AND LOGBOOK

This Criteria Handbook and Logbook contains the list of tasks that must be successfully completed in order to receive credit for this Clinical Mentorship. The student is expected to have learned the basics of how, why, and when each procedure is to be done from the courses listed as pre-requisites for this Clinical Mentorship. This booklet contains the directions and forms that must be followed and completed in order to meet the standards set for successful completion of this Clinical Mentorship.

Please read each component of each task carefully before performing the task to minimize required resubmissions. The components of each task are summarized:

Goal – Describes the ultimate outcome of the task the student will perform.

Description – Lists the physical acts the student will perform, and under what conditions these acts will be completed.

Criteria – Lists specific, observable, objective behaviors the student must demonstrate for each task. The ability to demonstrate each of these behaviors will be required in order to be considered as having successfully completed each task. Essential criteria for each skill are denoted by **(critical)** and must be included in the performance of the skill in order for the task to be approved. Failure to demonstrate any **(critical)** steps clearly will result in resubmission of the task..

Number of Times Task Needs to be Successfully Performed – States the required number of times to repeat the tasks. The patient's name and the date each repetition of the task was performed must be recorded on the Task Verification Form.

EACH REQUIRED REPETITION OF THE TASK MUST BE PERFORMED ON A DIFFERENT ANIMAL. The student may not use the same animal to do all of the repetitions of a task. However, the same animal may be used to perform different tasks. In other words, one can't do three ear cleanings on the same animal, however, one may do an ear cleaning, an anal sac expression, and a venipuncture on the same animal.

Materials Submitted for Evaluation and Verification – These specific materials, which usually include video or other materials, must be submitted to demonstrate that the student actually performed the task as stated. Each evaluation states specifically what must be shown in the submitted materials.

The Purdue University course instructor for this Clinical Mentorship has the option to request further documentation if the submitted materials do not clearly illustrate the required tasks.

It is recommended that the video materials document all angles of the procedure. The purpose of the video and other material is to provide "concrete evidence" that the student was able to perform the task to the standard required.

Pre-planning the videos will help reduce the need to resubmit tasks. The student should narrate the video as they work, explaining what they are doing and why. This helps the evaluator follow the thought process and clarify what is seen on the video. The student's face must be shown at some point in every video to verify their identity. The name and/or number of the task should be either stated at the beginning of the video or embedded (written) into the video itself.

This validation is essential to help the Purdue VNDL meet AVMA accreditation criteria. Therefore, it is essential that the student follows the evaluation and validation requirements.

Task Verification Forms – Each task has a form that must be completed and signed by the Clinical Mentorship Supervisor. A supervisor must observe every performance of a skill for a clinical mentorship.

Supplementary Materials – Logs, written materials, photographs, or other forms/documentation may be required for specific tasks. The "Materials to be Submitted for Evaluation" section outlines what is required to submit for each task.

COMPLETION OF THE CLINICAL MENTORSHIP

Mentorship logbooks include due dates for sets of tasks. Each set must be submitted by the deadline listed in the logbook. Late submissions will incur a grade penalty. Incomplete grades will not be assigned for mentorships at the end of each semester.

Feedback will be posted to the Brightspace assignment following review of each task. As necessary, instructors may require resubmission of some tasks. When feedback is posted, due dates for resubmissions will be given. ***It is crucial that students with pending feedback set their Brightspace to notify them when feedback and scores are posted, so this information is received in a timely manner.***

Final approval of successful performance and completion of the Clinical Mentorship will be made by the Purdue University instructor in charge of the Clinical Mentorship based upon the documentation provided by the student.

Upon successful completion of all tasks in the clinical mentorship course, a grade will be assigned by the course instructor based upon the documented performance of the tasks.

Note: A student who is dismissed from their mentorship facility may fail the course and may be dismissed from the program.

Task Verification forms and other written materials should be submitted in **Assignments** in Brightspace. Task Verification forms are due by the task due date in order for each task to be complete. You must assign the forms and any other supplemental paperwork required for the tasks, to the correct course assignment in order for the instructor to view them.

Videos should be submitted in **Assignments** in Brightspace. This method of online submission does not limit how much you put on, is no cost to you, and automatically archives. You must assign the videos to the correct course assignment in order for the instructor to view them.

Patient proof of rabies vaccination should be submitted in **Assignments** in Brightspace for all patients used for mentorship tasks by unvaccinated students. This is due by the task due date. Patient ID, age, date of vaccination, and either type of vaccine (1- or 3-year) or due date for booster must be shown.

OSHA Compliance should be demonstrated in videos and photographs submitted. The student should always be aware of workplace safety and compliance. Violations such as human food and drink in hospital areas, unlabeled secondary containers, lack of PPE, etc. will be noted and may result in point deductions or task resubmission.

Using Kaltura for Video Assignments

Kaltura is a secure streaming service that Purdue offers for faculty, staff, and students. Videos uploaded to an assignment via Kaltura will only be accessible to instructor(s) within the course.

Step 1: Set Video Type on Your Device

Confirm your device is recording in a format accepted by Kaltura; common formats include:

- .MOV/.MP4/.M4V • .WMV
- .AVI
- .WEBM

Kaltura cannot accept the HEVC video format.

iPhone/iPad:

- *Click* on **Settings->Camera->Formats**
- *Change* the format to **Most Compatible**.

Android:

- In your camera application's settings, *change* the video recording format to **MOV, M4V, or MP4**.

Desktop/Laptop:

- Depending on your recording application, you will need to save your video recording as a common video format (such as .mp4, .mov, or .m4v).

Step 2: Allow your Browser to use Pop-Up Windows

Confirm your browser has pop-ups enabled. Kaltura will pop open a window for you to upload your video. Use the *Help* feature in your preferred browser if you need assistance in enabling pop-up windows.

If you do not allow pop-up windows on your browser, you will not be able to upload videos.

Step 3: Ensure You Have a Stable High-Speed Internet Connection

Confirm you have a **stable** internet connection; if you are on a connection that can disconnect on a regular basis your upload may be cancelled. Additionally, you will need to have a **high-speed** connection. Videos may have large file sizes, and a slow connection may result in your video taking a very long time to upload. If you need a stable and fast internet connection but do not have one at home, consider using public wifi at a library or coffee shop.

Step 4: Uploading Your Task Verification Form (TVF)

You must upload your TVF at the same time that you upload your video.

- *Open* the assignment in Brightspace
- *Click* on the **"Add a File"** button. A dialogue box will open allowing you to select the TVF file to upload from your device.

Step 5: Uploading Your Video

Once you have uploaded your TVF, you can upload your video. Scroll down on the page to the Comments area.

- *Click* on the **Insert Stuff** icon on the text editor.
- On the **Insert Stuff** menu that opens, *click* on **Add Kaltura Media**.

- On the **Insert Stuff** window, *click* the **plus** button. On the menu that opens, *click* **Media Upload**.
- The **Upload Media** window will open. *Click* on **Choose a file to upload** to select a file on your computer, or *click and drag* the video file into the box.
- Depending on your internet connection speed and the file size, it may take a few minutes to upload the file. **Allow the file to upload completely and do not close the window.**

You may alter the name of the file and add a description.

Once the file is uploaded and any name or description changes have been made, *click*

</> Save and Embed to save the video to Kaltura.

- If your video has processed, you may see a preview. Otherwise, you may see an animation that your video is still processing. Even if the video is still processing, you can still submit the video. *Click* **Insert** to add the video to the assignment or discussion
- Your video will be added to the text box. *Click* **Submit** to turn in your assignment.
- You may confirm your submission by clicking on the link to the assignment or discussion and seeing if you can view the video.

For Support

Contact the PVM Instructional Design team at pvmit@purdue.edu for assistance.

CLINICAL MENTORSHIP TASKS

INTRODUCTION TO ESSENTIAL TASKS AND CRITERIA

Before starting each task:

1. Read the Goal, Description, Criteria, and Materials to be Submitted for Evaluation and Verification. Understand what is expected for each task.
2. Make sure that all equipment and supplies needed to complete the task are available. Pay particular attention to the details of what needs to be documented and submitted.
3. Make sure to obtain appropriate permissions where necessary. Please inform the facility's owner/manager of activities. A good relationship with the veterinarian in charge is key to having a positive Clinical Mentorship experience.

After performing each task:

4. Label all items submitted so that the materials submitted for evaluation and validation at Purdue are identified as the student's submission.
5. Label all videos posted to Brightspace with the task number.
6. Submit materials by the deadlines listed in the course syllabus.

CLINICAL MENTORSHIP PROJECTS

INTRODUCTION TO SPECIAL PROJECTS

Certain mentorships will have required projects to complete in addition to the required tasks. Written projects should be typed, and checked for correct grammar and spelling. Photos should be embedded into the related written documents.

Before starting each project

1. Read through the project in its entirety. This will give you a description of the project and what is needed to complete it successfully.
2. Determine what materials, if any, need to be submitted for completion of the project.
3. Most projects will come with a list of questions/points that need to be addressed and included in the written document.
4. If video is required for a project, it should be noted on the videotape verbally that this is for the project and not another required task. Some projects may require a verbal narration of a student doing something. Each individual project will define if that is a necessary requirement for that project.

1. VIDEO VERIFICATION OF REQUIRED EQUIPMENT AND SUPPLIES

Goal: Ensure that the student will have access to all equipment and supplies necessary to complete the skills in this course.

Description: The student will provide a narrated video showing equipment and supplies specific to this mentorship, to verify that required items are available to them and adequate for completion of tasks in their facility.

Criteria: The student introduced the video and showed their face clearly

The student donned the appropriate PPE and showed the following clearly:

- Lead Apron (2)
- Lead thyroid shield (2)
- 360 full coverage Lead gloves (no fingers or parts of the hand can be exposed) (2)
- Right and Left lead identification markers

- Patient Identification Labeling system for analog (film and screen) or for digital images
- Individual, Personal Radiation exposure monitoring device (dosimetry badge)
- Portable Dental Radiography machine
- Dental radiography film and chairside developer, or digital unit sensor (DR or CR)

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form for Video Verification of Required Equipment and Supplies, signed by the Clinical Mentorship supervisor.

2. One video showing the student as they introduced themselves and walked through the facility, showing the listed items clearly. The student narrated the video live as they showed items.

Student Name: _____

Supervisor Name: _____

RVT, CVT, LVT
DVM, VMD

I verify that the student will have access to the items shown, for tasks in this course.

Signature of Clinical Mentorship Supervisor: _____

2. MEDIOLATERAL PROJECTION OF THE RADIUS/ULNA (ANTEBRACHIUM)

Goal: To produce a diagnostic mediolateral radiographic projection of the radius/ulna (Antebrachium).

Description: The student will position the animal and produce mediolateral radius/ulna radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in lateral recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

3. CRANIOCAUDAL PROJECTION OF THE RADIUS/ULNA (ANTEBRACHIUM)

Goal: To produce a diagnostic craniocaudal radiographic projection of the radius/ulna.

Description: The student will position the animal and produce craniocaudal radius/ulna radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in sternal recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

4. MEDIOLATERAL PROJECTION OF THE STIFLE (FEMOROTIBIAL) JOINT

Goal: To produce a diagnostic mediolateral radiographic projection of the stifle joint.

Description: The student will position the animal and produce mediolateral stifle joint radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in lateral recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

5. CAUDOCRANIAL PROJECTION OF THE STIFLE (FEMOROTIBIAL) JOINT

Goal: To produce a diagnostic caudocranial radiographic projection of the stifle joint.

Description: The student will position the animal in sternal recumbency and produce a caudocranial stifle joint radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in sternal recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

6. LATERAL PROJECTION OF THE PELVIS

Goal: To produce a diagnostic lateral radiographic projection of the pelvis

Description: The student will position the animal in right lateral recumbency and produce a lateral pelvic radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in the correct recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

7. VENTRODORSAL EXTENDED PROJECTION OF THE PELVIS FOR CANINE HIP DYSPLASIA SCREENING

Goal: To produce a diagnostic ventrodorsal extended radiographic projection of the pelvis on a sedated canine patient.

Description: The student will position the animal in ventrodorsal recumbency and produce a ventrodorsal extended pelvic radiograph of diagnostic quality while abiding Radiation Safety regulations

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in the correct recumbency with the AOI of interest nearest to the x-ray table.

The student extended the rear limbs and positioned them parallel to the table, and rotated the stifle joints internally, with patellas positioned over the trochlear groove, and pelvis symmetric. Femurs are extended and parallel to each other.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

8. LATERAL PROJECTION OF THE SKULL

Goal: To Produce a diagnostic lateral skull radiographic projection.

Description: The student will position the animal in lateral recumbency and produce a skull radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in the correct recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

9. VENTRODORSAL PROJECTION OF THE SKULL

Goal: To produce a diagnostic ventrodorsal skull radiographic projection.

Description: The student will position the animal in dorsal recumbency and produce a ventrodorsal skull radiograph of diagnostic quality while abiding Radiation Safety regulations.

Criteria: The student donned Radiation Safety PPE

The student positioned the animal in the correct recumbency with the AOI of interest nearest to the x-ray table.

The student demonstrated how to properly select the mAs and kVp settings for the required projection based on the radiographic equipment's SOP.

The student selected a lead R or L limb lead directional marker according to which limb was being imaged and placed the marker in the correct location. (*Digital markers are not acceptable)

The student collimated to include only landmarks for the AOI.

The student produced the radiograph with a proper diagnostic radiographic exposure technique.

The student recorded the full process (positioning and production) of the radiograph with a recorded radiographic diagnostic quality (CALIPER) film self-evaluation that includes the following criteria:

- Collimation
- Artifacts
- Landmarks
- Identification
- Positioning errors
- Exposure techniques (mAs and kVp settings)
- Radiographic presentation

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form signed by the clinical mentorship supervisor.
2. One video that clearly shows the student **positioning the patient, producing the radiograph, and verbally describing a CALIPER diagnostic quality film evaluation** as defined in the above criteria for this task.
3. Radiographic image.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____

10. INTRAORAL FULL MOUTH DENTAL RADIOGRAPHS

Goal: To produce diagnostic, full mouth intraoral radiographs using a dental radiography unit

Description: The student will position the animal and utilize dental radiographic equipment to produce dental radiographs:

- Rostral Maxillary (incisors and or canines)
- Caudal Maxillary (premolars and or molars)
- Rostral Mandible (incisors and or canines)
- Caudal Mandible (premolars and or molars)

Note: *Film or digital imaging may be utilized for this dental (4)*

Criteria: The student positioned the patient appropriately for the requested views

The student abided by all radiation safety protocols and regulations for dental radiography

The student utilized the appropriate intraoral dental technique to achieve a diagnostic radiograph

Number of Times Task Needs to be Successfully Performed: 1

Materials Submitted for Evaluation and Verification:

1. Task Verification Form for Intraoral Full Mouth Dental Radiographs skill, signed by the Clinical Mentorship supervisor.
2. One each of the following images and a video of student positioning and evaluating for the radiographs.
 - Rostral Maxillary (incisors and/or canines)
 - Caudal Maxillary (premolars and/or molars)
 - Rostral Mandible (incisors and/or canines)
 - Caudal Mandible (premolars and/or molars)

Video must clearly show the student **positioning an anesthetized patient** (either a dog or cat) and **producing the radiograph** as defined in the above criteria for this task, **utilizing the proper PPE**. The video must zoom in on the radiograph and the student **self-evaluates** the diagnostic imaging quality for dental radiography.

Patient Name: _____ **Species:** _____ **Date:** _____

Student Name: _____

Supervisor Name: _____ RVT, CVT, LVT
DVM, VMD

I verify that the student performed this task under my direct supervision.

Signature of Clinical Mentorship Supervisor: _____ **Date:** _____