# Lab Project #2: Guidelines

**When:** *Beginning of lab Week #14*
**Where:** *In your assigned room* (as per your lab schedule)
**Assessment Length: 10** *minutes total*
**Testable Content: 3 projections** *(found on one of six req's for: Tib/Fib with skyline patella, routine foot or routine ankle)*

How it will work:

**Before** the 10-minute timer starts:

- The instructor will setup the room as follows:
  - X-ray tube facing a wall in the middle of the room, green and blue locks OFF
  - IR selection set to WALL
- The console must have 6 different patients entered into the console (pre-set by staff)
  - Note: all patients will match the requisitions provided
- Six different requisitions (requiring 3 projections) in the black "in-box" at each room
  - Note: each body part will have a requisition for a right and left side
  - *Once a requisition for a body part is selected, it is removed from the "in-box" (ex. Left ankle is randomly selected = both requisitions for ankle are removed before the next assessment begins)

**The timer will start at the same time for all learners. An instructor will begin the timer once all rooms are setup. *Timer starts before you select your requisition.**

**The lab time for the project ends after you clean or if the time runs out. After lab, use the PowerPoint template to upload your images and complete the assessment, then submit to D2L.*

Lab projects are due ***the morning after your lab @8am***. Late submissions are not permitted. *Any submissions received outside of the assigned deadline will be awarded a mark of zero*. Marks will be posted to D2L *the following week*. Feedback will be provided via D2L.

General Lab Project Rules:

- Everyone must participate as a technologist when being assessed
- Everyone must participate as a patient at least once, when not being assessed
  - "Patients" are not allowed to purposefully help the "Technologist" during an assessment (ex. place yourself into a perfect fan-lateral position)
- Your group must decide the order for whom will be assessed (and who the patient will be) BEFORE the lab begins
- Requisitions are NOT recycled:
  - You may select any one of the requisitions that remain in the "in-box" at your room
- Inappropriate language during your assessment or a classmate's is rewarded a 5% deduction
- Medical asepsis is required, even if the lab time for the project ends
- Instructors are not allowed to assist students during an assessment
- Instructors will "re-set" the room between lab projects
- Follow the rubric below (note: also accessible via D2L)

**Marking Rubric:**

Total Marks: 25 (worth 5% of final course grade)

| Criteria | 4 Points | 3 Points | 2 Points | 1 Point | 0 Points |
|---|---|---|---|---|---|
| Console | Patient selection matches exam performed<br><br>Console set to Examination screen<br><br>Correct technique selected (view selected matches view performed)<br><br>Correct IR selection | **Missing 1** component | **Missing 2** components | **Missing 3** components | **Missing 4** components |
| Equipment | Correct IR orientation & placement (ex. Landscape vs. Portrait; IR is flat, and NOT over digital IR)<br><br>Correct IR size used<br><br>Correct SID (+/-3cm) measured and used<br><br>Appropriate tube angle used (black lock must be engaged for all straight-ray imaging) | **Missing 1** component | **Missing 2** components | **Missing 3** components | **Missing 4** components |
| Pt. Position. | Correctly positioned patient anatomy for the part ordered<br><br>Correctly positioned patient for the view selected<br><br>Required patient anatomy is appropriately centered to the IR (i.e. ROI is over the active surface of the IR) | **Missing 1** component | **Missing 2** components | Anatomy clipped (aka. required anatomy and/or anatomy shadow not included in the light field: due to poor centering or field size too small) | Imaged the wrong body part (i.e. wrong side imaged or incorrect view performed) |

| Criteria | 4 Points | 3 Points | 2 Points | 1 Point | 0 Points |
|---|---|---|---|---|---|
| Anatomical Markers | (As per Edenbrook marker rules):<br>Anatomically correct<br><br>Correct location<br><br>Correct orientation | Anatomically correct but:<br><br>**Missing 1** component | Anatomically correct but:<br><br>**Missing 2** components | Anatomically incorrect | No marker used |
| ALARA | Patient was shielded properly (correct location/type used)<br><br>Correct centering (of Central Ray)<br><br>Collimation included all required anatomy (and anatomy "shadow") | Patient was shielded incorrectly (incorrect location/type used) | Incorrect centering of CR (miscentered by 1-inch/2.5-cm or greater)<br>Or<br>Collimated field size too large (extends beyond required anatomy by 1-inch/2.5-cm or greater) | Collimated light-field is projected off the IR | No shielding used |
| PowerPoint Notes | Description of how SID was measured is included for all projections<br><br>Bontrager recommended technique (as per your Technique Chart) included for all projections<br><br>IR considerations included (ex. When the cassette was replaced & cleaned)<br><br>Shielding specifics included for all projections (ex. Type of shielding used & where it was placed) | **Missing 1** component | **Missing 2** components | **Missing 3** components | **Missing 4** components |
| Medical Asepsis | *1 Mark: All or Nothing* | Equipment was cleaned properly immediately following assessment (or during allotted time) | | | |

Recommendations:

- Arrive to lab prepared to perform any of the 3 options found on the requisitions
- Ensure your device is fully charged
- Take images from many angles during your assessment period so you can select the images that display all requirements as outlined in the rubric

Notes for project submission:

- Use the PowerPoint Template (marks will be deducted if this template is not used; example excessive slides are included, format is different)
- **Submit in PowerPoint format only**
- When using cassettes, an image of the measuring tape showing the correct SID must also be included (as the electronic readout on the tube is not always accurate when using cassettes or the wireless digital IR)
- For full marks ensure your images demonstrate the rubric criteria (example: ensure ½ - 1 inch of light is visualized beyond **all** required anatomy)
- Ensure the digital IR is NOT under the cassette or wireless digital IR
- *Must identify if you used the wireless digital IR or cassette, and any affiliated details*