MRAD 204:

Radiographic Technique 1

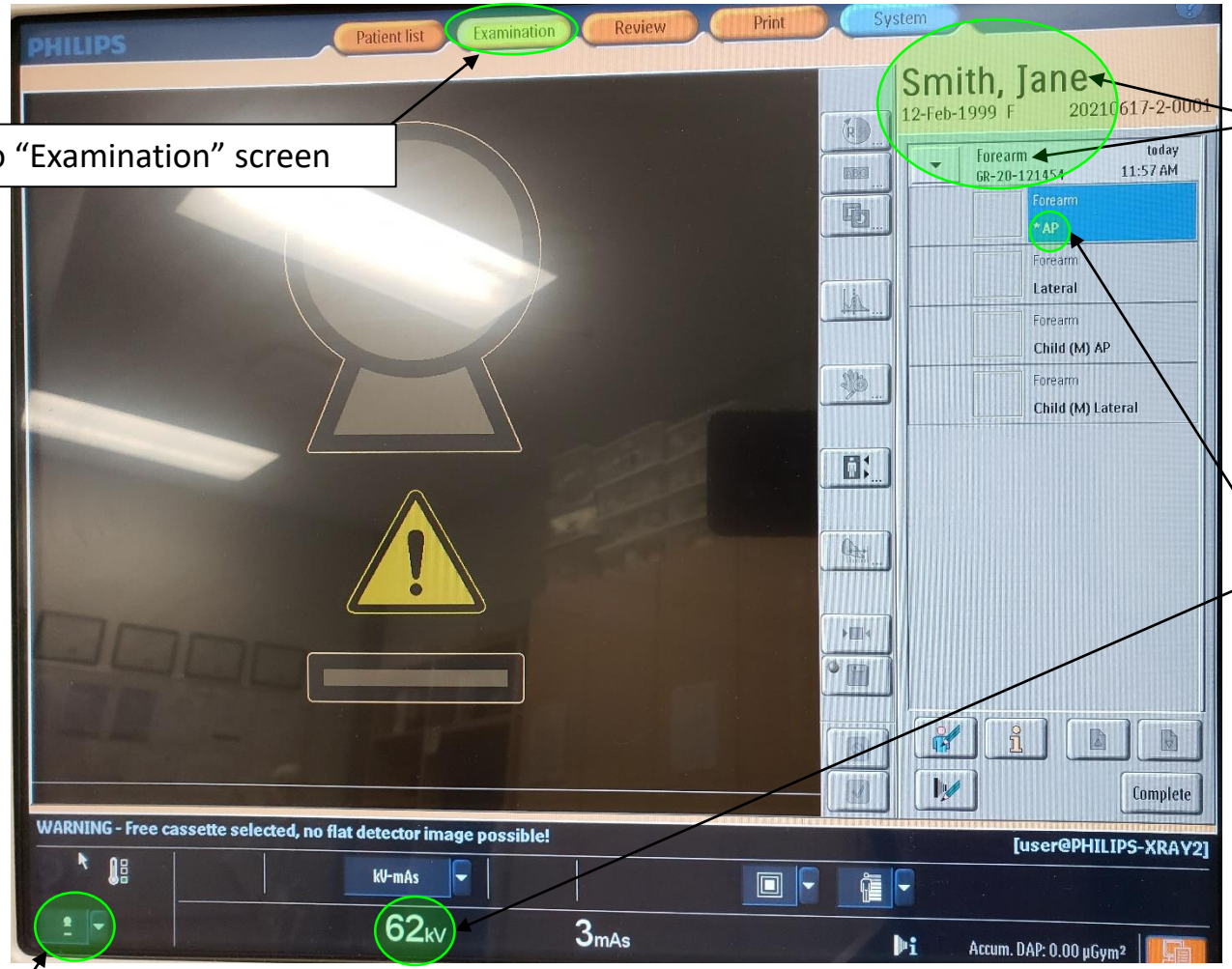
Lab Project 1:

Forearm Detailed example

Medical Radiologic Technology Program
Edenbrook College

AP Forearm – Equipment Setup

***For full marks under the "console" criteria, the image must include these four points:**



Set to "Examination" screen

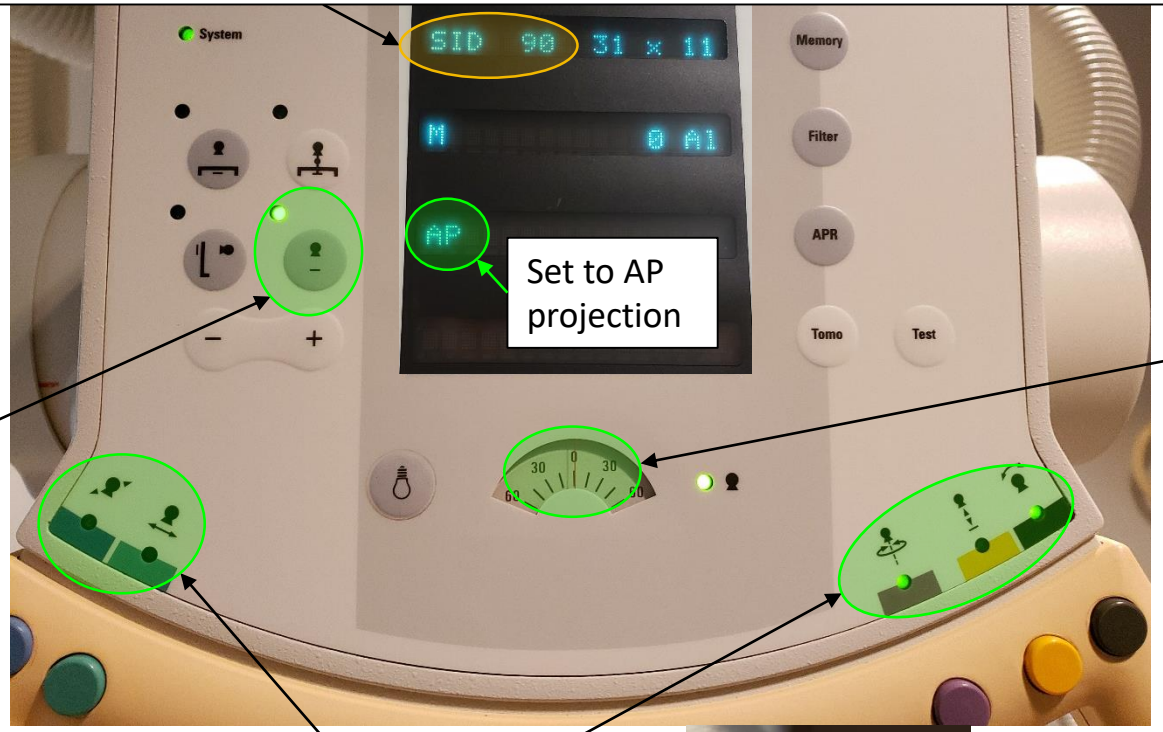
Patient selection matches exam performed

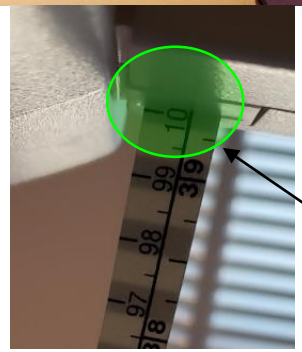
Correct technique selected (view selected matches view performed

Correct IR selection

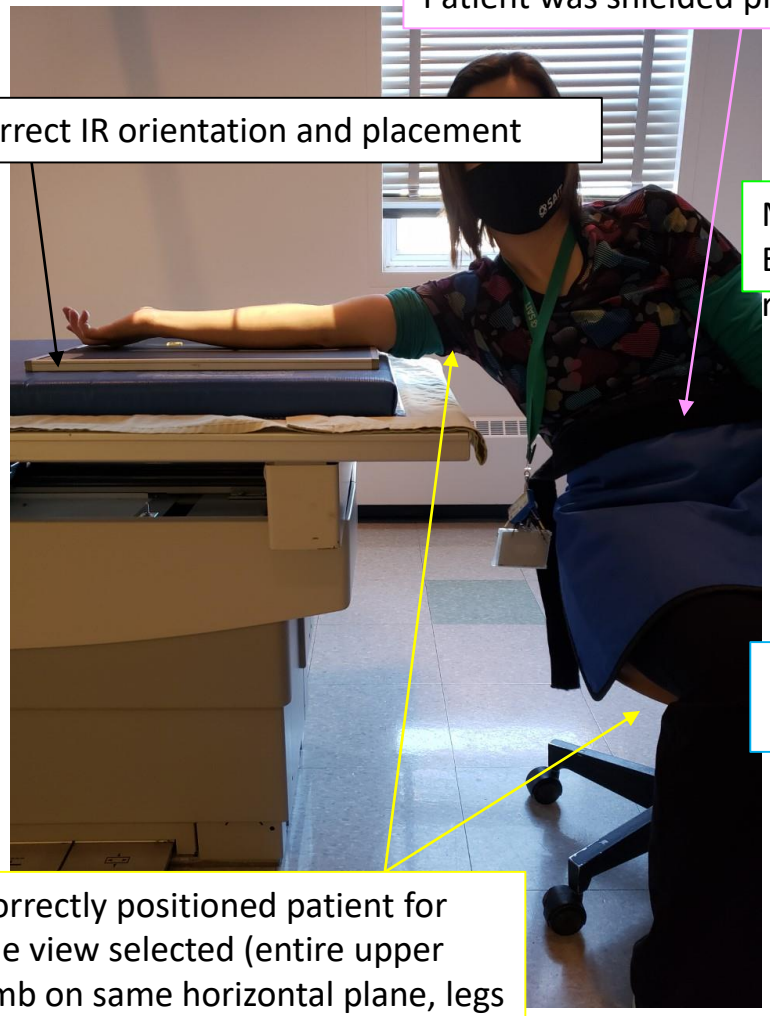
AP Forearm – Equipment Setup

Note: SID readout incorrect on Tube; however full marks awarded for including measuring tape SID display





AP Forearm - Positioning

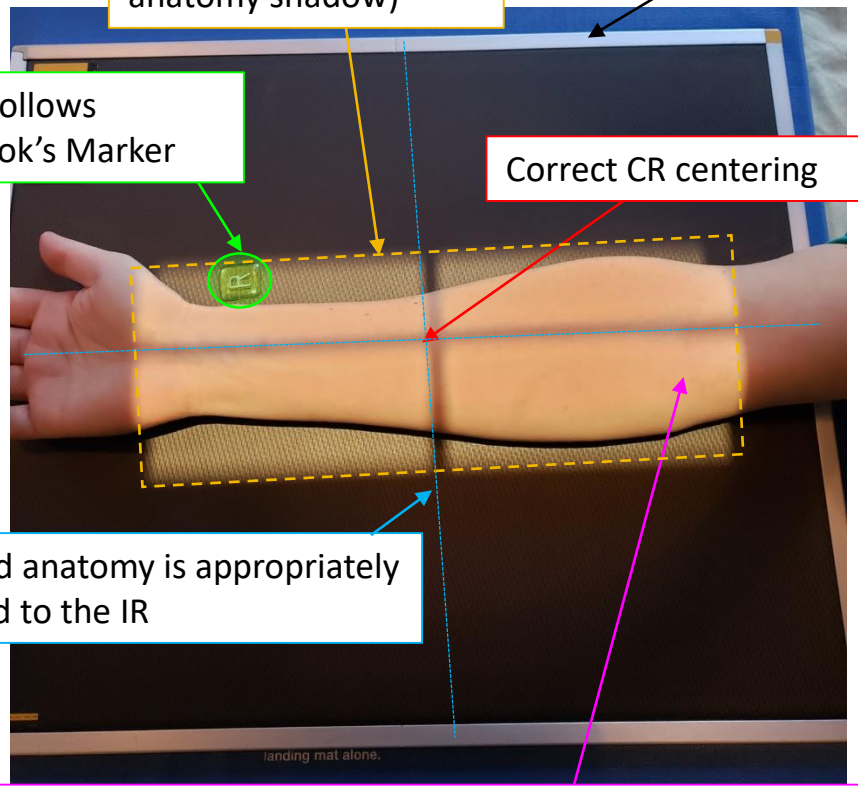


Patient was shielded properly

Correct IR orientation and placement

Marker follows Edenbrook's Marker rules

Correctly positioned patient for the view selected (entire upper limb on same horizontal plane, legs NOT under cassette)



Collimation includes all required anatomy (& anatomy shadow)

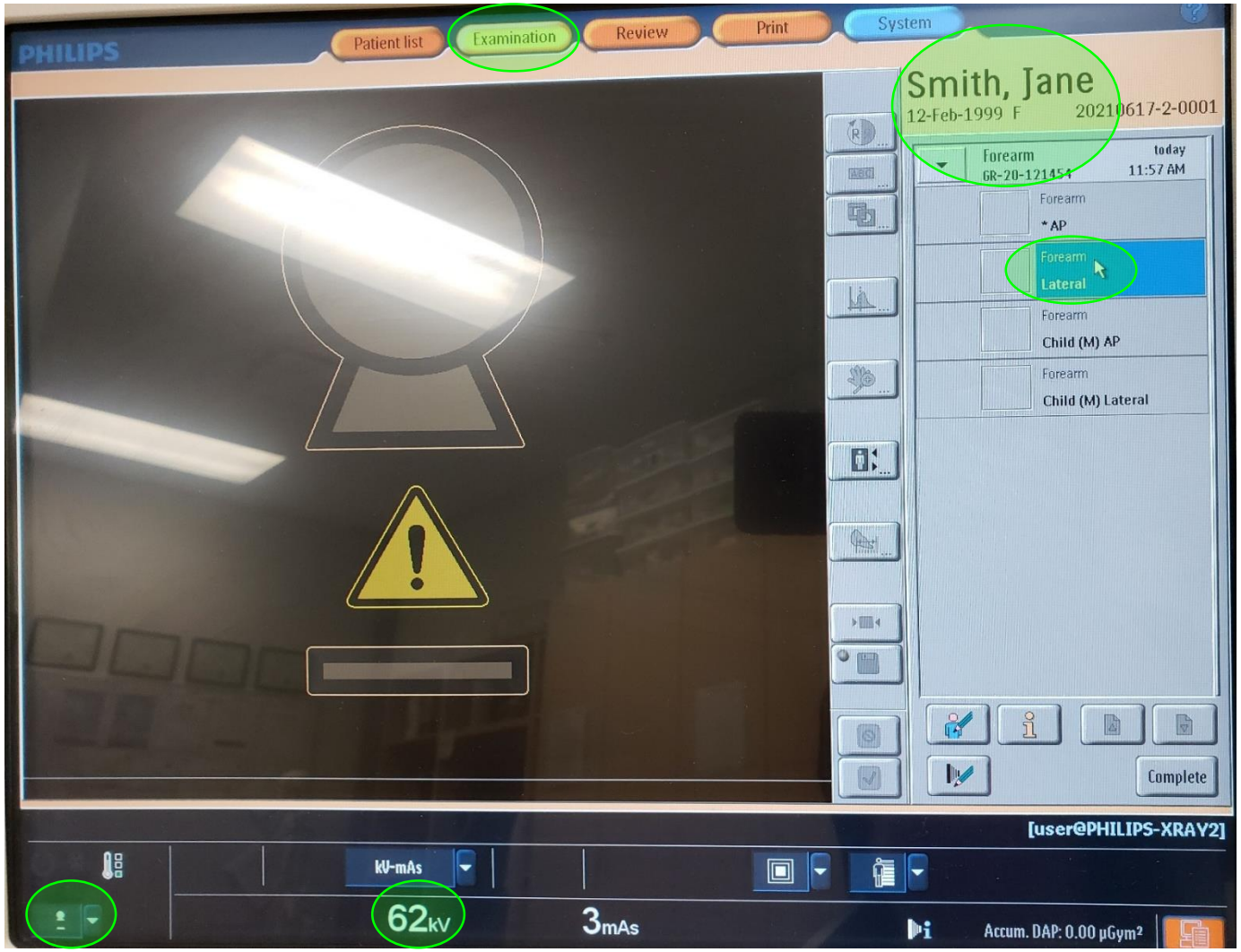
Correct IR size used

Correct CR centering

Required anatomy is appropriately centered to the IR

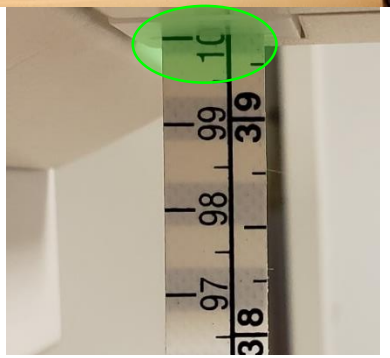
Correctly positioned patient anatomy for the part ordered (aka. required anatomy in correct AP position)

Lateral Forearm – Equipment Setup



Lateral Forearm – Equipment Setup





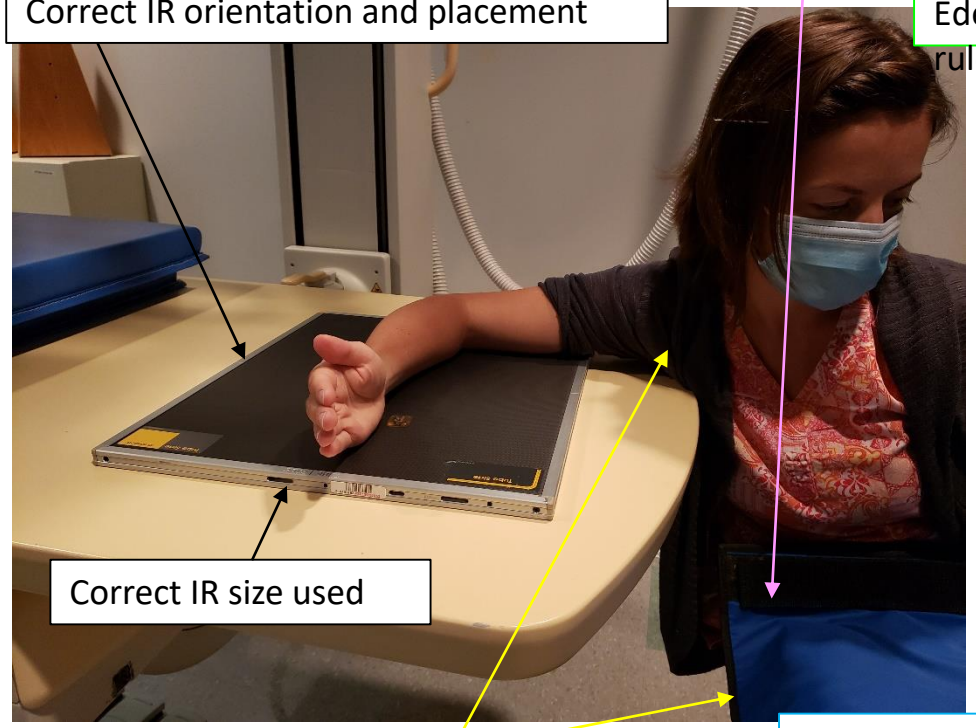
Lateral Forearm - Positioning

Patient was shielded properly

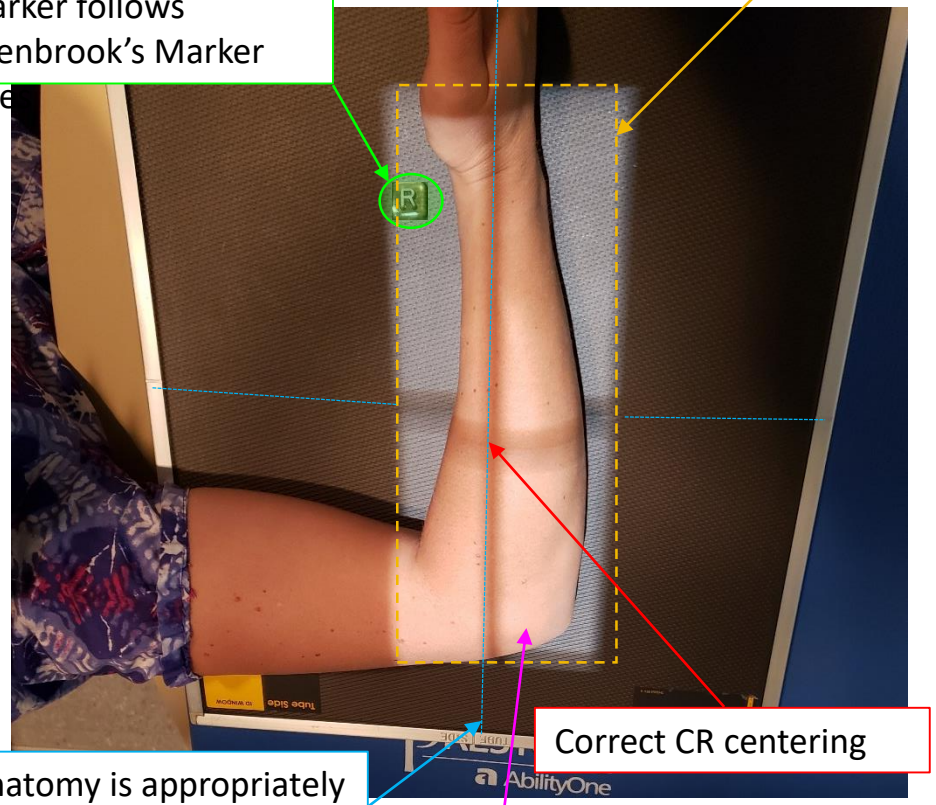
Collimation includes all required anatomy (& anatomy shadow)

Marker follows Edenbrook's Marker rule

Correct IR orientation and placement



Correct IR size used



Correct CR centering

Correctly positioned patient for the view selected (entire upper limb on same horizontal plane flexed 90°, legs NOT under cassette)

Required anatomy is appropriately centered to the IR

Correctly positioned patient anatomy for the part ordered (aka. wrist and elbow in correct lateral position)

Notes

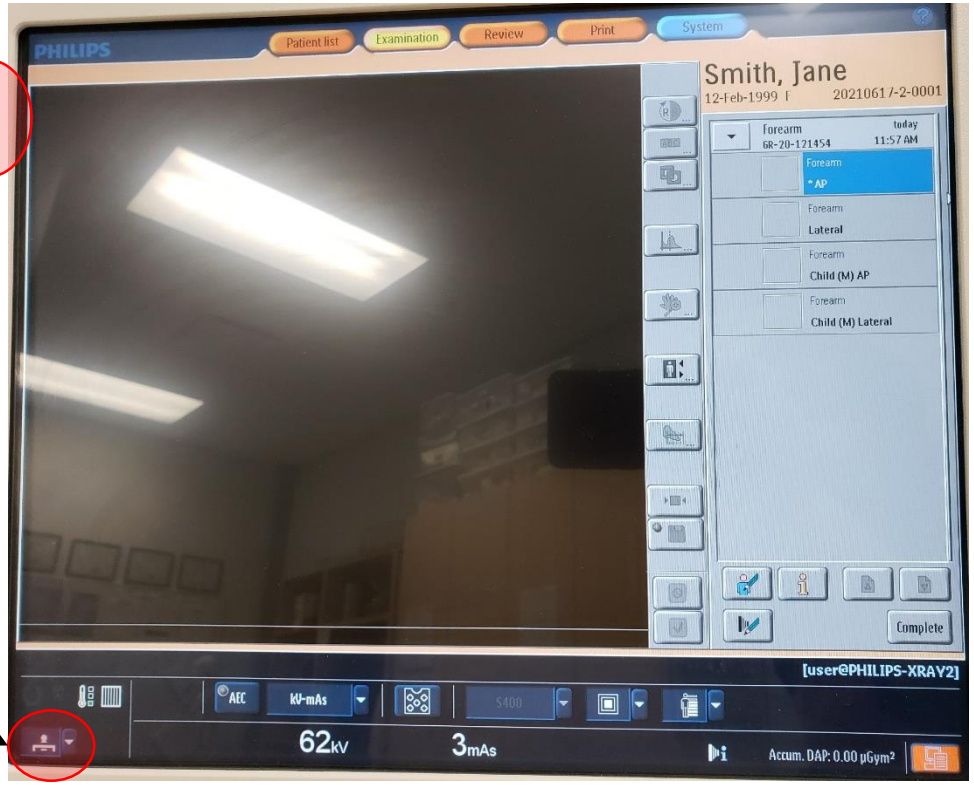
For all routine projections:

- ✓100cm SID is manually measured
- ✓Bontrager recommended technique: 65-75kVp
- ✓Lap shield placed over patients waist
- ✓Large cassette was used
  - Cassette was changed after first exposure
  - Cassettes cleaned after dismissing the patient

Examples of “image” errors



“Black” (aka. tube angle lock) not visualized



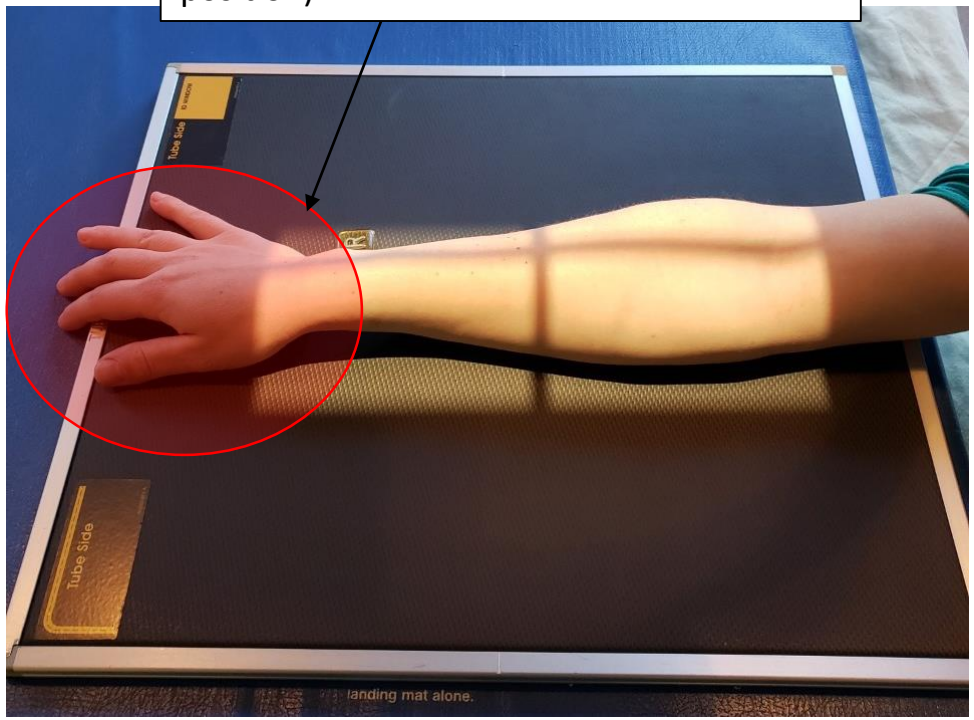
Incorrect IR selected

Examples of “image” errors

Incorrectly positioned patient for the view selected (entire upper limb NOT on same horizontal plane)

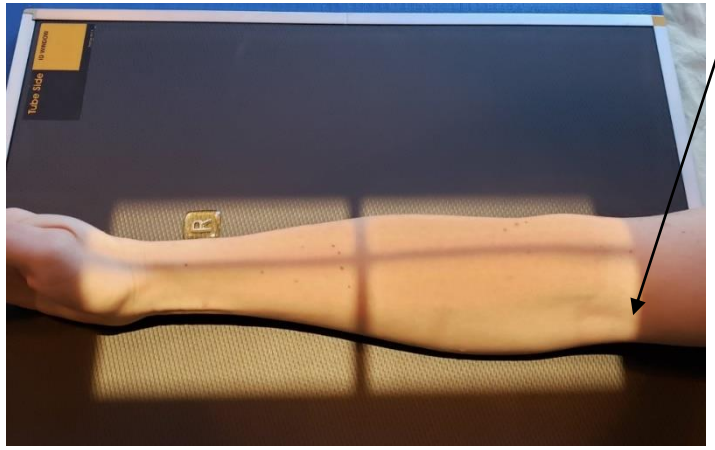


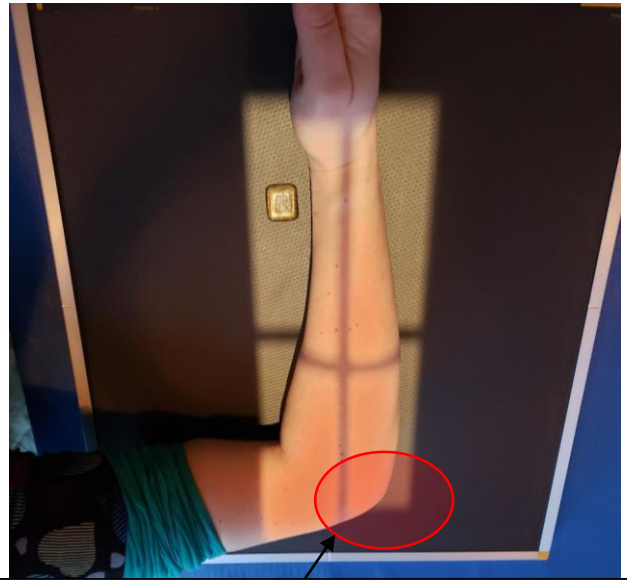
Incorrectly positioned patient anatomy for the part ordered
(aka. hand is pronated, elbow is in an AP position)



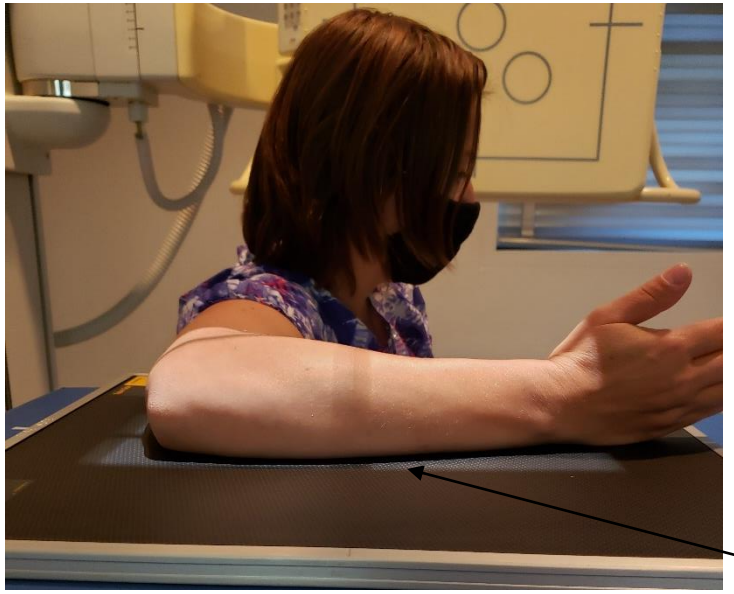
Examples of “image” errors

Incorrectly positioned patient for the view selected (arm is not flexed 90º)





Collimation does not include all required anatomy (½ - 1 inch of light posterior to elbow not clearly visualized)



Note: be mindful of your “image angle” from this angle: Collimation does not include all required anatomy (½ - 1 inch of light not visualized around all required anatomy)