Reducing resident fluoroscopy radiation exposure

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Diagnostic radiology residency
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Q1. What did you hope to accomplish?

• In 2021, the ASLMC fluoroscopy department underwent remodeling.

• Our different fluoroscopy systems have different dose reducing capabilities, such as pulsed fluoroscopy. Residents could not train with these machines during the remodeling and therefore do not know there specific dose limiting techniques.

• Our overall goal was to reduce radiology resident radiation exposure during our fluoroscopy rotations by providing general radiation safety and dose reducing techniques as well as fluoroscopy machine specific instructions for reducing radiation.
Q2. What were you able to accomplish?

• Lecture series lead by Dr. Li on general and our different fluoroscopy machines specific dose reducing techniques.

• Printed machine specific dose reducing instructions posted outside of the fluoroscopy rooms.

• Our primary measurement was the percentage of residents that used pulsed fluoroscopy. Our pre-implementation use was 36% and 6 months post implementation use increased to 70%.

• Additionally, the use of lead curtains increased from 27% to 50% and collimation use increased from 64% to 90%.