

PATIENT FLUOROSCOPY EXPOSURE REPORTING

PROCEDURE: ORS SOP-4	REVISION #: 0

EFFECTIVE DATE: 12/13/2019 LAST REVIEWED: 05/28/2020

## 1. Purpose

- 1.1. This procedure establishes the fluoroscopy exposure monitoring and reporting requirements for al UConn Health radiological imaging services.
- 1.2. This procedure outlines the process for reporting patient fluoroscopy exposures to the Office of Radiation Safety (ORS). It also defines when peak skin and/or fetal dose estimations are required. It also defines when patient follow-up is required based on peak skin and/or fetal dose estimations.
- 2. Applicability
  - 2.1. This procedure applies to all fluoroscopy procedures performed at UConn Health and affiliated services.
- 3. References
  - 3.1. NCRP Report 168
  - 3.2. Joint Commission PC.02.01.01, EP 30
  - 3.3. Stecker et al., Guidelines for Patient Radiation Dose Management
  - 3.4. Centers for Disease Control and Prevention, Cutaneous Radiation Injury
- 4. Precautions
  - 4.1. None
- 5. Procedure
  - 5.1. The performing physician or designee shall complete and submit Attachment I, "Prolonged Fluoroscopy Procedures/Pregnant Patient Notification Form" to the office of radiation safety whenever:
    - 5.1.1. Fluoroscopy on time exceeds 60 minutes or,
    - 5.1.2. Cumulative Air Kerma Area Product (P<sub>KA</sub>) exceeds 500 Gy·cm<sup>2</sup> (for 100 cm<sup>2</sup> field) or,
    - 5.1.3. Cumulative Air Kerma at the Reference Point (Ka,r) exceeds 3 Gy or,
    - 5.1.4. The patient is pregnant. This should be done on the day of the procedure.
  - 5.2. ORS shall review the "Prolonged Fluoroscopy Procedures/Pregnant Patient Notification Form" to determine if a peak skin or fetal dose estimation is required.
  - 5.3. If required, ORS will estimate peak skin dose (PSD) and/or fetal dose, determine if follow-up is required, provide that information to the



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Interventionalist and update the patient's medical record within five business days. Reporting must be done immediately if the fetus is in the field of view.

- 5.4. Patient follow-up guidelines include:
  - 5.4.1. Estimated PSD > 3 Gy follow-up at 2 weeks and 8 weeks.
  - 5.4.2. Estimated PSD > 5 Gy follow-up at 2 weeks, 8 weeks, and 6 months.
  - 5.4.3. Estimated PSD > 10 Gy follow-up at 2 weeks, 4 weeks, 6 months, and 12 months.
- 5.5. All estimated fetal dose calculations shall include a recommendation to track additional abdominal and/or pelvic radiation exposures for the duration of the pregnancy.
- 5.6. ORS will report the following metrics to the Radiation Safety Committee on a quarterly basis:
  - 5.6.1. Number of procedures requiring PSD and/or fetal dose estimation.
  - 5.6.2. Number of patients requiring follow-up.

Kevin Higgins Radiation Safety Officer Date

Dr. David Karimeddini Radiation Safety Committee Chair Date