

UConn Health

Radiation Dosimetry Policy

PURPOSE

This policy outlines the dosimetry requirements for UConn Health. It ensures UConn Health complies with all federal and state requirements regarding monitoring of personnel who are occupationally exposed to ionizing radiation. It also supports the goal to ensure occupational exposures are maintained as low as reasonably achievable (ALARA).

POLICY

Individuals working in areas containing sources of ionizing radiation must be assessed by the Office of Radiation Safety (ORS) to determine if dosimetry is required. If required, it will be provided. If provided, it must be worn whenever working in areas containing sources of ionizing radiation.

Situations requiring dosimetry:

- Individuals handling or working with radioactive materials
- Declared pregnant workers
- Fluoroscopy credentialed individuals
- Individuals operating mobile x-ray equipment
- Whenever ORS determines an individual is likely to receive 10% of an annual federal limit or 25% of a state quarterly limit for whole body, lens of eye, or skin

Ring badges are typically provided to individuals handling radioactive materials, using the high dose rate after-loader (HDR), or whenever there is a potential for hands to be in the field or exposed to the primary beam of fluoroscopic x-ray equipment.

Collar badges may be issued to fluoroscopy credentialed individuals primarily for the purpose of adjusting whole body dose. This is typically based on exposure history and the likelihood a correction will be needed to remain below a state or federal limit.

SCOPE

This policy applies to employees, physicians, students, visitors, and others exposed to sources of ionizing radiation at UConn Health. This policy does not apply to vendors. Vendors are responsible for providing their own dosimetry as required.

PROCEDURES, GUIDELINES AND PROTOCOLS

UConn Health Radiation Safety Manual

REFERENCES

10CFR 20.1502, Conditions requiring individual monitoring of external and internal occupational dose.

Title 19, Section 19-24-6, Personnel Monitoring.

RELATED POLICIES

Declared Pregnant Worker Policy

Resident/Fellows Dosimetry Policy

SEARCH WORDS

Dosimetry, radiation

ENFORCEMENT

Failure to adhere to this policy may result in loss of radiation worker privileges and the ability to work with radioactive materials or in areas utilizing radiation generating devices.

APPROVED BY

Radiation Safety Committee

Radiation Safety Officer

Revision History

Revised: 2/88 11/91, 12/94, 5/97, 2/00, 9/00, 11/03, 9/05, 04/16, 8/18, 10/18, 3/21, 3/22, 7/22