

CRITICAL ACCESS HOSPITALS

RADIOLOGY SERVICES					
Self-Assessment Questions	YES	NO	N/A	Date/Initials	Comments
<p>Note: The CAH can choose the level of radiological services offered. They may offer only a minimal set of services or a more complex range of services (including nuclear medicine) according to the needs of the patients of the CAH. While the CAH must directly provide all radiology services in the CAH, the interpretation of the roentgenograms may be contracted out.</p> <p>Reference DHSS letter regarding radioactive material authority transfer to the NRC.</p>					
Are radiological services offered by the CAH provided directly by the CAH on the CAH's campus by CAH employees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the CAH maintain and have available diagnostic radiological services that meet the needs of your patients?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are radiology services available at all times?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is the hospital's radiological services integrated into the hospital-wide QA/PI program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there policies and procedures addressing the following:					
a. protection of patients and personnel from radiation hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
b. labeling of radioactive materials, waste and hazardous areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
c. security of radioactive materials, including controlling access to radioactive materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
d. maintenance and proper storage of radiation monitoring devices?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
e. adequate shielding for patients, personnel and facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
f. proper maintenance and inspection of patient and personnel shields?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
g. transportation of radioactive materials between locations within the hospital?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
h. appropriate storage, use and disposal of radioactive materials and waste, including radio nucleotides and radiopharmaceuticals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
i. handling, calibration and testing of equipment for radiation hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
j. availability of qualified emergency radiology services 24/7?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
k. frequency and documentation of equipment inspections and corrective action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
l. monitoring of employee radiation exposure levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
m. addressing the disposal of radioactive wastes that conform with the rules and guidelines set forth in 10 CFR 20 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
n. ordering of inpatient radiation services by practitioners authorized by the medical staff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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o. which personnel are qualified to use the radiology equipment and perform procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
p. responsibilities of the director of radiology?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
q. monitoring of persons and/or personal clothing contaminated with radioactive material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Personnel					
Is the radiologist who supervises radiology services qualified in terms of education, experience and/or certification?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is he or she a member of the medical staff and appointed by the governing board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the supervising radiologist:					
a. implement the rules of the medical staff governing the quality and scope of radiology services and safety precautions to protect patients and personnel?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
b. enforce safety and infection control standards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
c. ensure radiology reports are signed by the practitioner who interpreted them?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
d. ensure that only a radiologist interprets tests that have been designated by the medical staff to require interpretation by a qualified radiologist?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
e. assign duties to radiology services personnel that are relative to their training, experience and licensure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
f. ensure emergency care is provided to patients who experience an adverse reaction to diagnostic agents in the radiology service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
g. ensure files, scans and other image records are kept in a secure area and are readily retrievable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
h. train radiology staff on how to safely operate the equipment, performs tests offered by the facility and on the management of emergency radiation hazards and accidents?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
i. supervise all radiology services?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If the radiologist who interprets radiology tests is not located in Missouri, is this radiologist licensed in Missouri?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are radiology requests authenticated and dated by the attending physician, licensed house staff or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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other medical staff?					
Is each radiotherapy treatment documented, authenticated and part of the patient's medical record?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are written radiology interpretations, consultations and procedures authenticated, documented and dated only by practitioners authorized by the medical staff to perform these interpretations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are conspicuous radiation warning signs and labels posted according to the guidelines in 10 CFR 20 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all readily accessible, but not normally occupied areas where a radiation hazard may exist, suitably restricted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are reagents labeled to ensure proper identification, use, storage, safe handling, date of preparation and assay?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If applicable, are radiopharmaceuticals prepared in-house, prepared by or under the direct supervision of a qualified registered pharmacist or M.D./D.O.?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there records documenting the training of radiology staff on: a. safely operating the equipment? b. performing the tests offered by the facility? c. managing emergency radiation hazards and accidents?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Do you perform periodic inspections of equipment on a regularly scheduled basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is documentation of equipment inspections maintained and available for two years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are these periodic inspections carried out by or under the supervision of a medical physicist?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is prompt identification and resolution of hazards carried out?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does the diagnostic x-ray equipment in your hospital conform to the requirements in 19 CSR 20-10.120 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all newly acquired, nonexempt sources of	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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radiation registered by your hospital with the NRC within 30 days after receipt?					
Are there records, dating back at least five years after final disposition or release of radioactive materials into the environment, sufficient to demonstrate compliance with rules of 10 CFR 20 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are employee records, including a summary statement of the employee's radiation dose, available for inspection by NRC during the tenure of employment and for a period of five years after?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there summary statements available to employees on request upon termination?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Does radiation exposure exceed no more than 25 millirems in any 7 day period or 325 millirems in any 13 consecutive weeks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If requested, are employees advised annually of their exposure to radiation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
If an accidental dose exceeding two times the amount permitted by applicable sections of 10 CFR 20 to a person in the facility occurs, are the following steps taken?					
a. All facts relative to the occurrence are reported in detail to the DHSS within seven days of the discovery of the facts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
b. A copy of the report is placed in that individual's personnel file.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
c. There is prompt identification and resolution of the cause of the overexposure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Do you immediately notify the NRC by telephone of the loss or theft of any source of radiation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Do you have provisions to immediately notify the NRC by telephone of all accidents involving either a public or private carrier conveying radioactive material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is a written report of the accident submitted to the DHSS within 24 hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are all radioactive materials stored such that no person, during routine access to a controlled area, is exposed in excess of the limits set forth in 10 CFR 20 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Are all radioactive materials, reagents and standards prepared, labeled, dated, stored, and checked for signs of deterioration and expiration at a defined interval determined by the director?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is all equipment inspected, tested and calibrated at least annually by qualified personnel?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there provisions to minimize the hazard to emergency workers in the event of an internal and external disaster?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Is there documentation of regular inspections of the ventilation in the vaults or rooms used for storing materials that may emit radioactive gases or airborne particulate matter?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Where there is a reasonable possibility that chemical, radiation or other action might lead to leakage of radioactive material, are the secondary tray/catchments adequate to retain the entire amount of radioactive material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Are there records of regular reviews and inspections of the methods used for disposal of radioactive wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Helpful Hints

Key Resources and Links

- [19 CSR 30-20.102](#)
- [19 CSR 20.10.020—120](#)
- [19 CFR 20-10](#)
- [COP §485.635\(b\)\(3\)](#)