**New Application: Diagnostic Radiology**

**Review Committee for Radiology**

**ACGME**

**Oversight**

**Resources**

1. Is there adequate space, necessary equipment, and modern facilities to ensure an effective educational experience for residents in all of the specialty/subspecialty rotations in diagnostic radiology? [PR 1.8.a.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Imaging Examinations Performed

All information requested below must represent each participating site with the exception of those sites where the experience is limited to a subspecialty rotation. Example: for a cardiovascular rotation, include only the cardiovascular examination data and equipment. Note that total statistics are required for a pediatric rotation. Assign site numbers as they appear in ADS. [PR 1.8.b.- 1.8.b.1.]

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| Period covered by statistics (Most recent 12-month period) | From: Click here to enter a date. | To: Click here to enter a date. |

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| --- | --- | --- | --- | --- | --- |
| **Number of Exams** | **Primary Clinical Site #1** | **Site #2** | **Site #3** | **Site #4** | **Site #5** |
| Radiography | # | # | # | # | # |
| Computed tomography | # | # | # | # | # |
| Mammography | # | # | # | # | # |
| Positron emission tomography | # | # | # | # | # |
| Magnetic resonance imaging | # | # | # | # | # |
| Ultrasound | # | # | # | # | # |
| Radionuclide imaging | # | # | # | # | # |
| Vascular/interventional | # | # | # | # | # |
| Non-vascular interventional | # | # | # | # | # |
| **Total Exams** | #. | # | # | # | # |

**Personnel**

**Program Director**

1. How much dedicated time and support will the program director be provided for administration of the program? [PR 2.4.a.]

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1. How much additional support will 60-month programs be provided with for the administration and oversight of the clinical year? [PR 2.4.b.]

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1. If the total number of requested residents is 32 or greater, is there support for at least one associate/assistant program director? [PR 2.4.c.] Yes  No

Explain if No. (Limit response to 400 words)

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**Faculty**

1. Explain how faculty members will be available when residents are on call after hours, on weekends, or on holidays. [PR 2.8.g.] (Limit response to 400 words)

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1. Identify the eight core faculty members according to the radiology practice domain they represent, the FTE devoted in their practice domain, and their commitment qualifications.\* [PR 2.8.i.) and 2.8.j.)- 2.8.k.1.]

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| --- | --- | --- | --- |
| **Practice Domain** | **Name** | **Percent FTE** | **Commitment Qualifications** |
| Abdominal (GI/GU) | Click here to enter text. | % | Click here to enter text. |
| Breast | Click here to enter text. | % | Click here to enter text. |
| Cardiothoracic | Click here to enter text. | % | Click here to enter text. |
| Interventional | Click here to enter text. | % | Click here to enter text. |
| Musculoskeletal | Click here to enter text. | % | Click here to enter text. |
| Neuroradiology | Click here to enter text. | % | Click here to enter text. |
| Nuclear radiology and molecular imaging | Click here to enter text. | % | Click here to enter text. |
| Pediatric | Click here to enter text. | % | Click here to enter text. |

\*Qualifications can include: (Indicate by number all that apply)

1. Specialty/subspecialty certification

2. Fellowship education and training

3. Three years of practice in the domain

4. Active participation in specialty/subspecialty societies

5. CME activities in the practice domain

6. Publications or presentations in the specialty/subspecialty

7. Participation in MOC with emphasis on the specialty/subspecialty

1. Indicate the physician faculty members with expertise and responsibility for the didactic content in the following educational areas: [PR 2.7.b.- 2.7.b.4.]

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| **Educational Area** | **Name** |
| Computed tomography | Click here to enter text. |
| Magnetic resonance imaging | Click here to enter text. |
| Radiography/Fluoroscopy | Click here to enter text. |
| Ultrasonography | Click here to enter text. |

1. List the physician faculty, non-physician faculty, or other staff members available to the program, within the institution, with expertise in the following. [PR 2.7.c.]

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| **Area of Expertise** | **Name** | **Qualifications** |
| Quality | Click here to enter text. | Click here to enter text. |
| Safety | Click here to enter text. | Click here to enter text. |
| Informatics | Click here to enter text. | Click here to enter text. |

**Program Coordinator**

1. Indicate the amount dedicated time and support provided for the program coordinator for administration of the program. [PR 2.12.a.- 2.12.b.] Enter text.

**Educational Program**

**Patient Care and Procedural Skills**

1. Indicate at least one outcome measure that will be used to assess residents’ delivery of safe, efficient, appropriately utilized, quality-controlled, diagnostic and/or interventional radiological techniques. [PR 4.4.a.] (Limit response to 400 words)

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1. For the areas in the table below, identify the learning activities in which residents will engage to ensure they understand the principles, indications, contraindications, risks, and interpretation of results. [PR 4.5.a.- 4.5.e.]

| **CORE CURRICULUM** | **List in Bulleted Format the Learning Activities and Settings Used to Teach Residents the Competencies for Patient Care and Procedures** | **List in Bulleted Format the Method(s) Used to Evaluate Resident Competence\*** |
| --- | --- | --- |
| **Procedures** | | |
| Performance of basic image-guided procedures | * Click here to enter text. | * Click here to enter text. |
| Computed tomography | * Click here to enter text. | * Click here to enter text. |
| Magnetic resonance imaging | * Click here to enter text. | * Click here to enter text. |
| Radiography | * Click here to enter text. | * Click here to enter text. |
| Radionuclide imaging of the cardiovascular system  (heart and great vessels) | * Click here to enter text. | * Click here to enter text. |
| Generation of ultrasound images, using the transducer and imaging system, and interpretation of ultrasonographic examinations of various types | * Click here to enter text. | * Click here to enter text. |
| Scanning experience to include the performance of at least 75 hands-on scans | * Click or tap here to enter text. | * Click or tap here to enter text. |
| Management of contrast reactions | * Click here to enter text. | * Click here to enter text. |
| Radiation exposure, protection, and safety | * Click here to enter text. | * Click here to enter text. |

\*Examples of evaluation methods for competence include: direct observation; global assessment; multisource assessment; practice/billing audit; patient survey; record/chart review; review of patient outcomes; simulations/models; structured case discussion; in-house written examination; in-training examination; oral examination; and computer-based learning.

**Medical Knowledge**

1. Identify the learning activities in which residents will engage to develop an understanding and demonstrate knowledge of the following areas. [PR 4.6.a.- 4.6.f.]

| **CORE CURRICULUM** | **List in Bulleted Format the Learning Activities and Settings Used to Teach Residents the Competencies for Medical Knowledge** | **List in Bulleted Format the Method(s) Used to Evaluate Resident Competence\*** |
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| **Procedures** | | |
| Principles of medical imaging physics, including: | * Click here to enter text. | * Click here to enter text. |
| * 1. computed tomography | * Click here to enter text. | * Click here to enter text. |
| * 1. dual-energy X-ray absorptiometry | * Click here to enter text. | * Click here to enter text. |
| * 1. fluoroscopy | * Click here to enter text. | * Click here to enter text. |
| * 1. gamma camera and hybrid imaging technologies | * Click here to enter text. | * Click here to enter text. |
| * 1. magnetic resonance imaging | * Click here to enter text. | * Click here to enter text. |
| * 1. radiography | * Click here to enter text. | * Click here to enter text. |
| * 1. ultrasonography | * Click here to enter text. | * Click here to enter text. |
| Non-interpretive skills, including health care economics, coding and billing compliance, and the business of medicine | * Click here to enter text. | * Click here to enter text. |
| Appropriate and patient-centered imaging utilization | * Click here to enter text. | * Click here to enter text. |
| Quality improvement techniques | * Click here to enter text. | * Click here to enter text. |
| Radiologic/pathologic correlation | * Click here to enter text. | * Click here to enter text. |
| Physiology, utilization, and safety of contrast agents and pharmaceuticals | * Click here to enter text. | * Click here to enter text. |

**Interpersonal and Communication Skills**

1. Indicate at least one outcome measure that will be used to assess residents’ competence in obtaining informed consent and effectively describing imaging appropriateness, safety issues, and the results of diagnostic imaging and procedures to patients. [PR 4.8.a.1.] (Limit response to 400 words)

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1. Indicate at least one outcome measure that will be used to assess residents’ competence in communicating the results of examinations and procedures to the referring provider and/or other appropriate individuals effectively and in a timely manner. [PR 4.8.b.1.] (Limit response to 400 words)

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1. Indicate at least one outcome measure that will be used to assess residents’ competence in supervising, providing consultation to, and teaching medical students and/or residents. [PR 4.8.h.] (Limit response to 400 words)

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**Curriculum Organization and Resident Experiences**

1. Is there a core didactic curriculum that repeats at least every two years?   
   [PR 4.11.a.1.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will the didactic curriculum provide and document at least five hours per week of didactic activities to include interactive conferences and interdisciplinary conferences in which both residents and faculty members participate on a regular basis? [PR 4.11.a.2.- 4.11.a.5.]

Yes  No

Explain if No. (Limit response to 400 words)

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1. Will residents be provided protected time to attend didactic activities scheduled by the program? [PR 4.11.b.] Yes  No

Explain if NO (Limit response to 400 words)

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1. Describe the mechanisms that will be provided for residents to participate either in-person or by electronic means? [PR 4.11.b.- 4.11.c.] (Limit response to 400 words)

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1. Will the didactic curriculum include the following topics? [PRs 4.11.e.-4.11.e.3.]
   1. Anatomy Yes  No
   2. Disease processes Yes  No
   3. Imaging Yes  No
   4. Physiology Yes  No
   5. Specialty/subspecialty clinical and general content Yes  No
   6. Topics related to:
      1. Professionalism Yes  No
      2. Physician well-being Yes  No
      3. Diversity inclusion Yes  No
      4. Ethics Yes  No
2. Is training in the clinical application of medical physics distributed throughout the 48 months of the educational program? [PR 4.11.e.4.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will a medical physicist oversee the development of the physics curriculum? [PR 4.11.e.4.a.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will the curriculum include real-time expert discussions and interactive educational experiences? [PR 4.11.e.4.b.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will a minimum of 80 hours of classroom and laboratory training in basic radionuclide handling techniques applicable to the medical use of unsealed by product material for imaging and localization studies (10 CFR 35.290) and oral administration of sodium iodide I-131 for procedures requiring a written directive (10 CFR 35.392, 10 CFR 35.394) be provided? [PR 4.11.e.5.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Provide a representative monthly schedule of conferences. [PR 4.11.a.]

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1. Will each resident complete a minimum of 12 months of diagnostic radiology education and training prior to interpreting examinations without direct supervision? [PR 4.11.p.]

Yes  No

Explain if No. (Limit response to 400 words)

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1. Describe the supervision available to residents during on-call activities. [PRs 4.11.q.2.- 4.11.q.2.a.] (Limit response to 400 words)

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1. Will residents’ on-call experiences include interpretation, reporting, and management of active cases, and not include administrative roles or duties consisting primarily of re-review of previously reported cases? [PR 4.11.q.3.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will residents be provided relief from after-hours work assignments for more than three months preceding the ABR Core Examination? [PR 4.11.q.4.] Yes  No

Explain if Yes. (Limit response to 400 words)

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1. Will residents participate in patient care and radiology-related activities throughout all 48-months of the educational program? [PR 4.11.r.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will residents be provided with a minimum of 700 hours of training and work experience, under the supervision of an authorized user (AU), in basic radionuclide handling techniques and radiation safety applicable to the medical use of unsealed byproduct material for imaging and localization studies (10 CFR 35.290) and oral administration of sodium iodide I-131 for procedures requiring a written directive (10 CFR 35.392, 10 CFR 35.394)? [PR 4.11.o.] Yes  No 
   1. Will residents’ work experience be supervised and involve all operational and quality control procedures integral to the practice of nuclear radiology? [PR 4.11.o.1.] Yes  No
   2. Under an AU preceptor, will residents participate in at least three cases involving the following?
      1. The oral administration of **less than or equal** **to** 1.22 gigabecquerels (33 millicuries) [PR 4.11.o.2.a.] Yes  No

* + 1. The oral administration of **greater than** 1.22 gigabecquerels (33 millicuries) of sodium iodide I-131 [PR 4.11.o.2.a. ]   
        Yes  No 
       1. Will this include resident participation in patient selection and preparation, completion of documentation (including the written directive and informed consent), understanding and calculating the administered dosage, counseling of patients and their families on radiation safety issues, determining release criteria, arranging patient follow up, and making pregnancy and breastfeeding recommendations? [PRs 4.11.o.2.b.- 4.11.o.2.h. Yes  No

Explain any ‘No’ responses. (Limit response to 500 words)

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1. Will each resident complete a minimum of 12 weeks of clinical rotations in breast imaging? [PR 4.11.n.] Yes  No

Explain if No. (Limit response to 400 words)

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1. Will each resident maintain current certification in advanced cardiac life support? [PR 4.11.s.] Yes  No

Explain if No. (Limit response to 400 words)

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| Click here to enter text. |

1. Will each resident maintain a Resident Learning Portfolio that includes documentation of all of the required elements in PR 4.11.v.1.- 4.11.v.12.]  
    Yes  No

Explain if No. (Limit response to 400 words)

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**Scholarship**

1. Describe the planned learning activities designed to educate and train residents in critical thinking skills and research design. [PR 4.15.a.] (Limit response to 400 words)

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1. Will all residents engage in a scholarly project under faculty member supervision? [PR 4.15.b.] Yes  No

Explain if No. (Limit response to 400 words)

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| Click here to enter text. |

1. Briefly describe how the program will track resident submissions for publications and presentations. [PR 4.15.b.1. and 4.15.c.]

(Limit response to 500 words)

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**Evaluation**

1. Will the program director ensure that written faculty member end-of-rotation evaluations are provided to residents within one month of completion of each rotation? [PR 5.1.a.3.]  
    Yes  No

Explain if No. (Limit response to 400 words)

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| Click here to enter text. |

1. Will the program director ensure that assessments of residents include the following?   
   [PRs 5.1.b.4.- 5.1.b.4.d.]
   1. Global faculty evaluation (all competencies) Yes  No
   2. Multi-source evaluation (for interpersonal skills/communication and professionalism) Yes  No
   3. Resident ability to take independent call Yes  No
   4. Review of the Resident Learning Portfolio Yes  No
2. Describe the program’s process for remediation of resident underperformance.  
   [PR 5.1.e.1.] (Limit response to 400 words)

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