**Continued Accreditation Application: Radiology**

401 North Michigan Avenue · Chicago, Illinois 60611 · United States · +1.312.755.7042 www.acgme-i.org

**Submission for Continued Accreditation:** This Advanced Specialty Application is for programs applying for **Continued Accreditation ONLY**and is used in conjunction with the Accreditation Data System (ADS).

All sections of the form applicable to the program must be completed for it to be accepted for review. The information provided should describe the existing program. For items that do not apply, indicate “N/A” in the space provided. Where patient numbers are requested, provide exact numbers as requested and indicate the exact dates for the data entered. If any requested information is unavailable, an explanation must be given, and it should also be indicated as unavailable in the appropriate place on the form. Once the form is complete, number the pages sequentially in the bottom center.

The program director is responsible for the accuracy of the information supplied in this form, and must sign it. It must also be signed by the designated institutional official (DIO) of the Sponsoring Institution, who will submit the application electronically in ADS.

Review the International Foundational Program Requirements for Graduate Medical Education and Advanced Specialty Program Requirements for Graduate Medical Education in Radiology. The International Foundational, Advanced Specialty, and Institutional Requirements may be downloaded from the ACGME International website: [www.acgme-i.org](http://www.acgme-i.org/).

Email questions regarding the form’s content to [acgme-i@acgme-i.org](mailto:acgme-i@acgme-i.org).

Email questions regarding ADS to [ADS@acgme.org](mailto:ADS@acgme.org) (type the program number in the subject line).

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|  |
| --- |
| Program Name: Click here to enter text. |

**Table of Contents**

When the forms are completed, **number each page sequentially in the bottom center**. Report this pagination in the Table of Contents and submit this cover page with the completed application.

|  |  |
| --- | --- |
| **Advanced Specialty Continued Application** | **Page(s)** |
| **Int. Introduction** | # |
| Duration of Education | # |
| **I. Institution** | # |
| I.A. Sponsoring Institution | NA |
| I.B. Participating Sites | # |
| **II. Program Personnel and Resources** | # |
| II.A. Program Director | # |
| II.B. Faculty | # |
| II.C. Other Program Personnel | # |
| II.D. Resources | # |
| **III. Resident Appointment** | # |
| III.A. Eligibility Criteria | # |
| III.B. Number of Residents | # |
| III.C. Resident Transfers | NA |
| III.D. Appointment of Fellows and Other Learners | NA |
| **IV. Specialty-Specific Educational Program** | # |
| IV.A. ACGME-I Competencies | # |
| IV.B. Regularly Scheduled Educational Activities | # |
| IV.C. Clinical Experiences | # |
| IV.D. Scholarly Activity | # |
| **V. Evaluation** | NA |
| **VI. The Learning and Working Environment** | # |
| VI.A. Principles | NA |
| VI.B. Patient Safety | NA |
| VI.C. Quality Improvement | NA |
| VI.D. Supervision and Accountability | # |
| VI.E. Professionalism | NA |
| VI.F. Well-Being | NA |
| VI.G. Fatigue | NA |
| VI.H. Transitions of Care | NA |
| VI.I. Clinical Experience and Education | NA |
| VI.J. On-Call activities | # |
| Appendix A. Formal Didactic Sessions by Academic Year | # |

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**Introduction**

**Duration and Scope of Education**

* + - 1. Does the residency program include an integrated PGY-1? YES NO

If ’YES,’ complete all sections of the application that pertain to the PGY-1.

|  |
| --- |
| * + - 1. What is the length, in months, of the educational program?   Choose an item. |

**Institutions**

**Participating Sites**

How does the program ensure that residents interact with residents and fellows from other specialties and subspecialties to facilitate the interchange of knowledge and experience? (Limit 250 words)

|  |
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* + - 1. Does the program use multiple participating sites for resident education? YES NO

If ‘YES,’ how does the program ensure provision of a cohesive educational experience?   
(Limit 300 words)

|  |
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If ‘YES,’ how does the program ensure each site offers meaningful educational experiences that enrich the overall program? (Limit 300 words)

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**Program Personnel and Resources**

**Program Director**

Does the program director:

maintain an active practice in radiology? YES NO

participate in faculty development activities? YES NO

review procedural experiences at least annually? YES NO

Explain an ‘NO’ responses. (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

**Faculty**

* + - 1. List all faculty members with education/training and expertise in each of the practice domains. Add rows as needed.

|  |  |  |
| --- | --- | --- |
| **Subspecialty Area** | **Name of Faculty Member** | **Percent Time Devoted to this Subspecialty Area** |
| Abdominal radiology |  |  |
|  |  |
|  |  |
|  |  |
| Breast radiology |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Cardiothoracic radiology |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Interventional radiology |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Musculoskeletal radiology |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Neuroradiology |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Nuclear radiology and molecular imaging |  |  |
|  |  |
|  |  |
|  |  |
| Pediatric radiology |  |  |
|  |  |
|  |  |
|  |  |

* + - 1. Explain if any of the faculty members listed above do not demonstrate commitment to the practice domain by one of the following:
         1. Subspecialty certification
         2. Successful completion of a fellowship
         3. Three years of subspecialty practice
         4. Active participation in a clinical or academic society associated with the practice domain
         5. Publications and presentations in the practice domain
         6. Annual continuing medical education credits in the practice domain

(Limit 400 words)

|  |
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* + - 1. Is one core faculty member responsible for the educational content of each practice domain, including organizing conferences that cover topics in that domain? YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

* + - 1. Does one faculty member ensure that subject matter experts develop and conduct didactic sessions in each of the following?
         1. Computed tomography (CT) YES NO
         2. Magnetic resonance imaging (MRI) YES NO
         3. Radiography/fluoroscopy YES NO
         4. Reproductive/endocrine imaging YES NO
         5. Ultrasonography YES NO
         6. Vascular imaging? YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
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| Click here to enter text. |

* + - 1. Are there faculty members or other staff members within the Sponsoring Institution with expertise in quality, safety, and informatics? YES NO

If “YES,” will these experts develop didactic content related to their area of expertise? YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
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| Click here to enter text. |

* + - 1. How does the program ensure that no faculty member has primary responsibility for the educational content of more than one practice domain? (Limit 250 words)

|  |
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**Other Program Personnel**

Is there a dedicated program coordinator who has sufficient time to fulfill the responsibilities essential to meeting the educational goals and administrative requirements of the program? YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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**Resources**

1. How does the program ensure there is adequate space, necessary equipment, and modern facilities as required for all rotations? (Limit 400 words)

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1. Using site numbers as they appear in ADS, complete the table below with the total radiologic examinations performed at each participating site during the last 12-month period. *Site #1 is the primary clinical site.*

|  |  |
| --- | --- |
| **Site Number** | **Total Number of Radiologic Examinations in the Last 12 Months** |
| Site #1 | # |
| Site #2 | # |
| Site #3 | # |
| Site #4 | # |
| Site #5 | # |

1. Using site numbers as they appear in ADS, complete the table below with the total number of examinations in each of the practice domains at each participating site during the last 12-month period. *Site #1 is the primary clinical site.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Practice Domain** | **Site Number** | | | | |
| **Site #1** | **Site #2** | **Site #3** | **Site #4** | **Site #5** |
| Neuroradiology | # | # | # | # | # |
| Musculoskeletal radiology | # | # | # | # | # |
| Vascular and Interventional radiology | # | # | # | # | # |
| Cardiothoracic radiology | # | # | # | # | # |
| Breast radiology | # | # | # | # | # |
| Abdominal radiology | # | # | # | # | # |
| Pediatric radiology | # | # | # | # | # |
| Ultrasonography | # | # | # | # | # |
| Nuclear radiology | # | # | # | # | # |

Describe any additional sites not indicated above. (Limit 300 words)

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| Click here to enter text. |

**Resident Appointment**

**Eligibility Criteria**

1. How do entering residents complete the prerequisite broad-based clinical year?
2. Completion of an ACGME-I-, Accreditation Council for Graduate Medical Education (ACGME)-, or Royal College of Physicians and Surgeons of Canada (RCPSC)-accredited transitional year program YES NO
3. Completion of 12 months of general surgery or internal medicine YES NO
4. Completion of a PGY-1 with oversight from a government or regulatory body YES NO
5. Through a PGY-1 integrated into the radiology residency program YES NO

Explain if ‘NO’ to all of the above. (Limit 250 words)

|  |
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If the broad-based clinical year is the responsibility of a governmental or regulatory body, answer Questions 2 and 3 below.

If the program includes an integrated PGY-1, answer Questions 4 and 5 below.

If the broad-based clinical year is completed in an accredited program or an accredited preliminary year, skip to the Number of Residents section below.

1. What clinical experiences are required by the governmental or regulatory body responsible for the broad-based clinical year? (Limit 400 words)

|  |
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1. How does the program ensure that an evaluation of each resident’s fundamental clinical skills is completed within six weeks of matriculation into the categorical residency? (Limit 300 words)

|  |
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| Click here to enter text. |

1. Does the integrated PGY-1:
   1. allow residents to engage in direct patient care, including writing orders, progress notes, and relevant records? YES NO
   2. allow residents to have first-contact responsibility for evaluation and management of all types and acuity levels of patients with proper supervision? YES NO
   3. allow residents to have responsibility for decision-making? YES NO
   4. provide a structured program based on scientific knowledge and evidence-based medicine?  
       YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

1. Do all residents entering the first year of the categorical radiology program have opportunities to achieve the following clinical skills and competencies during the integrated PGY-1?
2. Obtaining a comprehensive medical history YES NO
3. Performing a comprehensive physical examination YES NO
4. Assessing a patient’s medical condition YES NO
5. Making appropriate use of diagnostic studies and tests YES NO
6. Integrating information to develop a differential diagnosis YES NO
7. Developing, implementing, and evaluating a treatment plan YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
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**Number of Residents**

How does the program ensure there are a minimum of two residents in each year of the educational program? (Limit 300 words)

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**Specialty-Specific Educational Program**

**ACGME-I Competencies**

**Professionalism**

1. How do graduating residents demonstrate a commitment to fulfilling their professional responsibilities and adhering to ethical principles?

Describe how this is evaluated. (Limit 300 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate the following?

Compassion, integrity, and respect for others

* 1. Responsiveness to patient needs that supersedes self-interest
  2. Respect for patient privacy and autonomy
  3. Accountability to patients, society, and the profession
  4. Sensitivity and responsiveness to a diverse patient population, including to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation
  5. Ethical and medical jurisprudence

Provide examples of how these traits are assessed in four of the six areas listed. (Limit 400 words)

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**Patient Care and Procedural Skills**

1. How do graduating residents demonstrate the ability to provide population (patient) care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health?

Describe how this is evaluated. (Limit 300 words)

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| Click here to enter text. |

1. How do graduating residents demonstrate competence in safe, efficient, appropriately utilized, and quality-controlled radiology techniques? (Limit 400 words)

|  |
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1. How do graduating residents demonstrate competence in the following?

Generating ultrasound images using the transducer and imaging system, and interpreting ultrasonographic examinations of various types

Interpreting CT, MRI, radiography, and radionuclide imaging of the cardiovascular system (heart and great vessels)

Interpreting images obtained during the performance of interventional procedures and integration of the imaging findings into the procedure

Provide examples of how competence is assessed in each of areas listed. (Limit 350 words)

|  |
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1. How do graduating residents demonstrate competence in the following?

Applying low-dose radiation to adults and children

Managing contrast reactions

Provide examples of how competence is assessed in each of areas listed. (Limit 250 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate competence in using needles, catheters, guide wires, balloons, stents, stent-grafts, vascular filters, embolic agents, biopsy devices, ablative technologies, and other interventional devices? (Limit 400 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate competence in the following?

Accessing, interpreting, and applying best scientific evidence to the care of patients (evidence-based medicine)

Administering pharmacologic agents, including sedatives, analgesics, antibiotics, and other drugs commonly employed in conjunction with endovascular, invasive, and non-vascular procedures

Awareness of radiation exposure, protection, and safety, as well as the application of these principles in imaging

Communicating effectively and in a timely manner the results of procedures, studies, and examinations to the referring physician and/or appropriate individuals

Provide examples of how competence is assessed in three of the four areas listed. (Limit 300 words)

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1. How does the program evaluate graduating residents’ ability to perform basic image-guided procedures and perform invasive diagnostic venous and arterial imaging? (Limit 300 words)

|  |
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1. How does the program ensure all residents have experience with a sufficient variety of patients and pathological conditions to competently perform vascular and non-vascular image-guided interventions? (Limit 300 words)

|  |
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| Click here to enter text. |

**Medical Knowledge**

How do graduating residents demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care?

Describe how these traits are evaluated. (Limit 400 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate their knowledge of the following?
2. Appropriate and patient-centered imaging utilization
3. Health care economics
4. Physiology, utilization, and safety of contrast agents and pharmaceuticals
5. Quality improvement techniques
6. Radiologic/pathologic correlation
7. The principles of imaging physics, including CT, dual-energy X-ray absorptiometry, fluoroscopy, gamma camera and hybrid imaging, MRI, radiography, and ultrasonography

Describe how knowledge is assessed in four of the six areas listed. (Limit 400 words)

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**Practice-based Learning and Improvement**

1. How do graduating residents demonstrate their ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning?

Describe how these are evaluated. (Limit 300 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate they have developed skills and habits to meet the following goals?
2. Identify strengths, deficiencies, and limits in one’s knowledge and expertise
3. Identify and perform appropriate learning activities
4. Incorporate formative evaluation feedback into daily practice
5. Locate, appraise, and assimilate evidence from scientific studies related to their patients’ health problems
6. Participate in the education of patients, patients’ families, students, other residents, and other health professionals
7. Set learning and improvement goals
8. Systematically analyze clinical practice using quality improvement methods, and implement changes with the goal of practice improvement
9. Use information technology to optimize learning

Provide examples of how skills are assessed in five of the eight areas listed. (Limit 500 words)

|  |
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| Click here to enter text. |

**Interpersonal and Communication Skills**

1. How do graduating residents demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals?

Describe how these skills are evaluated. (Limit 300 words)

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| Click here to enter text. |

1. How do graduating residents demonstrate the following abilities?
2. Communicating effectively with patients, patients’ families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds
3. Communicating effectively with physicians, other health professionals, and health-related agencies
4. Working effectively as a member or leader of a health care team or other professional group
5. Acting in a consultative role to other physicians and health professionals
6. Maintaining comprehensive, timely, and legible medical records
7. Obtaining informed consent, and effectively describing imaging appropriateness, safety issues, and the results of diagnostic imaging and procedures to patients
8. Supervising, providing consultation to, and teaching medical students and/or other residents
9. Functioning as a consultant for other health care professionals and acting as a resource for information regarding the most appropriate use of imaging resources

Provide examples of how skills are assessed in five of the eight areas listed. (Limit 500 words)

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| Click here to enter text. |

**Systems-based Practice**

1. How do graduating residents demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care?

Describe how these skills are evaluated. (Limit 300 words)

|  |
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| Click here to enter text. |

1. How do graduating residents demonstrate the following abilities?
2. Working effectively in various health care delivery settings and systems relevant to their clinical specialty
3. Coordinating patient care within the health care system relevant to their clinical specialty
4. Incorporating considerations of cost awareness and risk-benefit analysis in patient and/or population-based care as appropriate
5. Advocating for quality patient care and optimal patient care systems
6. Working in interprofessional teams to enhance patient safety and improve patient care quality
7. Participating in identifying system errors and implementing potential systems solutions

Provide examples of how skills are assessed in four of the six areas listed. (Limit 400 words)

|  |
| --- |
| Click here to enter text. |

**Regularly Scheduled Educational Activities**

1. Complete Appendix A, Formal Didactic Sessions by Academic Year, and attach to submission.
2. If it includes an integrated PGY-1,how does the program ensure didactic sessions during the PGY-1 are planned to enhance and correspond to the residents’ fundamental clinical skills education? (Limit 300 words)

|  |
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| Click here to enter text. |

1. Does the curriculum include at least five hours per week of didactic education? YES NO

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

If ‘YES,’ are the following topics included?

Anatomy YES NO

Chemistry of by-product material for medical use YES NO

Classroom and laboratory training in basic radionuclide handling techniques YES NO

Clinical application of medical physics YES NO

Content in each of the practice domains YES NO

Disease processes YES NO

Diversity YES NO

Ethics YES NO

Imaging and physiology YES NO

Instrumentation and radiation biology YES NO

Mathematics pertaining to use and measurement of radioactivity YES NO

Radiation physics YES NO

Physician well-being YES NO

Professionalism YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

* + - 1. How does the program ensure there are interactive conferences and interdepartmental conferences in which both residents and faculty members participate? (Limit 300 words)

|  |
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| Click here to enter text. |

1. Do all residents:
   1. have the ability to participate in all scheduled didactic conferences either in-person or by electronic means? YES NO
   2. have protected time to attend lectures and conferences scheduled by the program? YES NO

Explain any ‘NO’ responses. (Limit 250 words)

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| Click here to enter text. |

**Clinical Experiences**

If the program includes an integrated PGY-1, answer Questions 1-4 below.  
If the program does not have an integrated PGY-1, skip to Question 5 below.

What is the duration (in months where four weeks = one month) for each rotation or experience during the integrated PGY-1?

|  |  |
| --- | --- |
| Critical care | Duration |
| Diagnostic radiology | Duration |
| Emergency medicine | Duration |
| Family medicine | Duration |
| Internal medicine | Duration |
| Neurology | Duration |
| Obstetrics and gynecology | Duration |
| Pediatrics | Duration |
| Surgery or other surgical specialties | Duration |
| Elective experiences | Duration |

1. Do all residents have clinical experiences in ambulatory care during the integrated PGY-1?

YES NO

If ‘YES,’ indicate the number of hours of planned ambulatory care experience: # hours

Explain if ‘NO.’ (Limit 250 words)

|  |
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| Click here to enter text. |

1. Do all residents entering the first year of the categorical radiology program complete each of the rotations indicated in the table in Question 1 above? YES NO

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

1. Are elective experiences during the integrated PGY-1 determined by the educational needs of each individual resident? YES NO

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

1. How is the educational program structured to allow residents to have clinical experiences in nuclear radiology, including positron emission tomography (PET) and nuclear cardiology, ultrasonography (to include obstetric and vascular ultrasound), breast radiology, cardiac radiology, gastrointestinal radiology, reproductive and endocrine radiology, thoracic radiology, urinary radiology, and vascular radiology? (Limit 500 words)

|  |
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| Click here to enter text. |

1. For programs with 48 months of education in radiology, does the period of time in any one of the 10 subspecialty areas exceed 16 months? YES NO NA

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

1. For programs with 60 months of education in radiology, does the period of time in any one of the 10 subspecialty areas exceed 20 months? YES NO NA

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

1. Do all residents have an experience in clinical nuclear radiology? YES NO

If ‘YES,’ does the experience:

include adhering to the ALARA (as low as reasonably achievable) principle? YES NO

* 1. include calibrating and administering unsealed radioactive materials for diagnostic and therapeutic use? YES NO
  2. include completing written directives? YES NO
  3. include conducting area surveys? YES NO
  4. include ensuring radiation protection, including use of dosimeters, exposure limits, and signage? YES NO
  5. include managing radioactive waste? YES NO
  6. include prevention of medical events? include using radiation measuring instruments?   
      YES NO
  7. include receiving packages? YES NO
  8. include responding to radiation spills and accidents? YES NO
  9. include supervision by a faculty member with expertise in basic radionuclide handling techniques and radiation safety? YES NO
  10. include using generator systems? YES NO
  11. include using radiation measuring instruments? YES NO
  12. involve all operational and quality control procedures integral to the practice of nuclear radiology? YES NO

Explain any ‘NO’ responses. (Limit 250 words)

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| Click here to enter text. |

1. Does each resident have documented supervised experience in oral administration of I-131?  
    YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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| Click here to enter text. |

1. How does the program ensure all residents have clinical rotations in breast imaging and document the interpretation/multi-reading of mammograms in the ACGME-I Case Log System?   
   (Limit 300 words)

|  |
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| Click here to enter text. |

1. Does each resident have documented supervised experience in the following interventional procedures, including the performance, interpretation, and complications of each?
2. Angioplasty YES NO
3. Drainage procedures YES NO
4. Embolization and infusion procedures YES NO
5. Image-guided biopsies YES NO
6. Other percutaneous interventional procedures YES NO

Explain any ‘NO’ responses. (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

1. How does the program ensure all residents maintain current certification in advanced cardiac life support? (Limit 250 words)

|  |
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| Click here to enter text. |

1. Do all residents have experience in sedation analgesia? YES NO

Explain if ‘NO.’ (Limit 250 words)

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**Scholarly Activity**

* 1. Do all residents have education and training in critical thinking skills and research design?  
      YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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| Click here to enter text. |

* 1. Do all residents engage in a scholarly project under faculty member supervision? YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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* 1. How does the program ensure all resident research projects are published or presented at institutional, local, regional, or national meetings? (Limit 300 words)

|  |
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* 1. How are resident research projects evaluated? (Limit 300 words)

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**The Learning and Working Environment**

**Supervision and Accountability**

Is faculty member supervision available at all participating sites? YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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| Click here to enter text. |

How does the program ensure a systematic review of radiologic images evaluated only by residents is conducted to confirm accuracy, including that all residents’ reports are signed and reviewed by faculty members within 24 hours? (Limit 400 words)

|  |
| --- |
| Click here to enter text. |

Do residents always have faculty members available when taking night, weekend, or holiday call?

YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
| --- |
| Click here to enter text. |

* 1. How does the program ensure residents interpret examinations with direct supervision until they have completed at least 12 months of the educational program? (Limit 300 words)

|  |
| --- |
| Click here to enter text. |

**On-Call Activities**

* 1. How does the program ensure residents’ on-call activities, including duty after hours and on weekends and holidays, begin in the second year of the educational program and occur throughout the remainder of the program?(Limit 300 words)

|  |
| --- |
| Click here to enter text. |

1. Do residents’ on-call experiences include interpretation, reporting, and management of active cases? YES NO

Explain if ‘NO.’ (Limit 250 words)

|  |
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| Click here to enter text. |

Appendix A. Formal Didactic Sessions by Academic Year

For each year of the residency, attach (Label: Appendix A.) a list of all scheduled didactic courses (including discussion groups, seminars and conferences, grand rounds, basic science, skills labs, and journal club) at all participating sites to which residents rotate using the format below. If attended by residents from multiple years, list in each year but provide a full description *only the first time a site is listed*.

Number sessions **consecutively** from the first year through the final year so that the scheduled didactic sessions can be easily referenced throughout the application. **Be brief and use the outline that follows**.

Year in the Program:

Number: Title:

a) Type of Format (e.g., seminar, conference, discussion groups)

b) Required or elective

c) Brief description (three or four sentences)

d) Frequency, length of session, and total number of sessions

**Example:**

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| Y-1  01. Introduction to Radiology  a) Seminar  b) Required Y-1  c) Survey of contemporary methods and styles of radiology, including approaches to clinical work with minority populations.  d) Weekly, for 8 sessions  02. Departmental Grand Rounds  a) Discussion groups  b) Required, Y-1, Y-2, Y-3; Elective Y-4  c) Clinical case presentations, sponsored by each departmental division, followed by discussion and review of contemporary state of knowledge. Format includes resident presentations and discussions with additional faculty discussant.  d) Twice monthly, 24 sessions |

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If resident attendance is monitored, explain how this is accomplished and how feedback is given regarding non-attendance. (Limit 250 words)