**New Application: Musculoskeletal Radiology**

**Review Committee for Radiology**

**ACGME**

**Participating Sites**

1. Name and 10-digit program ID of ACGME-accredited diagnostic radiology program with which the fellowship program is associated. [PR 1.2.a.]

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| Click here to enter text. |

1. Are ACGME-accredited residency programs in the following specialties available in the primary clinical site? [PR 1.2.b.-1.2.c.]
2. Orthopaedic Surgery [ ]  YES [ ]  NO
3. Pathology [ ]  YES [ ]  NO
4. Rheumatology [ ]  YES [ ]  NO

Briefly explain any “no” responses. (Limit response to 200 words)

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**Program Personnel and Resources**

**Program Director**

1. What percentage of time does the program director spend in the subspecialty? [PR 2.4.e.] # %

**Other Program Personnel**

1. Is there a program coordinator available to the program? [ ]  YES [ ]  NO

 [PR 2.11.]

1. Does the program coordinator have support adequate for administration of the program? [PR 2.11.a.-2.11.b.] [ ]  YES [ ]  NO
2. Will the program provide fellows with shared experiences with residents and fellows in the following specialties? [PR 1.11.a.]
3. Orthopaedic surgery [ ]  YES [ ]  NO
4. Pathology [ ]  YES [ ]  NO
5. Rheumatology [ ]  YES [ ]  NO
6. Surgical subspecialties specify here [ ]  YES [ ]  NO
7. Others: specify here [ ]  YES [ ]  NO

Briefly explain any “no” responses. (Limit response to 200 words)

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1. Indicate whether faculty in each of the following disciplines will be available to supervise and teach fellows. [PR 1.11.a.1.] Site numbers in the table below should correspond to their listing in the ACGME’s Accreditation Data System (ADS).

|  | **Site #1** | **Site #2** | **Site #3** |
| --- | --- | --- | --- |
|  | **YES****(Include Number)** | **NO** | **YES****(Include Number)** | **NO** | **YES****(Include Number)** | **NO** |
| Orthopaedic surgeon | # |[ ]  # |[ ]  # |[ ]
| Pathologist | # |[ ]  # |[ ]  # |[ ]
| Rheumatologist | # |[ ]  # |[ ]  # |[ ]
| Surgical subspecialties | # |[ ]  # |[ ]  # |[ ]
| Other: specify | # |[ ]  # |[ ]  # |[ ]

Briefly explain any “no” responses. (Limit response to 200 words)

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**Resources**

1. Briefly describe the facilities and space available for the education of fellows, including study space, conference space, and access to computers. [PR 1.8.b.-1.8.b.1.]

(Limit response to 200 words)

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1. Briefly describe fellows’ access to subspecialty-specific reference material including medical literature databases. [PR 1.10.]

(Limit response to 200 words)

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1. Patient Data [PR 1.8.e.-1.8.f.]

Site numbers in the table below should correspond to their listing in ADS. Use the same reporting period throughout the application document.

Provide the following information for the most recent 12-month period.

|  |  |  |
| --- | --- | --- |
| Inclusive Dates  | From: Click here to enter a date. | To: Click here to enter a date. |

| **Patient Examination Data** | **Site #1** | **Site #2** | **Site #3** |
| --- | --- | --- | --- |
| **Outpatient** | **Inpatient** | **Outpatient** | **Inpatient** | **Outpatient** | **Inpatient** |
| Diagnostic examinations in the Radiology department  |
| Total number of examinations | # | # | # | # | # | # |
| Adult | # | # | # | # | # | # |
| Pediatric | # | # | # | # | # | # |
| Musculoskeletal exams | # | # | # | # | # | # |
| Number of emergency room radiology exams (included above) |
| Adult | # | # | # | # | # | # |
| Pediatric | # | # | # | # | # | # |
| Total | # | # | # | # | # | # |

1. For the most recent 12-month period, provide the data requested below regarding the number of procedures performed at each site that will participate in the program. [PR 1.8.e.]

| **Exam/Procedure** | **CPT** | **Site #1** | **Site #2** | **Site #3** | **Site #4** |
| --- | --- | --- | --- | --- | --- |
| **Magnetic Resonance Imaging** |
| Ankle | 73721 | # | # | # | # |
| Elbow | 73221 | # | # | # | # |
| Foot | 73718  | # | # | # | # |
| Knee | 73721 | # | # | # | # |
| Pelvis/hips | 27093, 73722, 73718, 73721 | # | # | # | # |
| Shoulder | 73221, 73222, 23350 | # | # | # | # |
| Spine | 72141, 72148, 72146 | # | # | # | # |
| Wrist | 73221 | # | # | # | # |
| Total |  | # | # | # | # |
| **Computed Tomography** |
| Lower extremity | 73700 | # | # | # | # |
| Upper extremity | 73200 | # | # | # | # |
| Spine | 72125, 72128, 72131  | # | # | # | # |
| Total |  | # | # | # | # |
| **Nuclear/PET** |
| Bone and joint | 78300 | # | # | # | # |
| Whole body | 78306, 78104 | # | # | # | # |
| Three phase | 78315 | # | # | # | # |
| SPECT | 78320, 78803 | # | # | # | # |
| PET limited area | 78811 | # | # | # | # |
| PET whole body | 78813 | # | # | # | # |
| PET/CT limited area | 78814 | # | # | # | # |
| PET/CT whole body | 78816 | # | # | # | # |
| Total |  | # | # | # | # |
| **Ultrasound** |
| Extremity | 76881, 76885 | # | # | # | # |
| **Bone Mineral Density** |
| Hip/Spine | 77080, 77081  | # | # | # | # |
| Wrist | 77081 | # | # | # | # |
| Total |  | # | # | # | # |
| **Diagnostic/Therapeutic Injections, Aspirations** |
| Ankle | 27648 |  |  |  |  |
| Aspirations-Small joint | 10005, 10160, 20600 | # | # | # | # |
| Aspirations-Intermediate joint | 20605 | # | # | # | # |
| Aspirations-Major joint | 20610, 20611 | # | # | # | # |
| Elbow | 24220, 73085 | # | # | # | # |
| Hip | 27093, 73525 | # | # | # | # |
| Knee | 27370, 73580 | # | # | # | # |
| Shoulder | 23350, 73040 | # | # | # | # |
| Wrist | 73115 |  |  |  |  |
| Total |  | # | # | # | # |
| **Image Guided Biopsies** |
| Bone | 20225, 20220, 38221 | # | # | # | # |
| Soft tissue | 20206 | # | # | # | # |
| Total |  | # | # | # | # |

**Fellow Appointments**

1. How will the program director ensure the fellows will not dilute or detract from the educational opportunities available to residents in the core diagnostic radiology residency program? [PR 1.11.b.]

(Limit response to 200 words)

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| Click here to enter text. |

1. Explain the distinction between the diagnostic radiology residents and the fellows in terms of clinical activities and level of responsibility. [PR 1.11.c.]

(Limit response to 200 words)

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**Educational Program**

**Patient Care**

1. For the patient care and procedural areas listed in the table below, identify the learning activities, settings and evaluation methods for the fellows.

| **CORE CURRICULUM** | **List in Bulleted Format the Learning Activities and Settings Used to Address the Core Knowledge Areas for Patient Care and Procedures** | **List in Bulleted Format the Method(s) Used to Evaluate Fellow Competence\*** |
| --- | --- | --- |
| Demonstrate competence in providing consultation with referring physicians or services[PR 4.4.a.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate competence in following standards of care for practicing in a safe environment, attempting to reduce errors, and improving patient outcomes[PR 4.4.b.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate competence in interpreting all specified exams and/or invasive studies under close, graded responsibility and supervision[PR 4.4.c.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate competence in educating diagnostic and interventional radiology residents, and if appropriate, residents of other disciplines, medical students and other professional personnel, in the care and management of patients[PR 4.4.d.]  | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate competence in applying low dose radiation techniques for both adults and children[PR 4.5.a.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate competence in performing all specified exams and/or invasive studies under close, graded responsibility and supervision[PR 4.5.b.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate graduated responsibility as competence increases for invasive procedures; including pre- and post-procedural patient care[PR 4.5.c.]  | * Click here to enter text.
 | * Click here to enter text.
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| Demonstrate competence in coordinating and cooperating with referring physicians, including emergency department specialists, orthopaedic surgeons, and rheumatologists [PR 4.5.d.]  | * Click here to enter text.
 | * Click here to enter text.
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\*Examples of evaluation methods for competence may 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.

1. Briefly describe how fellows will provide consultation with referring physicians or services.
[PR 4.4.a.]

(Limit response to 200 words)

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| Click here to enter text. |

1. Briefly describe how fellows will be provided with graduated responsibility for invasive procedures, including pre-procedural and post-procedural patient care. [PR 4.5.c.]

(Limit response to 200 words)

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| Click here to enter text. |

**Medical Knowledge**

1. Describe the activities and settings in which fellows will be given opportunities to develop knowledge in the following topics and evaluation methods used.

| **CORE CURRICULUM** | **List in Bulleted Format the Learning Activities and Settings Used to Address the Core Knowledge Area** | **List in Bulleted Format the Method(s) Used to Evaluate Fellow Competency\*** |
| --- | --- | --- |
| Demonstrate an understanding of low-dose radiation techniques for both adults and children[PR 4.6.b.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate knowledge of the prevention and treatment of complications of contrast administration.[PR 4.6.c.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate knowledge of and actively participate in the formulation of a diagnosis and/or the generation of an imaging protocol[PR 4.6.d.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate knowledge and skills in preparing and presenting educational material for medical students, residents, staff members, and allied health personnel[PR 4.6.e.] | * Click here to enter text.
 | * Click here to enter text.
 |
| Demonstrate an understanding of proper imaging protocols to ensure that excessive or inappropriate examinations are not ordered and performed[PR 4.6.f.] | * Click here to enter text.
 | * Click here to enter text.
 |

\*Examples of evaluation methods for competence may 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.

1. Briefly describe how fellows’ active participation in the formulation of a diagnosis and/or the generation of the imaging protocol will be used by the program director and other faculty members to judge the fellow’s progress. [PR 4.6.d.]

(Limit response to 200 words)

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**Curriculum Organization**

**Didactic Experiences**

1. Indicate whether didactic conferences and teaching sessions will include musculoskeletal concepts related to: [PR 4.11.a.]
2. Anatomy [ ]  YES [ ]  NO
3. Orthopedic Surgery [ ]  YES [ ]  NO
4. Pathology [ ]  YES [ ]  NO
5. Physiology [ ]  YES [ ]  NO
6. Rheumatology [ ]  YES [ ]  NO
7. Other surgical specialties [ ]  YES [ ]  NO
8. Will fellows attend and participate in department conferences, such as daily image interpretation sessions? [PR 4.11.a.1.] [ ]  YES [ ]  NO
9. Indicate whether each of the following disciplines participate in regularly-scheduled interdepartmental conferences: [PR 4.11.b.2.a.]
10. Neurological surgery [ ]  YES [ ]  NO
11. Oncology [ ]  YES [ ]  NO
12. Orthopaedic Surgery [ ]  YES [ ]  NO
13. Pathology [ ]  YES [ ]  NO
14. Rheumatology [ ]  YES [ ]  NO
15. Other surgical specialties (Specify here) [ ]  YES [ ]  NO
16. Do conferences include: [PR 4.11.b.2.b.]
17. Intradepartmental conferences [PR 4.11.b.1.] [ ]  YES [ ]  NO
18. Multidisciplinary conferences [PR 4.11.b.2.] [ ]  YES [ ]  NO
19. Peer review case conference and/or M&M conference [PR 4.11.b.3.] [ ]  YES [ ]  NO
20. Journal club [PR 4.11.c.] [ ]  YES [ ]  NO

If yes, what is the frequency? Click or tap here to enter text.

1. Will the regularly scheduled didactic activities include scheduled presentations by the fellows? [PR 4.11.d.1.] [ ]  YES [ ]  NO

Explain any NO responses. (Limit response to 200 words)

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| Click or tap here to enter text. |

1. Briefly describe the policy for fellow attendance and participation at local conferences and at least one national meeting or medical education course in musculoskeletal radiology during the program. [PR 4.11.e.]

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1. Formal didactic sessions

Enter the schedule of planned didactic experiences, including the specific titles of activities. Add rows as necessary. [PR 4.11.d.]

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

| **Type and Frequency** | **Title** |
| --- | --- |
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**Fellow Experiences**

1. Briefly describe how the program will provide fellows with clinical and didactic experiences that encompass the entire spectrum of musculoskeletal diseases, including both the axial and appendicular skeletons of both adult and pediatric patients. [PR 4.11.f.- 4.11.f.1.]

(Limit response to 200 words)

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1. Briefly describe fellow experience in interpreting, under appropriate supervision, diagnostic examinations. [PR 4.11.g.]

(Limit response to 200 words)

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1. Briefly describe fellow responsibility for performing and interpreting image-guided interventions, including arthrograms, diagnostic/therapeutic injections, and percutaneous biopsy procedures. [PR 4.11.h.]

(Limit response to 200 words)

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1. Will fellows maintain a procedure log documenting their involvement in both diagnostic and image-guided interventions? [PR 4.11.i.] [ ]  YES [ ]  NO

Briefly explain if “NO”. (Limit response to 200 words)

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| Click here to enter text. |

1. Briefly describe fellow experience with bone densitometry, radionuclide scintigraphy, and ultrasonography as they relate to diseases of the musculoskeletal system. [PR 4.11.j.]

(Limit response to 200 words)

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**Fellows’ Scholarly Activities**

1. Briefly describe how fellows will be instructed in the fundamentals of experimental design, performance, and interpretation of results. [PR 4.15.a.]

(Limit response to 200 words)

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| Click here to enter text. |

1. Will all fellows engage in a scholarly project? [PR 4.15.b.] [ ]  YES [ ]  NO

Briefly explain if “NO” (Limit response to 200 words)

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1. Briefly describe how the program will ensure that the results of fellows’ research projects will be disseminated in the academic community. [PR 4.15.b.2.]

(Limit response to 200 words)

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1. Briefly describe the laboratory facilities used to support research projects. [PR 4.15.c.]

(Limit response to 200 words)

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