

# **ACGME Program Requirements for Graduate Medical Education in Diagnostic Radiology**

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Editorial Revision: Common Program Requirements Background and Intent below VI.A.2.b)  
revised, substance use disorder language updated July 1, 2021

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1                   **ACGME Program Requirements for Graduate Medical Education**  
2                                           **in Diagnostic Radiology**

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4                   **Common Program Requirements (Residency) are in BOLD**

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6   Where applicable, text in italics describes the underlying philosophy of the requirements in that  
7   section. These philosophic statements are not program requirements and are therefore not  
8   citable.

9  
10 **Introduction**

11  
12 **Int.A.**           *Graduate medical education is the crucial step of professional*  
13 *development between medical school and autonomous clinical practice. It*  
14 *is in this vital phase of the continuum of medical education that residents*  
15 *learn to provide optimal patient care under the supervision of faculty*  
16 *members who not only instruct, but serve as role models of excellence,*  
17 *compassion, professionalism, and scholarship.*

18  
19                   *Graduate medical education transforms medical students into physician*  
20 *scholars who care for the patient, family, and a diverse community; create*  
21 *and integrate new knowledge into practice; and educate future generations*  
22 *of physicians to serve the public. Practice patterns established during*  
23 *graduate medical education persist many years later.*

24  
25                   *Graduate medical education has as a core tenet the graded authority and*  
26 *responsibility for patient care. The care of patients is undertaken with*  
27 *appropriate faculty supervision and conditional independence, allowing*  
28 *residents to attain the knowledge, skills, attitudes, and empathy required*  
29 *for autonomous practice. Graduate medical education develops physicians*  
30 *who focus on excellence in delivery of safe, equitable, affordable, quality*  
31 *care; and the health of the populations they serve. Graduate medical*  
32 *education values the strength that a diverse group of physicians brings to*  
33 *medical care.*

34  
35                   *Graduate medical education occurs in clinical settings that establish the*  
36 *foundation for practice-based and lifelong learning. The professional*  
37 *development of the physician, begun in medical school, continues through*  
38 *faculty modeling of the effacement of self-interest in a humanistic*  
39 *environment that emphasizes joy in curiosity, problem-solving, academic*  
40 *rigor, and discovery. This transformation is often physically, emotionally,*  
41 *and intellectually demanding and occurs in a variety of clinical learning*  
42 *environments committed to graduate medical education and the well-being*  
43 *of patients, residents, fellows, faculty members, students, and all members*  
44 *of the health care team.*

45  
46 **Int.B.**           **Definition of Specialty**

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48                   Diagnostic radiology encompasses image-based diagnosis and image-guided  
49                   therapeutic techniques, and includes but is not limited to: computed tomography  
50                   (CT); interventional procedures; magnetic resonance imaging (MRI); medical

51 physics; nuclear radiology and molecular imaging; radiography/fluoroscopy;  
52 ultrasonography; and radiology quality and safety.

53  
54 Diagnostic radiology educational content includes, but is not limited to, diagnostic  
55 imaging and related image-guided interventions in the following 10 categories:  
56 breast; cardiac; gastrointestinal; musculoskeletal; neurologic; pediatric;  
57 reproductive and endocrine; thoracic; urinary; and vascular.

### 58 59 **Int.C. Length of Educational Program**

60  
61 The educational programs in diagnostic radiology are configured in 48-month and  
62 60-month formats. The latter includes 12 months of education in fundamental  
63 clinical skills of medicine, and both include 48 months of education in radiology  
64 (R1, R2, R3, and R4 years.) The educational program in diagnostic radiology  
65 must be 48 months in length. (Core)\*

66  
67 Int.C.1. The 48-month program must be comprised of 48 months of radiology  
68 education. (Core)

69  
70 Int.C.2. The 60-month program must be comprised of 12 months of education in  
71 fundamental clinical skills of medicine followed by 48 months of radiology  
72 education. (Core)

73  
74 Int.C.2.a) Programs seeking to utilize the 60-month format must submit an  
75 educational justification for using this format to the Review  
76 Committee for approval prior to implementation. The educational  
77 effectiveness of this format will be subject to evaluation at each  
78 subsequent program accreditation review. (Core)

## 79 80 **I. Oversight**

### 81 82 **I.A. Sponsoring Institution**

83  
84 *The Sponsoring Institution is the organization or entity that assumes the*  
85 *ultimate financial and academic responsibility for a program of graduate*  
86 *medical education, consistent with the ACGME Institutional Requirements.*

87  
88 *When the Sponsoring Institution is not a rotation site for the program, the*  
89 *most commonly utilized site of clinical activity for the program is the*  
90 *primary clinical site.*

91  
92  
**Background and Intent: Participating sites will reflect the health care needs of the community and the educational needs of the residents. A wide variety of organizations may provide a robust educational experience and, thus, Sponsoring Institutions and participating sites may encompass inpatient and outpatient settings including, but not limited to a university, a medical school, a teaching hospital, a nursing home, a school of public health, a health department, a public health agency, an organized health care delivery system, a medical examiner's office, an educational consortium a teaching health center, a physician group practice, federally qualified health center, or an educational foundation.**

- 93 I.A.1. The program must be sponsored by one ACGME-accredited  
 94 Sponsoring Institution. <sup>(Core)</sup>  
 95
- 96 I.B. Participating Sites  
 97  
 98 *A participating site is an organization providing educational experiences or*  
 99 *educational assignments/rotations for residents.*  
 100
- 101 I.B.1. The program, with approval of its Sponsoring Institution, must  
 102 designate a primary clinical site. <sup>(Core)</sup>  
 103
- 104 I.B.1.a) Diagnostic radiology education should occur in environments with  
 105 other residents and/or fellows from other specialties at the  
 106 Sponsoring Institution and/or participating sites to facilitate the  
 107 interchange of knowledge and experience among the residents.  
 108 <sup>(Core)(Detail)</sup>  
 109
- 110 I.B.2. There must be a program letter of agreement (PLA) between the  
 111 program and each participating site that governs the relationship  
 112 between the program and the participating site providing a required  
 113 assignment. <sup>(Core)</sup>  
 114
- 115 I.B.2.a) The PLA must:  
 116
- 117 I.B.2.a).(1) be renewed at least every 10 years; and, <sup>(Core)</sup>  
 118
- 119 I.B.2.a).(2) be approved by the designated institutional official  
 120 (DIO). <sup>(Core)</sup>  
 121
- 122 I.B.3. The program must monitor the clinical learning and working  
 123 environment at all participating sites. <sup>(Core)</sup>  
 124
- 125 I.B.3.a) At each participating site there must be one faculty member,  
 126 designated by the program director as the site director, who  
 127 is accountable for resident education at that site, in  
 128 collaboration with the program director. <sup>(Core)</sup>  
 129

**Background and Intent:** While all residency programs must be sponsored by a single ACGME-accredited Sponsoring Institution, many programs will utilize other clinical settings to provide required or elective training experiences. At times it is appropriate to utilize community sites that are not owned by or affiliated with the Sponsoring Institution. Some of these sites may be remote for geographic, transportation, or communication issues. When utilizing such sites the program must ensure the quality of the educational experience. The requirements under I.B.3. are intended to ensure that this will be the case.

**Suggested elements to be considered in PLAs will be found in the ACGME Program Director's Guide to the Common Program Requirements. These include:**

- Identifying the faculty members who will assume educational and supervisory responsibility for residents

- Specifying the responsibilities for teaching, supervision, and formal evaluation of residents
- Specifying the duration and content of the educational experience
- Stating the policies and procedures that will govern resident education during the assignment

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- I.B.4.** The program director must submit any additions or deletions of participating sites routinely providing an educational experience, required for all residents, of one month full time equivalent (FTE) or more through the ACGME’s Accreditation Data System (ADS). <sup>(Core)</sup>
- I.B.5.** Programs with multiple participating sites must ensure the provision of a cohesive educational experience. <sup>(Core)</sup>
- I.B.6.** Each participating site must offer meaningful educational opportunities that enrich the overall program. <sup>(Core)</sup>
- I.C.** The program, in partnership with its Sponsoring Institution, must engage in practices that focus on mission-driven, ongoing, systematic recruitment and retention of a diverse and inclusive workforce of residents, fellows (if present), faculty members, senior administrative staff members, and other relevant members of its academic community. <sup>(Core)</sup>

**Background and Intent:** It is expected that the Sponsoring Institution has, and programs implement, policies and procedures related to recruitment and retention of minorities underrepresented in medicine and medical leadership in accordance with the Sponsoring Institution’s mission and aims. The program’s annual evaluation must include an assessment of the program’s efforts to recruit and retain a diverse workforce, as noted in V.C.1.c).(5).(c).

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- I.D. Resources**
- I.D.1.** The program, in partnership with its Sponsoring Institution, must ensure the availability of adequate resources for resident education. <sup>(Core)</sup>
- I.D.1.a)** The program must provide 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. <sup>(Core)</sup>
- I.D.2.** The program, in partnership with its Sponsoring Institution, must ensure healthy and safe learning and working environments that promote resident well-being and provide for: <sup>(Core)</sup>
- I.D.2.a)** access to food while on duty; <sup>(Core)</sup>
- I.D.2.b)** safe, quiet, clean, and private sleep/rest facilities available and accessible for residents with proximity appropriate for safe patient care; <sup>(Core)</sup>

**Background and Intent: Care of patients within a hospital or health system occurs continually through the day and night. Such care requires that residents function at their peak abilities, which requires the work environment to provide them with the ability to meet their basic needs within proximity of their clinical responsibilities. Access to food and rest are examples of these basic needs, which must be met while residents are working. Residents should have access to refrigeration where food may be stored. Food should be available when residents are required to be in the hospital overnight. Rest facilities are necessary, even when overnight call is not required, to accommodate the fatigued resident.**

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- I.D.2.c) clean and private facilities for lactation that have refrigeration capabilities, with proximity appropriate for safe patient care; (Core)**

**Background and Intent: Sites must provide private and clean locations where residents may lactate and store the milk within a refrigerator. These locations should be in close proximity to clinical responsibilities. It would be helpful to have additional support within these locations that may assist the resident with the continued care of patients, such as a computer and a phone. While space is important, the time required for lactation is also critical for the well-being of the resident and the resident's family, as outlined in VI.C.1.d).(1).**

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- I.D.2.d) security and safety measures appropriate to the participating site; and, (Core)**

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- I.D.2.e) accommodations for residents with disabilities consistent with the Sponsoring Institution's policy. (Core)**

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- I.D.3. Residents must have ready access to specialty-specific and other appropriate reference material in print or electronic format. This must include access to electronic medical literature databases with full text capabilities. (Core)**

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- I.D.4. The program's educational and clinical resources must be adequate to support the number of residents appointed to the program. (Core)**

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- I.D.5. The program must ensure a sufficient volume and variety of pediatric and adult patients for residents to gain experience in the full spectrum of radiological examinations, procedures, and interpretations. (Core)**

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- I.D.5.a) The program must have at least 7,000 radiological examinations per year per resident in both the diagnostic radiology program and in the PGY-2-4 years of the integrated interventional radiology program, if applicable. (Core)**

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- I.E. The presence of other learners and other care providers, including, but not limited to, residents from other programs, subspecialty fellows, and advanced practice providers, must enrich the appointed residents' education. (Core)**

203  
204 I.E.1. The program must report circumstances when the presence of other  
205 learners has interfered with the residents' education to the DIO and  
206 Graduate Medical Education Committee (GMEC). <sup>(Core)</sup>  
207

**Background and Intent:** The clinical learning environment has become increasingly complex and often includes care providers, students, and post-graduate residents and fellows from multiple disciplines. The presence of these practitioners and their learners enriches the learning environment. Programs have a responsibility to monitor the learning environment to ensure that residents' education is not compromised by the presence of other providers and learners.

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Specialty-Specific Background and Intent: In providing oversight of the clinical resources available to the residents, programs have a responsibility to ensure that the educational opportunities available to diagnostic radiology residents are not diluted or detracted by the presence of interventional radiology residents.

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210 **II. Personnel**

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212 **II.A. Program Director**

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214 **II.A.1.** There must be one faculty member appointed as program director  
215 with authority and accountability for the overall program, including  
216 compliance with all applicable program requirements. <sup>(Core)</sup>  
217

218 **II.A.1.a)** The Sponsoring Institution's GMEC must approve a change in  
219 program director. <sup>(Core)</sup>  
220

221 **II.A.1.b)** Final approval of the program director resides with the  
222 Review Committee. <sup>(Core)</sup>  
223

**Background and Intent:** While the ACGME recognizes the value of input from numerous individuals in the management of a residency, a single individual must be designated as program director and made responsible for the program. This individual will have dedicated time for the leadership of the residency, and it is this individual's responsibility to communicate with the residents, faculty members, DIO, GMEC, and the ACGME. The program director's nomination is reviewed and approved by the GMEC. Final approval of program directors resides with the Review Committee.

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225 **II.A.1.c)** The program must demonstrate retention of the program  
226 director for a length of time adequate to maintain continuity  
227 of leadership and program stability. <sup>(Core)</sup>  
228

**Background and Intent:** The success of residency programs is generally enhanced by continuity in the program director position. The professional activities required of a program director are unique and complex and take time to master. All programs are encouraged to undertake succession planning to facilitate program stability when there is necessary turnover in the program director position.

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**II.A.2.** At a minimum, the program director must be provided with the salary support required to devote 20 percent FTE of non-clinical time to the administration of the program. Additional support for the program director and, if applicable, the associate program director(s), must be provided based on program size as follows: <sup>(Core)</sup>

Number of Approved Resident Positions	Minimum Program Director FTE
eight to 15 residents	0.3
16 to 23 residents	0.4
24 to 31 residents	0.5

236

Number of Approved Resident Positions	Minimum Aggregate Program Director/Associate Program Director FTE
32 to 39	0.6
40 to 47	0.7
48 to 55	0.8
56 to 63	0.9
64 to 71	1.0
72 or more	1.1

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**II.A.2.a)** 60-month programs: In addition to the support requirements outlined above, program directors of 60-month programs must be provided additional support for the administration and oversight of the clinical year as follows: <sup>(Core)</sup>

<u>Number of Clinical Year Positions</u>	<u>Minimum Additional Program Director FTE</u>
<u>1-3 residents</u>	<u>0.10</u>
<u>4 or more residents</u>	<u>0.15</u>

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**II.A.2.b)** There must be ~~support for~~ at least one associate/assistant program director for programs with resident complements of 32 or more. <sup>(Core)</sup>

**Background and Intent: Twenty percent FTE is defined as one day per week.**

**“Administrative time” is defined as non-clinical time spent meeting the responsibilities of the program director as detailed in requirements II.A.4.-II.A.4.a).(16).**

**The requirement does not address the source of funding required to provide the specified salary support.**

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**II.A.3. Qualifications of the program director:**

251 II.A.3.a) must include specialty expertise and at least three years of  
252 documented educational and/or administrative experience, or  
253 qualifications acceptable to the Review Committee; <sup>(Core)</sup>  
254

**Background and Intent:** Leading a program requires knowledge and skills that are established during residency and subsequently further developed. The time period from completion of residency until assuming the role of program director allows the individual to cultivate leadership abilities while becoming professionally established. The three-year period is intended for the individual's professional maturation.

The broad allowance for educational and/or administrative experience recognizes that strong leaders arise through diverse pathways. These areas of expertise are important when identifying and appointing a program director. The choice of a program director should be informed by the mission of the program and the needs of the community.

In certain circumstances, the program and Sponsoring Institution may propose and the Review Committee may accept a candidate for program director who fulfills these goals but does not meet the three-year minimum.

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Specialty-Specific Background and Intent: The Review Committee considers three years of educational and/or administrative experience an important quality for new program director candidates. Examples of educational and/or administrative experiences may include previous participation as an active faculty member in an ACGME-accredited or AOA-approved diagnostic radiology residency, interventional radiology residency, or vascular and interventional radiology fellowship program. In submitting a new program director request in ADS, the Review Committee will additionally request a letter of support from the DIO and a copy of the candidate's full CV for review.

256

257 II.A.3.b) must include current certification in the specialty for which  
258 they are the program director by the American Board of  
259 Radiology or by the American Osteopathic Board of Radiology,  
260 or specialty qualifications that are acceptable to the Review  
261 Committee; <sup>(Core)</sup>

262

263 II.A.3.b).(1) The Review Committee accepts only ABMS and AOA  
264 certification as acceptable qualifications for program  
265 director certification. <sup>(Core)</sup>  
266

267

268 II.A.3.c) must include current medical licensure and appropriate  
269 medical staff appointment; and, <sup>(Core)</sup>

270

271 II.A.3.d) must include ongoing clinical activity. <sup>(Core)</sup>

**Background and Intent:** A program director is a role model for faculty members and residents. The program director must participate in clinical activity consistent with the specialty. This activity will allow the program director to role model the Core Competencies for the faculty members and residents.

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273 II.A.3.e) should include demonstration of an active practice in radiology.  
274 <sup>(Core)(Detail)</sup>

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**II.A.4. Program Director Responsibilities**

The program director must have responsibility, authority, and accountability for: administration and operations; teaching and scholarly activity; resident recruitment and selection, evaluation, and promotion of residents, and disciplinary action; supervision of residents; and resident education in the context of patient care. <sup>(Core)</sup>

**II.A.4.a) The program director must:**

**II.A.4.a).(1) be a role model of professionalism; <sup>(Core)</sup>**

**Background and Intent:** The program director, as the leader of the program, must serve as a role model to residents in addition to fulfilling the technical aspects of the role. As residents are expected to demonstrate compassion, integrity, and respect for others, they must be able to look to the program director as an exemplar. It is of utmost importance, therefore, that the program director model outstanding professionalism, high quality patient care, educational excellence, and a scholarly approach to work. The program director creates an environment where respectful discussion is welcome, with the goal of continued improvement of the educational experience.

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**II.A.4.a).(2) design and conduct the program in a fashion consistent with the needs of the community, the mission(s) of the Sponsoring Institution, and the mission(s) of the program; <sup>(Core)</sup>**

**Background and Intent:** The mission of institutions participating in graduate medical education is to improve the health of the public. Each community has health needs that vary based upon location and demographics. Programs must understand the social determinants of health of the populations they serve and incorporate them in the design and implementation of the program curriculum, with the ultimate goal of addressing these needs and health disparities.

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**II.A.4.a).(3) administer and maintain a learning environment conducive to educating the residents in each of the ACGME Competency domains; <sup>(Core)</sup>**

**Background and Intent:** The program director may establish a leadership team to assist in the accomplishment of program goals. Residency programs can be highly complex. In a complex organization, the leader typically has the ability to delegate authority to others, yet remains accountable. The leadership team may include physician and non-physician personnel with varying levels of education, training, and experience.

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Specialty-Specific Background and Intent: Due to the intricate relationship between the diagnostic radiology and interventional radiology program(s), routine collaboration between the leadership of these programs is essential in administering and maintaining a learning

environment that ensures a cohesive educational experience for all diagnostic and interventional radiology residents.

- 300  
301 **II.A.4.a).(4)** develop and oversee a process to evaluate candidates  
302 prior to approval as program faculty members for  
303 participation in the residency program education and  
304 at least annually thereafter, as outlined in V.B.; <sup>(Core)</sup>  
305  
306 **II.A.4.a).(5)** have the authority to approve program faculty  
307 members for participation in the residency program  
308 education at all sites; <sup>(Core)</sup>  
309  
310 **II.A.4.a).(6)** have the authority to remove program faculty  
311 members from participation in the residency program  
312 education at all sites; <sup>(Core)</sup>  
313  
314 **II.A.4.a).(7)** have the authority to remove residents from  
315 supervising interactions and/or learning environments  
316 that do not meet the standards of the program; <sup>(Core)</sup>  
317

**Background and Intent: The program director has the responsibility to ensure that all who educate residents effectively role model the Core Competencies. Working with a resident is a privilege that is earned through effective teaching and professional role modeling. This privilege may be removed by the program director when the standards of the clinical learning environment are not met.**

**There may be faculty in a department who are not part of the educational program, and the program director controls who is teaching the residents.**

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319 **II.A.4.a).(8)** submit accurate and complete information required  
320 and requested by the DIO, GMEC, and ACGME; <sup>(Core)</sup>  
321  
322 **II.A.4.a).(9)** provide applicants who are offered an interview with  
323 information related to the applicant's eligibility for the  
324 relevant specialty board examination(s); <sup>(Core)</sup>  
325  
326 **II.A.4.a).(10)** provide a learning and working environment in which  
327 residents have the opportunity to raise concerns and  
328 provide feedback in a confidential manner as  
329 appropriate, without fear of intimidation or retaliation;  
330 <sup>(Core)</sup>  
331  
332 **II.A.4.a).(11)** ensure the program's compliance with the Sponsoring  
333 Institution's policies and procedures related to  
334 grievances and due process; <sup>(Core)</sup>  
335  
336 **II.A.4.a).(12)** ensure the program's compliance with the Sponsoring  
337 Institution's policies and procedures for due process  
338 when action is taken to suspend or dismiss, not to  
339 promote, or not to renew the appointment of a  
340 resident; <sup>(Core)</sup>

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**Background and Intent: A program does not operate independently of its Sponsoring Institution. It is expected that the program director will be aware of the Sponsoring Institution’s policies and procedures, and will ensure they are followed by the program’s leadership, faculty members, support personnel, and residents.**

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343 **II.A.4.a).(13)** ensure the program’s compliance with the Sponsoring  
344 **Institution’s policies and procedures on employment**  
345 **and non-discrimination;** (Core)

346

347 **II.A.4.a).(13).(a)** Residents must not be required to sign a non-  
348 **competition guarantee or restrictive covenant.**  
349 (Core)

350

351 **II.A.4.a).(14)** document verification of program completion for all  
352 **graduating residents within 30 days;** (Core)

353

354 **II.A.4.a).(15)** provide verification of an individual resident’s  
355 **completion upon the resident’s request, within 30**  
356 **days; and,** (Core)

357

**Background and Intent: Primary verification of graduate medical education is important to credentialing of physicians for further training and practice. Such verification must be accurate and timely. Sponsoring Institution and program policies for record retention are important to facilitate timely documentation of residents who have previously completed the program. Residents who leave the program prior to completion also require timely documentation of their summative evaluation.**

358

359 **II.A.4.a).(16)** obtain review and approval of the Sponsoring  
360 **Institution’s DIO before submitting information or**  
361 **requests to the ACGME, as required in the Institutional**  
362 **Requirements and outlined in the ACGME Program**  
363 **Director’s Guide to the Common Program**  
364 **Requirements.** (Core)

365

366

**II.B. Faculty**

367

368 ***Faculty members are a foundational element of graduate medical education***  
369 ***– faculty members teach residents how to care for patients. Faculty***  
370 ***members provide an important bridge allowing residents to grow and***  
371 ***become practice-ready, ensuring that patients receive the highest quality of***  
372 ***care. They are role models for future generations of physicians by***  
373 ***demonstrating compassion, commitment to excellence in teaching and***  
374 ***patient care, professionalism, and a dedication to lifelong learning. Faculty***  
375 ***members experience the pride and joy of fostering the growth and***  
376 ***development of future colleagues. The care they provide is enhanced by***  
377 ***the opportunity to teach. By employing a scholarly approach to patient***  
378 ***care, faculty members, through the graduate medical education system,***  
379 ***improve the health of the individual and the population.***

380

381 **Faculty members ensure that patients receive the level of care expected**  
382 **from a specialist in the field. They recognize and respond to the needs of**  
383 **the patients, residents, community, and institution. Faculty members**  
384 **provide appropriate levels of supervision to promote patient safety. Faculty**  
385 **members create an effective learning environment by acting in a**  
386 **professional manner and attending to the well-being of the residents and**  
387 **themselves.**  
388

**Background and Intent: “Faculty” refers to the entire teaching force responsible for educating residents. The term “faculty,” including “core faculty,” does not imply or require an academic appointment or salary support.**

- 389  
390 **II.B.1. At each participating site, there must be a sufficient number of**  
391 **faculty members with competence to instruct and supervise all**  
392 **residents at that location. (Core)**  
393  
394 **II.B.1.a. There must be a minimum of one physician faculty member for**  
395 **every resident in the program. (Core)**  
396  
397 **II.B.1.b. In addition to the practice domains, there should be designated**  
398 **physician faculty members with expertise in and responsibility for**  
399 **developing didactic content in the following educational content**  
400 **areas:**  
401  
402 **II.B.1.b).(1) CT; (Core)(Detail)**  
403  
404 **II.B.1.b).(2) MRI; (Core)(Detail)**  
405  
406 **II.B.1.b).(3) radiography/fluoroscopy; and, (Core)(Detail)**  
407  
408 **~~II.B.1.b).(4) reproductive/endocrine imaging; (Detail)~~**  
409  
410 **II.B.1.b).(5) ultrasonography; and, (Core)(Detail)**  
411  
412 **~~II.B.1.b).(6) vascular imaging. (Detail)~~**  
413

**Specialty-Specific Background and Intent: Programs do not need to have additional faculty members to provide the didactic content for the educational content areas of CT, MRI, radiography/fluoroscopy, and ultrasonography. Any of the required eight core faculty members with additional expertise in any of the educational content areas may also provide education in these areas to fulfill this requirement and develop the didactic content for the related area.**

- 414  
415 **II.B.1.c) There should be physician faculty, non-physician faculty, or other**  
416 **staff members available to the program, within the institution, with**  
417 **expertise in quality, safety, and informatics. (Core)(Detail)**  
418  
419 **II.B.1.c).(1) These faculty or staff members should develop didactic**  
420 **content related to their area of expertise. (Core)(Detail)**  
421

Specialty-Specific Background and Intent: The faculty or staff members who fulfill the roles for expertise in quality, safety, and informatics are not required to have formal certification in their respective area(s) of expertise. It is not the Committee's expectation that there be dedicated staff members for each area of expertise. For example, programs may have an information technology staff member or administrator with relevant expertise in informatics, and this would satisfy the requirement as long as the individual was available to the program to dedicate the time to develop the necessary didactic content related to the area of expertise. The Committee's expectation is that there be some resident education in each area.

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- II.B.2. Faculty members must:**
- II.B.2.a) be role models of professionalism;** <sup>(Core)</sup>
- II.B.2.b) demonstrate commitment to the delivery of safe, quality, cost-effective, patient-centered care;** <sup>(Core)</sup>

**Background and Intent: Patients have the right to expect quality, cost-effective care with patient safety at its core. The foundation for meeting this expectation is formed during residency and fellowship. Faculty members model these goals and continually strive for improvement in care and cost, embracing a commitment to the patient and the community they serve.**

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- II.B.2.c) demonstrate a strong interest in the education of residents;** <sup>(Core)</sup>
- II.B.2.d) devote sufficient time to the educational program to fulfill their supervisory and teaching responsibilities;** <sup>(Core)</sup>
- II.B.2.e) administer and maintain an educational environment conducive to educating residents;** <sup>(Core)</sup>
- II.B.2.f) regularly participate in organized clinical discussions, rounds, journal clubs, and conferences; and,** <sup>(Core)</sup>
- II.B.2.g) pursue faculty development designed to enhance their skills at least annually;** <sup>(Core)</sup>

**Background and Intent: Faculty development is intended to describe structured programming developed for the purpose of enhancing transference of knowledge, skill, and behavior from the educator to the learner. Faculty development may occur in a variety of configurations (lecture, workshop, etc.) using internal and/or external resources. Programming is typically needs-based (individual or group) and may be specific to the institution or the program. Faculty development programming is to be reported for the residency program faculty in the aggregate.**

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- II.B.2.g).(1) as educators;** <sup>(Core)</sup>
- II.B.2.g).(2) in quality improvement and patient safety;** <sup>(Core)</sup>

- 451 **II.B.2.g).(3)** **in fostering their own and their residents' well-being;**  
 452 **and,** (Core)  
 453  
 454 **II.B.2.g).(4)** **in patient care based on their practice-based learning**  
 455 **and improvement efforts.** (Core)  
 456

**Background and Intent: Practice-based learning serves as the foundation for the practice of medicine. Through a systematic analysis of one's practice and review of the literature, one is able to make adjustments that improve patient outcomes and care. Thoughtful consideration to practice-based analysis improves quality of care, as well as patient safety. This allows faculty members to serve as role models for residents in practice-based learning.**

- 457  
 458 **II.B.2.h)** Faculty members must review all resident-interpreted studies. (Core)  
 459  
 460 **II.B.2.h).(1)** Faculty members should sign and verify these reports  
 461 within 24 hours. (Detail)  
 462  
 463 **II.B.2.i)** Faculty members must always be available when residents are on  
 464 call after hours, on weekends, or on holidays. (Core)  
 465  
 466 **II.B.2.j)** Faculty members representing each practice domain must be  
 467 responsible for the educational content of his or her respective  
 468 practice domain, and must organize conferences that cover topics  
 469 in that domain. (Core)  
 470  
 471 **II.B.2.k)** Faculty members representing each practice domain must not  
 472 have primary responsibility for the educational content of more  
 473 than one practice domain, but may have clinical responsibilities  
 474 and/or teaching responsibilities in multiple practice domains. (Core)  
 475  
 476 **II.B.2.l)** Faculty members representing each practice domain must devote  
 477 at least 0.50 percent FTE in their practice domain. (Core)  
 478  
 479 **II.B.2.m)** Faculty members responsible for the educational content of  
 480 his/her respective practice domain must demonstrate a  
 481 commitment to his or her respective practice domain. (Core)  
 482  
 483 **II.B.2.m).(1)** Such commitment should be demonstrated by any two of  
 484 the following: (Core)(Detail)  
 485  
 486 **II.B.2.m).(1).(a)** specialty/subspecialty certification in the practice  
 487 domain, fellowship training, or three years of  
 488 practice in the domain; (Core)(Detail)  
 489  
 490 **II.B.2.m).(1).(b)** active participation in specialty/subspecialty  
 491 societies, including CME activities in the practice  
 492 domain; (Core)(Detail)  
 493  
 494 **II.B.2.m).(1).(c)** publications or presentations in the

495 specialty/subspecialty practice domain; or, (Core)(Detail)  
496  
497 II.B.2.m).(1).(d) participation in Maintenance of Certification with  
498 emphasis on the specialty/subspecialty practice  
499 domain. (Core)(Detail)

501 **II.B.3. Faculty Qualifications**

502  
503 **II.B.3.a) Faculty members must have appropriate qualifications in**  
504 **their field and hold appropriate institutional appointments.**  
505 (Core)

506  
507 **II.B.3.b) Physician faculty members must:**

508  
509 **II.B.3.b).(1) have current certification in the specialty by the**  
510 **American Board of Radiology or the American**  
511 **Osteopathic Board of Radiology, or possess**  
512 **qualifications judged acceptable to the Review**  
513 **Committee.** (Core)

514  
515 **II.B.3.b).(2) Other faculty qualifications acceptable to the Review**  
516 **Committee include certification by other American Board of**  
517 **Medical Specialties (ABMS) member boards, the AOB, or**  
518 **other American Osteopathic Association (AOA) certifying**  
519 **boards.** (Core)

520  
521 **II.B.3.c) Any non-physician faculty members who participate in**  
522 **residency program education must be approved by the**  
523 **program director.** (Core)

**Background and Intent: The provision of optimal and safe patient care requires a team approach. The education of residents by non-physician educators enables the resident to better manage patient care and provides valuable advancement of the residents' knowledge. Furthermore, other individuals contribute to the education of the resident in the basic science of the specialty or in research methodology. If the program director determines that the contribution of a non-physician individual is significant to the education of the residents, the program director may designate the individual as a program faculty member or a program core faculty member.**

525  
526 **II.B.4. Core Faculty**

527  
528 **Core faculty members must have a significant role in the education**  
529 **and supervision of residents and must devote a significant portion**  
530 **of their entire effort to resident education and/or administration, and**  
531 **must, as a component of their activities, teach, evaluate, and**  
532 **provide formative feedback to residents.** (Core)

**Background and Intent: Core faculty members are critical to the success of resident education. They support the program leadership in developing, implementing, and assessing curriculum and in assessing residents' progress toward achievement of competence in the specialty. Core faculty members should be selected for their broad**

knowledge of and involvement in the program, permitting them to effectively evaluate the program, including completion of the annual ACGME Faculty Survey.

534  
535 **II.B.4.a)** **Core faculty members must be designated by the program**  
536 **director.** <sup>(Core)</sup>  
537

538 **II.B.4.b)** **Core faculty members must complete the annual ACGME**  
539 **Faculty Survey.** <sup>(Core)</sup>  
540

541 **II.B.4.c)** There must be at least eight core physician faculty members to  
542 represent each of the following practice domains: <sup>(Core)</sup>  
543

544 **II.B.4.c).(1)** abdominal (gastrointestinal and genitourinary) radiology;  
545 <sup>(Core)</sup>  
546

547 **II.B.4.c).(2)** breast radiology; <sup>(Core)</sup>  
548

549 **II.B.4.c).(3)** cardiothoracic (cardiac and thoracic) radiology; <sup>(Core)</sup>  
550

551 **II.B.4.c).(4)** interventional radiology; <sup>(Core)</sup>  
552

553 **II.B.4.c).(5)** musculoskeletal radiology; <sup>(Core)</sup>  
554

555 **II.B.4.c).(6)** neuroradiology; <sup>(Core)</sup>  
556

557 **II.B.4.c).(7)** nuclear radiology and molecular imaging; and, <sup>(Core)</sup>  
558

559 **II.B.4.c).(8)** pediatric radiology. <sup>(Core)</sup>  
560

Specialty-Specific Background and Intent: A pediatric radiologist may have a primary appointment at another site and still be the designated faculty member supervising pediatric radiologic education for the program.

561  
562 **II.C. Program Coordinator**  
563

564 **II.C.1. There must be a program coordinator.** <sup>(Core)</sup>  
565

566 **II.C.2. At a minimum, the program coordinator must be supported at 50**  
567 **percent FTE for the administration of the program.** Additional support  
568 must be provided based on program size as follows: <sup>(Core)</sup>  
569

Number of Approved Resident Positions	Minimum FTE Required
eight to 24	1.0
25 to 39	1.50
40 or more	2.0

570 **Background and Intent: Fifty percent FTE is defined as two-and-a-half (2.5) days per week.**

The requirement does not address the source of funding required to provide the specified salary support.

Each program requires a lead administrative person, frequently referred to as a program coordinator, administrator, or as titled by the institution. This person will frequently manage the day-to-day operations of the program and serve as an important liaison with learners, faculty and other staff members, and the ACGME. Individuals serving in this role are recognized as program coordinators by the ACGME.

The program coordinator is a member of the leadership team and is critical to the success of the program. As such, the program coordinator must possess skills in leadership and personnel management. Program coordinators are expected to develop unique knowledge of the ACGME and Program Requirements, policies, and procedures. Program coordinators assist the program director in accreditation efforts, educational programming, and support of residents.

Programs, in partnership with their Sponsoring Institutions, should encourage the professional development of their program coordinators and avail them of opportunities for both professional and personal growth. Programs with fewer residents may not require a full-time coordinator; one coordinator may support more than one program.

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**II.D. Other Program Personnel**

The program, in partnership with its Sponsoring Institution, must jointly ensure the availability of necessary personnel for the effective administration of the program. <sup>(Core)</sup>

**Background and Intent:** Multiple personnel may be required to effectively administer a program. These may include staff members with clerical skills, project managers, education experts, and staff members to maintain electronic communication for the program. These personnel may support more than one program in more than one discipline.

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**III. Resident Appointments**

**III.A. Eligibility Requirements**

**III.A.1. An applicant must meet one of the following qualifications to be eligible for appointment to an ACGME-accredited program: <sup>(Core)</sup>**

**III.A.1.a) graduation from a medical school in the United States or Canada, accredited by the Liaison Committee on Medical Education (LCME) or graduation from a college of osteopathic medicine in the United States, accredited by the American Osteopathic Association Commission on Osteopathic College Accreditation (AOACOCA); or, <sup>(Core)</sup>**

**III.A.1.b) graduation from a medical school outside of the United States or Canada, and meeting one of the following additional qualifications: <sup>(Core)</sup>**

596  
597 **III.A.1.b).(1)** holding a currently valid certificate from the  
598 Educational Commission for Foreign Medical  
599 Graduates (ECFMG) prior to appointment; or, <sup>(Core)</sup>  
600  
601 **III.A.1.b).(2)** holding a full and unrestricted license to practice  
602 medicine in the United States licensing jurisdiction in  
603 which the ACGME-accredited program is located. <sup>(Core)</sup>  
604

605 **III.A.2.** All prerequisite post-graduate clinical education required for initial  
606 entry or transfer into ACGME-accredited residency programs must  
607 be completed in ACGME-accredited residency programs, AOA-  
608 approved residency programs, Royal College of Physicians and  
609 Surgeons of Canada (RCPSC)-accredited or College of Family  
610 Physicians of Canada (CFPC)-accredited residency programs  
611 located in Canada, or in residency programs with ACGME  
612 International (ACGME-I) Advanced Specialty Accreditation. <sup>(Core)</sup>  
613

614 **III.A.2.a)** Residency programs must receive verification of each  
615 resident's level of competency in the required clinical field  
616 using ACGME, CanMEDS, or ACGME-I Milestones evaluations  
617 from the prior training program upon matriculation. <sup>(Core)</sup>  
618

**Background and Intent: Programs with ACGME-I Foundational Accreditation or from institutions with ACGME-I accreditation do not qualify unless the program has also achieved ACGME-I Advanced Specialty Accreditation. To ensure entrants into ACGME-accredited programs from ACGME-I programs have attained the prerequisite milestones for this training, they must be from programs that have ACGME-I Advanced Specialty Accreditation.**

619  
620 **III.A.2.b)** ~~Prerequisite Training Clinical Year Education~~ To be eligible for  
621 appointment to the 48-month program, residents must have  
622 successfully completed a prerequisite year of direct patient care in  
623 a program that satisfies the requirements in III.A.2. in  
624 anesthesiology, emergency medicine, family medicine, internal  
625 medicine, neurology, obstetrics and gynecology, pediatrics,  
626 surgery or a surgical specialty, a transitional year, or any  
627 combination of these. <sup>(Core)</sup>  
628

629 **III.A.2.b).(1).(a)** The prerequisite year must include a minimum of  
630 36 weeks in direct patient care. <sup>(Core)</sup>  
631

632 **III.A.2.b).(1).(b)** During the prerequisite year, elective rotations in  
633 diagnostic radiology, ~~or~~ interventional radiology, or  
634 nuclear medicine must only occur in radiology  
635 departments with a diagnostic radiology, ~~or~~  
636 interventional radiology, or nuclear medicine  
637 residency program that satisfies the requirements  
638 in III.A.2., and must not exceed a combined total of  
639 two months. <sup>(Core)</sup>  
640

- 641 III.A.2.b).(1).(b).(i) The elective rotations in radiology should  
 642 involve active resident participation and  
 643 must not be observational only. <sup>(Detail)</sup>  
 644  
 645 III.A.2.b).(1).(b).(ii) The elective rotations in radiology should be  
 646 supervised by a radiology program faculty  
 647 member. <sup>(Detail)</sup>  
 648

Specialty-Specific Background and Intent: When considering whether to count a resident's participation in elective rotations in interventional radiology, diagnostic radiology, or nuclear medicine taken during the resident's prerequisite clinical year in radiology departments without an accredited diagnostic radiology, interventional radiology, or nuclear medicine program, it is up to the receiving diagnostic radiology program director to determine whether the elective experience will count toward the resident's required 12 months of diagnostic radiology education for call responsibilities or interpreting exams without direct supervision.

- 649  
 650 **III.A.3. A physician who has completed a residency program that was not**  
 651 **accredited by ACGME, AOA, RCPSC, CFPC, or ACGME-I (with**  
 652 **Advanced Specialty Accreditation) may enter an ACGME-accredited**  
 653 **residency program in the same specialty at the PGY-1 level and, at**  
 654 **the discretion of the program director of the ACGME-accredited**  
 655 **program and with approval by the GMC, may be advanced to the**  
 656 **PGY-2 level based on ACGME Milestones evaluations at the ACGME-**  
 657 **accredited program. This provision applies only to entry into**  
 658 **residency in those specialties for which an initial clinical year is not**  
 659 **required for entry.** <sup>(Core)</sup>  
 660  
 661 **III.B. The program director must not appoint more residents than approved by**  
 662 **the Review Committee.** <sup>(Core)</sup>  
 663  
 664 **III.B.1. All complement increases must be approved by the Review**  
 665 **Committee.** <sup>(Core)</sup>  
 666  
 667 **III.B.2. The program must appoint a minimum of eight residents.** <sup>(Core)</sup>  
 668  
 669 **III.C. Resident Transfers**  
 670  
 671 **The program must obtain verification of previous educational experiences**  
 672 **and a summative competency-based performance evaluation prior to**  
 673 **acceptance of a transferring resident, and Milestones evaluations upon**  
 674 **matriculation.** <sup>(Core)</sup>  
 675  
 676 **III.C.1. The program director must conduct a Milestones assessment of a**  
 677 **resident's clinical competence within three months of transfer into the**  
 678 **program.** <sup>(Core)</sup>  
 679  
 680 **III.C.2. Resident transfers from ACGME-accredited integrated interventional**  
 681 **radiology programs into diagnostic radiology programs must be limited to**  
 682 **transfers within the same Sponsoring Institution and must meet the**  
 683 **following qualifications for transfer:** <sup>(Core)</sup>

- 684  
685 III.C.2.a) Transfers into the PGY-3 or PGY-4 level must be from the  
686 equivalent level in the integrated interventional radiology program.  
687 (Core)  
688  
689 III.C.2.b) Residents transferring into the PGY-5 level must have taken or be  
690 eligible to take the ABR Core Examination or the AOBR Combined  
691 Physics and Diagnostic Imaging Examination. (Core)  
692

#### 693 IV. Educational Program

694  
695 ***The ACGME accreditation system is designed to encourage excellence and***  
696 ***innovation in graduate medical education regardless of the organizational***  
697 ***affiliation, size, or location of the program.***  
698

699 ***The educational program must support the development of knowledgeable, skillful***  
700 ***physicians who provide compassionate care.***  
701

702 ***In addition, the program is expected to define its specific program aims consistent***  
703 ***with the overall mission of its Sponsoring Institution, the needs of the community***  
704 ***it serves and that its graduates will serve, and the distinctive capabilities of***  
705 ***physicians it intends to graduate. While programs must demonstrate substantial***  
706 ***compliance with the Common and specialty-specific Program Requirements, it is***  
707 ***recognized that within this framework, programs may place different emphasis on***  
708 ***research, leadership, public health, etc. It is expected that the program aims will***  
709 ***reflect the nuanced program-specific goals for it and its graduates; for example, it***  
710 ***is expected that a program aiming to prepare physician-scientists will have a***  
711 ***different curriculum from one focusing on community health.***  
712

713 IV.A. The curriculum must contain the following educational components: (Core)

714  
715 IV.A.1. a set of program aims consistent with the Sponsoring Institution's  
716 mission, the needs of the community it serves, and the desired  
717 distinctive capabilities of its graduates; (Core)  
718

719 IV.A.1.a) The program's aims must be made available to program  
720 applicants, residents, and faculty members. (Core)  
721

722 IV.A.2. competency-based goals and objectives for each educational  
723 experience designed to promote progress on a trajectory to  
724 autonomous practice. These must be distributed, reviewed, and  
725 available to residents and faculty members; (Core)  
726

**Background and Intent: The trajectory to autonomous practice is documented by Milestones evaluation. The Milestones detail the progress of a resident in attaining skill in each competency domain. They are developed by each specialty group and allow evaluation based on observable behaviors. Milestones are considered formative and should be used to identify learning needs. This may lead to focused or general curricular revision in any given program or to individualized learning plans for any specific resident.**

727

728 **IV.A.3.** delineation of resident responsibilities for patient care, progressive  
729 responsibility for patient management, and graded supervision; <sup>(Core)</sup>  
730

**Background and Intent:** These responsibilities may generally be described by PGY level and specifically by Milestones progress as determined by the Clinical Competency Committee. This approach encourages the transition to competency-based education. An advanced learner may be granted more responsibility independent of PGY level and a learner needing more time to accomplish a certain task may do so in a focused rather than global manner.

731  
732 **IV.A.4.** a broad range of structured didactic activities; <sup>(Core)</sup>  
733

734 **IV.A.4.a)** Residents must be provided with protected time to participate  
735 in core didactic activities. <sup>(Core)</sup>  
736

**Background and Intent:** It is intended that residents will participate in structured didactic activities. It is recognized that there may be circumstances in which this is not possible. Programs should define core didactic activities for which time is protected and the circumstances in which residents may be excused from these didactic activities. Didactic activities may include, but are not limited to, lectures, conferences, courses, labs, asynchronous learning, simulations, drills, case discussions, grand rounds, didactic teaching, and education in critical appraisal of medical evidence.

737  
738 **IV.A.5.** advancement of residents' knowledge of ethical principles  
739 foundational to medical professionalism; and, <sup>(Core)</sup>  
740

741 **IV.A.6.** advancement in the residents' knowledge of the basic principles of  
742 scientific inquiry, including how research is designed, conducted,  
743 evaluated, explained to patients, and applied to patient care. <sup>(Core)</sup>  
744

745 **IV.B.** **ACGME Competencies**  
746

**Background and Intent:** The Competencies provide a conceptual framework describing the required domains for a trusted physician to enter autonomous practice. These Competencies are core to the practice of all physicians, although the specifics are further defined by each specialty. The developmental trajectories in each of the Competencies are articulated through the Milestones for each specialty.

747  
748 **IV.B.1.** The program must integrate the following ACGME Competencies  
749 into the curriculum: <sup>(Core)</sup>  
750

751 **IV.B.1.a)** **Professionalism**  
752

753 Residents must demonstrate a commitment to  
754 professionalism and an adherence to ethical principles. <sup>(Core)</sup>  
755

756 **IV.B.1.a).(1)** Residents must demonstrate competence in:  
757

758 IV.B.1.a).(1).(a) compassion, integrity, and respect for others;  
759 (Core)

760  
761 IV.B.1.a).(1).(b) responsiveness to patient needs that  
762 supersedes self-interest; (Core)  
763

**Background and Intent:** This includes the recognition that under certain circumstances, the interests of the patient may be best served by transitioning care to another provider. Examples include fatigue, conflict or duality of interest, not connecting well with a patient, or when another physician would be better for the situation based on skill set or knowledge base.

764  
765 IV.B.1.a).(1).(c) respect for patient privacy and autonomy; (Core)  
766

767 IV.B.1.a).(1).(d) accountability to patients, society, and the  
768 profession; (Core)  
769

770 IV.B.1.a).(1).(e) respect and responsiveness to diverse patient  
771 populations, including but not limited to  
772 diversity in gender, age, culture, race, religion,  
773 disabilities, national origin, socioeconomic  
774 status, and sexual orientation; (Core)  
775

776 IV.B.1.a).(1).(f) ability to recognize and develop a plan for one's  
777 own personal and professional well-being; and,  
778 (Core)  
779

780 IV.B.1.a).(1).(g) appropriately disclosing and addressing  
781 conflict or duality of interest. (Core)  
782

783 IV.B.1.b) Patient Care and Procedural Skills  
784

**Background and Intent:** Quality patient care is safe, effective, timely, efficient, patient-centered, equitable, and designed to improve population health, while reducing per capita costs. (See the Institute of Medicine [IOM]'s *Crossing the Quality Chasm: A New Health System for the 21st Century*, 2001 and Berwick D, Nolan T, Whittington J. *The Triple Aim: care, cost, and quality*. *Health Affairs*. 2008; 27(3):759-769.). In addition, there should be a focus on improving the clinician's well-being as a means to improve patient care and reduce burnout among residents, fellows, and practicing physicians.

These organizing principles inform the Common Program Requirements across all Competency domains. Specific content is determined by the Review Committees with input from the appropriate professional societies, certifying boards, and the community.

785  
786 IV.B.1.b).(1) Residents must be able to provide patient care that is  
787 compassionate, appropriate, and effective for the  
788 treatment of health problems and the promotion of  
789 health. (Core)  
790

791	IV.B.1.b).(1).(a)	Residents should demonstrate competent patient care through safe, efficient, appropriately utilized, quality-controlled diagnostic and/or interventional radiological techniques. <sup>(Core)</sup>
792		
793		
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795		
796	IV.B.1.b).(1).(b)	<u>Residents in 60-month programs must demonstrate competence in fundamental clinical skills of medicine, including:</u>
797		
798		
799		
800	IV.B.1.b).(1).(b).(i)	<u>obtaining a comprehensive medical history;</u>
801		<sup>(Core)</sup>
802		
803	IV.B.1.b).(1).(b).(ii)	<u>performing a comprehensive physical examination;</u>
804		<sup>(Core)</sup>
805		
806	IV.B.1.b).(1).(b).(iii)	<u>assessing a patient's medical conditions;</u>
807		<sup>(Core)</sup>
808		
809	IV.B.1.b).(1).(b).(iv)	<u>making appropriate use of diagnostic studies and tests;</u>
810		<sup>(Core)</sup>
811		
812	IV.B.1.b).(1).(b).(v)	<u>integrating information to develop a differential diagnosis; and,</u>
813		<sup>(Core)</sup>
814		
815	IV.B.1.b).(1).(b).(vi)	<u>implementing a treatment plan.</u>
816		<sup>(Core)</sup>
817	<b>IV.B.1.b).(2)</b>	<b>Residents must be able to perform all medical, diagnostic, and surgical procedures considered essential for the area of practice.</b>
818		<sup>(Core)</sup>
819		
820		
821	IV.B.1.b).(2).(a)	Residents must demonstrate competence in the:
822		
823	IV.B.1.b).(2).(a).(i)	performance of basic image-guided procedures;
824		<sup>(Core)</sup>
825		
826	IV.B.1.b).(2).(a).(ii)	interpretation of CT, MRI, radiography, and radionuclide imaging of the cardiovascular system (heart and great vessels);
827		<sup>(Core)</sup>
828		
829		
830	IV.B.1.b).(2).(a).(iii)	generation of ultrasound images using the transducer and imaging system, and interpretation of ultrasonographic examinations of various types;
831		<sup>(Core)</sup>
832		
833		
834		
835	IV.B.1.b).(2).(a).(iii).(a)	Residents should have sufficient hands-on scanning experience.
836		<sup>(Core)</sup>
837		
838	IV.B.1.b).(2).(a).(iii).(a).(i)	<u>This should include the performance of 75 hands-on scans.</u>
839		<sup>(Core)</sup>
840		
841		

842 IV.B.1.b).(2).(a).(iii).(b) Programs should incorporate a  
 843 process to document resident  
 844 proficiency of ultrasonographic skills.  
 845 (Core)  
 846

Specialty-Specific Background and Intent: The Review Committee has defined “sufficient” hands-on ultrasound scanning experience to mean that residents are to experience the basic aspects of ultrasound such as ultrasound physics, knobology, image generation, and interpretation. Examples of the types of routine ultrasound examinations that could provide these experiences include, but are not limited to, abdominal ultrasound, obstetrical/gynecological ultrasound, pediatric ultrasound, musculoskeletal ultrasound, vascular ultrasound, and breast ultrasound. Ultrasound-guided interventional procedures are also acceptable.

847  
 848 IV.B.1.b).(2).(a).(iv) management of contrast reactions; and,  
 849 (Core)  
 850  
 851 IV.B.1.b).(2).(a).(v) ongoing awareness of radiation exposure,  
 852 protection, and safety, and the application of  
 853 these principles in practice. (Core)  
 854

855 **IV.B.1.c) Medical Knowledge**

856  
 857 **Residents must demonstrate knowledge of established and**  
 858 **evolving biomedical, clinical, epidemiological and social-**  
 859 **behavioral sciences, as well as the application of this**  
 860 **knowledge to patient care. (Core)**  
 861

862 IV.B.1.c).(1) Residents must demonstrate knowledge of:

863  
 864 IV.B.1.c).(1).(a) the principles of medical imaging physics, including  
 865 CT, dual-energy X-ray absorptiometry, fluoroscopy,  
 866 gamma camera and hybrid imaging technologies,  
 867 MRI, radiography, and ultrasonography; (Core)  
 868

869 IV.B.1.c).(1).(b) non-interpretive skills, including health care  
 870 economics, coding and billing compliance, and the  
 871 business of medicine; (Core)  
 872

873 IV.B.1.c).(1).(c) appropriate and patient-centered imaging  
 874 utilization; (Core)  
 875

876 IV.B.1.c).(1).(d) quality improvement techniques; (Core)  
 877

878 IV.B.1.c).(1).(e) radiologic/pathologic correlation; and, (Core)  
 879

880 IV.B.1.c).(1).(f) physiology, utilization, and safety of contrast agents  
 881 and pharmaceuticals. (Core)  
 882

883 **IV.B.1.d) Practice-based Learning and Improvement**  
 884

885 Residents must demonstrate the ability to investigate and  
886 evaluate their care of patients, to appraise and assimilate  
887 scientific evidence, and to continuously improve patient care  
888 based on constant self-evaluation and lifelong learning. <sup>(Core)</sup>  
889

**Background and Intent:** Practice-based learning and improvement is one of the defining characteristics of being a physician. It is the ability to investigate and evaluate the care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning.

The intention of this Competency is to help a physician develop the habits of mind required to continuously pursue quality improvement, well past the completion of residency.

- 890  
891 **IV.B.1.d).(1)** Residents must demonstrate competence in:  
892  
893 **IV.B.1.d).(1).(a)** identifying strengths, deficiencies, and limits in  
894 one’s knowledge and expertise; <sup>(Core)</sup>  
895  
896 **IV.B.1.d).(1).(b)** setting learning and improvement goals; <sup>(Core)</sup>  
897  
898 **IV.B.1.d).(1).(c)** identifying and performing appropriate learning  
899 activities; <sup>(Core)</sup>  
900  
901 **IV.B.1.d).(1).(d)** systematically analyzing practice using quality  
902 improvement methods, and implementing  
903 changes with the goal of practice improvement;  
904 <sup>(Core)</sup>  
905  
906 **IV.B.1.d).(1).(e)** incorporating feedback and formative  
907 evaluation into daily practice; <sup>(Core)</sup>  
908  
909 **IV.B.1.d).(1).(f)** locating, appraising, and assimilating evidence  
910 from scientific studies related to their patients’  
911 health problems; and, <sup>(Core)</sup>  
912  
913 **IV.B.1.d).(1).(g)** using information technology to optimize  
914 learning. <sup>(Core)</sup>  
915  
916 **IV.B.1.e)** **Interpersonal and Communication Skills**  
917  
918 Residents must demonstrate interpersonal and  
919 communication skills that result in the effective exchange of  
920 information and collaboration with patients, their families,  
921 and health professionals. <sup>(Core)</sup>  
922  
923 **IV.B.1.e).(1)** Residents must demonstrate competence in:  
924  
925 **IV.B.1.e).(1).(a)** communicating effectively with patients,  
926 families, and the public, as appropriate, across

927		<b>a broad range of socioeconomic and cultural backgrounds;</b> <sup>(Core)</sup>
928		
929		
930	IV.B.1.e).(1).(a).(i)	Residents must demonstrate competence in obtaining informed consent and effectively describing imaging appropriateness, safety issues, and the results of diagnostic imaging and procedures to patients. <sup>(Core)</sup>
931		
932		
933		
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935		
936	<b>IV.B.1.e).(1).(b)</b>	<b>communicating effectively with physicians, other health professionals, and health-related agencies;</b> <sup>(Core)</sup>
937		
938		
939		
940	IV.B.1.e).(1).(b).(i)	Residents must demonstrate competence in communicating the results of examinations and procedures to the referring provider and/or other appropriate individuals effectively and in a timely manner. <sup>(Core)</sup>
941		
942		
943		
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945		
946	<b>IV.B.1.e).(1).(c)</b>	<b>working effectively as a member or leader of a health care team or other professional group;</b> <sup>(Core)</sup>
947		
948		
949		
950	<b>IV.B.1.e).(1).(d)</b>	<b>educating patients, families, students, residents, and other health professionals;</b> <sup>(Core)</sup>
951		
952		
953	<b>IV.B.1.e).(1).(e)</b>	<b>acting in a consultative role to other physicians and health professionals;</b> <sup>(Core)</sup>
954		
955		
956	<b>IV.B.1.e).(1).(f)</b>	<b>maintaining comprehensive, timely, and legible medical records, if applicable; and,</b> <sup>(Core)</sup>
957		
958		
959	IV.B.1.e).(1).(g)	supervising, providing consultation to, and teaching medical students and/or residents. <sup>(Core)</sup>
960		
961		
962	<b>IV.B.1.e).(2)</b>	<b>Residents must learn to communicate with patients and families to partner with them to assess their care goals, including, when appropriate, end-of-life goals.</b> <sup>(Core)</sup>
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**Background and Intent: When there are no more medications or interventions that can achieve a patient’s goals or provide meaningful improvements in quality or length of life, a discussion about the patient’s goals, values, and choices surrounding the end of life is one of the most important conversations that can occur. Residents must learn to participate effectively and compassionately in these meaningful human interactions, for the sake of their patients and themselves.**

**Programs may teach this skill through direct clinical experience, simulation, or other means of active learning.**

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968	<b>IV.B.1.f)</b>	<b>Systems-based Practice</b>

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**Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care, including the social determinants of health, as well as the ability to call effectively on other resources to provide optimal health care. <sup>(Core)</sup>**

**IV.B.1.f).(1) Residents must demonstrate competence in:**

**IV.B.1.f).(1).(a) working effectively in various health care delivery settings and systems relevant to their clinical specialty; <sup>(Core)</sup>**

**Background and Intent: Medical practice occurs in the context of an increasingly complex clinical care environment where optimal patient care requires attention to compliance with external and internal administrative and regulatory requirements.**

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**IV.B.1.f).(1).(b) coordinating patient care across the health care continuum and beyond as relevant to their clinical specialty; <sup>(Core)</sup>**

**Background and Intent: Every patient deserves to be treated as a whole person. Therefore it is recognized that any one component of the health care system does not meet the totality of the patient's needs. An appropriate transition plan requires coordination and forethought by an interdisciplinary team. The patient benefits from proper care and the system benefits from proper use of resources.**

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**IV.B.1.f).(1).(c) advocating for quality patient care and optimal patient care systems; <sup>(Core)</sup>**

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**IV.B.1.f).(1).(d) working in interprofessional teams to enhance patient safety and improve patient care quality; <sup>(Core)</sup>**

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**IV.B.1.f).(1).(e) participating in identifying system errors and implementing potential systems solutions; <sup>(Core)</sup>**

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**IV.B.1.f).(1).(f) incorporating considerations of value, cost awareness, delivery and payment, and risk-benefit analysis in patient and/or population-based care as appropriate; <sup>(Core)</sup>**

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1006

**IV.B.1.f).(1).(g) understanding health care finances and its impact on individual patients' health decisions; and, <sup>(Core)</sup>**

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1010

**IV.B.1.f).(1).(h) compliance with institutional and departmental policies, such as HIPAA, the Joint Commission, patient safety, and infection control. <sup>(Core)</sup>**

1011 **IV.B.1.f).(2)** Residents must learn to advocate for patients within  
1012 the health care system to achieve the patient's and  
1013 family's care goals, including, when appropriate, end-  
1014 of-life goals. <sup>(Core)</sup>  
1015

1016 **IV.C. Curriculum Organization and Resident Experiences**  
1017

1018 **IV.C.1. The curriculum must be structured to optimize resident educational**  
1019 **experiences, the length of these experiences, and supervisory**  
1020 **continuity.** <sup>(Core)</sup>  
1021

1022 IV.C.1.a) The assignment of educational experiences should be structured  
1023 to minimize the frequency of transitions. <sup>(Detail)</sup>  
1024

1025 IV.C.1.b) Educational experiences should be of sufficient length to provide a  
1026 quality educational experience defined by ongoing supervision,  
1027 longitudinal relationships with faculty members, and high-quality  
1028 assessment and feedback. <sup>(Detail)</sup>  
1029

**Background and Intent: In some specialties, frequent rotational transitions, inadequate continuity of faculty member supervision, and dispersed patient locations within the hospital have adversely affected optimal resident education and effective team-based care. The need for patient care continuity varies from specialty to specialty and by clinical situation, and may be addressed by the individual Review Committee.**

1030  
1031 **IV.C.2. The program must provide instruction and experience in pain**  
1032 **management if applicable for the specialty, including recognition of**  
1033 **the signs of addiction.** <sup>(Core)</sup>  
1034

1035 IV.C.3. Didactics  
1036

1037 IV.C.3.a) The core didactic curriculum:  
1038

1039 IV.C.3.a).(1) must be repeated at least every two years; <sup>(Core)</sup>  
1040

Specialty-Specific Background and Intent: While the core didactic curriculum must be repeated every two years at a minimum, programs are encouraged to repeat the didactic curriculum on a 1.5-year cycle so that residents can be exposed to all essential topics twice before the ABR Core Examination or the AOBR Combined Physics and Diagnostic Imaging written exam.

1041  
1042 IV.C.3.a).(2) must provide at least five hours per week of didactic  
1043 activities lectures and conferences; <sup>(Core)</sup>  
1044

1045 IV.C.3.a).(3) must include interactive conferences; <sup>(Core)</sup>  
1046

1047 IV.C.3.a).(4) must be documented; and, <sup>(Core)</sup>  
1048

1049 IV.C.3.a).(5) should include interdisciplinary interdepartmental  
1050 conferences in which both residents and faculty members

1051  
1052

participate on a regular basis. (Core)(Detail)

Specialty-Specific Background and Intent: Interdisciplinary conferences include any clinical or didactic conferences at which representation from multiple clinical specialties is present. Examples include an oncology conference with representation from the medical, surgical, and/or radiation oncology departments, or a peripheral vascular conference with representation from the vascular surgery and/or cardiology departments.

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IV.C.3.b)

Residents must be provided protected time to attend didactic activities ~~lectures and conferences~~ scheduled by the program. (Core)

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IV.C.3.c)

The program must provide mechanisms for residents to participate in all scheduled didactic activities ~~lectures and conferences~~ either in-person or by electronic means. (Core)

1059

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IV.C.3.d)

The program should document resident participation in didactic activities ~~conference attendance~~ for all 48 months of the educational program. (Detail)

1063

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IV.C.3.e)

The didactic curriculum must include:

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1068

IV.C.3.e).(1)

anatomy, disease processes, imaging, and physiology; (Core)

1069

1070

1071

IV.C.3.e).(2)

specialty/subspecialty clinical and general content; (Core)

1072

1073

IV.C.3.e).(3)

topics related to professionalism, physician well-being, diversity inclusion, and ethics; (Core)

1074

1075

1076

IV.C.3.e).(4)

training in the clinical application of medical physics, distributed throughout the 48 months of the educational program; and, (Core)

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1080

IV.C.3.e).(4).(a)

A medical physicist must oversee the development of the physics curriculum. (Core)

1081

1082

1083

IV.C.3.e).(4).(b)

The curriculum should include real-time expert discussions and interactive educational experiences. (Core)(Detail)

1084

1085

1086

Specialty-Specific Background and Intent: It is not the Committee's expectation that all physics education be delivered in person by a physicist faculty member or a physicist on site; this resource could be an area physicist at another site or program. Programs can share this resource and collaborate on the curriculum and lectures.

Essentially, the physics didactic curriculum should not consist entirely of online-recorded lectures for the residents to review without real-time interaction. While programs are free to use alternative educational tools such as online modules, these tools should provide a real-time and interactive component that allows residents to engage with the lecturer.

1087

1088	IV.C.3.f)	a minimum of 80 hours of classroom and laboratory training in
1089		basic radionuclide handling techniques applicable to the medical
1090		use of unsealed byproduct material for imaging and localization
1091		studies (10 CFR 35.290) and oral administration of sodium iodide
1092		I-131 for procedures requiring a written directive (10 CFR 35.392,
1093		10 CFR 35.394). (Core)
1094		
1095	IV.C.3.f).(1)	Integral to the practice of nuclear radiology, these didactics
1096		must include, at a minimum, the following subjects:
1097		
1098	IV.C.3.f).(1).(a)	radiation physics and instrumentation; (Core)
1099		
1100	IV.C.3.f).(1).(b)	radiation protection; (Core)
1101		
1102	IV.C.3.f).(1).(c)	mathematics pertaining to use and measurement of
1103		radioactivity; (Core)
1104		
1105	IV.C.3.f).(1).(d)	chemistry of by-product material for medical use;
1106		and, (Core)
1107		
1108	IV.C.3.f).(1).(e)	radiation biology. (Core)
1109		
1110	IV.C.4.	Curriculum
1111		
1112	IV.C.4.a)	<u>60-Month Programs</u>
1113		
1114	IV.C.4.a).(1)	<u>Programs using the 60-month format must provide a</u>
1115		<u>clinical experience during the first 12 months of the</u>
1116		<u>program, including: (Core)</u>
1117		
1118	IV.C.4.a).(1).(a)	<u>at least nine months of rotations designed to</u>
1119		<u>provide the fundamental clinical skills of medicine,</u>
1120		<u>which must include:</u>
1121		
1122	IV.C.4.a).(1).(a).(i)	<u>six months of inpatient care, which must</u>
1123		<u>include at least one month of critical care;</u>
1124		(Core)
1125		
1126	IV.C.4.a).(1).(a).(ii)	<u>one month of emergency medicine; and,</u>
1127		(Core)
1128		
1129	IV.C.4.a).(1).(a).(iii)	<u>two months of additional inpatient or</u>
1130		<u>outpatient care. (Core)</u>
1131		
1132	IV.C.4.a).(1).(b)	<u>the nine months of fundamental clinical skills of</u>
1133		<u>medicine, which should occur in the disciplines of</u>
1134		<u>anesthesiology, emergency medicine, family</u>
1135		<u>medicine, internal medicine or internal medicine</u>
1136		<u>subspecialties, neurology, obstetrics and</u>
1137		<u>gynecology, pediatrics, surgery or surgical</u>
1138		<u>specialties, or any combination of these. (Core)</u>

1139		
1140	IV.C.4.a).(1).(c)	<u>elective rotations in diagnostic radiology, interventional radiology, or nuclear medicine, which must only occur in radiology departments with a diagnostic radiology, interventional radiology, or nuclear medicine residency program accredited by the ACGME, AOA, RCPSC, or College of Family Physicians of Canada, or in an ACGME International (ACGME-I)-accredited program with Advanced Specialty Accreditation.</u> <sup>(Core)</sup>
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1149		
1150	IV.C.4.a).(1).(c).(i)	<u>These electives must not exceed a combined total of two months.</u> <sup>(Core)</sup>
1151		
1152		
1153	IV.C.4.a).(1).(c).(ii)	<u>The elective rotations in radiology should involve active resident participation and must not be observational only.</u> <sup>(Core)</sup>
1154		
1155		
1156		
1157	IV.C.4.a).(1).(c).(iii)	<u>The elective rotations in radiology should be supervised by a radiology program faculty member.</u> <sup>(Detail)</sup>
1158		
1159		
1160		
1161	IV.C.4.a).(2)	<u>The program director must maintain oversight of resident education in fundamental clinical skills of medicine.</u> <sup>(Core)</sup>
1162		
1163		
1164	IV.C.4.b)	<u>All Diagnostic Radiology Programs</u>
1165		
1166	IV.C.4.b).(1)	The program and curriculum must demonstrate adherence to all guidelines for Early Specialization in Interventional Radiology (ESIR), if applicable. <sup>(Core)</sup> [Previously IV.C.4.a)]
1167		
1168		
1169		
1170	IV.C.4.b).(1).(a)	<u>The ESIR curriculum must include:</u> [Previously IV.C.4.a).(1)]
1171		
1172		
1173	IV.C.4.b).(1).(a).(i)	<u>at least 11 interventional radiology and interventional radiology-related rotations; and,</u> <sup>(Core)</sup> [Previously IV.C.4.a).(1).(a)]
1174		
1175		
1176		
1177	IV.C.4.b).(1).(a).(i).(a)	<u>Of these, at least eight rotations must take place in the interventional radiology section under the supervision of interventional radiology faculty members.</u> <sup>(Core)</sup> [Previously IV.C.4.a).(1).(a).(i)]
1178		
1179		
1180		
1181		
1182		
1183		
1184	IV.C.4.b).(1).(a).(ii)	<u>one critical care rotation of at least four continuous weeks.</u> <sup>(Core)</sup> [Previously IV.C.4.a).(1).(b)]
1185		
1186		
1187		
1188	IV.C.4.b).(1).(b)	<u>ESIR residents must perform a minimum of 500 interventional radiology and/or interventional</u>
1189		

- 1190 radiology-related patient procedural encounters.  
1191 (Core) [Previously IV.C.4.a).(2)]
- 1192
- 1193 IV.C.4.b).(1).(c) The program must provide residents with written  
1194 verification of their successful completion of an  
1195 ESIR curriculum and performance of 500 patient  
1196 procedural encounters. (Core) [Previously  
1197 IV.C.4.a).(3)]
- 1198
- 1199 IV.C.4.b).(2) The program must demonstrate collaboration with the  
1200 ACGME-accredited interventional radiology program(s), if  
1201 applicable, to ensure a cohesive curriculum and  
1202 educational experience for all diagnostic radiology and  
1203 interventional radiology residents. (Core) [Previously  
1204 IV.C.4.b)]
- 1205
- 1206 IV.C.4.b).(3) The duration of education in a single practice domain or in  
1207 research must not exceed 16 months. (Core) [Previously  
1208 IV.C.4.c)]
- 1209
- 1210 IV.C.4.b).(4) Each residents must complete ~~have~~ a minimum of 12  
1211 weeks of clinical rotations in breast imaging. (Core)  
1212 [Previously IV.C.4.d)]
- 1213
- 1214 IV.C.4.b).(4).(a) Each residents must interpret the minimum number  
1215 of mammograms within the specified time period as  
1216 designated by the U.S. Food and Drug  
1217 Administration’s (FDA) Mammography Quality  
1218 Standards Act (MQSA) regulations. (Core) [Previously  
1219 IV.C.4.d).(1)]
- 1220
- 1221 IV.C.4.b).(5) Each residents must complete ~~have~~ a minimum of 700  
1222 hours of training and work experience under the  
1223 supervision of an authorized user (AU) in basic  
1224 radionuclide handling techniques and radiation safety  
1225 applicable to the medical use of unsealed byproduct  
1226 material for imaging and localization studies (10 CFR  
1227 35.290) and oral administration of sodium iodide I-131 for  
1228 procedures requiring a written directive (10 CFR 35.392,  
1229 10 CFR 35.394). (Core) [Previously IV.C.4.e)]
- 1230

Specialty-Specific Background and Intent: According to Nuclear Regulatory Commission (NRC) Guidelines § 35.290 Training for imaging and localization studies, the NRC requires “700 hours of training and experience, including a minimum of 80 hours of classroom and laboratory training.” Thus, there is the option to count the 80 hours of classroom and laboratory training toward the 700-hour total. In any case, the 80-hour requirement (IV.C.3.f) must be met, either in addition to the 700 hours (more than 700 hours total) or as part of the 700 hours.

- 1231
- 1232 IV.C.4.b).(5).(a) Supervised work experience, at a minimum, must

1233		involve all operational and quality control
1234		procedures integral to the practice of nuclear
1235		radiology, including but not limited to: <sup>(Core)</sup>
1236		[Previously IV.C.4.e).(1)]
1237		
1238	IV.C.4.b).(5).(a).(i)	receiving packages; <sup>(Core)</sup> [Previously
1239		IV.C.4.e).(1).(a)]
1240		
1241	IV.C.4.b).(5).(a).(ii)	using generator systems; <sup>(Core)</sup> [Previously
1242		IV.C.4.e).(1).(b)]
1243		
1244	IV.C.4.b).(5).(a).(iii)	calibrating and administering unsealed
1245		radioactive materials for diagnostic and
1246		therapeutic use; <sup>(Core)</sup> [Previously
1247		IV.C.4.e).(1).(c)]
1248		
1249	IV.C.4.b).(5).(a).(iv)	completing written directives; <sup>(Core)</sup>
1250		[Previously IV.C.4.e).(1).(d)]
1251		
1252	IV.C.4.b).(5).(a).(v)	adhering to the ALARA (as low as
1253		reasonably achievable) principle; <sup>(Core)</sup>
1254		[Previously IV.C.4.e).(1).(e)]
1255		
1256	IV.C.4.b).(5).(a).(vi)	ensuring radiation protection in practice, to
1257		include dosimeters, exposure limits, and
1258		signage; <sup>(Core)</sup> [Previously IV.C.4.e).(1).(f)]
1259		
1260	IV.C.4.b).(5).(a).(vii)	using radiation-measuring instruments; <sup>(Core)</sup>
1261		[Previously IV.C.4.e).(1).(g)]
1262		
1263	IV.C.4.b).(5).(a).(viii)	conducting area surveys; <sup>(Core)</sup> [Previously
1264		IV.C.4.e).(1).(h)]
1265		
1266	IV.C.4.b).(5).(a).(ix)	managing radioactive waste; <sup>(Core)</sup>
1267		[Previously IV.C.4.e).(1).(i)]
1268		
1269	IV.C.4.b).(5).(a).(x)	preventing medical events; and, <sup>(Core)</sup>
1270		[Previously IV.C.4.e).(1).(j)]
1271		
1272	IV.C.4.b).(5).(a).(xi)	responding to radiation spills and accidents.
1273		<sup>(Core)</sup> [Previously IV.C.4.e).(1).(k)]
1274		
1275	IV.C.4.b).(5).(b)	Under AU preceptor supervision, <u>each</u> residents
1276		must: [Previously IV.C.4.e).(2)]
1277		
1278	IV.C.4.b).(5).(b).(i)	participate in at least three cases involving
1279		the oral administration of less than or equal
1280		to 1.22 gigabecquerels (33 millicuries) of
1281		sodium iodide I-131 and at least three cases
1282		involving the oral administration of greater
1283		than 1.22 gigabecquerels (33 millicuries) of

1284		sodium iodide I-131. <sup>(Core)</sup> [Previously
1285		IV.C.4.e).(2).(a)]
1286		
1287	IV.C.4.b).(5).(b).(ii)	participate in patient selection and
1288		preparation; <sup>(Core)</sup> [Previously
1289		IV.C.4.e).(2).(b)]
1290		
1291	IV.C.4.b).(5).(b).(iii)	complete documentation, including the
1292		written directive and informed consent; <sup>(Core)</sup>
1293		[Previously IV.C.4.e).(2).(c)]
1294		
1295	IV.C.4.b).(5).(b).(iv)	understand and calculate the administered
1296		dosage; <sup>(Core)</sup> [Previously IV.C.4.e).(2).(d)]
1297		
1298	IV.C.4.b).(5).(b).(v)	counsel patients and their families on
1299		radiation safety issues; <sup>(Core)</sup> [Previously
1300		IV.C.4.e).(2).(e)]
1301		
1302	IV.C.4.b).(5).(b).(vi)	determine release criteria; <sup>(Core)</sup> [Previously
1303		IV.C.4.e).(2).(f)]
1304		
1305	IV.C.4.b).(5).(b).(vii)	arrange patient follow-up; and, <sup>(Core)</sup>
1306		[Previously IV.C.4.e).(2).(g)]
1307		
1308	IV.C.4.b).(5).(b).(viii)	make pregnancy and breastfeeding
1309		recommendations. <sup>(Core)</sup> [Previously
1310		IV.C.4.e).(2).(h)]
1311		
1312	IV.C.5.	Resident Experiences
1313		
1314	IV.C.5.a)	Residents must not interpret examinations without direct
1315		supervision until they have completed at least 12 months of
1316		diagnostic-radiology <u>rotations training</u> . <sup>(Core)</sup>
1317		
1318	IV.C.5.b)	Resident participation in on-call activities, including being on-duty
1319		after-hours and on weekends or holidays, should occur throughout
1320		PGY-3-5. <sup>(Core)</sup> <sub>(Detail)</sub>
1321		
1322	IV.C.5.b).(1)	Resident competence must be assessed and documented
1323		prior to residents assuming independent responsibilities.
1324		<sup>(Core)</sup>
1325		
1326	IV.C.5.b).(2)	Resident supervision during on-call activities must be
1327		provided by a senior resident, fellow, or radiology faculty
1328		member. <sup>(Core)</sup>
1329		
1330	IV.C.5.b).(2).(a)	A radiology faculty member must be available to
1331		residents for direct or indirect supervision. <sup>(Core)</sup>
1332		
1333	IV.C.5.b).(3)	Resident on-call experiences must include interpretation,
1334		reporting, and management of active cases, and must not

- 1335 include administrative roles or duties consisting primarily of  
 1336 re-review of previously reported cases. (Core)  
 1337  
 1338 IV.C.5.b).(4) Relief from after-hours duty granted to residents, at the  
 1339 program director's discretion, must not exceed three  
 1340 months preceding the ABR Core Examination. (Core)  
 1341  
 1342 IV.C.5.c) Residents, as an individual or group, must not be provided  
 1343 protected study time for the ABR Core Examination or AOBR  
 1344 Combined Physics and Diagnostic Imaging Written Exam. (Core)  
 1345  
 1346 IV.C.5.d) Resident participation in patient care and radiology-related  
 1347 activities must occur throughout all 48 months of the program. (Core)  
 1348

Specialty-Specific Background and Intent: The Review Committee expects residents to be engaged in clinical (or research-related) work throughout all 60 months of residency. Examination preparation or other non-research-related activities that do not interfere with clinical training are permitted. Specifically, in preparation for the ABR Core Examination or AOBR Combined Physics and Diagnostic Imaging Exam, faculty member-run review sessions or faculty member-directed conferences are acceptable activities, if this time away from clinical service for these activities does not adversely affect other interventional radiology residents on the clinical services. Residents' protected time away from clinical duties during normal workdays for independent or unsupervised examination preparation is not allowed.

- 1349  
 1350 IV.C.5.e) Residents must maintain current certification in advanced cardiac  
 1351 life-support (ACLS). (Core)  
 1352  
 1353 IV.C.5.f) Residents should have experience in sedation analgesia. (Detail)  
 1354  
 1355 IV.C.5.g) Resident procedural experiences must be tracked using the  
 1356 ACGME Case Log System, and must at least meet the procedural  
 1357 minimums as defined by the Review Committee. (Core)  
 1358  
 1359 IV.C.5.h) Residents must maintain a Resident Learning Portfolio, which  
 1360 must include, at a minimum, documentation of the following: (Core)  
 1361  
 1362 IV.C.5.h).(1) Patient Care  
 1363  
 1364 IV.C.5.h).(1).(a) participation in therapies involving oral  
 1365 administration of sodium iodide I-131, including the  
 1366 date, diagnosis, and dosage; (Core)  
 1367  
 1368 IV.C.5.h).(1).(b) interpretation/multi-reading of mammograms; (Core)  
 1369  
 1370 IV.C.5.h).(1).(c) participation in 75 hands-on ultrasonographic  
 1371 examinations of various types; and, (Core)  
 1372  
 1373 IV.C.5.h).(1).(d) performance of invasive procedures and any  
 1374 complications. (Core)  
 1375  
 1376 IV.C.5.h).(2) Medical Knowledge

1377		
1378	IV.C.5.h).(2).(a)	conferences/courses/meetings attended, and self-
1379		assessment modules completed; and, <sup>(Core)</sup>
1380		
1381	IV.C.5.h).(2).(b)	performance on rotation-specific and/or annual
1382		objective examinations. <sup>(Core)</sup>
1383		
1384	IV.C.5.h).(3)	Practice-based Learning and Improvement
1385		
1386	IV.C.5.h).(3).(a)	evidence of a reflective process that must result in
1387		the annual documentation of an individual learning
1388		plan and self-assessment; and, <sup>(Core)</sup>
1389		
1390	IV.C.5.h).(3).(b)	scholarly activity, such as publications and/or
1391		presentations. <sup>(Core)</sup>
1392		
1393	IV.C.5.h).(4)	Interpersonal and Communication Skills
1394		
1395	IV.C.5.h).(4).(a)	formal documented assessment of oral and written
1396		communication. <sup>(Core)</sup>
1397		
1398	IV.C.5.h).(5)	Professionalism
1399		
1400		status of medical license, if appropriate. <sup>(Core)</sup>
1401		
1402	IV.C.5.h).(6)	Systems-Based Practice
1403		
1404	IV.C.5.h).(6).(a)	a learning activity that involves deriving a solution
1405		to a system problem at the departmental,
1406		institutional, local, regional, national, or
1407		international level; and, <sup>(Core)</sup>
1408		
1409	IV.C.5.h).(6).(b)	compliance with institutional and departmental
1410		policies including, but not limited to HIPAA, Joint
1411		Commission, patient safety, infection control, and
1412		dress code. <sup>(Core)</sup>
1413		
1414	<b>IV.D.</b>	<b>Scholarship</b>
1415		
1416		<b><i>Medicine is both an art and a science. The physician is a humanistic</i></b>
1417		<b><i>scientist who cares for patients. This requires the ability to think critically,</i></b>
1418		<b><i>evaluate the literature, appropriately assimilate new knowledge, and</i></b>
1419		<b><i>practice lifelong learning. The program and faculty must create an</i></b>
1420		<b><i>environment that fosters the acquisition of such skills through resident</i></b>
1421		<b><i>participation in scholarly activities. Scholarly activities may include</i></b>
1422		<b><i>discovery, integration, application, and teaching.</i></b>
1423		
1424		<b><i>The ACGME recognizes the diversity of residencies and anticipates that</i></b>
1425		<b><i>programs prepare physicians for a variety of roles, including clinicians,</i></b>
1426		<b><i>scientists, and educators. It is expected that the program's scholarship will</i></b>
1427		<b><i>reflect its mission(s) and aims, and the needs of the community it serves.</i></b>

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*For example, some programs may concentrate their scholarly activity on quality improvement, population health, and/or teaching, while other programs might choose to utilize more classic forms of biomedical research as the focus for scholarship.*

**IV.D.1. Program Responsibilities**

- IV.D.1.a) The program must demonstrate evidence of scholarly activities consistent with its mission(s) and aims. <sup>(Core)</sup>**
- IV.D.1.b) The program, in partnership with its Sponsoring Institution, must allocate adequate resources to facilitate resident and faculty involvement in scholarly activities. <sup>(Core)</sup>**
- IV.D.1.c) The program must advance residents' knowledge and practice of the scholarly approach to evidence-based patient care. <sup>(Core)</sup>**

**Background and Intent: The scholarly approach can be defined as a synthesis of teaching, learning, and research with the aim of encouraging curiosity and critical thinking based on an understanding of physiology, pathophysiology, differential diagnosis, treatments, treatment alternatives, efficiency of care, and patient safety. While some faculty members are responsible for fulfilling the traditional elements of scholarship through research, integration, and teaching, all faculty members are responsible for advancing residents' scholarly approach to patient care.**

**Elements of a scholarly approach to patient care include:**

- **Asking meaningful questions to stimulate residents to utilize learning resources to create a differential diagnosis, a diagnostic algorithm, and treatment plan**
- **Challenging the evidence that the residents use to reach their medical decisions so that they understand the benefits and limits of the medical literature**
- **When appropriate, dissemination of scholarly learning in a peer-reviewed manner (publication or presentation)**
- **Improving resident learning by encouraging them to teach using a scholarly approach**

**The scholarly approach to patient care begins with curiosity, is grounded in the principles of evidence-based medicine, expands the knowledge base through dissemination, and develops the habits of lifelong learning by encouraging residents to be scholarly teachers.**

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**IV.D.2. Faculty Scholarly Activity**

- IV.D.2.a) Among their scholarly activity, programs must demonstrate accomplishments in at least three of the following domains: <sup>(Core)</sup>**
- **Research in basic science, education, translational science, patient care, or population health**
  - **Peer-reviewed grants**

- 1456 • **Quality improvement and/or patient safety initiatives**
- 1457 • **Systematic reviews, meta-analyses, review articles,**
- 1458 **chapters in medical textbooks, or case reports**
- 1459 • **Creation of curricula, evaluation tools, didactic**
- 1460 **educational activities, or electronic educational**
- 1461 **materials**
- 1462 • **Contribution to professional committees, educational**
- 1463 **organizations, or editorial boards**
- 1464 • **Innovations in education**

1466 **IV.D.2.b) The program must demonstrate dissemination of scholarly**  
 1467 **activity within and external to the program by the following**  
 1468 **methods:**  
 1469

**Background and Intent: For the purposes of education, metrics of scholarly activity represent one of the surrogates for the program’s effectiveness in the creation of an environment of inquiry that advances the residents’ scholarly approach to patient care. The Review Committee will evaluate the dissemination of scholarship for the program as a whole, not for individual faculty members, for a five-year interval, for both core and non-core faculty members, with the goal of assessing the effectiveness of the creation of such an environment. The ACGME recognizes that there may be differences in scholarship requirements between different specialties and between residencies and fellowships in the same specialty.**

1470  
 1471 **IV.D.2.b).(1) faculty participation in grand rounds, posters,**  
 1472 **workshops, quality improvement presentations,**  
 1473 **podium presentations, grant leadership, non-peer-**  
 1474 **reviewed print/electronic resources, articles or**  
 1475 **publications, book chapters, textbooks, webinars,**  
 1476 **service on professional committees, or serving as a**  
 1477 **journal reviewer, journal editorial board member, or**  
 1478 **editor; (Outcome)‡**  
 1479

1480 **IV.D.2.b).(2) peer-reviewed publication. (Outcome)**

1481 **IV.D.3. Resident Scholarly Activity**

1482 **IV.D.3.a) Residents must participate in scholarship. (Core)**

1483  
 1484 **IV.D.3.b) Residents must have training in critical thinking skills and research**  
 1485 **design. (Core)**

1486  
 1487 **IV.D.3.c) All residents must engage in a scholarly project under faculty**  
 1488 **member supervision. (Core)**

1489  
 1490 **IV.D.3.c).(1) The results of such projects must be published or**  
 1491 **presented at institutional, local, regional, national, or**  
 1492 **international meetings, and must be included in each**  
 1493 **resident’s Learning Portfolio. (Outcome)**  
 1494  
 1495  
 1496

1497 IV.D.3.c).(2) The program should specify how each project will be  
1498 evaluated. <sup>(Detail)</sup>

1499  
1500 IV.D.3.d) All graduating residents should have submitted at least one  
1501 scholarly work to a national, regional, or local meeting, or for  
1502 publication. <sup>(Core)</sup>

1503  
1504 **V. Evaluation**

1505  
1506 **V.A. Resident Evaluation**

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1508 **V.A.1. Feedback and Evaluation**

**Background and Intent: Feedback is ongoing information provided regarding aspects of one's performance, knowledge, or understanding. The faculty empower residents to provide much of that feedback themselves in a spirit of continuous learning and self-reflection. Feedback from faculty members in the context of routine clinical care should be frequent, and need not always be formally documented.**

**Formative and summative evaluation have distinct definitions. Formative evaluation is *monitoring resident learning* and providing ongoing feedback that can be used by residents to improve their learning in the context of provision of patient care or other educational opportunities. More specifically, formative evaluations help:**

- residents identify their strengths and weaknesses and target areas that need work
- program directors and faculty members recognize where residents are struggling and address problems immediately

**Summative evaluation is *evaluating a resident's learning* by comparing the residents against the goals and objectives of the rotation and program, respectively. Summative evaluation is utilized to make decisions about promotion to the next level of training, or program completion.**

**End-of-rotation and end-of-year evaluations have both summative and formative components. Information from a summative evaluation can be used formatively when residents or faculty members use it to guide their efforts and activities in subsequent rotations and to successfully complete the residency program.**

**Feedback, formative evaluation, and summative evaluation compare intentions with accomplishments, enabling the transformation of a neophyte physician to one with growing expertise.**

1510  
1511 **V.A.1.a) Faculty members must directly observe, evaluate, and**  
1512 **frequently provide feedback on resident performance during**  
1513 **each rotation or similar educational assignment.** <sup>(Core)</sup>

**Background and Intent: Faculty members should provide feedback frequently throughout the course of each rotation. Residents require feedback from faculty members to reinforce well-performed duties and tasks, as well as to correct deficiencies. This feedback will allow for the development of the learner as they strive**

**to achieve the Milestones. More frequent feedback is strongly encouraged for residents who have deficiencies that may result in a poor final rotation evaluation.**

- 1514  
1515 **V.A.1.b)** **Evaluation must be documented at the completion of the**  
1516 **assignment.** (Core)  
1517
- 1518 **V.A.1.b).(1)** **For block rotations of greater than three months in**  
1519 **duration, evaluation must be documented at least**  
1520 **every three months.** (Core)  
1521
- 1522 **V.A.1.b).(2)** **Longitudinal experiences, such as continuity clinic in**  
1523 **the context of other clinical responsibilities, must be**  
1524 **evaluated at least every three months and at**  
1525 **completion.** (Core)  
1526
- 1527 V.A.1.b).(3) Written end-of-rotation evaluations by faculty members  
1528 must be provided to residents within one month of  
1529 completion of each the rotation. (Core)  
1530
- 1531 **V.A.1.c)** **The program must provide an objective performance**  
1532 **evaluation based on the Competencies and the specialty-**  
1533 **specific Milestones, and must:** (Core)  
1534
- 1535 **V.A.1.c).(1)** **use multiple evaluators (e.g., faculty members, peers,**  
1536 **patients, self, and other professional staff members);**  
1537 **and,** (Core)  
1538
- 1539 **V.A.1.c).(2)** **provide that information to the Clinical Competency**  
1540 **Committee for its synthesis of progressive resident**  
1541 **performance and improvement toward unsupervised**  
1542 **practice.** (Core)  
1543
- 1544 V.A.1.c).(3) ensure that assessment for progressive resident  
1545 responsibility or independence is based upon knowledge,  
1546 skills, and experience; (Core)  
1547
- 1548 V.A.1.c).(4) ensure that resident assessment includes: (Core)  
1549
- 1550 V.A.1.c).(4).(a) global faculty evaluation (all Competencies); (Core)  
1551
- 1552 V.A.1.c).(4).(b) multi-source evaluation (for interpersonal  
1553 skills/communication and professionalism); (Core)  
1554
- 1555 V.A.1.c).(4).(c) resident ability to take independent call; and, (Core)  
1556
- 1557 V.A.1.c).(4).(d) review of the resident Learning Portfolio. (Core)  
1558
- 1559 **V.A.1.d)** **The program director or their designee, with input from the**  
1560 **Clinical Competency Committee, must:**  
1561

1562	<b>V.A.1.d).(1)</b>	<b>meet with and review with each resident their documented semi-annual evaluation of performance, including progress along the specialty-specific Milestones;</b> <small>(Core)</small>
1563		
1564		
1565		
1566		
1567	<b>V.A.1.d).(2)</b>	<b>assist residents in developing individualized learning plans to capitalize on their strengths and identify areas for growth; and,</b> <small>(Core)</small>
1568		
1569		
1570		
1571	<b>V.A.1.d).(3)</b>	<b>develop plans for residents failing to progress, following institutional policies and procedures.</b> <small>(Core)</small>
1572		
1573		
1574	V.A.1.d).(3).(a)	The program must have a clearly defined process for remediation of resident underperformance. <small>(Core)</small>
1575		
1576		
1577	V.A.1.d).(3).(a).(i)	The program should provide more frequent performance reviews of residents experiencing difficulties or receiving unfavorable evaluations. <small>(Core)(Detail)</small>
1578		
1579		
1580		
1581		
1582	V.A.1.d).(3).(a).(ii)	When a resident fails to progress satisfactorily, the program should develop a written plan identifying the problems and addressing how they can be corrected, and then discuss this plan with the resident. <small>(Core)(Detail)</small>
1583		
1584		
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1589	V.A.1.d).(3).(a).(ii).(a)	This plan should be signed by the resident and placed in his or her individual file. <small>(Core)(Detail)</small>
1590		
1591		
1592		

**Background and Intent: Learning is an active process that requires effort from the teacher and the learner. Faculty members evaluate a resident's performance at least at the end of each rotation. The program director or their designee will review those evaluations, including their progress on the Milestones, at a minimum of every six months. Residents should be encouraged to reflect upon the evaluation, using the information to reinforce well-performed tasks or knowledge or to modify deficiencies in knowledge or practice. Working together with the faculty members, residents should develop an individualized learning plan.**

**Residents who are experiencing difficulties with achieving progress along the Milestones may require intervention to address specific deficiencies. Such intervention, documented in an individual remediation plan developed by the program director or a faculty mentor and the resident, will take a variety of forms based on the specific learning needs of the resident. However, the ACGME recognizes that there are situations which require more significant intervention that may alter the time course of resident progression. To ensure due process, it is essential that the program director follow institutional policies and procedures.**

1593

- 1594 **V.A.1.e)** **At least annually, there must be a summative evaluation of**  
 1595 **each resident that includes their readiness to progress to the**  
 1596 **next year of the program, if applicable.** <sup>(Core)</sup>  
 1597
- 1598 **V.A.1.e).(1)** This should include a review of the resident procedural  
 1599 experiences ~~must be reviewed~~ to ensure complete and  
 1600 accurate tracking in the ACGME Case Log System  
 1601 throughout ~~the duration all 48 months~~ of residency  
 1602 education. <sup>(Core)</sup>  
 1603
- 1604 **V.A.1.f)** **The evaluations of a resident’s performance must be**  
 1605 **accessible for review by the resident.** <sup>(Core)</sup>  
 1606
- 1607 **V.A.2.** **Final Evaluation**  
 1608
- 1609 **V.A.2.a)** **The program director must provide a final evaluation for each**  
 1610 **resident upon completion of the program.** <sup>(Core)</sup>  
 1611
- 1612 **V.A.2.a).(1)** **The specialty-specific Milestones, and when applicable**  
 1613 **the specialty-specific Case Logs, must be used as**  
 1614 **tools to ensure residents are able to engage in**  
 1615 **autonomous practice upon completion of the program.**  
 1616 <sup>(Core)</sup>  
 1617
- 1618 **V.A.2.a).(2)** **The final evaluation must:**  
 1619
- 1620 **V.A.2.a).(2).(a)** **become part of the resident’s permanent record**  
 1621 **maintained by the institution, and must be**  
 1622 **accessible for review by the resident in**  
 1623 **accordance with institutional policy;** <sup>(Core)</sup>  
 1624
- 1625 **V.A.2.a).(2).(b)** **verify that the resident has demonstrated the**  
 1626 **knowledge, skills, and behaviors necessary to**  
 1627 **enter autonomous practice;** <sup>(Core)</sup>  
 1628
- 1629 **V.A.2.a).(2).(c)** **consider recommendations from the Clinical**  
 1630 **Competency Committee; and,** <sup>(Core)</sup>  
 1631
- 1632 **V.A.2.a).(2).(d)** **be shared with the resident upon completion of**  
 1633 **the program.** <sup>(Core)</sup>  
 1634
- 1635 **V.A.3.** **A Clinical Competency Committee must be appointed by the**  
 1636 **program director.** <sup>(Core)</sup>  
 1637
- 1638 **V.A.3.a)** **At a minimum, the Clinical Competency Committee must**  
 1639 **include three members of the program faculty, at least one of**  
 1640 **whom is a core faculty member.** <sup>(Core)</sup>  
 1641
- 1642 **V.A.3.a).(1)** **Additional members must be faculty members from**  
 1643 **the same program or other programs, or other health**

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professionals who have extensive contact and experience with the program's residents. (Core)

**Background and Intent: The requirements regarding the Clinical Competency Committee do not preclude or limit a program director's participation on the Clinical Competency Committee. The intent is to leave flexibility for each program to decide the best structure for its own circumstances, but a program should consider: its program director's other roles as resident advocate, advisor, and confidante; the impact of the program director's presence on the other Clinical Competency Committee members' discussions and decisions; the size of the program faculty; and other program-relevant factors. The program director has final responsibility for resident evaluation and promotion decisions.**

**Program faculty may include more than the physician faculty members, such as other physicians and non-physicians who teach and evaluate the program's residents. There may be additional members of the Clinical Competency Committee. Chief residents who have completed core residency programs in their specialty may be members of the Clinical Competency Committee.**

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**V.A.3.b) The Clinical Competency Committee must:**

**V.A.3.b).(1) review all resident evaluations at least semi-annually; (Core)**

**V.A.3.b).(2) determine each resident's progress on achievement of the specialty-specific Milestones; and, (Core)**

**V.A.3.b).(3) meet prior to the residents' semi-annual evaluations and advise the program director regarding each resident's progress. (Core)**

**V.B. Faculty Evaluation**

**V.B.1. The program must have a process to evaluate each faculty member's performance as it relates to the educational program at least annually. (Core)**

**Background and Intent: The program director is responsible for the education program and for whom delivers it. While the term "faculty" may be applied to physicians within a given institution for other reasons, it is applied to residency program faculty members only through approval by a program director. The development of the faculty improves the education, clinical, and research aspects of a program. Faculty members have a strong commitment to the resident and desire to provide optimal education and work opportunities. Faculty members must be provided feedback on their contribution to the mission of the program. All faculty members who interact with residents desire feedback on their education, clinical care, and research. If a faculty member does not interact with residents, feedback is not required. With regard to the diverse operating environments and configurations, the residency program director may need to work with others to determine the effectiveness of the program's faculty performance with regard to their role in the educational program. All teaching faculty members should have their educational efforts evaluated by the residents in a confidential and**

anonymous manner. Other aspects for the feedback may include research or clinical productivity, review of patient outcomes, or peer review of scholarly activity. The process should reflect the local environment and identify the necessary information. The feedback from the various sources should be summarized and provided to the faculty on an annual basis by a member of the leadership team of the program.

- 1666  
1667 **V.B.1.a)** This evaluation must include a review of the faculty member's  
1668 clinical teaching abilities, engagement with the educational  
1669 program, participation in faculty development related to their  
1670 skills as an educator, clinical performance, professionalism,  
1671 and scholarly activities. <sup>(Core)</sup>  
1672  
1673 **V.B.1.b)** This evaluation must include written, anonymous, and  
1674 confidential evaluations by the residents. <sup>(Core)</sup>  
1675  
1676 **V.B.2.** Faculty members must receive feedback on their evaluations at least  
1677 annually. <sup>(Core)</sup>  
1678  
1679 **V.B.3.** Results of the faculty educational evaluations should be  
1680 incorporated into program-wide faculty development plans. <sup>(Core)</sup>  
1681

**Background and Intent:** The quality of the faculty's teaching and clinical care is a determinant of the quality of the program and the quality of the residents' future clinical care. Therefore, the program has the responsibility to evaluate and improve the program faculty members' teaching, scholarship, professionalism, and quality care. This section mandates annual review of the program's faculty members for this purpose, and can be used as input into the Annual Program Evaluation.

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1683 **V.C. Program Evaluation and Improvement**  
1684  
1685 **V.C.1.** The program director must appoint the Program Evaluation  
1686 Committee to conduct and document the Annual Program  
1687 Evaluation as part of the program's continuous improvement  
1688 process. <sup>(Core)</sup>  
1689  
1690 **V.C.1.a)** The Program Evaluation Committee must be composed of at  
1691 least two program faculty members, at least one of whom is a  
1692 core faculty member, and at least one resident. <sup>(Core)</sup>  
1693  
1694 **V.C.1.b)** Program Evaluation Committee responsibilities must include:  
1695  
1696 **V.C.1.b).(1)** acting as an advisor to the program director, through  
1697 program oversight; <sup>(Core)</sup>  
1698  
1699 **V.C.1.b).(2)** review of the program's self-determined goals and  
1700 progress toward meeting them; <sup>(Core)</sup>  
1701  
1702 **V.C.1.b).(3)** guiding ongoing program improvement, including  
1703 development of new goals, based upon outcomes;  
1704 and, <sup>(Core)</sup>  
1705

1706 **V.C.1.b).(4)** review of the current operating environment to identify  
1707 strengths, challenges, opportunities, and threats as  
1708 related to the program's mission and aims. <sup>(Core)</sup>  
1709

**Background and Intent: In order to achieve its mission and train quality physicians, a program must evaluate its performance and plan for improvement in the Annual Program Evaluation. Performance of residents and faculty members is a reflection of program quality, and can use metrics that reflect the goals that a program has set for itself. The Program Evaluation Committee utilizes outcome parameters and other data to assess the program's progress toward achievement of its goals and aims.**

1710  
1711 **V.C.1.c)** The Program Evaluation Committee should consider the  
1712 following elements in its assessment of the program:  
1713  
1714 **V.C.1.c).(1)** curriculum; <sup>(Core)</sup>  
1715  
1716 **V.C.1.c).(2)** outcomes from prior Annual Program Evaluation(s);  
1717 <sup>(Core)</sup>  
1718  
1719 **V.C.1.c).(3)** ACGME letters of notification, including citations,  
1720 Areas for Improvement, and comments; <sup>(Core)</sup>  
1721  
1722 **V.C.1.c).(4)** quality and safety of patient care; <sup>(Core)</sup>  
1723  
1724 **V.C.1.c).(5)** aggregate resident and faculty:  
1725  
1726 **V.C.1.c).(5).(a)** well-being; <sup>(Core)</sup>  
1727  
1728 **V.C.1.c).(5).(b)** recruitment and retention; <sup>(Core)</sup>  
1729  
1730 **V.C.1.c).(5).(c)** workforce diversity; <sup>(Core)</sup>  
1731  
1732 **V.C.1.c).(5).(d)** engagement in quality improvement and patient  
1733 safety; <sup>(Core)</sup>  
1734  
1735 **V.C.1.c).(5).(e)** scholarly activity; <sup>(Core)</sup>  
1736  
1737 **V.C.1.c).(5).(f)** ACGME Resident and Faculty Surveys; and,  
1738 <sup>(Core)</sup>  
1739  
1740 **V.C.1.c).(5).(g)** written evaluations of the program. <sup>(Core)</sup>  
1741  
1742 **V.C.1.c).(6)** aggregate resident:  
1743  
1744 **V.C.1.c).(6).(a)** achievement of the Milestones; <sup>(Core)</sup>  
1745  
1746 **V.C.1.c).(6).(b)** in-training examinations (where applicable);  
1747 <sup>(Core)</sup>  
1748  
1749 **V.C.1.c).(6).(c)** board pass and certification rates; and, <sup>(Core)</sup>  
1750

- 1751 V.C.1.c).(6).(d) graduate performance. (Core)  
 1752  
 1753 V.C.1.c).(7) aggregate faculty:  
 1754  
 1755 V.C.1.c).(7).(a) evaluation; and, (Core)  
 1756  
 1757 V.C.1.c).(7).(b) professional development. (Core)  
 1758  
 1759 V.C.1.d) The Program Evaluation Committee must evaluate the  
 1760 program's mission and aims, strengths, areas for  
 1761 improvement, and threats. (Core)  
 1762  
 1763 V.C.1.e) The annual review, including the action plan, must:  
 1764  
 1765 V.C.1.e).(1) be distributed to and discussed with the members of  
 1766 the teaching faculty and the residents; and, (Core)  
 1767  
 1768 V.C.1.e).(2) be submitted to the DIO. (Core)  
 1769  
 1770 V.C.2. The program must complete a Self-Study prior to its 10-Year  
 1771 Accreditation Site Visit. (Core)  
 1772  
 1773 V.C.2.a) A summary of the Self-Study must be submitted to the DIO.  
 1774 (Core)  
 1775

**Background and Intent:** Outcomes of the documented Annual Program Evaluation can be integrated into the 10-year Self-Study process. The Self-Study is an objective, comprehensive evaluation of the residency program, with the aim of improving it. Underlying the Self-Study is this longitudinal evaluation of the program and its learning environment, facilitated through sequential Annual Program Evaluations that focus on the required components, with an emphasis on program strengths and self-identified areas for improvement. Details regarding the timing and expectations for the Self-Study and the 10-Year Accreditation Site Visit are provided in the *ACGME Manual of Policies and Procedures*. Additionally, a description of the [Self-Study process](#), as well as information on how to prepare for the [10-Year Accreditation Site Visit](#), is available on the ACGME website.

- 1776  
 1777 V.C.3. *One goal of ACGME-accredited education is to educate physicians*  
 1778 *who seek and achieve board certification. One measure of the*  
 1779 *effectiveness of the educational program is the ultimate pass rate.*  
 1780  
 1781 *The program director should encourage all eligible program*  
 1782 *graduates to take the certifying examination offered by the*  
 1783 *applicable American Board of Medical Specialties (ABMS) member*  
 1784 *board or American Osteopathic Association (AOA) certifying board.*  
 1785  
 1786 V.C.3.a) For specialties in which the ABMS member board and/or AOA  
 1787 certifying board offer(s) an annual written exam, in the  
 1788 preceding three years, the program's aggregate pass rate of  
 1789 those taking the examination for the first time must be higher

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**than the bottom fifth percentile of programs in that specialty.**  
(Outcome)

Specialty-Specific Background and Intent: For diagnostic radiology programs, the annual written exam referenced in V.C.3.a) will be considered equivalent to the ABR's Core Exam or the AOBR's Combined Physics and Diagnostic Imaging Examination and will be the basis for the aggregate program pass rate.

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**V.C.3.b)** For specialties in which the ABMS member board and/or AOA certifying board offer(s) a biennial written exam, in the preceding six years, the program's aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that specialty.  
(Outcome)

**V.C.3.c)** For specialties in which the ABMS member board and/or AOA certifying board offer(s) an annual oral exam, in the preceding three years, the program's aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that specialty.  
(Outcome)

Specialty-Specific Background and Intent: For diagnostic radiology programs, while the ABR's certifying examination is not an oral exam, it is the second and final exam that must be taken and passed to obtain certification; therefore, requirement V.C.3.c) will be applicable to the ABR's computer-based certifying exam.

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**V.C.3.d)** For specialties in which the ABMS member board and/or AOA certifying board offer(s) a biennial oral exam, in the preceding six years, the program's aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that specialty. (Outcome)

**V.C.3.e)** For each of the exams referenced in V.C.3.a)-d), any program whose graduates over the time period specified in the requirement have achieved an 80 percent pass rate will have met this requirement, no matter the percentile rank of the program for pass rate in that specialty. (Outcome)

**Background and Intent: Setting a single standard for pass rate that works across specialties is not supportable based on the heterogeneity of the psychometrics of different examinations. By using a percentile rank, the performance of the lower five percent (fifth percentile) of programs can be identified and set on a path to curricular and test preparation reform.**

**There are specialties where there is a very high board pass rate that could leave successful programs in the bottom five percent (fifth percentile) despite admirable performance. These high-performing programs should not be cited, and V.C.3.e) is designed to address this.**

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V.C.3.f) Programs must report, in ADS, board certification status annually for the cohort of board-eligible residents that graduated seven years earlier. <sup>(Core)</sup>

**Background and Intent:** It is essential that residency programs demonstrate knowledge and skill transfer to their residents. One measure of that is the qualifying or initial certification exam pass rate. Another important parameter of the success of the program is the ultimate board certification rate of its graduates. Graduates are eligible for up to seven years from residency graduation for initial certification. The ACGME will calculate a rolling three-year average of the ultimate board certification rate at seven years post-graduation, and the Review Committees will monitor it.

The Review Committees will track the rolling seven-year certification rate as an indicator of program quality. Programs are encouraged to monitor their graduates' performance on board certification examinations.

In the future, the ACGME may establish parameters related to ultimate board certification rates.

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VI. The Learning and Working Environment

*Residency education must occur in the context of a learning and working environment that emphasizes the following principles:*

- *Excellence in the safety and quality of care rendered to patients by residents today*
- *Excellence in the safety and quality of care rendered to patients by today's residents in their future practice*
- *Excellence in professionalism through faculty modeling of:*
  - *the effacement of self-interest in a humanistic environment that supports the professional development of physicians*
  - *the joy of curiosity, problem-solving, intellectual rigor, and discovery*
- *Commitment to the well-being of the students, residents, faculty members, and all members of the health care team*

**Background and Intent:** The revised requirements are intended to provide greater flexibility within an established framework, allowing programs and residents more discretion to structure clinical education in a way that best supports the above principles of professional development. With this increased flexibility comes the responsibility for programs and residents to adhere to the 80-hour maximum weekly limit (unless a rotation-specific exception is granted by a Review Committee), and to utilize flexibility in a manner that optimizes patient safety, resident education, and resident well-being. The requirements are intended to support the development of a sense of professionalism by encouraging residents to make decisions based on patient needs and their own well-being, without fear of jeopardizing their program's

accreditation status. In addition, the proposed requirements eliminate the burdensome documentation requirement for residents to justify clinical and educational work hour variations.

Clinical and educational work hours represent only one part of the larger issue of conditions of the learning and working environment, and Section VI has now been expanded to include greater attention to patient safety and resident and faculty member well-being. The requirements are intended to support programs and residents as they strive for excellence, while also ensuring ethical, humanistic training. Ensuring that flexibility is used in an appropriate manner is a shared responsibility of the program and residents. With this flexibility comes a responsibility for residents and faculty members to recognize the need to hand off care of a patient to another provider when a resident is too fatigued to provide safe, high quality care and for programs to ensure that residents remain within the 80-hour maximum weekly limit.

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**VI.A. Patient Safety, Quality Improvement, Supervision, and Accountability**

**VI.A.1. Patient Safety and Quality Improvement**

*All physicians share responsibility for promoting patient safety and enhancing quality of patient care. Graduate medical education must prepare residents to provide the highest level of clinical care with continuous focus on the safety, individual needs, and humanity of their patients. It is the right of each patient to be cared for by residents who are appropriately supervised; possess the requisite knowledge, skills, and abilities; understand the limits of their knowledge and experience; and seek assistance as required to provide optimal patient care.*

*Residents must demonstrate the ability to analyze the care they provide, understand their roles within health care teams, and play an active role in system improvement processes. Graduating residents will apply these skills to critique their future unsupervised practice and effect quality improvement measures.*

*It is necessary for residents and faculty members to consistently work in a well-coordinated manner with other health care professionals to achieve organizational patient safety goals.*

**VI.A.1.a) Patient Safety**

**VI.A.1.a).(1) Culture of Safety**

*A culture of safety requires continuous identification of vulnerabilities and a willingness to transparently deal with them. An effective organization has formal mechanisms to assess the knowledge, skills, and attitudes of its personnel toward safety in order to identify areas for improvement.*

1884	VI.A.1.a).(1).(a)	The program, its faculty, residents, and fellows must actively participate in patient safety systems and contribute to a culture of safety. (Core)
1885		
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1889	VI.A.1.a).(1).(b)	The program must have a structure that promotes safe, interprofessional, team-based care. (Core)
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1892	VI.A.1.a).(2)	Education on Patient Safety  Programs must provide formal educational activities that promote patient safety-related goals, tools, and techniques. (Core)
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<p><b>Background and Intent: Optimal patient safety occurs in the setting of a coordinated interprofessional learning and working environment.</b></p>
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1899	VI.A.1.a).(3)	Patient Safety Events  <i>Reporting, investigation, and follow-up of adverse events, near misses, and unsafe conditions are pivotal mechanisms for improving patient safety, and are essential for the success of any patient safety program. Feedback and experiential learning are essential to developing true competence in the ability to identify causes and institute sustainable systems-based changes to ameliorate patient safety vulnerabilities.</i>
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1910	VI.A.1.a).(3).(a)	Residents, fellows, faculty members, and other clinical staff members must:
1911		
1912	VI.A.1.a).(3).(a).(i)	know their responsibilities in reporting patient safety events at the clinical site; (Core)
1913		
1914		
1915	VI.A.1.a).(3).(a).(ii)	know how to report patient safety events, including near misses, at the clinical site; and, (Core)
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1919	VI.A.1.a).(3).(a).(iii)	be provided with summary information of their institution’s patient safety reports. (Core)
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1924	VI.A.1.a).(3).(b)	Residents must participate as team members in real and/or simulated interprofessional clinical patient safety activities, such as root cause analyses or other activities that include analysis, as well as formulation and implementation of actions. (Core)
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1934	<b>VI.A.1.a).(4)</b>	<b>Resident Education and Experience in Disclosure of Adverse Events</b>
1935		
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1938		<i><b>Patient-centered care requires patients, and when appropriate families, to be apprised of clinical situations that affect them, including adverse events. This is an important skill for faculty physicians to model, and for residents to develop and apply.</b></i>
1939		
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1943	<b>VI.A.1.a).(4).(a)</b>	<b>All residents must receive training in how to disclose adverse events to patients and families. <sup>(Core)</sup></b>
1944		
1945		
1946		
1947	<b>VI.A.1.a).(4).(b)</b>	<b>Residents should have the opportunity to participate in the disclosure of patient safety events, real or simulated. <sup>(Detail)†</sup></b>
1948		
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1951	<b>VI.A.1.b)</b>	<b>Quality Improvement</b>
1952		
1953	<b>VI.A.1.b).(1)</b>	<b>Education in Quality Improvement</b>
1954		
1955		<i><b>A cohesive model of health care includes quality-related goals, tools, and techniques that are necessary in order for health care professionals to achieve quality improvement goals.</b></i>
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1960	<b>VI.A.1.b).(1).(a)</b>	<b>Residents must receive training and experience in quality improvement processes, including an understanding of health care disparities. <sup>(Core)</sup></b>
1961		
1962		
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1964	<b>VI.A.1.b).(2)</b>	<b>Quality Metrics</b>
1965		
1966		<i><b>Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts.</b></i>
1967		
1968		
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1970	<b>VI.A.1.b).(2).(a)</b>	<b>Residents and faculty members must receive data on quality metrics and benchmarks related to their patient populations. <sup>(Core)</sup></b>
1971		
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1974	<b>VI.A.1.b).(3)</b>	<b>Engagement in Quality Improvement Activities</b>
1975		
1976		<i><b>Experiential learning is essential to developing the ability to identify and institute sustainable systems-based changes to improve patient care.</b></i>
1977		
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1980	<b>VI.A.1.b).(3).(a)</b>	<b>Residents must have the opportunity to participate in interprofessional quality improvement activities. <sup>(Core)</sup></b>
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1984	VI.A.1.b).(3).(a).(i)	This should include activities aimed at reducing health care disparities. <small>(Detail)</small>
1985		
1986		
1987	VI.A.2.	Supervision and Accountability
1988		
1989	VI.A.2.a)	<i>Although the attending physician is ultimately responsible for the care of the patient, every physician shares in the responsibility and accountability for their efforts in the provision of care. Effective programs, in partnership with their Sponsoring Institutions, define, widely communicate, and monitor a structured chain of responsibility and accountability as it relates to the supervision of all patient care.</i>
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1998		<i>Supervision in the setting of graduate medical education provides safe and effective care to patients; ensures each resident's development of the skills, knowledge, and attitudes required to enter the unsupervised practice of medicine; and establishes a foundation for continued professional growth.</i>
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2004	VI.A.2.a).(1)	Each patient must have an identifiable and appropriately-credentialed and privileged attending physician (or licensed independent practitioner as specified by the applicable Review Committee) who is responsible and accountable for the patient's care. <small>(Core)</small>
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2011	VI.A.2.a).(1).(a)	This information must be available to residents, faculty members, other members of the health care team, and patients. <small>(Core)</small>
2012		
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2015	VI.A.2.a).(1).(b)	Residents and faculty members must inform each patient of their respective roles in that patient's care when providing direct patient care. <small>(Core)</small>
2016		
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2020	VI.A.2.b)	<i>Supervision may be exercised through a variety of methods. For many aspects of patient care, the supervising physician may be a more advanced resident or fellow. Other portions of care provided by the resident can be adequately supervised by the appropriate availability of the supervising faculty member, fellow, or senior resident physician, either on site or by means of telecommunication technology. Some activities require the physical presence of the supervising faculty member. In some circumstances, supervision may include post-hoc review of resident-delivered care with feedback.</i>
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<p><b>Background and Intent:</b> Appropriate supervision is essential for patient safety and high-quality teaching. Supervision is also contextual. There is tremendous diversity of resident patient interactions, education and training locations, and resident skills and abilities even at the same level of the educational program. The degree of supervision</p>
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is expected to evolve progressively as a resident gains more experience, even with the same patient condition or procedure. All residents have a level of supervision commensurate with their level of autonomy in practice; this level of supervision may be enhanced based on factors such as patient safety, complexity, acuity, urgency, risk of serious adverse events, or other pertinent variables.

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2032	<b>VI.A.2.b).(1)</b>	<b>The program must demonstrate that the appropriate level of supervision in place for all residents is based on each resident’s level of training and ability, as well as patient complexity and acuity. Supervision may be exercised through a variety of methods, as appropriate to the situation. <sup>(Core)</sup></b>
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2039	<b>VI.A.2.b).(2)</b>	<b>The program must define when physical presence of a supervising physician is required. <sup>(Core)</sup></b>
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2042	<b>VI.A.2.c)</b>	<b>Levels of Supervision</b>
2043		
2044		<b>To promote appropriate resident supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: <sup>(Core)</sup></b>
2045		
2046		
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2048	<b>VI.A.2.c).(1)</b>	<b>Direct Supervision:</b>
2049		
2050	<b>VI.A.2.c).(1).(a)</b>	<b>the supervising physician is physically present with the resident during the key portions of the patient interaction; or, <sup>(Core)</sup></b>
2051		
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2054	<b>VI.A.2.c).(1).(a).(i)</b>	<b>PGY-1 residents must initially be supervised directly, only as described in VI.A.2.c).(1).(a). <sup>(Core)</sup></b>
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2058	<b>VI.A.2.c).(1).(b)</b>	<b>the supervising physician and/or patient is not physically present with the resident and the supervising physician is concurrently monitoring the patient care through appropriate telecommunication technology. <sup>(Core)</sup></b>
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2064	<b>VI.A.2.c).(1).(b).(i)</b>	<b><u>The program must have clear guidelines that delineate which competencies must be demonstrated to determine when a resident can progress to indirect supervision. <sup>(Core)</sup></u></b>
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2069	<b>VI.A.2.c).(1).(b).(ii)</b>	<b><u>The program director must ensure that clear expectations exist and are communicated to the residents, and that these expectations outline specific situations in which a resident would still require direct supervision. <sup>(Core)</sup></u></b>
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2075	<b>VI.A.2.c).(2)</b>	<b>Indirect Supervision: the supervising physician is not providing physical or concurrent visual or audio</b>
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2077		supervision but is immediately available to the
2078		resident for guidance and is available to provide
2079		appropriate direct supervision. <sup>(Core)</sup>
2080		
2081	<b>VI.A.2.c).(3)</b>	<b>Oversight – the supervising physician is available to</b>
2082		<b>provide review of procedures/encounters with</b>
2083		<b>feedback provided after care is delivered. <sup>(Core)</sup></b>
2084		
2085	<b>VI.A.2.d)</b>	<b>The privilege of progressive authority and responsibility,</b>
2086		<b>conditional independence, and a supervisory role in patient</b>
2087		<b>care delegated to each resident must be assigned by the</b>
2088		<b>program director and faculty members. <sup>(Core)</sup></b>
2089		
2090	<b>VI.A.2.d).(1)</b>	<b>The program director must evaluate each resident’s</b>
2091		<b>abilities based on specific criteria, guided by the</b>
2092		<b>Milestones. <sup>(Core)</sup></b>
2093		
2094	<b>VI.A.2.d).(2)</b>	<b>Faculty members functioning as supervising</b>
2095		<b>physicians must delegate portions of care to residents</b>
2096		<b>based on the needs of the patient and the skills of</b>
2097		<b>each resident. <sup>(Core)</sup></b>
2098		
2099	<b>VI.A.2.d).(3)</b>	<b>Senior residents or fellows should serve in a</b>
2100		<b>supervisory role to junior residents in recognition of</b>
2101		<b>their progress toward independence, based on the</b>
2102		<b>needs of each patient and the skills of the individual</b>
2103		<b>resident or fellow. <sup>(Detail)</sup></b>
2104		
2105	<b>VI.A.2.e)</b>	<b>Programs must set guidelines for circumstances and events</b>
2106		<b>in which residents must communicate with the supervising</b>
2107		<b>faculty member(s). <sup>(Core)</sup></b>
2108		
2109	<b>VI.A.2.e).(1)</b>	<b>Each resident must know the limits of their scope of</b>
2110		<b>authority, and the circumstances under which the</b>
2111		<b>resident is permitted to act with conditional</b>
2112		<b>independence. <sup>(Outcome)</sup></b>
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<p><b>Background and Intent: The ACGME Glossary of Terms defines conditional independence as: Graded, progressive responsibility for patient care with defined oversight.</b></p>
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2115	<b>VI.A.2.f)</b>	<b>Faculty supervision assignments must be of sufficient</b>
2116		<b>duration to assess the knowledge and skills of each resident</b>
2117		<b>and to delegate to the resident the appropriate level of patient</b>
2118		<b>care authority and responsibility. <sup>(Core)</sup></b>
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2120	<b>VI.B.</b>	<b>Professionalism</b>
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2122	<b>VI.B.1.</b>	<b>Programs, in partnership with their Sponsoring Institutions, must</b>
2123		<b>educate residents and faculty members concerning the professional</b>
2124		<b>responsibilities of physicians, including their obligation to be</b>

2125 appropriately rested and fit to provide the care required by their  
2126 patients. <sup>(Core)</sup>

2127  
2128 **VI.B.2. The learning objectives of the program must:**

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2130 **VI.B.2.a) be accomplished through an appropriate blend of supervised**  
2131 **patient care responsibilities, clinical teaching, and didactic**  
2132 **educational events;** <sup>(Core)</sup>

2133  
2134 **VI.B.2.b) be accomplished without excessive reliance on residents to**  
2135 **fulfill non-physician obligations; and,** <sup>(Core)</sup>  
2136

**Background and Intent: Routine reliance on residents to fulfill non-physician obligations increases work compression for residents and does not provide an optimal educational experience. Non-physician obligations are those duties which in most institutions are performed by nursing and allied health professionals, transport services, or clerical staff. Examples of such obligations include transport of patients from the wards or units for procedures elsewhere in the hospital; routine blood drawing for laboratory tests; routine monitoring of patients when off the ward; and clerical duties, such as scheduling. While it is understood that residents may be expected to do any of these things on occasion when the need arises, these activities should not be performed by residents routinely and must be kept to a minimum to optimize resident education.**

2137  
2138 **VI.B.2.c) ensure manageable patient care responsibilities.** <sup>(Core)</sup>  
2139

**Background and Intent: The Common Program Requirements do not define “manageable patient care responsibilities” as this is variable by specialty and PGY level. Review Committees will provide further detail regarding patient care responsibilities in the applicable specialty-specific Program Requirements and accompanying FAQs. However, all programs, regardless of specialty, should carefully assess how the assignment of patient care responsibilities can affect work compression, especially at the PGY-1 level.**

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2141 **VI.B.3. The program director, in partnership with the Sponsoring Institution,**  
2142 **must provide a culture of professionalism that supports patient**  
2143 **safety and personal responsibility.** <sup>(Core)</sup>  
2144

2145 **VI.B.4. Residents and faculty members must demonstrate an understanding**  
2146 **of their personal role in the:**

2147  
2148 **VI.B.4.a) provision of patient- and family-centered care;** <sup>(Outcome)</sup>  
2149

2150 **VI.B.4.b) safety and welfare of patients entrusted to their care,**  
2151 **including the ability to report unsafe conditions and adverse**  
2152 **events;** <sup>(Outcome)</sup>  
2153

**Background and Intent: This requirement emphasizes that responsibility for reporting unsafe conditions and adverse events is shared by all members of the team and is not solely the responsibility of the resident.**

2154

2155 VI.B.4.c) assurance of their fitness for work, including: (Outcome)  
2156

**Background and Intent:** This requirement emphasizes the professional responsibility of faculty members and residents to arrive for work adequately rested and ready to care for patients. It is also the responsibility of faculty members, residents, and other members of the care team to be observant, to intervene, and/or to escalate their concern about resident and faculty member fitness for work, depending on the situation, and in accordance with institutional policies.

2157  
2158 VI.B.4.c).(1) management of their time before, during, and after  
2159 clinical assignments; and, (Outcome)  
2160

2161 VI.B.4.c).(2) recognition of impairment, including from illness,  
2162 fatigue, and substance use, in themselves, their peers,  
2163 and other members of the health care team. (Outcome)  
2164

2165 VI.B.4.d) commitment to lifelong learning; (Outcome)  
2166

2167 VI.B.4.e) monitoring of their patient care performance improvement  
2168 indicators; and, (Outcome)  
2169

2170 VI.B.4.f) accurate reporting of clinical and educational work hours,  
2171 patient outcomes, and clinical experience data. (Outcome)  
2172

2173 VI.B.5. All residents and faculty members must demonstrate  
2174 responsiveness to patient needs that supersedes self-interest. This  
2175 includes the recognition that under certain circumstances, the best  
2176 interests of the patient may be served by transitioning that patient's  
2177 care to another qualified and rested provider. (Outcome)  
2178

2179 VI.B.6. Programs, in partnership with their Sponsoring Institutions, must  
2180 provide a professional, equitable, respectful, and civil environment  
2181 that is free from discrimination, sexual and other forms of  
2182 harassment, mistreatment, abuse, or coercion of students,  
2183 residents, faculty, and staff. (Core)  
2184

2185 VI.B.7. Programs, in partnership with their Sponsoring Institutions, should  
2186 have a process for education of residents and faculty regarding  
2187 unprofessional behavior and a confidential process for reporting,  
2188 investigating, and addressing such concerns. (Core)  
2189

2190 VI.C. Well-Being

2191  
2192 *Psychological, emotional, and physical well-being are critical in the*  
2193 *development of the competent, caring, and resilient physician and require*  
2194 *proactive attention to life inside and outside of medicine. Well-being*  
2195 *requires that physicians retain the joy in medicine while managing their*  
2196 *own real-life stresses. Self-care and responsibility to support other*  
2197 *members of the health care team are important components of*  
2198 *professionalism; they are also skills that must be modeled, learned, and*  
2199 *nurtured in the context of other aspects of residency training.*

2200  
2201 *Residents and faculty members are at risk for burnout and depression.*  
2202 *Programs, in partnership with their Sponsoring Institutions, have the same*  
2203 *responsibility to address well-being as other aspects of resident*  
2204 *competence. Physicians and all members of the health care team share*  
2205 *responsibility for the well-being of each other. For example, a culture which*  
2206 *encourages covering for colleagues after an illness without the expectation*  
2207 *of reciprocity reflects the ideal of professionalism. A positive culture in a*  
2208 *clinical learning environment models constructive behaviors, and prepares*  
2209 *residents with the skills and attitudes needed to thrive throughout their*  
2210 *careers.*  
2211

**Background and Intent: The ACGME is committed to addressing physician well-being for individuals and as it relates to the learning and working environment. The creation of a learning and working environment with a culture of respect and accountability for physician well-being is crucial to physicians' ability to deliver the safest, best possible care to patients. The ACGME is leveraging its resources in four key areas to support the ongoing focus on physician well-being: education, influence, research, and collaboration. Information regarding the ACGME's ongoing efforts in this area is available on the ACGME website.**

**As these efforts evolve, information will be shared with programs seeking to develop and/or strengthen their own well-being initiatives. In addition, there are many activities that programs can utilize now to assess and support physician well-being. These include culture of safety surveys, ensuring the availability of counseling services, and attention to the safety of the entire health care team.**

- 2212  
2213 **VI.C.1. The responsibility of the program, in partnership with the**  
2214 **Sponsoring Institution, to address well-being must include:**  
2215  
2216 **VI.C.1.a) efforts to enhance the meaning that each resident finds in the**  
2217 **experience of being a physician, including protecting time**  
2218 **with patients, minimizing non-physician obligations,**  
2219 **providing administrative support, promoting progressive**  
2220 **autonomy and flexibility, and enhancing professional**  
2221 **relationships; (Core)**  
2222  
2223 **VI.C.1.b) attention to scheduling, work intensity, and work**  
2224 **compression that impacts resident well-being; (Core)**  
2225  
2226 **VI.C.1.c) evaluating workplace safety data and addressing the safety of**  
2227 **residents and faculty members; (Core)**  
2228

**Background and Intent: This requirement emphasizes the responsibility shared by the Sponsoring Institution and its programs to gather information and utilize systems that monitor and enhance resident and faculty member safety, including physical safety. Issues to be addressed include, but are not limited to, monitoring of workplace injuries, physical or emotional violence, vehicle collisions, and emotional well-being after adverse events.**

2230 VI.C.1.d) policies and programs that encourage optimal resident and  
2231 faculty member well-being; and, <sup>(Core)</sup>  
2232

**Background and Intent: Well-being includes having time away from work to engage with family and friends, as well as to attend to personal needs and to one's own health, including adequate rest, healthy diet, and regular exercise.**

2233  
2234 VI.C.1.d).(1) Residents must be given the opportunity to attend  
2235 medical, mental health, and dental care appointments,  
2236 including those scheduled during their working hours.  
2237 <sup>(Core)</sup>  
2238

**Background and Intent: The intent of this requirement is to ensure that residents have the opportunity to access medical and dental care, including mental health care, at times that are appropriate to their individual circumstances. Residents must be provided with time away from the program as needed to access care, including appointments scheduled during their working hours.**

2239  
2240 VI.C.1.e) attention to resident and faculty member burnout,  
2241 depression, and substance use disorders. The program, in  
2242 partnership with its Sponsoring Institution, must educate  
2243 faculty members and residents in identification of the  
2244 symptoms of burnout, depression, and substance use  
2245 disorders, including means to assist those who experience  
2246 these conditions. Residents and faculty members must also  
2247 be educated to recognize those symptoms in themselves and  
2248 how to seek appropriate care. The program, in partnership  
2249 with its Sponsoring Institution, must: <sup>(Core)</sup>  
2250

**Background and Intent: Programs and Sponsoring Institutions are encouraged to review materials in order to create systems for identification of burnout, depression, and substance use disorders. Materials and more information are available on the Physician Well-being section of the ACGME website (<http://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being>).**

2251  
2252 VI.C.1.e).(1) encourage residents and faculty members to alert the  
2253 program director or other designated personnel or  
2254 programs when they are concerned that another  
2255 resident, fellow, or faculty member may be displaying  
2256 signs of burnout, depression, a substance use  
2257 disorder, suicidal ideation, or potential for violence;  
2258 <sup>(Core)</sup>  
2259

**Background and Intent: Individuals experiencing burnout, depression, a substance use disorder, and/or suicidal ideation are often reluctant to reach out for help due to the stigma associated with these conditions, and are concerned that seeking help may have a negative impact on their career. Recognizing that physicians are at increased risk in these areas, it is essential that residents and faculty members are able to report their concerns when another resident or faculty member displays signs of any of these conditions, so that the program director or other designated personnel, such as the**

department chair, may assess the situation and intervene as necessary to facilitate access to appropriate care. Residents and faculty members must know which personnel, in addition to the program director, have been designated with this responsibility; those personnel and the program director should be familiar with the institution's impaired physician policy and any employee health, employee assistance, and/or wellness programs within the institution. In cases of physician impairment, the program director or designated personnel should follow the policies of their institution for reporting

- 2260  
2261 VI.C.1.e).(2) provide access to appropriate tools for self-screening;  
2262 and, <sup>(Core)</sup>  
2263  
2264 VI.C.1.e).(3) provide access to confidential, affordable mental  
2265 health assessment, counseling, and treatment,  
2266 including access to urgent and emergent care 24  
2267 hours a day, seven days a week. <sup>(Core)</sup>  
2268

**Background and Intent:** The intent of this requirement is to ensure that residents have immediate access at all times to a mental health professional (psychiatrist, psychologist, Licensed Clinical Social Worker, Primary Mental Health Nurse Practitioner, or Licensed Professional Counselor) for urgent or emergent mental health issues. In-person, telemedicine, or telephonic means may be utilized to satisfy this requirement. Care in the Emergency Department may be necessary in some cases, but not as the primary or sole means to meet the requirement.

The reference to affordable counseling is intended to require that financial cost not be a barrier to obtaining care.

- 2269  
2270 VI.C.2. There are circumstances in which residents may be unable to attend  
2271 work, including but not limited to fatigue, illness, family  
2272 emergencies, and parental leave. Each program must allow an  
2273 appropriate length of absence for residents unable to perform their  
2274 patient care responsibilities. <sup>(Core)</sup>  
2275  
2276 VI.C.2.a) The program must have policies and procedures in place to  
2277 ensure coverage of patient care. <sup>(Core)</sup>  
2278  
2279 VI.C.2.b) These policies must be implemented without fear of negative  
2280 consequences for the resident who is or was unable to  
2281 provide the clinical work. <sup>(Core)</sup>  
2282

**Background and Intent:** Residents may need to extend their length of training depending on length of absence and specialty board eligibility requirements. Teammates should assist colleagues in need and equitably reintegrate them upon return.

- 2283  
2284 VI.D. Fatigue Mitigation  
2285  
2286 VI.D.1. Programs must:  
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- 2288 VI.D.1.a) educate all faculty members and residents to recognize the
- 2289 signs of fatigue and sleep deprivation; <sup>(Core)</sup>
- 2290
- 2291 VI.D.1.b) educate all faculty members and residents in alertness
- 2292 management and fatigue mitigation processes; and, <sup>(Core)</sup>
- 2293
- 2294 VI.D.1.c) encourage residents to use fatigue mitigation processes to
- 2295 manage the potential negative effects of fatigue on patient
- 2296 care and learning. <sup>(Detail)</sup>
- 2297

**Background and Intent: Providing medical care to patients is physically and mentally demanding. Night shifts, even for those who have had enough rest, cause fatigue. Experiencing fatigue in a supervised environment during training prepares residents for managing fatigue in practice. It is expected that programs adopt fatigue mitigation processes and ensure that there are no negative consequences and/or stigma for using fatigue mitigation strategies.**

**This requirement emphasizes the importance of adequate rest before and after clinical responsibilities. Strategies that may be used include, but are not limited to, strategic napping; the judicious use of caffeine; availability of other caregivers; time management to maximize sleep off-duty; learning to recognize the signs of fatigue, and self-monitoring performance and/or asking others to monitor performance; remaining active to promote alertness; maintaining a healthy diet; using relaxation techniques to fall asleep; maintaining a consistent sleep routine; exercising regularly; increasing sleep time before and after call; and ensuring sufficient sleep recovery periods.**

- 2298
- 2299 VI.D.2. Each program must ensure continuity of patient care, consistent
- 2300 with the program’s policies and procedures referenced in VI.C.2–
- 2301 VI.C.2.b), in the event that a resident may be unable to perform their
- 2302 patient care responsibilities due to excessive fatigue. <sup>(Core)</sup>
- 2303
- 2304 VI.D.3. The program, in partnership with its Sponsoring Institution, must
- 2305 ensure adequate sleep facilities and safe transportation options for
- 2306 residents who may be too fatigued to safely return home. <sup>(Core)</sup>
- 2307
- 2308 VI.E. Clinical Responsibilities, Teamwork, and Transitions of Care
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- 2310 VI.E.1. Clinical Responsibilities
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- 2312 The clinical responsibilities for each resident must be based on PGY
- 2313 level, patient safety, resident ability, severity and complexity of
- 2314 patient illness/condition, and available support services. <sup>(Core)</sup>
- 2315

**Background and Intent: The changing clinical care environment of medicine has meant that work compression due to high complexity has increased stress on residents. Faculty members and program directors need to make sure residents function in an environment that has safe patient care and a sense of resident well-being. Some Review Committees have addressed this by setting limits on patient admissions, and it is an essential responsibility of the program director to monitor resident workload. Workload**

should be distributed among the resident team and interdisciplinary teams to minimize work compression.

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- VI.E.2. Teamwork**
- Residents must care for patients in an environment that maximizes communication. This must include the opportunity to work as a member of effective interprofessional teams that are appropriate to the delivery of care in the specialty and larger health system. <sup>(Core)</sup>
- VI.E.3. Transitions of Care**
- VI.E.3.a)** Programs must design clinical assignments to optimize transitions in patient care, including their safety, frequency, and structure. <sup>(Core)</sup>
- VI.E.3.b)** Programs, in partnership with their Sponsoring Institutions, must ensure and monitor effective, structured hand-over processes to facilitate both continuity of care and patient safety. <sup>(Core)</sup>
- VI.E.3.c)** Programs must ensure that residents are competent in communicating with team members in the hand-over process. <sup>(Outcome)</sup>
- VI.E.3.d)** Programs and clinical sites must maintain and communicate schedules of attending physicians and residents currently responsible for care. <sup>(Core)</sup>
- VI.E.3.e)** Each program must ensure continuity of patient care, consistent with the program’s policies and procedures referenced in VI.C.2-VI.C.2.b), in the event that a resident may be unable to perform their patient care responsibilities due to excessive fatigue or illness, or family emergency. <sup>(Core)</sup>
- VI.F. Clinical Experience and Education**
- Programs, in partnership with their Sponsoring Institutions, must design an effective program structure that is configured to provide residents with educational and clinical experience opportunities, as well as reasonable opportunities for rest and personal activities.*

**Background and Intent:** In the new requirements, the terms “clinical experience and education,” “clinical and educational work,” and “clinical and educational work hours” replace the terms “duty hours,” “duty periods,” and “duty.” These changes have been made in response to concerns that the previous use of the term “duty” in reference to number of hours worked may have led some to conclude that residents’ duty to “clock out” on time superseded their duty to their patients.

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- VI.F.1. Maximum Hours of Clinical and Educational Work per Week**

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Clinical and educational work hours must be limited to no more than 80 hours per week, averaged over a four-week period, inclusive of all in-house clinical and educational activities, clinical work done from home, and all moonlighting. <sup>(Core)</sup>

**Background and Intent:** Programs and residents have a shared responsibility to ensure that the 80-hour maximum weekly limit is not exceeded. While the requirement has been written with the intent of allowing residents to remain beyond their scheduled work periods to care for a patient or participate in an educational activity, these additional hours must be accounted for in the allocated 80 hours when averaged over four weeks.

#### ***Scheduling***

While the ACGME acknowledges that, on rare occasions, a resident may work in excess of 80 hours in a given week, all programs and residents utilizing this flexibility will be required to adhere to the 80-hour maximum weekly limit when averaged over a four-week period. Programs that regularly schedule residents to work 80 hours per week and still permit residents to remain beyond their scheduled work period are likely to exceed the 80-hour maximum, which would not be in substantial compliance with the requirement. These programs should adjust schedules so that residents are scheduled to work fewer than 80 hours per week, which would allow residents to remain beyond their scheduled work period when needed without violating the 80-hour requirement. Programs may wish to consider using night float and/or making adjustments to the frequency of in-house call to ensure compliance with the 80-hour maximum weekly limit.

#### ***Oversight***

With increased flexibility introduced into the Requirements, programs permitting this flexibility will need to account for the potential for residents to remain beyond their assigned work periods when developing schedules, to avoid exceeding the 80-hour maximum weekly limit, averaged over four weeks. The ACGME Review Committees will strictly monitor and enforce compliance with the 80-hour requirement. Where violations of the 80-hour requirement are identified, programs will be subject to citation and at risk for an adverse accreditation action.

#### ***Work from Home***

While the requirement specifies that clinical work done from home must be counted toward the 80-hour maximum weekly limit, the expectation remains that scheduling be structured so that residents are able to complete most work on site during scheduled clinical work hours without requiring them to take work home. The new requirements acknowledge the changing landscape of medicine, including electronic health records, and the resulting increase in the amount of work residents choose to do from home. The requirement provides flexibility for residents to do this while ensuring that the time spent by residents completing clinical work from home is accomplished within the 80-hour weekly maximum. Types of work from home that must be counted include using an electronic health record and taking calls from home. Reading done in preparation for the following day's cases, studying, and research done from home do not count toward the 80 hours. Resident decisions to leave the hospital before their clinical work has been completed and to finish that work later from home should be made in consultation with the resident's supervisor. In such circumstances, residents should be mindful of their professional responsibility to complete work in a timely manner and to maintain patient confidentiality.

During the public comment period many individuals raised questions and concerns related to this change. Some questioned whether minute by minute tracking would be required; in other words, if a resident spends three minutes on a phone call and then a few hours later spends two minutes on another call, will the resident need to report that time. Others raised concerns related to the ability of programs and institutions to verify the accuracy of the information reported by residents. The new requirements are not an attempt to micromanage this process. Residents are to track the time they spend on clinical work from home and to report that time to the program. Decisions regarding whether to report infrequent phone calls of very short duration will be left to the individual resident. Programs will need to factor in time residents are spending on clinical work at home when schedules are developed to ensure that residents are not working in excess of 80 hours per week, averaged over four weeks. There is no requirement that programs assume responsibility for documenting this time. Rather, the program's responsibility is ensuring that residents report their time from home and that schedules are structured to ensure that residents are not working in excess of 80 hours per week, averaged over four weeks.

***PGY-1 and PGY-2 Residents***

PGY-1 and PGY-2 residents may not have the experience to make decisions about when it is appropriate to utilize flexibility or may feel pressured to use it when unnecessary. Programs are responsible for ensuring that residents are provided with manageable workloads that can be accomplished during scheduled work hours. This includes ensuring that a resident's assigned direct patient load is manageable, that residents have appropriate support from their clinical teams, and that residents are not overburdened with clerical work and/or other non-physician duties.

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- VI.F.2. Mandatory Time Free of Clinical Work and Education**
  - VI.F.2.a) The program must design an effective program structure that is configured to provide residents with educational opportunities, as well as reasonable opportunities for rest and personal well-being. <sup>(Core)</sup>**
  - VI.F.2.b) Residents should have eight hours off between scheduled clinical work and education periods. <sup>(Detail)</sup>**
  - VI.F.2.b).(1) There may be circumstances when residents choose to stay to care for their patients or return to the hospital with fewer than eight hours free of clinical experience and education. This must occur within the context of the 80-hour and the one-day-off-in-seven requirements. <sup>(Detail)</sup>**

**Background and Intent: While it is expected that resident schedules will be structured to ensure that residents are provided with a minimum of eight hours off between scheduled work periods, it is recognized that residents may choose to remain beyond their scheduled time, or return to the clinical site during this time-off period, to care for a patient. The requirement preserves the flexibility for residents to make those choices. It is also noted that the 80-hour weekly limit (averaged over four weeks) is a deterrent**

for scheduling fewer than eight hours off between clinical and education work periods, as it would be difficult for a program to design a schedule that provides fewer than eight hours off without violating the 80-hour rule.

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**VI.F.2.c) Residents must have at least 14 hours free of clinical work and education after 24 hours of in-house call. (Core)**

**Background and Intent: Residents have a responsibility to return to work rested, and thus are expected to use this time away from work to get adequate rest. In support of this goal, residents are encouraged to prioritize sleep over other discretionary activities.**

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**VI.F.2.d) Residents must be scheduled for a minimum of one day in seven free of clinical work and required education (when averaged over four weeks). At-home call cannot be assigned on these free days. (Core)**

**Background and Intent: The requirement provides flexibility for programs to distribute days off in a manner that meets program and resident needs. It is strongly recommended that residents' preference regarding how their days off are distributed be considered as schedules are developed. It is desirable that days off be distributed throughout the month, but some residents may prefer to group their days off to have a "golden weekend," meaning a consecutive Saturday and Sunday free from work. The requirement for one free day in seven should not be interpreted as precluding a golden weekend. Where feasible, schedules may be designed to provide residents with a weekend, or two consecutive days, free of work. The applicable Review Committee will evaluate the number of consecutive days of work and determine whether they meet educational objectives. Programs are encouraged to distribute days off in a fashion that optimizes resident well-being, and educational and personal goals. It is noted that a day off is defined in the ACGME Glossary of Terms as "one (1) continuous 24-hour period free from all administrative, clinical, and educational activities."**

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**VI.F.3. Maximum Clinical Work and Education Period Length**

**VI.F.3.a) Clinical and educational work periods for residents must not exceed 24 hours of continuous scheduled clinical assignments. (Core)**

**Background and Intent: The Task Force examined the question of "consecutive time on task." It examined the research supporting the current limit of 16 consecutive hours of time on task for PGY-1 residents; the range of often conflicting impacts of this requirement on patient safety, clinical care, and continuity of care by resident teams; and resident learning found in the literature. Finally, it heard a uniform request by the specialty societies, certifying boards, membership societies and organizations, and senior residents to repeal this requirement. It heard conflicting perspectives from resident unions, a medical student association, and a number of public advocacy groups, some arguing for continuation of the requirement, others arguing for extension of the requirement to all residents.**

**Of greatest concern to the Task Force were the observations of disruption of team care and patient care continuity brought about with residents beyond the PGY-1 level**

adhering to differing requirements. The graduate medical education community uniformly requested that the Task Force remove this requirement. The most frequently-cited reason for this request was the complete disruption of the team, separating the PGY-1 from supervisory faculty members and residents who were best able to judge the ability of the resident and customize the supervision of patient care for each PGY-1. Cited nearly as frequently was the separation of the PGY-1 from the team, delaying maturation of clinical skills, and threatening to create a “shift” mentality in disciplines where overnight availability to patients is essential in delivery of care.

The Task Force examined the impact of the request to consider 16-consecutive-hour limits for all residents, and rejected the proposition. It found that model incompatible with the actual practice of medicine and surgery in many specialties, excessively limiting in configuration of clinical services in many disciplines, and potentially disruptive of the inculcation of responsibility and professional commitment to altruism and placing the needs of patients above those of the physician.

After careful consideration of the information available, the testimony and position of all parties submitting information, and presentations to the Task Force, the Task Force removed the 16-hour-consecutive-time-on-task requirement for PGY-1 residents. It remains crucial that programs ensure that PGY-1 residents are supervised in compliance with the applicable Program Requirements, and that resident well-being is prioritized as described in Section VI.C. of these requirements.

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- VI.F.3.a).(1)** Up to four hours of additional time may be used for activities related to patient safety, such as providing effective transitions of care, and/or resident education. (Core)
- VI.F.3.a).(1).(a)** Additional patient care responsibilities must not be assigned to a resident during this time. (Core)

**Background and Intent:** The additional time referenced in VI.F.3.a).(1) should not be used for the care of new patients. It is essential that the resident continue to function as a member of the team in an environment where other members of the team can assess resident fatigue, and that supervision for post-call residents is provided. This 24 hours and up to an additional four hours must occur within the context of 80-hour weekly limit, averaged over four weeks.

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- VI.F.4. Clinical and Educational Work Hour Exceptions**
- VI.F.4.a)** In rare circumstances, after handing off all other responsibilities, a resident, on their own initiative, may elect to remain or return to the clinical site in the following circumstances:
- VI.F.4.a).(1)** to continue to provide care to a single severely ill or unstable patient; (Detail)
- VI.F.4.a).(2)** humanistic attention to the needs of a patient or family; or, (Detail)

- 2421  
2422 VI.F.4.a).(3) to attend unique educational events. (Detail)  
2423  
2424 VI.F.4.b) These additional hours of care or education will be counted  
2425 toward the 80-hour weekly limit. (Detail)  
2426

**Background and Intent:** This requirement is intended to provide residents with some control over their schedules by providing the flexibility to voluntarily remain beyond the scheduled responsibilities under the circumstances described above. It is important to note that a resident may remain to attend a conference, or return for a conference later in the day, only if the decision is made voluntarily. Residents must not be required to stay. Programs allowing residents to remain or return beyond the scheduled work and clinical education period must ensure that the decision to remain is initiated by the resident and that residents are not coerced. This additional time must be counted toward the 80-hour maximum weekly limit.

- 2427  
2428 VI.F.4.c) A Review Committee may grant rotation-specific exceptions  
2429 for up to 10 percent or a maximum of 88 clinical and  
2430 educational work hours to individual programs based on a  
2431 sound educational rationale.  
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2433 The Review Committee for Radiology will not consider requests  
2434 for exceptions to the 80-hour limit to the residents' work week.  
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2436 VI.F.5. Moonlighting

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2438 VI.F.5.a) Moonlighting must not interfere with the ability of the resident  
2439 to achieve the goals and objectives of the educational  
2440 program, and must not interfere with the resident's fitness for  
2441 work nor compromise patient safety. (Core)  
2442

- 2443 VI.F.5.b) Time spent by residents in internal and external moonlighting  
2444 (as defined in the ACGME Glossary of Terms) must be  
2445 counted toward the 80-hour maximum weekly limit. (Core)  
2446

- 2447 VI.F.5.c) PGY-1 residents are not permitted to moonlight. (Core)  
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**Background and Intent:** For additional clarification of the expectations related to moonlighting, please refer to the Common Program Requirement FAQs (available at <http://www.acgme.org/What-We-Do/Accreditation/Common-Program-Requirements>).

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2450 VI.F.6. In-House Night Float

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2452 Night float must occur within the context of the 80-hour and one-  
2453 day-off-in-seven requirements. (Core)  
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**Background and Intent:** The requirement for no more than six consecutive nights of night float was removed to provide programs with increased flexibility in scheduling.

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2456 VI.F.7. Maximum In-House On-Call Frequency

