ACGME Program Requirements for Graduate Medical Education in Interventional Radiology

ACGME-approved focused revision: September 27, 2020; effective July 1, 2021

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

Introduction		
Int.A.	Preamble	
Int.B.	Definition of Specialty	3
Int.C.	Length of Educational Program	4
I. Overs	sight	4
I.A.	Sponsoring Institution	4
I.B.	Participating Sites	5
I.C.	Recruitment	6
I.D.	Resources	6
I.E.	Other Learners and Other Care Providers	9
II. Perso	nnel	10
II.A.	Program Director	10
II.B.	Faculty	15
II.C.	Program Coordinator	21
II.D.	Other Program Personnel	22
III. Resid	ent Appointments	23
III.A.	Eligibility Requirements	23
III.B.	Number of Residents	26
III.C.	Resident Transfers	26
IV. Educa	ational Program	27
IV.A.	Curriculum Components	27
IV.B.	ACGME Competencies	28
IV.C.	Curriculum Organization and Resident Experiences	39
IV.D.	Scholarship	
V. Evalu	ation	53
V.A .	Resident Evaluation	53
V.B.	Faculty Evaluation	58
V.C.	Program Evaluation and Improvement	
VI. The L	earning and Working Environment	62
VI.A.	Patient Safety, Quality Improvement, Supervision, and Accountability	63
VI.B.	Professionalism	69
VI.C.	Well-Being	71
VI.D.	Fatigue Mitigation	
VI.E.	Clinical Responsibilities, Teamwork, and Transitions of Care	
VI.F.	Clinical Experience and Education	76

Contents

1 2 3		ACGME Program Requirements for Graduate Medical Education in Interventional Radiology			
4 5	Common Program Requirements (Residency) are in BOLD				
6 7 8 9		able, text in italics describes the underlying philosophy of the requirements in that e philosophic statements are not program requirements and are therefore not			
10 11	Introduction				
12 13 14 15 16 17	Int.A.	Graduate medical education is the crucial step of professional development between medical school and autonomous clinical practice. It is in this vital phase of the continuum of medical education that residents learn to provide optimal patient care under the supervision of faculty members who not only instruct, but serve as role models of excellence, compassion, professionalism, and scholarship.			
18 19 20 21 22 23 24		Graduate medical education transforms medical students into physician scholars who care for the patient, family, and a diverse community; create and integrate new knowledge into practice; and educate future generations of physicians to serve the public. Practice patterns established during graduate medical education persist many years later.			
24 25 26 27 28 29 30 31 32 33 34		Graduate medical education has as a core tenet the graded authority and responsibility for patient care. The care of patients is undertaken with appropriate faculty supervision and conditional independence, allowing residents to attain the knowledge, skills, attitudes, and empathy required for autonomous practice. Graduate medical education develops physicians who focus on excellence in delivery of safe, equitable, affordable, quality care; and the health of the populations they serve. Graduate medical education values the strength that a diverse group of physicians brings to medical care.			
35 36 37 38 39 40 41 42 43 44 45		Graduate medical education occurs in clinical settings that establish the foundation for practice-based and lifelong learning. The professional development of the physician, begun in medical school, continues through faculty modeling of the effacement of self-interest in a humanistic environment that emphasizes joy in curiosity, problem-solving, academic rigor, and discovery. This transformation is often physically, emotionally, and intellectually demanding and occurs in a variety of clinical learning environments committed to graduate medical education and the well-being of patients, residents, fellows, faculty members, students, and all members of the health care team.			
46 47	Int.B.	Definition of Specialty			
48 49 50 51		Interventional radiology focuses on diagnostic and therapeutic aspects of patient care through expertise in diagnostic imaging, image-guided, minimally invasive procedures, and the evaluation and clinical management of patients with conditions amenable to these methods. The residency program in interventional			

52 53 54 55 56 57 58 59 60			radiology offers quality medical educational experience in image-based diagnosis, as well as image-guided procedural education, and the peri- and post- procedural care of patients. Education in both the integrated and independent program formats includes resident development of mature technical skills and clinical judgment. On completion of the interventional radiology program, residents should be able to demonstrate competence in the specialty with sufficient expertise to act as independent providers of interventional procedures and care as consultants.
60 61 62	Int.C.		Length of Educational Program
63 64 65 66	Int.C.1		Education in interventional radiology must be provided in one of the following formats, and all residents must be notified in writing of the required program length: ^{(Core)*}
67 68 69	Int.C.1	.a)	Independent Format: The educational program in the independent format must be 24 months in length. ^(Core)
70 71 72	Int.C.1	.b)	Integrated Format: The educational program in the integrated format must be <u>either 60 months or 72 months in length</u> . ^(Core)
73 74 75	Int. C.	1.b).(1)	The 60-month program must be comprised of 60 months of radiology education. (Core)
76 77 78 79	Int. C.	1.b).(2)	The 72-month program must be comprised of 12 months of education in fundamental clinical skills of medicine followed by 60 months of radiology education. (Core)
80 81 82 83 84 85 86 87	Int.C.1	l.b).(2).((a) Integrated programs seeking to utilize the 72-month format must submit an educational justification for using this format to the Review Committee for approval prior to implementation. The educational effectiveness of this format will be subject to evaluation at each subsequent program accreditation review. ^(Core)
88 89 90	Int.C.2	2.	A Sponsoring Institution may sponsor both the integrated and independent program formats. ^{(Detail)†}
91 92	I.	Overs	ight
93 94	I.A.		Sponsoring Institution
95 96 97 98			The Sponsoring Institution is the organization or entity that assumes the ultimate financial and academic responsibility for a program of graduate medical education, consistent with the ACGME Institutional Requirements.
99 100 101 102			When the Sponsoring Institution is not a rotation site for the program, the most commonly utilized site of clinical activity for the program is the primary clinical site.

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. 103 104 I.A.1. The program must be sponsored by one ACGME-accredited Sponsoring Institution. (Core) 105 106 107 I.B. **Participating Sites** 108 109 A participating site is an organization providing educational experiences or 110 educational assignments/rotations for residents. 111 112 I.B.1. The program, with approval of its Sponsoring Institution, must designate a primary clinical site. (Core) 113 114 115 I.B.1.a) Interventional radiology education should occur in environments with other residents and/or fellows from other specialties at the 116 117 Sponsoring Institution and/or participating sites to facilitate the interchange of knowledge and experience among the residents. 118 (Core)(Detail) 119 120 121 I.B.2. There must be a program letter of agreement (PLA) between the 122 program and each participating site that governs the relationship 123 between the program and the participating site providing a required assignment. (Core) 124 125 126 I.B.2.a) The PLA must: 127 128 I.B.2.a).(1) be renewed at least every 10 years; and, (Core) 129 130 be approved by the designated institutional official I.B.2.a).(2) (DIO). (Core) 131 132 133 I.B.3. The program must monitor the clinical learning and working 134 environment at all participating sites. (Core) 135 136 I.B.3.a) At each participating site there must be one faculty member, designated by the program director as the site director, who 137 is accountable for resident education at that site, in 138 139 collaboration with the program director. (Core) 140 Background and Intent: While all residency programs must be sponsored by a single

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

comr of the	ution. Some of these sites may be remote for geographic, transportation, or nunication issues. When utilizing such sites the program must ensure the quality e educational experience. The requirements under I.B.3. are intended to ensure this will be the case.
	ested elements to be considered in PLAs will be found in the ACGME Program stor'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
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). ^(Core)
I.B.5.	Programs with multiple participating sites must ensure the provision of a cohesive educational experience. ^(Core)
I.B.6.	Each participating site must offer meaningful educational opportunities that enrich the overall program. ^(Core)
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. ^(Core)
progr mino the S inclu	ground and Intent: It is expected that the Sponsoring Institution has, and rams implement, policies and procedures related to recruitment and retention of rities underrepresented in medicine and medical leadership in accordance with ponsoring Institution's mission and aims. The program's annual evaluation must de an assessment of the program's efforts to recruit and retain a diverse force, as noted in V.C.1.c).(5).(c).
I.D.	Resources
I.D.1.	The program, in partnership with its Sponsoring Institution, must ensure the availability of adequate resources for resident education (Core)
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. ^(Core)

171 172 173 174	I.D.1.a).(1)	There should be adequate personal or shared office space, conference space, and access to computers. (Core)(Detail)
174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	I.D.1.a).(2)	Modern imaging equipment and procedure rooms must be available with adequate space to permit the performance of all radiologic and interventional radiologic procedures, including vascular and non-vascular invasive imaging and image-guided interventional radiological procedures broadly distributed over the domain of interventional radiology. ^(Core)
	I.D.1.a).(3)	Imaging modalities must include fluoroscopy, digital subtraction angiography, <u>computed tomography (</u> CT <u>)</u> , ultrasonography, <u>magnetic resonance imaging (</u> MRI <u>)</u> , and radionuclide scintigraphy. ^(Core)
	I.D.1.a).(3).(a)	Fluoroscopic and digital imaging equipment should be high resolution and have digital display with post-procedure image processing capability. (Core)(Detail)
	I.D.1.a).(4)	Rooms in which interventional procedures are performed must be equipped with physiologic monitoring and resuscitative equipment. ^(Core)
	I.D.1.a).(5)	There should be facilities for storing catheters, guide wires, contrast materials, embolic agents, and other supplies adjacent to or within procedure rooms. (Core)(Detail)
200 201 202	I.D.1.a).(6)	Patient recovery and holding areas must be available. (Core)
202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	I.D.1.a).(7)	There must be space and facilities for image display, image interpretation, and consultation with other clinicians.
	I.D.1.a).(8)	An interventional radiology clinic or outpatient office, separate from the procedure rooms, must be available for patient consultations and non-procedural follow-up visits. (Core)
	I.D.1.a).(8).(a)	This space should be conducive to patient privacy and conducting physical examinations. (Core)(Detail)
	I.D.1.b)	Support Services
	I.D.1.b).(1)	Pathology and medical laboratory services must be regularly and conveniently available to meet the needs of patients. ^(Core)

221 222 223 224 225 226 227 228 229 230 231 232 233 234	I.D.1.b).(1).(a)	Laboratory services must be available 24 hours a day. ^(Core)	
	l.D.1.b).(2)	Diagnostic laboratories for the non-invasive assessment of peripheral vascular disease must be available. ^(Core)	
	l.D.1.b).(3)	The sponsoring institution and program should provide laboratory and ancillary facilities to support research projects. (Core)(Detail)	
	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: ^(Core)	
235	I.D.2.a)	access to food while on duty; ^(Core)	
236 237 238 239 240	l.D.2.b)	safe, quiet, clean, and private sleep/rest facilities available and accessible for residents with proximity appropriate for safe patient care; ^(Core)	
241 242	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.		
242 243 244 245	I.D.2.c)	clean and private facilities for lactation that have refrigeration capabilities, with proximity appropriate for safe patient care; (Core)	
	may lactate and a proximity to clini within these loca such as a compu	Intent: Sites must provide private and clean locations where residents store the milk within a refrigerator. These locations should be in close cal responsibilities. It would be helpful to have additional support itions that may assist the resident with the continued care of patients, iter and a phone. While space is important, the time required for critical for the well-being of the resident and the resident's family, as .d).(1).	
246 247 248 249	l.D.2.d)	security and safety measures appropriate to the participating site; and, ^(Core)	
250 251	l.D.2.e)	accommodations for residents with disabilities consistent with the Sponsoring Institution's policy. ^(Core)	
252 253 254	I.D.3.	Residents must have ready access to specialty-specific and other appropriate reference material in print or electronic format. This	

255 256 257		must include access to electronic medical literature databases with full text capabilities. ^(Core)
258 259 260	I.D.4.	The program's educational and clinical resources must be adequate to support the number of residents appointed to the program. ^(Core)
261 262	I.D.4.a)	Patient Population
263 264 265 266 267 268 269	I.D.4.a).(1)	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 and interventional radiological examinations, procedures, interpretations, outpatient clinic visits, and inpatient consultations. ^(Core)
270 271 272 273 274 275	I.D.4.a).(1).(a)	For integrated programs, 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)
276 277 278 279	I.D.4.a).(2)	The patient population must provide a diversity of illnesses from which a broad experience in interventional radiology can be obtained. ^(Core)
280 281 282 283 284 285 286	I.D.4.a).(2).(a)	This must include patients with, arterial diseases, cancer, gastrointestinal diseases, gynecologic disorders, hepatobiliary diseases, endocrine diseases, musculoskeletal diseases, pulmonary diseases, venous diseases, and urologic disorders. (Core)
287 288 289 290 291	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)
291 292 293 294 295	I.E.1.	The program must report circumstances when the presence of other learners has interfered with the residents' education to the DIO and Graduate Medical Education Committee (GMEC). ^(Core)
	complex and fellows from learners enri the learning	and Intent: The clinical learning environment has become increasingly d often includes care providers, students, and post-graduate residents and multiple disciplines. The presence of these practitioners and their iches the learning environment. Programs have a responsibility to monitor environment to ensure that residents' education is not compromised by e of other providers and learners.
296		ecific Background and Intent: In providing oversight of the clinical resources

available to the residents, programs have a responsibility to ensure that the educational

	sence or diadho	ostic radiology residents.
II.	Personnel	
	D	norm Dimenter
II.A.	Prog	ram Director
II.A.1		There must be one faculty member appointed as program direct with authority and accountability for the overall program, includ compliance with all applicable program requirements. ^(Core)
II.A.1	.a)	The Sponsoring Institution's GMEC must approve a chan program director. ^(Core)
II.A.1	.b)	Final approval of the program director resides with the Review Committee. ^(Core)
nui des ind ind GM	merous indivions signated as pr lividual will ha lividual's resp IEC, and the A	Intent: While the ACGME recognizes the value of input from duals in the management of a residency, a single individual must b rogram director and made responsible for the program. This ave dedicated time for the leadership of the residency, and it is this ponsibility to communicate with the residents, faculty members, DI ACGME. The program director's nomination is reviewed and appro- nal approval of program directors resides with the Review Commit
II.A.1	.c)	The program must demonstrate retention of the program
		director for a length of time adequate to maintain continu of leadership and program stability. ^(Core)
cor pro end	ntinuity in the ogram director couraged to u	
cor pro end	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core)
cor pro end the	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. At a minimum, the program director must be provided with the salary support required to devote 20 percent FTE of non-clinical
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core) <u>Program directors who oversee both independent and integra</u>
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core) <u>Program directors who oversee both independent and integra</u> <u>interventional radiology programs at the same institution must</u>
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) I Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core) <u>Program directors who oversee both independent and integra</u> <u>interventional radiology programs at the same institution must</u> <u>provided protected time for administration of the independent</u>
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core) <u>Program directors who oversee both independent and integra</u> <u>interventional radiology programs at the same institution must</u> <u>provided protected time for administration of the independent</u> <u>program according to the following: ^(Core)</u>
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. (Core) Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. (Core) Program directors who oversee both independent and integratint interventional radiology programs at the same institution must provided protected time for administration of the independent program according to the following: (Core) Number of Approved Minimum Additional
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. ^(Core) Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. ^(Core) <u>Program directors who oversee both independent and integration interventional radiology programs at the same institution must provided protected time for administration of the independent program according to the following: ^(Core)</u>
cor pro end the II.A.2	ntinuity in the ogram director couraged to un ere is necessa	of leadership and program stability. (Core) Intent: The success of residency programs is generally enhanced program director position. The professional activities required of r are unique and complex and take time to master. All programs ar ndertake succession planning to facilitate program stability when ry turnover in the program director position. 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. (Core) Program directors who oversee both independent and integratint interventional radiology programs at the same institution must provided protected time for administration of the independent program according to the following: (Core) Number of Approved Minimum Additional

327 328 II.A.2.b)

329

330

331 332 In addition to the support requirements above, program directors of 72-month integrated programs must be provided additional support for the administration and oversight of the clinical year as follows: ^(Core)

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

333

334

	;
· · · · · · ·	
•	"Administrative time" is defined as non-clinical time spent meeting the responsibilities of the program director as detailed in requirements II.A.4II.A.4.a).(16). The requirement does not address the source of funding required to provide the specified salary support.

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

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

336		
337	II.A.3.a)	must include specialty expertise and at least three years of
338		documented educational and/or administrative experience, or
339		qualifications acceptable to the Review Committee; (Core)
340		

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.

341

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.

342

343 344 345 346 347 348	II.A.3.b)	must include current certification in the specialty for which they are the program director by the American Board of Radiology (ABR) or by the American Osteopathic Board of Radiology, or specialty qualifications that are acceptable to the Review Committee; ^(Core)
349 350 351 352 353 354	II.A.3.b).(1)	The program director must have certification by either the ABR or the American Osteopathic Board of Radiology (AOBR) in interventional radiology/diagnostic radiology, or in diagnostic radiology with subspecialty certification in vascular and interventional radiology. ^(Core)
355 356 357 358	II.A.3.b).(2)	The Review Committee accepts only ABMS and AOA certification as acceptable qualifications for program director certification. (Core)
359 360 361	II.A.3.c)	must include current medical licensure and appropriate medical staff appointment; ^(Core)
362 363	II.A.3.d)	must include ongoing clinical activity; and, (Core)
364	residents. The p specialty. This a	Intent: A program director is a role model for faculty members and rogram director must participate in clinical activity consistent with the ctivity will allow the program director to role model the Core or the faculty members and residents.
365 366 367 368 369	II.A.3.e)	must include demonstration of commitment of at least 80 percent of his or her clinical time in the specialty and to the administrative and educational activities of the interventional radiology program; (Core)
370	II.A.4.	Program Director Responsibilities
371 372 373 374 375 376 377 378 379		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. ^(Core)
	II.A.4.a)	The program director must:
380	II.A.4.a).(1)	be a role model of professionalism; ^(Core)
381	serve as a role role. As resider others, they mu utmost importa professionalisn	d Intent: The program director, as the leader of the program, must model to residents in addition to fulfilling the technical aspects of the its are expected to demonstrate compassion, integrity, and respect for list be able to look to the program director as an exemplar. It is of nce, therefore, that the program director model outstanding n, high quality patient care, educational excellence, and a scholarly ork. The program director creates an environment where respectful

	discussion is welcome, with the experience.	ne goal of continued improvement of the educational	
382 383 384 385 386 387	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; ^(Core)	
	education is to improve the hea vary based upon location and d determinants of health of the po	ssion of institutions participating in graduate medical alth of the public. Each community has health needs that lemographics. Programs must understand the social opulations they serve and incorporate them in the he program curriculum, with the ultimate goal of ealth disparities.	
388 389 390 391 392	II.A.4.a).(3)	administer and maintain a learning environment conducive to educating the residents in each of the ACGME Competency domains; ^(Core)	
	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.		
393			
394 395 396 397 398 399	II.A.4.a).(4)	develop and oversee a process to evaluate candidates prior to approval as program faculty members for participation in the residency program education and at least annually thereafter, as outlined in V.B.; ^(Core)	
400 401 402 403 404 405 406 407 408 409 410 411	II.A.4.a).(5)	have the authority to approve program faculty members for participation in the residency program education at all sites; ^(Core)	
	II.A.4.a).(6)	have the authority to remove program faculty members from participation in the residency program education at all sites; ^(Core)	
	II.A.4.a).(7)	have the authority to remove residents from supervising interactions and/or learning environments that do not meet the standards of the program; ^(Core)	

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.

110

II.A.4.a).(8)	submit accurate and complete information required and requested by the DIO, GMEC, and ACGME; ^(Core)
II.A.4.a).(9)	provide applicants who are offered an interview with information related to the applicant's eligibility for the relevant specialty board examination(s); ^(Core)
II.A.4.a).(10)	provide a learning and working environment in which residents have the opportunity to raise concerns and provide feedback in a confidential manner as appropriate, without fear of intimidation or retaliation; (Core)
II.A.4.a).(11)	ensure the program's compliance with the Sponsoring Institution's policies and procedures related to grievances and due process; ^(Core)
II.A.4.a).(12)	ensure the program's compliance with the Sponsoring Institution's policies and procedures for due process when action is taken to suspend or dismiss, not to promote, or not to renew the appointment of a resident; ^(Core)
Institution. It is expected Institution's policies and	A program does not operate independently of its Sponsoring d that the program director will be aware of the Sponsoring d procedures, and will ensure they are followed by the aculty members, support personnel, and residents.
II.A.4.a).(13)	ensure the program's compliance with the Sponsoring Institution's policies and procedures on employment and non-discrimination; ^(Core)
II.A.4.a).(13).(a)	Residents must not be required to sign a non- competition guarantee or restrictive covenant. (Core)
II.A.4.a).(14)	document verification of program completion for all graduating residents within 30 days; ^(Core)
II.A.4.a).(15)	provide verification of an individual resident's completion upon the resident's request, within 30 days; and, ^(Core)

451			
452	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.		
453 454 455 456 456 457 458 459	II.A.4.a).(16)	obtain review and approval of the Sponsoring Institution's DIO before submitting information or requests to the ACGME, as required in the Institutional Requirements and outlined in the ACGME Program Director's Guide to the Common Program Requirements. ^(Core)	
460	II.B.	Faculty	
460 II.B. Fa 461 462 Fa 462 Fa 463 463 464 ma 465 ba ba 65 466 ca 467 da 468 pa ma 470 da 470 da da 471 th 472 ca 473 in 474 475 Fa 476 fr 477 th 478 pi 479 ma 480 pi		Faculty members are a foundational element of graduate medical education - faculty members teach residents how to care for patients. Faculty members provide an important bridge allowing residents to grow and become practice-ready, ensuring that patients receive the highest quality of care. They are role models for future generations of physicians by demonstrating compassion, commitment to excellence in teaching and batient care, professionalism, and a dedication to lifelong learning. Faculty members experience the pride and joy of fostering the growth and development of future colleagues. The care they provide is enhanced by the opportunity to teach. By employing a scholarly approach to patient care, faculty members, through the graduate medical education system, mprove the health of the individual and the population. Faculty members ensure that patients receive the level of care expected from a specialist in the field. They recognize and respond to the needs of the patients, residents, community, and institution. Faculty members provide appropriate levels of supervision to promote patient safety. Faculty members create an effective learning environment by acting in a professional manner and attending to the well-being of the residents and hemselves.	
402	educating	nd and Intent: "Faculty" refers to the entire teaching force responsible for residents. The term "faculty," including "core faculty," does not imply or academic appointment or salary support.	
483 484 485 486 487	II.B.1.	At each participating site, there must be a sufficient number of faculty members with competence to instruct and supervise all residents at that location. ^(Core)	
487 488 489 490	II.B.1.a)	There must be a minimum of one physician faculty member for every resident in the program. ^(Core)	
490 491 492	II.B.1.b)	The faculty must include, in aggregate, at least two FTE interventional radiologists, including the program director. ^(Core)	

493 494 495 496 497 498 499 500 501 502 503 504 505 506	II.B.1.b).(1) While the expertise of any one interventional radiology faculty member may be limited to a particular aspect of interventional radiology, the program must ensure that appropriately qualified faculty members are available to provide an experience that includes all aspects of interventional radiology. ^(Core)		
	II.B.1.b).(2)	Integrated programs with greater than four residents must maintain a ratio of no less than one interventional radiologist <u>faculty member</u> for every two residents in the final 24 months of residency <u>according to the following:</u> (Core)	
		Total Number of PGY-5-6Minimum Number ofIntegrated ResidentsInterventional Radiologists	
		integrated residents	
		5 residents 3	
		<u>6 residents</u> <u>3</u>	
		<u>7 residents</u> <u>4</u>	
		<u>8 residents</u> <u>4</u>	
		<u>9 residents</u> <u>5</u>	
507		<u>10 residents</u> <u>5</u>	
507 508 509 510 511 512 513 514 515 516 517	II.B.1.b).(3)	Independent programs with greater than four residents must maintain a ratio of no less than one interventional radiologist for every two residents. ^(Core)	
	II.B.1.c)	Integrated Programs	
	II.B.1.c).(1)	In addition to the practice domains, there should be designated physician faculty members with expertise in and responsibility for developing didactic content in the following educational content areas:	
518 519 520	II.B.1.c).(1).(a)	computed tomography (CT) ; ^{(Core)(Detail)}	
521 522	II.B.1.c).(1).(b)	magnetic resonance imaging (MRI); (Core)(Detail)	
523 524 525 526 527 528 529 530	II.B.1.c).(1).(c)	radiography/fluoroscopy; <u>and,</u> (Core)(Detail)	
	II.B.1.c).(1).(d)	reproductive/endocrine imaging; ^(Detail)	
	II.B.1.c).(1).(e)	ultrasonography <u>.; and,</u> (Core)(Detail)	
	<mark>Ⅱ.B.1.c).(1).(f)</mark>	vascular imaging. (Detail)	
000	Specialty-Specific P	ackground and Intent: Programs do not need to have additional faculty	
		the didactic content for the educational content areas of CT, MRI,	
		copy, and ultrasonography. Any of the required eight core faculty	

Interventional Radiology Tracked Changes Copy ©2021 Accreditation Council for Graduate Medical Education (ACGME)

	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.		
531 532 533 534 535	II.B.1.c).(2)	There should be physician faculty, non-physician faculty, or other staff members available to the program, within the institution, with expertise in quality, safety, and informatics. (Core)(Detail)	
536 537 538 539 540	II.B.1.c).(2).(a)	These faculty or staff members should develop didactic content related to their areas of expertise.	
	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.		
541 542 543 544 545	II.B.1.c).(3)	Faculty members for all other educational experiences should be active teaching faculty members in ACGME-accredited programs. (Core)(Detail)	
546 547 548	II.B.1.c).(4)	An assistant or associate program director that is clinically active in diagnostic radiology should be appointed. ^(Detail)	
548 549 550	II.B.2.	Faculty members must:	
551 552	II.B.2.a)	be role models of professionalism; ^(Core)	
553 554 555	II.B.2.b)	demonstrate commitment to the delivery of safe, quality, cost-effective, patient-centered care; ^(Core)	
	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.		
556 557 558	II.B.2.c)	demonstrate a strong interest in the education of residents; ^(Core)	
559 560 561 562	II.B.2.d)	devote sufficient time to the educational program to fulfill their supervisory and teaching responsibilities; ^(Core)	
562 563 564	II.B.2.e)	administer and maintain an educational environment conducive to educating residents; ^(Core)	

565 566	II.B.2.f)	regularly participate in organized clinical discussions,	
567 568		rounds, journal clubs, and conferences; and, ^(Core)	
569 570 571	II.B.2.g)	pursue faculty development designed to enhance their skills at least annually: ^(Core)	
	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.		
572 573	II.B.2.g).(1)	as educators; ^(Core)	
574 575 576	II.B.2.g).(2)	in quality improvement and patient safety; ^(Core)	
577 578 579	II.B.2.g).(3)	in fostering their own and their residents' well-being; and, ^(Core)	
579 580 581 582	II.B.2.g).(4)	in patient care based on their practice-based learning and improvement efforts. ^(Core)	
	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.		
583 584 585	II.B.2.h)	At least one interventional radiology faculty member must have hospital admitting privileges. ^(Core)	
586 587 588 589 590	II.B.2.i)	For programs not affiliated with a medical school, all physician faculty members should be members of the medical staff of at least one of the participating sites. (Core)(Detail)	
591 592 593	II.B.2.j)	Faculty members must always be available when residents are on call after hours, on weekends, or on holidays. ^(Core)	
594 595	II.B.2.k)	Faculty members must review all resident-interpreted studies. (Core)	
596 597 598	II.B.2.k).(1)	Faculty members should sign and verify these reports within 24 hours. ^(Detail)	
599 600 601 602	II.B.2.I)	Faculty members must provide didactic teaching and direct supervision of resident performance in peri-procedural patient management, and of the procedural, interpretative, and consultative aspects of interventional radiology. ^(Core)	

603		
604 605 606	II.B.2.m)	Faculty members must supervise all percutaneous image-guided invasive procedures. ^(Core)
607 608 609 610	II.B.2.m).(1)	Faculty members should determine the appropriate level of direct or indirect supervision for all procedures based on demonstrated resident competence. (Core)(Detail)
611 612 613	II.B.2.n)	The interventional radiology division must participate in dedicated interventional radiology outpatient clinics. ^(Core)
614 615 616 617 618	II.B.2.o)	Faculty members representing each practice domain must be responsible for the educational content of his/her respective practice domain, and must organize conferences that cover topics in that domain. ^(Core)
619 620 621 622 623	II.B.2.p)	Faculty members representing each practice domain must not have primary responsibility for the educational content of more than one practice domain, but may have clinical responsibilities and/or teaching responsibilities in multiple practice domains. ^(Core)
624 625 626	II.B.2.q)	Faculty members representing each practice domain must devote at least 0.50 FTE in their practice domain. ^(Core)
627 628 629 630 631	II.B.2.r)	Faculty members responsible for the educational content of his/her their respective practice domain must demonstrate a commitment to the his or her respective practice domain by any two of the following:
632 633 634 635	II.B.2.r).(1)	specialty/subspecialty certification in the practice domain, fellowship training education , or three years of practice in the domain; (<u>Core)</u> (Detail)
636 637 638	II.B.2.r).(2)	active participation in specialty/subspecialty societies, including CME activities in the practice domain; (<u>Core)</u> (Detail)
639 640 641	II.B.2.r).(3)	publications or presentations in the specialty/subspecialty practice domain; or, ^{(Core)(Detail)}
642 643 644	II.B.2.r).(4)	participation in Maintenance of Certification with emphasis on the specialty/subspecialty practice domain. (Core)(Detail)
645 646	II.B.3.	Faculty Qualifications
647 648 649 650	II.B.3.a)	Faculty members must have appropriate qualifications in their field and hold appropriate institutional appointments.
651 652 653	II.B.3.a).(1)	At least two FTE interventional radiology physician faculty members, including the program director, must have certification by the ABR or the AOBR in interventional

654 655 656		radiology/diagnostic radiology, or in diagnostic radiology with subspecialty certification in vascular and interventional radiology. ^(Core)
657 658 659 660 661 662 663 664 665 666 665 666 667 668 669 670 671	II.B.3.b)	Physician faculty members must:
	II.B.3.b).(1)	have current certification in the specialty by the American Board of Radiology or the American Osteopathic Board of Radiology, or possess qualifications judged acceptable to the Review Committee. ^(Core)
	II.B.3.b).(2)	Other faculty qualifications acceptable to the Review Committee include certification by other American Board of Medical Specialties (ABMS) member boards, the AOBR, or other American Osteopathic Association (AOA) certifying boards. ^(Core)
672 673 674 675	II.B.3.c)	Any non-physician faculty members who participate in residency program education must be approved by the program director. ^(Core)
070	approach. The education resident to better mana residents' knowledge. F the resident in the basic program director deterr significant to the educa	The provision of optimal and safe patient care requires a team on of residents by non-physician educators enables the ge patient care and provides valuable advancement of the Furthermore, other individuals contribute to the education of c science of the specialty or in research methodology. If the nines that the contribution of a non-physician individual is tion of the residents, the program director may designate the faculty member or a program core faculty member.
676 677 678	II.B.4. Core	Faculty
678 679 680 681 682 683 683	and s of the must	faculty members must have a significant role in the education supervision of residents and must devote a significant portion eir entire effort to resident education and/or administration, and as a component of their activities, teach, evaluate, and ide 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.	
685 686 687	II.B.4.a)	Core faculty members must be designated by the program director. ^(Core)
688 689 690	II.B.4.b)	Core faculty members must complete the annual ACGME Faculty Survey. ^(Core)

691		
692	II.B.4.c)	Integrated Programs
693		
694	II.B.4.c).(1)	There must be at least eight core physician faculty
695		members to represent each of the following practice
696		domains: (Core)
697		
698	II.B.4.c).(1).(a)	abdominal (gastrointestinal and genitourinary)
699		radiology; ^(Core)
700		
701	II.B.4.c).(1).(b)	breast radiology; ^(Core)
702	11.0.4.0).(1).(0)	broadt radiology,
702	II.B.4.c).(1).(c)	cardiothoracic (cardiac and thoracic) radiology; ^(Core)
704	II.D.4.0).(1).(0)	cardiac (cardiac and inoracic) radiology,
		interventional radialary (Core)
705	II.B.4.c).(1).(d)	interventional radiology; ^(Core)
706		
707	II.B.4.c).(1).(e)	musculoskeletal radiology; ^(Core)
708		(Care)
709	II.B.4.c).(1).(f)	neuroradiology; ^(Core)
710		
711	II.B.4.c).(1).(g)	nuclear radiology and molecular imaging; and, ^(Core)
712		
713		
714		
		c Background and Intent: A pediatric radiologist may have a primary
	appointment at	nother site and still be the designated faculty member supervising pediatric
	radiologic educ	ion for the program.
715		
716	II.C. F	ogram Coordinator
717		
718	II.C.1.	There must be a program coordinator. ^(Core)
719		
720	II.C.2.	At a minimum, the program coordinator must be supported at 50
721		percent FTE for the administration of the program. (Core)
722		
723	II.C.2.a)	Additional support must be provided based on program size as
724	,	follows for integrated programs: (Core)
725		
		Number of Approved Resident Minimum
		Positions FTE Coordinator(s) Required
		1-10 0.5
		11-15 0.6
		16-20 0.8
		<u>More than 20</u> 1.0
726		
		Drogrom apprdingtors who are responsible for the administration
727	II.C.2.b)	Program coordinators who are responsible for the administration
728		of both independent and integrated interventional radiology
729 730		
/ 5/1		
731		<u>20 percent FTE protected time for administration of the independent program. (Core)</u>

732				
733 734 725	II.C.2.c)	For integrated programs, there must be additional support as follows: ^(Core)		
735 736 737 738 739 740	II.C.2.c).(1)	Programs approved for 11-15 residents must have at least 0.6 FTE program coordinator support. ^(Core)		
	II.C.2.c).(2)	Programs approved for 16-20 residents must have at least 0.8 FTE program coordinator support. ^(Core)		
741 742 743 744	II.C.2.c).(3)	Programs approved for more than 20 residents must have at least 1.0 FTE program coordinator support. ^(Core)		
744	Backgroun week.	nd and Intent: Fifty percent FTE is defined as two-and-a-half (2.5) days per		
		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.			
	success of leadership unique kno procedures	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.			
745 746 747	II.D.	Other Program Personnel		
747 748 749 750 751 752 753 754 755 756 757		The program, in partnership with its Sponsoring Institution, must jointly ensure the availability of necessary personnel for the effective administration of the program. ^(Core)		
	II.D.1.	At least one qualified interventional radiology technologist must be on duty or available at all times. ^(Core)		
	II.D.2.	Nursing support adequate to prepare, monitor, and recover patients must be available. ^(Core)		

758 759 760	II.D.2.	a) Nurses competent to administer moderate sedation must also be available. ^(Core)		
Bac pro edu pro		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.		
762 763	III.	Resident Appointments		
764 765	III.A.	Eligibility Requirements		
766 767 768	III.A.1	An applicant must meet one of the following qualifications to be eligible for appointment to an ACGME-accredited program: ^(Core)		
769 770 771 772 773 774 775	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, ^(Core)		
776 III.A.1.b) graduation from a medical school outs		States or Canada, and meeting one of the following additional		
780 781 782 783	III.A.1	b).(1) holding a currently valid certificate from the Educational Commission for Foreign Medical Graduates (ECFMG) prior to appointment; or, ^(Core)		
784 785 786 787	III.A.1	b).(2) holding a full and unrestricted license to practice medicine in the United States licensing jurisdiction in which the ACGME-accredited program is located. ^(Core)		
788 789 790 791 792 793 794 795 796	III.A.2	All prerequisite post-graduate clinical education required for initial entry or transfer into ACGME-accredited residency programs must be completed in ACGME-accredited residency programs, AOA- approved residency programs, Royal College of Physicians and Surgeons of Canada (RCPSC)-accredited or College of Family Physicians of Canada (CFPC)-accredited residency programs located in Canada, or in residency programs with ACGME International (ACGME-I) Advanced Specialty Accreditation. ^(Core)		
797 798 799 800 801	III.A.2	a) Residency programs must receive verification of each resident's level of competency in the required clinical field using ACGME, CanMEDS, or ACGME-I Milestones evaluations from the prior training program upon matriculation. ^(Core)		
802 803	2 III.A.2.b) Prerequisite Postgraduate Clinical Education			

804 805	III.A.2.b).(1)	Independent Programs
806 807 808 809 810	III.A.2.b).(1).(a)	Prior to appointment in the independent program, residents must complete a diagnostic radiology program that satisfies the requirements in III.A.2. (Core)
811 812 813 814 815	III.A.2.b).(1).(b)	All entering residents must be eligible to take the ABR Core Examination or the AOBR Diagnostic Radiology Combined Physics and Diagnostic Imaging Written Exam. ^(Core)
816 817 818 819 820 821 822 823	III.A.2.b).(1).(c)	To be eligible for appointment in the second year of education in an independent program, residents must have completed an Early Specialization in Interventional Radiology (ESIR) curriculum in a diagnostic radiology program that has prior approval from the Review Committee for ESIR participation. ^(Core)
824 825 826 827 828 829 830 831 832 833	III.A.2.b).(1).(c).(i)	Residents must have completed 11 interventional radiology or interventional radiology-related rotations, one ICU rotation, and at least 500 image-guided procedures within the domain of interventional radiology during their diagnostic radiology residency (a rotation is defined as an experience of at least four weeks in duration). ^(Core)
834 835 836 837 838	III.A.2.b).(1).(c).(ii)	A Milestones assessment of resident competenc <u>ey</u> must be completed by the program director after the first 12 weeks of the educational program. ^(Core)
839 840	III.A.2.b).(2)	Integrated Programs
841 842 843 844 845 846 845 846 847 848 849 850	III.A.2.b).(2).(a)	To be eligible for appointment to the <u>60-month</u> integrated program, residents must have successfully completed a prerequisite year of direct patient care in a program that satisfies the requirements in III.A.2. <u>in anesthesiology</u> , <u>emergency medicine</u> , family medicine, internal <u>medicine</u> , neurology, obstetrics and gynecology, <u>pediatrics</u> , surgery or surgical specialties, the transitional year, or any combination of these. ^(Core)
851 852 853 854	III.A.2.b).(2).(a).(i)	The prerequisite year must include a minimum of 36 weeks in direct patient care. (Core)

855 856 857 858 859 860 861 862 863 864	III.A.2.b).(2).(a).(ii)	During the prerequisite year, elective rotations in interventional radiology, or diagnostic radiology, <u>or nuclear medicine</u> must occur only in radiology departments with a diagnostic radiology, or interventional radiology, <u>or nuclear medicine</u> residency program that satisfies the requirements in III.A.2., and must not exceed a combined total of eight weeks. ^(Core)	
865 866 867 868 869	III.A.2.b).(2).(a).(ii).(a) <u>The elective rotations in radiology</u> <u>should involve active resident</u> <u>participation and must not be</u> <u>observational only. ^(Detail)</u>	
869 870 871 872 873	III.A.2.b).(2).(a).(ii).(b) <u>The elective rotations in radiology</u> should be supervised by a radiology program faculty member. ^(Detail)	
874	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 wheth the elective experience will count toward the resident's required 12 months of diagnostic radiology experience for call responsibilities or interpreting exams without direct supervisi achieved ACGME-I accreditation do not qualify unless the program has also achieved ACGME-I Advanced Specialty Accreditation. To ensure entrants into ACG accredited programs from ACGME-I programs have attained the prerequisite milestones for this training, they must be from programs that have ACGME-I Advan Specialty Accreditation.		
875 876 877 878 879 880 881 882 883 884 885 886 885 886 887 888 889 890 891 892	III.A.3.	A physician who has completed a residency program that was not accredited by ACGME, AOA, RCPSC, CFPC, or ACGME-I (with Advanced Specialty Accreditation) may enter an ACGME-accredited residency program in the same specialty at the PGY-1 level and, at the discretion of the program director of the ACGME-accredited program and with approval by the GMEC, may be advanced to the PGY-2 level based on ACGME Milestones evaluations at the ACGME- accredited program. This provision applies only to entry into residency in those specialties for which an initial clinical year is not required for entry. ^(Core)	
	III.A.4.	Resident Eligibility Exception The Review Committee for Radiology will allow the following exception to the resident eligibility requirements (for residents entering the program via III.A.2.b).(1): ^(Core)	

893			
	Specialty-Specific Background and Intent: The Review Committee will allow the eligibility		
004	exception for interventional radiology-independent programs only.		
894 895 896 897 898 899 900	III.A.4.a)	An ACGME-accredited residency program may accept an exceptionally qualified international graduate applicant who does not satisfy the eligibility requirements listed in III.A.1 III.A.3., but who does meet all of the following additional qualifications and conditions: ^(Core)	
901 902 903 904 905	III.A.4.a).(1)	evaluation by the program director and residency selection committee of the applicant's suitability to enter the program, based on prior training and review of the summative evaluations of this training; and, ^(Core)	
906 907 908	III.A.4.a).(2)	review and approval of the applicant's exceptional qualifications by the GMEC; and, ^(Core)	
909 910 911	III.A.4.a).(3)	verification of Educational Commission for Foreign Medical Graduates (ECFMG) certification. ^(Core)	
912 913 914 915	III.A.4.b)	Applicants accepted through this exception must have an evaluation of their performance by the Clinical Competency Committee within 12 weeks of matriculation. ^(Core)	
916 917 918	III.B.	The program director must not appoint more residents than approved by the Review Committee. ^(Core)	
919 920	III.B.1.	All complement increases must be approved by the Review Committee. ^(Core)	
921 922 923	III.C.	Resident Transfers	
924 925 926 927 928		The program must obtain verification of previous educational experiences and a summative competency-based performance evaluation prior to acceptance of a transferring resident, and Milestones evaluations upon matriculation. ^(Core)	
929 930	III.C.1.	Integrated Programs	
931 932 933 934 935	III.C.1.a)	The program director must conduct a Milestones assessment of a resident's clinical competence in both interventional and diagnostic radiology within 12 weeks of transfer into the program. (Core)	
936 937 938 939 940	III.C.1.b)	Resident transfers from ACGME-accredited diagnostic radiology programs into integrated interventional radiology programs must be limited to transfers from within the same Sponsoring Institution and must meet the following qualifications for transfer: ^(Core)	

11 III.C.1 12 13	l.b).(1)	Transfers into the PGY-3 or PGY-4 must be from the equivalent level in the diagnostic radiology program. ^(Core)
14 III.C.1 15 16 17 18 19	l.b).(2)	Residents transferring into the PGY-5 must have taken or be eligible to take the ABR Core Examination or the AOBR Diagnostic Radiology Combined Physics and Diagnostic Imaging Written Exam, and must have successfully completed at least three rotations in interventional radiology. ^(Core)
50 51 IV. 52	Educational Progra	ım
53 54 55 56	innovation in gradu	ditation system is designed to encourage excellence and late medical education regardless of the organizational location of the program.
57 58		ogram must support the development of knowledgeable, skillful ovide compassionate care.
59 50 51 52 53 54 55 56 57 58 59 70 71 IV.A. 72 73 IV.A. 73 74 75	with the overall mis it serves and that it physicians it intend compliance with th recognized that wit research, leadersh reflect the nuanced is expected that a p different curriculur The curricul 1. a set miss	gram is expected to define its specific program aims consistent asion of its Sponsoring Institution, the needs of the community its graduates will serve, and the distinctive capabilities of ds to graduate. While programs must demonstrate substantial e Common and specialty-specific Program Requirements, it is thin this framework, programs may place different emphasis on ip, public health, etc. It is expected that the program aims will I program-specific goals for it and its graduates; for example, it program aiming to prepare physician-scientists will have a in from one focusing on community health. um must contain the following educational components: ^(Core) of program aims consistent with the Sponsoring Institution's ion, the needs of the community it serves, and the desired active capabilities of its graduates; ^(Core)
76 77 IV.A. 1 78	1.a)	The program's aims must be made available to program applicants, residents, and faculty members. ^(Core)
79 80 IV.A.2 81 82 83 84	expe	petency-based goals and objectives for each educational rience designed to promote progress on a trajectory to nomous practice. These must be distributed, reviewed, and able to residents and faculty members; ^(Core)
Bac Mile ski allo ano cur	estones evaluation. T Il in each competenc ow evaluation based d should be used to i	The trajectory to autonomous practice is documented by The Milestones detail the progress of a resident in attaining y domain. They are developed by each specialty group and on observable behaviors. Milestones are considered formative dentify learning needs. This may lead to focused or general y given program or to individualized learning plans for any

35 36 IV.A.3. 37 38	delineation of resident responsibilities for patient care, progressive responsibility for patient management, and graded supervision; ^(Core)
Backgro level an Compet based e indepen task ma	bund and Intent: These responsibilities may generally be described by PGY d specifically by Milestones progress as determined by the Clinical ency Committee. This approach encourages the transition to competency- ducation. An advanced learner may be granted more responsibility dent of PGY level and a learner needing more time to accomplish a certain y do so in a focused rather than global manner.
89 00 IV.A.4. 01	a broad range of structured didactic activities; (Core)
2 IV.A.4.a)	Residents must be provided with protected time to participate in core didactic activities. ^(Core)
didactic not pos protecte didactic confere discuss	bund and Intent: It is intended that residents will participate in structured activities. It is recognized that there may be circumstances in which this is sible. Programs should define core didactic activities for which time is ed and the circumstances in which residents may be excused from these activities. Didactic activities may include, but are not limited to, lectures, nces, courses, labs, asynchronous learning, simulations, drills, case ions, grand rounds, didactic teaching, and education in critical appraisal of evidence.
5 IV.A.5. 7 3	advancement of residents' knowledge of ethical principles foundational to medical professionalism; and, ^(Core)
9 IV.A.6. 0 1 2	advancement in the residents' knowledge of the basic principles of scientific inquiry, including how research is designed, conducted, evaluated, explained to patients, and applied to patient care. ^(Core)
IV.B.	ACGME Competencies
describi practice specific	ound and Intent: The Competencies provide a conceptual framework ng the required domains for a trusted physician to enter autonomous . These Competencies are core to the practice of all physicians, although the s are further defined by each specialty. The developmental trajectories in each ompetencies are articulated through the Milestones for each specialty.
6 IV.B.1.	The program must integrate the following ACGME Competencies into the curriculum: ^(Core)
3 9 IV.B.1.a))	Professionalism
2 3	Residents must demonstrate a commitment to professionalism and an adherence to ethical principles. ^(Core)
IV.B.1.a).(1) Residents must demonstrate competence in:

1016 1017 1018	IV.B.1.a).(1).(a)	compassion, integrity, and respect for others; (Core)
1010 1019 1020 1021	IV.B.1.a).(1).(b)	responsiveness to patient needs that supersedes self-interest; ^(Core)
	circumstances, the interests o another provider. Examples in	ncludes the recognition that under certain f the patient may be best served by transitioning care to clude fatigue, conflict or duality of interest, not or when another physician would be better for the knowledge base.
1022 1023 1024	IV.B.1.a).(1).(c)	respect for patient privacy and autonomy; ^(Core)
1024 1025 1026 1027	IV.B.1.a).(1).(d)	accountability to patients, society, and the profession; ^(Core)
1027 1028 1029 1030 1031 1032 1033	IV.B.1.a).(1).(e)	respect and responsiveness to diverse patient populations, including but not limited to diversity in gender, age, culture, race, religion, disabilities, national origin, socioeconomic status, and sexual orientation; ^(Core)
1033 1034 1035 1036 1037	IV.B.1.a).(1).(f)	ability to recognize and develop a plan for one's own personal and professional well-being; and, (Core)
1038 1039	IV.B.1.a).(1).(g)	appropriately disclosing and addressing conflict or duality of interest. ^(Core)
1040 1041 1042	IV.B.1.b) Patie	nt Care and Procedural Skills
	centered, equitable, and desig capita costs. (See the Institute New Health System for the 21s The Triple Aim: care, cost, and addition, there should be a foc	y patient care is safe, effective, timely, efficient, patient- ned to improve population health, while reducing per of Medicine [IOM]'s <i>Crossing the Quality Chasm: A</i> <i>et Century</i> , 2001 and Berwick D, Nolan T, Whittington J. <i>I quality. Health Affairs.</i> 2008; 27(3):759-769.). In us on improving the clinician's well-being as a means duce burnout among residents, fellows, and practicing
	Competency domains. Specifie	form the Common Program Requirements across all c content is determined by the Review Committees with fessional societies, certifying boards, and the
1043 1044 1045 1046 1047 1048	IV.B.1.b).(1)	Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. ^(Core)

1049 1050	IV.B.1.b).(1).(a)	Residents must competently perform the following under close, graded responsibility and supervision:
1051 1052 1053 1054 1055 1056	IV.B.1.b).(1).(a).(i)	provide patient care through safe, efficient, appropriately utilized, quality-controlled diagnostic and/or interventional radiological techniques; ^(Core)
1057 1058 1059 1060	IV.B.1.b).(1).(a).(ii)	practice using standards of care in a safe environment, attempt to reduce errors, and improve patient outcomes; ^(Core)
1061 1062 1063	IV.B.1.b).(1).(a).(iii)	take a patient history and perform an appropriate physical exam; ^(Core)
1063 1064 1065 1066 1067 1068 1069	IV.B.1.b).(1).(a).(iv)	communicate indications for, contraindications for, and risks of radiologic and interventional procedures, and understand the medical and surgical alternatives to those procedures; ^(Core)
1009 1070 1071 1072 1073 1074 1075	IV.B.1.b).(1).(a).(v)	provide appropriate pre-procedural and follow-up care related to interventional radiology, including inpatient rounds and post-procedure follow-up management of outpatients via clinic visits; ^(Core)
1076 1077 1078	IV.B.1.b).(1).(a).(vi)	participate in the multidisciplinary approach to continuity of procedure-related care; ^(Core)
1079 1080 1081	IV.B.1.b).(1).(a).(vii)	apply radiation safety principles in performing interventional procedures; ^(Core)
1082 1083 1084 1085 1086 1087	IV.B.1.b).(1).(a).(viii)	administer pharmacologic agents, including sedatives, analgesics, antibiotics, and other drugs commonly employed in conjunction with endovascular, invasive, and non- vascular procedures; ^(Core)
1088 1089 1090 1091 1092	IV.B.1.b).(1).(a).(ix)	consult with patients and referring physicians regarding the indications for, and risks, expected outcomes, and appropriateness of interventional radiology procedures; ^(Core)
1093 1094 1095 1096 1097 1098	IV.B.1.b).(1).(a).(x)	formulate a treatment plan, including appropriate additional work-up, consultations, and procedural recommendations, to include risk assessment, consideration of other

1099 1100 1101		treatments, and delivery of care in a collaborative model, when appropriate; ^(Core)
1102 1103 1104	IV.B.1.b).(1).(a).(xi)	provide follow-up communications with referring physicians; and, ^(Core)
1105 1106 1107 1108 1109	IV.B.1.b).(1).(a).(xii)	recognize and treat or refer for treatment of complications of interventional radiology procedures, including contrast reactions.
1110 1111 1112 1113	IV.B.1.b).(1).(b)	Residents must demonstrate the ability to interpret imaging appropriate for their educational level, including demonstration of competence in: (Core)
1114 1115 1116 1117 1118	IV.B.1.b).(1).(b).(i)	planning, executing, and assessing the adequacy of interventions based on independent review of plain film, ultrasound, CT, MR, and nuclear medicine studies; ^(Core)
1119 1120 1121 1122 1123	IV.B.1.b).(1).(b).(ii)	interpreting images obtained during the performance of interventional procedures, and skillfully integrating the imaging findings into the procedure; and, ^(Core)
1124 1125 1126 1127 1128	IV.B.1.b).(1).(b).(iii)	modifying and directing the intervention based on these interpretations, and demonstrating their use in aiding the determination of procedural endpoints. ^(Core)
1129 1130	IV.B.1.b).(1).(c)	Integrated 72-Month Programs
1131 1132 1133 1134	IV.B.1.b).(1).(c).(i)	Residents must demonstrate competence in fundamental clinical skills of medicine, including: ^(Core)
1135 1136 1137	IV.B.1.b).(1).(c).(i).(a)	<u>obtaining a comprehensive medical</u> <u>history; ^(Core)</u>
1138 1139 1140	IV.B.1.b).(1).(c).(i).(b)	performing a comprehensive physical examination; ^(Core)
1141 1142 1143	IV.B.1.b).(1).(c).(i).(c)	assessing a patient's medical conditions; ^(Core)
1144 1145 1146	IV.B.1.b).(1).(c).(i).(d)	making appropriate use of diagnostic studies and tests; (Core)
1147 1148 1149	IV.B.1.b).(1).(c).(i).(e)	integrating information to develop a differential diagnosis; and, (Core)

1150 1151	IV.B.1.b).(1).(c).(i).(f)	implementing a treatment plan. (Core)
1152 1153 1154 1155	IV.B.1.b).(2)	Residents must be able to perform all medical, diagnostic, and surgical procedures considered essential for the area of practice. ^(Core)
1155 1156 1157 1158 1159 1160	IV.B.1.b).(2).(a)	Residents must demonstrate competence in the interpretation of CT, MRI, radiography, and radionuclide imaging of the cardiovascular system (heart and great vessels); ^(Core)
1161 1162 1163	IV.B.1.b).(2).(b)	Residents must demonstrate competence in the management of contrast reactions; ^(Core)
1164 1165 1166 1167 1168	IV.B.1.b).(2).(c)	Residents must demonstrate competence in the ongoing awareness of radiation exposure, protection, and safety, and the application of these principles in practice; ^(Core)
1169 1170 1171 1172	IV.B.1.b).(2).(d)	Residents must competently apply low-dose radiation techniques for both adults and children; (Core)
1173 1174 1175 1176 1177	IV.B.1.b).(2).(e)	Residents must demonstrate competence in the use of needles, catheters, guide wires, balloons, stents, stent-grafts, vascular filters, embolic agents, biopsy devices, ablative technologies, and other interventional devices; ^(Core)
1178 1179 1180 1181 1182 1183 1184 1185	IV.B.1.b).(2).(f)	Residents must demonstrate the clinical judgment and technical ability to perform complex vascular and non-vascular image-guided interventions on a sufficient variety of patients and pathological conditions to allow for competent post-graduate practice; ^(Core)
1183 1186 1187 1188 1189 1190	IV.B.1.b).(2).(f).(i)	Residents must participate in a minimum of 1000 invasive imaging and image-guided vascular and non-vascular interventional procedures ^(Core)
1190 1191 1192 1193 1194	IV.B.1.b).(2).(f).(i).(a)	This should include both adult and pediatric interventional procedures.
1194 1195 1196 1197 1198 1199 1200	IV.B.1.b).(2).(f).(i).(b)	Vascular procedures must include at least: arteriography; venography; arterial and venous angioplasty; arterial and venous stenting; arterial and venous percutaneous revascularization procedures;

1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211		percutaneous embolization; transcatheter infusion therapy; intravascular foreign body removal; hemodialysis interventions; percutaneous placement of endovascular prostheses such as stent grafts and vena cava filters; transvascular biopsy; and insertion and removal of vascular access devices. ^(Core)
1212 1213 1214 1215 1216	IV.B.1.b).(2).(f).(i).(b).(i)	Vascular procedures may <u>should</u> also include neurovascular interventions. (Detail)
1210 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230	IV.B.1.b).(2).(f).(i).(c)	Non-vascular procedures must include at least: percutaneous imaging-guided biopsy; percutaneous gastrointestinal access and interventions; percutaneous urinary tract access and interventions; percutaneous biliary access and interventions; percutaneous drainage for diagnosis and treatment of infections and other fluid collections; and percutaneous imaging-guided ablative procedures such as ablation of neoplasms. ^(Core)
1230 1231 1232 1233 1234 1235 1236	IV.B.1.b).(2).(f).(i).(c).(i)	Non-vascular procedures may also include musculoskeletal, spine, and pain management interventions. ^(Detail)
1237 1238 1239	IV.B.1.b).(2).(g)	Residents must demonstrate procedural competence in:
1240 1241 1242	IV.B.1.b).(2).(g).(i)	performance of basic image-guided procedures; ^(Core)
1243 1244 1245	IV.B.1.b).(2).(g).(ii)	invasive diagnostic venous and arterial imaging; ^(Core)
1246 1247 1248 1249 1250 1251	IV.B.1.b).(2).(g).(iii)	endovascular revascularization procedures, to include: angioplasty; stent placement; endograft placement; pharmacologic and/or mechanical thrombolysis and/or thrombectomy; and intravascular foreign body retrieval; ^(Core)

1252			
1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263	IV.B.1.b).(2).(g).(iv)		endovascular embolization therapy; (Core)
	IV.B.1.b).(2).(g).(v)		invasive diagnostic imaging and interventions in the hepatobiliary and urinary systems; and, ^(Core)
	IV.B.1.b).(2).(g).(vi)		non-vascular interventions, to include: solid and hollow organ access; non-vascular angioplasty/stent/stent graft placement; biopsy; drainage; and tissue ablation. ^(Core)
1263 1264 1265	IV.B.1.b).(2).(h)	Integr	ated Programs
1266 1267 1268 1269 1270 1271	IV.B.1.b).(2).(h).(i)		Residents must demonstrate competence in the generation of ultrasound images using the transducer and imaging system, and in the interpretation of ultrasonographic examinations of various types. ^(Core)
1272 1273 1274 1275	IV.B.1.b).(2).(h).(i).(a)		Residents should have sufficient hands-on scanning experience. (Core)(Detail)
1275 1276 1277 1278 1279	IV.B.1.b).(2).(h).(i).(a).(i)		<u>This should include the</u> performance of 75 hands-on scans. ^(Core)
1280 1281 1282 1283	IV.B.1.b).(2).(h).(i).(b)		Programs should incorporate a process to document resident proficiency in ultrasonographic skills. (Core)(Detail)
1284	Specialty-Specific Backar	ound and Intent: The R	eview Committee has defined "sufficient"
			an that residents are to experience the basic
			s, knobology, image generation, and
			trasound examinations that could provide
	these opportunities include		
			rasound, musculoskeletal ultrasound, sound-guided interventional procedures also
	qualify.		galada interventienal proceduros alos
1285			
1286	IV.B.1.c)	Medical Knowledge)
1287 1288 1289 1290 1291 1292		evolving biomedica	monstrate knowledge of established and al, clinical, epidemiological and social- s, as well as the application of this nt care. ^(Core)
1292 1293 1294	IV.B.1.c).(1)	Residents mu	ust demonstrate knowledge of:

1295 1296 1297	IV.B.1.c).(1).(a)	interventional radiology clinical and general didactic content; ^(Core)
1297 1298 1299 1300	IV.B.1.c).(1).(b)	clinical and basic sciences related to interventional radiology, including: ^(Core)
1301 1302	IV.B.1.c).(1).(b).(i)	anatomy; ^(Core)
1303 1304	IV.B.1.c).(1).(b).(ii)	physiology; ^(Core)
1305 1306 1307 1308 1309	IV.B.1.c).(1).(b).(iii)	pathophysiology of the hematological, circulatory, respiratory, gastrointestinal, genitourinary, musculoskeletal, and neurologic systems; ^(Core)
1310 1311	IV.B.1.c).(1).(b).(iv)	relevant pharmacology; ^(Core)
1312 1313	IV.B.1.c).(1).(b).(v)	patient evaluation; (Core)
1314 1315	IV.B.1.c).(1).(b).(vi)	management skills; and, (Core)
1316 1317	IV.B.1.c).(1).(b).(vii)	diagnostic techniques. (Core)
1318 1319 1320 1321	IV.B.1.c).(1).(c)	non-interpretive skills, including health care economics, coding and billing compliance, and the business of medicine; ^(Core)
1322 1323 1324	IV.B.1.c).(1).(d)	appropriate and patient-centered imaging utilization; ^(Core)
1325 1326	IV.B.1.c).(1).(e)	quality improvement techniques; (Core)
1327 1328	IV.B.1.c).(1).(f)	radiologic/pathologic correlation; and, (Core)
1329 1330 1331	IV.B.1.c).(1).(g)	physiology, utilization, and safety of contrast agents and pharmaceuticals. ^(Core)
1332 1333	IV.B.1.c).(2)	Integrated Programs – Diagnostic Radiology
1334 1335 1336 1337 1338	IV.B.1.c).(2).(a)	the principles of medical imaging physics including: CT, dual-energy X-ray absorptiometry, fluoroscopy, gamma camera and hybrid imaging technologies, MRI, radiography, and ultrasonography. ^(Core)
1339 1340	IV.B.1.d)	Practice-based Learning and Improvement
1340 1341 1342 1343 1344		Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning. ^(Core)
1345		

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.

	residency.	
1346		
1347	IV.B.1.d).(1)	Residents must demonstrate competence in:
1348		
1349	IV.B.1.d).(1).(a)	identifying strengths, deficiencies, and limits in
1350		one's knowledge and expertise; (Core)
1351		5 1 7
1352	IV.B.1.d).(1).(b)	setting learning and improvement goals; ^(Core)
1353	(1).(b)	sound fourning and improvement gould,
1354	IV.B.1.d).(1).(c)	identifying and newforming enprepriate learning
	Г ч .Б.1.d).(1).(С)	identifying and performing appropriate learning
1355		activities; ^(Core)
1356		
1357	IV.B.1.d).(1).(d)	systematically analyzing practice using quality
1358		improvement methods, and implementing
1359		changes with the goal of practice improvement;
1360		(Core)
1361		
1362	IV.B.1.d).(1).(e)	incorporating feedback and formative
1363		evaluation into daily practice; (Core)
1364		evaluation into daily practice,
		leasting envisions and excitating evidence
1365	IV.B.1.d).(1).(f)	locating, appraising, and assimilating evidence
1366		from scientific studies related to their patients'
1367		health problems; and, ^(Core)
1368		
1369	IV.B.1.d).(1).(g)	using information technology to optimize
1370		learning. ^(Core)
1371		
1372	IV.B.1.e)	Interpersonal and Communication Skills
1373	-	
1374		Residents must demonstrate interpersonal and
1375		communication skills that result in the effective exchange of
1376		information and collaboration with patients, their families,
1377		and health professionals. ^(Core)
1378		
	\mathbb{N}/\mathbb{P} (a) (d)	Pasidanta must demonstrate competence in
1379	IV.B.1.e).(1)	Residents must demonstrate competence in:
1380		
1381	IV.B.1.e).(1).(a)	communicating effectively with patients,
1382		families, and the public, as appropriate, across
1383		a broad range of socioeconomic and cultural
1384		backgrounds; ^(Core)
1385		
1386	IV.B.1.e).(1).(a).(i)	Residents must demonstrate competence in
1387		obtaining informed consent and effectively
		5

1388 1389 1390 1391		describing imaging appropriateness, safety issues, and the results of diagnostic imaging and procedures to patients. ^(Core)
1392 1393 1394 1395	IV.B.1.e).(1).(b)	communicating effectively with physicians, other health professionals, and health-related agencies; ^(Core)
1396 1397 1398 1399 1400 1401	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. ^(Core)
1402 1403 1404 1405	IV.B.1.e).(1).(c)	working effectively as a member or leader of a health care team or other professional group; (Core)
1406 1407 1408	IV.B.1.e).(1).(d)	educating patients, families, students, residents, and other health professionals; ^(Core)
1409 1410 1411	IV.B.1.e).(1).(e)	acting in a consultative role to other physicians and health professionals; ^(Core)
1412 1413 1414	IV.B.1.e).(1).(f)	maintaining comprehensive, timely, and legible medical records, if applicable; and, ^(Core)
1415 1416 1417	IV.B.1.e).(1).(g)	supervising, providing consultation to, and teaching medical students and/or residents. ^(Core)
1418 1419 1420 1421 1422	IV.B.1.e).(2)	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. (Core)
	achieve a patient's goal life, a discussion about life is one of the most in	When there are no more medications or interventions that can s or provide meaningful improvements in quality or length of the patient's goals, values, and choices surrounding the end of nportant conversations that can occur. Residents must learn to nd compassionately in these meaningful human interactions, tents and themselves.
1423	Programs may teach thi means of active learning	is skill through direct clinical experience, simulation, or other g.
1424 1425	IV.B.1.f)	Systems-based Practice
1426 1427 1428		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

1429 1430 1431	the ability to call effectively on other resources to provide optimal health care. ^(Core)	
1432 1433	IV.B.1.f).(1)	Residents must demonstrate competence in:
1434 1435 1436 1437	IV.B.1.f).(1).(a)	working effectively in various health care delivery settings and systems relevant to their clinical specialty; ^(Core)
	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.	
1438 1439 1440 1441 1442	IV.B.1.f).(1).(b)	coordinating patient care across the health care continuum and beyond as relevant to their clinical specialty; ^(Core)
	Therefore it is recognized that meet the totality of the patient coordination and forethought	y patient deserves to be treated as a whole person. t any one component of the health care system does not t's needs. An appropriate transition plan requires by an interdisciplinary team. The patient benefits from enefits from proper use of resources.
1443 1444 1445 1446	IV.B.1.f).(1).(c)	advocating for quality patient care and optimal patient care systems; ^(Core)
1447 1448 1449	IV.B.1.f).(1).(d)	working in interprofessional teams to enhance patient safety and improve patient care quality; (Core)
1450 1451 1452 1453	IV.B.1.f).(1).(e)	participating in identifying system errors and implementing potential systems solutions; ^(Core)
1454 1455 1456 1457 1458	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; ^(Core)
1459 1460 1461	IV.B.1.f).(1).(g)	understanding health care finances and its impact on individual patients' health decisions; and, ^(Core)
1462 1463 1464 1465 1466 1467	IV.B.1.f).(1).(h)	compliance with institutional and departmental policies, <u>such as</u> -including HIPAA, the Joint Commission, patient safety, and infection control.
1467 1468 1469 1470 1471	IV.B.1.f).(2)	Residents must learn to advocate for patients within the health care system to achieve the patient's and family's care goals, including, when appropriate, end- of-life goals. ^(Core)

IV.C.	Curriculum Organization and Resident Experiences
IV.C.1.	The curriculum must be structured to optimize resident education experiences, the length of these experiences, and supervisory continuity. ^(Core)
IV.C.1.a)	The assignment of educational experiences should be structure to minimize the frequency of transitions. (Detail)
IV.C.1.b)	Educational experiences should be of sufficient length to provid quality educational experience defined by ongoing supervision, longitudinal relationships with faculty members, and high-qualit assessment and feedback. (Detail)
inadequ within tl team-ba	bund and Intent: In some specialties, frequent rotational transitions, ate continuity of faculty member supervision, and dispersed patient location ne hospital have adversely affected optimal resident education and effective sed care. The need for patient care continuity varies from specialty to y and by clinical situation, and may be addressed by the individual Review tee. The program must provide instruction and experience in pain management if applicable for the specialty, including recognition the signs of addiction. ^(Core)
IV.C.3.	Didactic Curriculum
IV.C.3.a)	The core didactic curriculum must be documented. (Core)
IV.C.3.b)	The core didactic curriculum must include the following core content areas of interventional radiology:
IV.C.3.b).(1) focused history and physical examination; ^(Core)
IV.C.3.b).(2	2) health care team coordination; ^(Core)
IV.C.3.b).(3) informed consent for interventional radiology procedure (Core)
IV.C.3.b).(4	4) inpatient care; ^(Core)
IV.C.3.b).(5) interventional radiology clinic; ^(Core)
IV.C.3.b).((6) medical conditions relevant to interventional radiology procedures; ^(Core)
IV.C.3.b).(7) pharmacology relevant to interventional radiology; ^(Core)
IV.C.3.b).(8	 procedural sedation for interventional radiology procedures; and, ^(Core)

1517 1518 1519 1520	IV.C.3.b).(9)	recognition and initial management of intra- and peri- procedural emergencies. ^(Core)
1520 1521 1522 1523 1524 1525 1526 1527	IV.C.3.c)	The didactic curriculum <u>must</u> should include interactive conferences in addition to the core didactic series. (Core)(Detail)
	IV.C.3.d)	The didactic curriculum should include interdisciplinary interdepartmental conferences in which both residents and faculty members 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.	
1528 1529 1530 1531	IV.C.3.e)	Conferences should provide for progressive resident participation. (Core)(Detail)
1531 1532 1533 1534	IV.C.3.f)	Didactic conferences must be resident-level-specific, and must provide formal review of the topics in the curriculum. ^(Core)
1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545	IV.C.3.g)	Residents must participate in scheduled conferences <u>didactic</u> <u>activities</u>on a regular basis. ^(Core)
	IV.C.3.g).(1)	Residents must be provided protected time to attend <u>didactic activities lectures and conferences</u> scheduled by the program. ^(Core)
	IV.C.3.g).(2)	The program must provide mechanisms for residents to participate in all <u>didactic activities</u> scheduled lectures and conferences either in-person or by electronic means. ^(Core)
1546 1547	IV.C.3.g).(3)	Residents must be provided with:
1548 1549 1550 1551 1552 1553 1554 1555 1556	IV.C.3.g).(3).(a)	five hours of <u>didactic activities conferences/lectures</u> per week during the PGY-2-4 of an integrated program; and, ^(Core)
	IV.C.3.g).(3).(b)	two hours of <u>didactic activities</u> conferences/lectures per week during the PGY-5 and PGY-6 of an integrated program, and in all years of the independent program. ^(Core)
1557 1558 1559 1560	IV.C.3.g).(4)	Residents' attendance at participation in didactic activities conferences/lectures should be documented throughout the duration of their training educational program. ^(Detail)
1560 1561 1562	IV.C.3.g).(5)	Residents' teaching experience should include active participation in educating diagnostic radiology residents,

1563 1564 1565		and if appropriate, medical students and other professional personnel in the care and management of patients. (<u>Core)(Detail)</u>
1566 1567	IV.C.3.h)	Interventional Radiology Didactic Content
1568	10.0.3.11)	
1569 1570 1571 1572	IV.C.3.h).(1)	Morbidity and mortality related to the performance of interventional procedures must be reviewed <u>during a conference</u> at least monthly and be documented. ^(Core)
1573 1574 1575	IV.C.3.h).(1).(a)	Residents must actively participate in this review.
1576 1577 1578	IV.C.3.h).(2)	Residents should participate in local or national vascular and interventional radiology societies. ^(Detail)
1579 1580 1581 1582	IV.C.3.h).(3)	Residents should prepare and present clinically- or pathologically-proven cases at departmental conferences.
1583 1584	IV.C.3.i)	Integrated Programs - Diagnostic Radiology Didactic Content
1585 1586 1587	IV.C.3.i).(1)	The core didactic curriculum must be repeated at least every two years. ^(Core)
	repeated every two years a curriculum on a 1.5-year cy	and and Intent: While the core didactic curriculum must be t a minimum, programs are encouraged to repeat the didactic cle so that residents can be exposed to all essential topics twice ination or the AOBR Combined Physics and Diagnostic Imaging
1588		
1589 1590 1591	IV.C.3.i).(2)	The core didactic curriculum must include <u>the following</u> diagnostic radiology content:
1592 1593 1594	IV.C.3.i).(2).(a)	anatomy, disease processes, imaging, and physiology; ^(Core)
1595 1596 1597	IV.C.3.i).(2).(b)	specialty/subspecialty clinical and general content; (Core)
1598 1599	IV.C.3.i).(2).(c)	topics related to professionalism, physician well- being, diversity, and ethics; ^(Core)
1600 1601 1602 1603 1604	IV.C.3.i).(2).(d)	training in the clinical application of medical physics distributed throughout the 60 months of the educational program; and, ^(Core)
1605 1606 1607	IV.C.3.i).(2).(d).(i)	A medical physicist must oversee the development of the physics curriculum. (Core)

1608 1609 1610 1611	IV.C.3.i).(2).(d).(ii)		The curriculum should include real-time expert discussions and interactive educational experiences. (Core)(Detail)	
	physics education this resource could	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.		
	lectures for the results use alternative educed	idents to review without real-t ucational tools such as online	Id not consist entirely of online-recorded ime interaction. While programs are free to modules, these tools should provide a real- ents to engage with the lecturer.	
1612			ents to engage with the lecturer.	
1612 1613 1614 1615 1616 1617 1618 1619 1620	IV.C.3.i).(2).(e)	traini appli bypro studi sodiu	nimum of 80 hours of classroom and laboratory ng in basic radionuclide handling techniques cable to the medical use of unsealed oduct material for imaging and localization es (10 CFR 35.290) and oral administration of im iodide I-131 for procedures requiring a en directive (10 CFR 35.392, 10 CFR 35.394).	
1621 1622 1623 1624 1625	IV.C.3.i).(2).(e).(i)		Integral to the practice of nuclear radiology, these didactics must include, at a minimum, the following subjects: ^(Core)	
1626 1627 1628	IV.C.3.i).(2).(e).(i).(a	a)	radiation physics and instrumentation; ^(Core)	
1629 1630	IV.C.3.i).(2).(e).(i).(l))	radiation protection; (Core)	
1631 1632 1633	IV.C.3.i).(2).(e).(i).(e)	;)	mathematics pertaining to use and measurement of radioactivity; ^(Core)	
1634 1635	IV.C.3.i).(2).(e).(i).(e	(t	chemistry of byproduct material for medical use; and, ^(Core)	
1636 1637 1638	IV.C.3.i).(2).(e).(i).(e	e)	radiation biology. (Core)	
1639 1640	IV.C.4.	Resident Experiences		
1641 1642 1643	IV.C.4.a)		on in patient care and radiology-related r throughout all levels of education. ^(Core)	
1643 1644 1645 1646 1647 1648	IV.C.4.b)	after-hours and on v	on in on-call activities, including being on duty weekends or holidays, should occur throughout of the integrated program and both years of ogram. (Core)(Detail)	

1649 1650 1651 1652 1653 1654	IV.C.4.b).(1)	Resident competence must be assessed and documented prior to assuming independent responsibilities. ^(Core)	
	IV.C.4.b).(2)	Resident supervision during on-call activities must be provided by a senior resident, fellow, or radiology faculty member. ^(Core)	
1655 1656 1657 1658	IV.C.4.b).(2).(a)	A radiology faculty member must be available for direct or indirect supervision. ^(Core)	
1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675	IV.C.4.b).(3)	Resident on-call experiences must include interpretation, reporting, and management of active cases, and must not include administrative roles or duties consisting primarily of re-review of previously reported cases. ^(Core)	
	IV.C.4.b).(4)	Integrated Programs - Relief from after-hours duty granted to residents, at the program director's discretion, must not exceed 12 weeks preceding the ABR Core Examination or the AOBR Diagnostic Radiology Combined Physics and Diagnostic Imaging Written Exam. ^(Core)	
	IV.C.4.b).(5)	Integrated Programs - Residents, as an individual or group, must not be provided protected study time for the ABR Core Examination or the AOBR Diagnostic Radiology Combined Physics and Diagnostic Imaging Written Exam. (Core)	
	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.		
1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690	IV.C.4.c)	Residents must be provided with education and specific clinical time dedicated to the performance and interpretation of non-invasive vascular testing, including vascular ultrasound studies, physiologic vascular tests, MR angiograms, and CT angiograms. (Core)	
	IV.C.4.c).(1)	These studies must be documented in the residents' Case Logs. ^(Core)	
	IV.C.4.d)	Residents should be instructed in proper use and interpretation of laboratory tests and methods that are adjunctive to vascular and interventional procedures, including the use of physiologic monitoring devices, non-invasive vascular testing, and non-invasive vascular imaging. (Core)(Detail)	

1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701	IV.C.4.e)	Residents must have supervised progressive responsibility in a dedicated interventional radiology clinic, the admission and routine procedure-related inpatient care of interventional radiology patients, discharge planning, and procedure-related follow-up. (Core)
	IV.C.4.f)	Residents' patient care experience must be of sufficient duration to provide continuity of care that enables residents to attain competenc <u>ey</u> in the peri-procedural management of patients. ^(Core)
	participation in the full gam patient care, and post-clini inadequate. If not logistical the same patient througho and/or similar disease state day, the interventional radi diagnosis of peripheral vas revascularization procedur post-intervention follow-up continuity of care for one s	bund and Intent: "Continuity of care" refers to residents' active nut of clinical care, including pre-clinical evaluation, procedural cal care. Just observing an interventional radiology attending is Ily possible, interventional radiology residents do not need to see ut each clinical stage, so long as they see similar types of patients es within each clinical stage. For example, within a single clinic iology resident may evaluate and care for a new patient with a scular disease, assess a patient who recently underwent a limb re two weeks prior; and see three-month, six-month, and 12-month patients. This type of clinic experience, while it does not constitute single patient, does provide a continuity of care experience within a s a meaningful experience for the resident.
1702 1703 1704 1705	IV.C.4.g)	Residents must maintain current certification in advanced cardiac life-support (ACLS). (Core)
1703 1706 1707 1708 1709 1710 1711 1712 1713 1714	IV.C.4.h)	Residents should have experience in sedation analgesia. ^(Detail)
	IV.C.4.i)	Residents' procedural experiences must be tracked using the ACGME Case Log System, and must at least meet the procedural minimums defined by the Review Committee. ^(Core)
	IV.C.4.j)	Residents must maintain a Resident Learning Portfolio which must include, at a minimum, documentation of the following: ^(Core)
1715 1716	IV.C.4.j).(1)	Patient Care – Integrated Programs
1710 1717 1718 1719 1720	IV.C.4.j).(1).(a)	participation in therapies involving oral administration of sodium iodide I-131, to include the date, diagnosis, and dosage; ^(Core)
1721 1722	IV.C.4.j).(1).(b)	interpretation/multi-reading of mammograms; and, (Core)
1723 1724 1725 1726 1727 1728 1729	IV.C.4.j).(1).(c)	participation in <u>performance of 75</u> hands-on ultrasonographic examinations of various types. (Core)
	IV.C.4.j).(2)	Case/Procedure Logs – All Programs

1730 1731 1732 1733 1734 1735 1736	IV.C.4.j).(2).(a)	resident experience in the performance, interpretation, and complications of vascular, interventional, and invasive procedures, including image-guided biopsies, drainage procedures, angioplasty, embolization and infusion procedures, and other percutaneous interventional procedures. (Core)
1737 1738 1739	IV.C.4.j).(3)	Medical Knowledge – All Programs
1740 1741 1742	IV.C.4.j).(3).(a)	conferences, courses/meetings attended, and self-assessment modules completed; and, ^(Core)
1743 1744 1745	IV.C.4.j).(3).(b)	performance on rotation-specific and/or annual objective examinations. ^(Core)
1746 1747	IV.C.4.j).(4)	Practice-based Learning and Improvement – All Programs
1748 1749 1750 1751	IV.C.4.j).(4).(a)	evidence of a reflective process that must result in the annual documentation of an individual learning plan and self-assessment; and, ^(Core)
1752 1753 1754	IV.C.4.j).(4).(b)	scholarly activity, such as publications and/or presentations. ^(Core)
1755 1756	IV.C.4.j).(5)	Interpersonal and Communication Skills – All Programs
1757 1758 1759	IV.C.4.j).(5).(a)	formal documented assessment of oral and written communication. (Core)
1760 1761	IV.C.4.j).(6)	Professionalism – All Programs
1762 1763 1764 1765 1766	IV.C.4.j).(6).(a)	compliance with institutional and departmental policies <u>such as</u> including, but not limited to HIPAA, Joint Commission, patient safety, infection control, and dress code; and, ^(Core)
1767 1768	IV.C.4.j).(6).(b)	status of medical license, if appropriate. (Core)
1769 1770	IV.C.4.j).(7)	Systems-based Practice – All Programs
1771 1772 1773 1774 1775	IV.C.4.j).(7).(a)	a learning activity that involves deriving a solution to a system problem at the departmental, institutional, local, regional, national, or international level. ^(Core)
1776 1777	IV.C.5.	Curriculum
1778 1779 1780	IV.C.5.a)	By the completion of the program, residents must have completed at least 23 interventional radiology or interventional radiology-related rotations. ^(Core)

1781 1782 1783 1784 1785	IV.C.5.a).(1)	Of these, at least 18 rotations must be core interventional radiology rotations in the interventional radiology division under the supervision of an interventional radiologist. ^(Core)
1786 1787	IV.C.5.b)	Residents must complete one rotation in critical care medicine.
1788 1789 1790	IV.C.5.b).(1)	For integrated programs, the critical care experience should occur during the PGY-5 or PGY-6. ^(Detail)
1791 1792 1793 1794 1795	IV.C.5.b).(2)	The critical care experience must be completed on a continuous full-time basis in a critical care setting under the supervision of a critical care specialist. ^(Core)
	provide residents with su patients. Rather, it is inte of ICU patients during pr	round and Intent: The critical care experience is not intended to ifficient skills and knowledge to assume primary responsibility for ICU ended to provide adequate skills to allow for the peri-procedural care ocedures, and to provide a background of knowledge regarding the interventional radiology physicians can complement each other in the e in common.
1796 1797 1798	IV.C.5.c)	Independent Programs
1798 1799 1800 1801 1802	IV.C.5.c).(1)	The independent program curriculum must consist of 24 months of interventional radiology education under the direction of the program director. ^(Core)
1803 1804	IV.C.5.d)	Integrated 72-Month Programs
1805 1806 1807 1808	IV.C.5.d).(1)	Programs using the 72-month format must provide a clinical experience during the first 12 months of the program, including: ^(Core)
1800 1809 1810 1811 1812	IV.C.5.d).(1).(a)	at least nine months of rotations designed to provide the fundamental clinical skills of medicine, which must include: (Core)
1813 1814 1815	IV.C.5.d).(1).(a).(i)	six months of inpatient care, which must include at least one month of critical care; (Core)
1816 1817 1818 1819	IV.C.5.d).(1).(a).(ii)	one month of emergency medicine; and, (Core)
1820 1821	IV.C.5.d).(1).(a).(iii)	two months of additional inpatient or outpatient care. (Core)
1822 1823 1824 1825	IV.C.5.d).(1).(b)	The nine months of fundamental clinical skills of medicine should occur in the disciplines of anesthesiology, emergency medicine, family

1826 1827 1828 1829 1830		<u>medicine, internal medicine or internal medicine</u> <u>subspecialties, neurology, obstetrics and</u> <u>gynecology, pediatrics, surgery or surgical</u> <u>specialties, or any combination of these.</u> ^(Core)
1831 1832 1833 1834 1835 1836 1837 1838 1839 1840	IV.C.5.d).(1).(c)	Elective rotations in diagnostic radiology, interventional radiology, or nuclear medicine 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 ACGME International (ACGME-I)-accredited programs with Advanced Specialty accreditation. ^(Core)
1841 1842 1843	IV.C.5.d).(1).(c).(i)	These electives must not exceed a combined total of two months. (Core)
1844 1845 1846 1847	IV.C.5.d).(1).(c).(ii)	<u>The elective rotations in radiology should</u> involve active resident participation and must not be observational only. (Core)
1848 1849 1850 1851	IV.C.5.d).(1).(c).(iii)	<u>The electives rotations in radiology should</u> <u>be supervised by a radiology program</u> <u>faculty member. ^(Core)</u>
1852 1853 1854	IV.C.5.d).(2)	The program director must maintain oversight of resident education in fundamental clinical skills of medicine. (Core)
1855 1856	IV.C.5.e)	All Integrated Programs
1857 1858 1859 1860 1861 1862 1863	IV.C.5.e).(1)	The program must demonstrate collaboration with the ACGME-accredited diagnostic radiology program, if applicable, to ensure a cohesive curriculum and educational experience for all diagnostic radiology and interventional radiology residents. ^(Core) [Previously IV.C.5.d).(1)]
1864 1865 1866 1867 1868	IV.C.5.e).(2)	The integrated curriculum must consist of 60 months of diagnostic and interventional radiology education under the direction of the program director. ^(Core) [Previously IV.C.5.d).(2)]
1869 1870 1871 1872	IV.C.5.e).(2).(a)	During the PGY-2-4, 36 months must be concentrated in diagnostic radiology education <u>.</u> (Core) [Previously IV.C.5.d).(2).(a)]
1873 1874 1875	IV.C.5.e).(2).(a).(i)	<u>This should</u> , includ <u>eing</u> at least three rotations in interventional radiology. ^(DetailCore)

1876 1877 1878	IV.C.5.e).(2).(b)	PGY-2-4 residents on interventional radiology rotations must: [Previously IV.C.5.d).(2).(b)]
1879 1880 1881 1882 1883	IV.C.5.e).(2).(b).(i)	fully participate in all of the clinical and educational activities, including non- procedural patient care; and, ^(Core) [Previously IV.C.5.d).(2).(b).(i)]
1884 1885 1886 1887 1888	IV.C.5.e).(2).(b).(ii)	be provided responsibilities and supervision commensurate with their level of education and experience. ^(Core) [Previously IV.C.5.d).(2).(b).(ii)]
1889 1890 1891 1892 1893	IV.C.5.e).(2).(c)	The final 24 months of the program should be focused primarily on interventional radiology training and education. (Core)(Detail) [Previously IV.C.5.d).(2).(c)]
1894 1895 1896 1897 1898	IV.C.5.e).(2).(c).(i)	Diagnostic radiology educational content during the final 24 months should be limited to a maximum of four rotations. (Core)(Detail) [Previously IV.C.5.d).(2).(c).(i)]
1899 1900 1901 1902 1903	IV.C.5.e).(2).(d)	Residents must not interpret examinations without direct supervision until they have completed at least 12 months of diagnostic radiology <u>rotations</u> . ^(Core) [Previously IV.C.5.d).(2).(d)]
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	IV.C.5.e).(2).(e)	Each residents must complete have a minimum of 700 hours of training and work experience under the supervision of an Authorized User (AU) in basic radionuclide handling techniques and radiation safety applicable to the medical use of unsealed byproduct material for imaging and localization studies (10 CFR 35.290) and oral administration of sodium iodide I-131 for procedures requiring a written directive (10 CFR 35.392, 10 CFR 35.394). ^(Core) [Previously IV.C.5.d).(2).(e)]
	(NRC) guidelines § 35.290 Training for ima "700 hours of training and experience, incl laboratory training." Thus, there is the opti laboratory training toward the 700-hour tot	According to Nuclear Regulatory Commission aging and localization studies, the NRC requires uding a minimum of 80 hours of classroom and on to count the 80 hours of classroom and al. In any case, the 80-hour requirement dition to the 700 hours (more than 700 hours total)
1915 1916 1917 1918	IV.C.5.e).(2).(e).(i)	Supervised work experience, at a minimum, must involve all operational and quality control procedures integral to the practice of

1919 1920		nuclear radiology, including but not limited to: ^(Core) [Previously IV.C.5.d).(2).(e).(i)]
1921 1922 1923	IV.C.5.e).(2).(e).(i).(a)	receiving packages; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(a)]
1924 1925 1926 1927	IV.C.5.e).(2).(e).(i).(b)	using generator systems; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(b)]
1927 1928 1929 1930 1931 1932	IV.C.5.e).(2).(e).(i).(c)	calibrating and administering unsealed radioactive materials for diagnostic and therapeutic use; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(c)]
1932 1933 1934 1935	IV.C.5.e).(2).(e).(i).(d)	completing written directives; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(d)]
1935 1936 1937 1938 1939 1940	IV.C.5.e).(2).(e).(i).(e)	adhering to ALARA (as low as reasonably achievable) principles; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(e)]
1940 1941 1942 1943 1944 1945	IV.C.5.e).(2).(e).(i).(f)	ensuring radiation protection in practice, to include dosimeters, exposure limits, and signage; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(f)]
1945 1946 1947 1948 1949	IV.C.5.e).(2).(e).(i).(g)	using radiation-measuring instruments; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(g)]
1950 1951 1952	IV.C.5.e).(2).(e).(i).(h)	conducting area surveys; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(h)]
1952 1953 1954 1955	IV.C.5.e).(2).(e).(i).(i)	managing radioactive waste; ^(Core) [Previously IV.C.5.d).(2).(e).(i).(i)]
1956 1957	IV.C.5.e).(2).(e).(i).(j)	preventing medical events; and, ^(Core) [Previously IV.C.5.d).(2).(e).(i).(j)]
1958 1959 1960 1961	IV.C.5.e).(2).(e).(i).(k)	responding to radiation spills and accidents. ^(Core) [Previously IV.C.5.d).(2).(e).(i).(k)]
1962 1963 1964 1965 1966	IV.C.5.e).(2).(e).(ii)	Under AU preceptor supervision <u>each</u> resident s must: [Previously IV.C.5.d).(2).(e).(ii)]
1966 1967 1968 1969	IV.C.5.e).(2).(e).(ii).(a)	participate in at least three cases involving the oral administration of less than or equal to 1.22

1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	IV.C.5.e).(2).(e).(ii).(b)	gigabecquerels (33 millicuries) of sodium iodide I-131 and at least three cases involving the oral administration of greater than 1.22 gigabecquerels (33 millicuries) of sodium iodide I-131; ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(a)] participate in patient selection and preparation; ^(Core) [Previously
1980 1981		IV.C.5.d).(2).(e).(ii).(b)]
1982 1983 1984 1985 1986	IV.C.5.e).(2).(e).(ii).(c)	complete documentation, including the written directive and informed consent; ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(c)]
1987 1988 1989 1990	IV.C.5.e).(2).(e).(ii).(d)	understand and calculate the administered dosage; ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(d)]
1991 1992 1993 1994	IV.C.5.e).(2).(e).(ii).(e)	counsel patients and their families on radiation safety issues; ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(e)]
1995 1996 1997	IV.C.5.e).(2).(e).(ii).(f)	determine release criteria; ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(f)]
1998 1999 2000	IV.C.5.e).(2).(e).(ii).(g)	arrange patient follow-up; and, ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(g)]
2001 2002 2003 2004	IV.C.5.e).(2).(e).(ii).(h)	make pregnancy and breastfeeding recommendations. ^(Core) [Previously IV.C.5.d).(2).(e).(ii).(h)]
2005 2006 2007 2008	IV.C.5.e).(2).(f)	<u>Each</u> resident s must <u>complete</u> have a minimum of 12 weeks of clinical rotations in breast imaging. ^(Core) [Previously IV.C.5.d).(2).(f)]
2009 2010 2011 2012 2013 2014 2015	IV.C.5.e).(2).(g)	Each residents must interpret the minimum number of mammograms within the specified time period as designated by the US Food and Drug Administration's (FDA) Mammography Quality Standards Act (MQSA) regulations. ^(Core) [Previously IV.C.5.d).(2).(g)]
2016 2017 2018 2019 2020	IV.C.5.e).(2).(h)	Diagnostic radiology education must encompass image-based diagnosis and image-guided therapeutic techniques, and must include, but not limited to: CT; interventional procedures; MRI; medical physics; nuclear radiology and molecular

	imaging; radiography/fluoroscopy; ultrasonog and radiology quality and safety. ^(Core) -[Previou IV.C.5.d).(2).(h)]
Ⅳ.C.5.e).(2).(i) Residents must have clinical rotations and for instruction in the educational content areas of diagnostic radiology, including, but not limited diagnostic imaging and related image-guided interventions in the following 10 categories: bi cardiac, gastrointestinal, musculoskeletal, neurologic, pediatric, reproductive and endoc thoracic, urinary, and vascular. ^(Core) -[Previous IV.C.5.d).(2).(i)]
IV.D.	Scholarship
	Medicine is both an art and a science. The physician is a humanistic scientist who cares for patients. This requires the ability to think critic evaluate the literature, appropriately assimilate new knowledge, and practice lifelong learning. The program and faculty must create an environment that fosters the acquisition of such skills through residen participation in scholarly activities. Scholarly activities may include discovery, integration, application, and teaching.
	The ACGME recognizes the diversity of residencies and anticipates the programs prepare physicians for a variety of roles, including clinician scientists, and educators. It is expected that the program's scholarshi reflect its mission(s) and aims, and the needs of the community it serv For example, some programs may concentrate their scholarly activity 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. ^(Core)
IV.D.1.b)	The program, in partnership with its Sponsoring Institut must allocate adequate resources to facilitate resident a faculty involvement in scholarly activities. ^(Core)
IV.D.1.c)	The program must advance residents' knowledge and practice of the scholarly approach to evidence-based pa care. ^(Core)

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

	responsible for Elements of a s • Asking r to create • Challeng so that t • When ap manner • Improvir approac The scholarly a principles of ev	approach to patient care begins with curiosity, is grounded in the vidence-based medicine, expands the knowledge base through and develops the habits of lifelong learning by encouraging residents
2067		
2068 2069	IV.D.2.	Faculty Scholarly Activity
2070 2071 2072	IV.D.2.a)	Among their scholarly activity, programs must demonstrate accomplishments in at least three of the following domains: (Core)
2073 2074 2075 2076		 Research in basic science, education, translational science, patient care, or population health Peer-reviewed grants
2077 2078 2079 2080 2081		 Quality improvement and/or patient safety initiatives Systematic reviews, meta-analyses, review articles, chapters in medical textbooks, or case reports Creation of curricula, evaluation tools, didactic educational activities, or electronic educational
2082 2083 2084		 materials Contribution to professional committees, educational organizations, or editorial boards
2085 2086		 Innovations in education
2080 2087 2088 2089 2090	IV.D.2.b)	The program must demonstrate dissemination of scholarly activity within and external to the program by the following methods:
-	represent one environment of care. The Revi program as a both core and of the creation differences in	nd Intent: For the purposes of education, metrics of scholarly activity of the surrogates for the program's effectiveness in the creation of an of inquiry that advances the residents' scholarly approach to patient iew Committee will evaluate the dissemination of scholarship for the whole, not for individual faculty members, for a five-year interval, for non-core faculty members, with the goal of assessing the effectiveness of such an environment. The ACGME recognizes that there may be scholarship requirements between different specialties and between nd fellowships in the same specialty.

	Resident Evaluation	
Evalu		
Evalu	ation	
-	<u>scholarly work to a national, regional, or loca</u> publication. ^(Core)	al meeting, or for
3.d)	All graduating residents should have submit	ted at least one
3.c).(2)	The program should specify how eac evaluated. ^(Detail)	ch project will be
	international meetings, and must be resident's Learning Portfolio. (Core)(Outc	included in each
3.c).(1)	The results of such projects must be	
3.c)	All residents must engage in a scholarly pro member supervision. ^(Core)	ject under faculty
- /	design. ^(Core)	5
3.b)	Residents must have training in critical think	ing skills and research
3.a)	Residents must participate in scholarshi	p. ^(Core)
3.	Resident Scholarly Activity	
2.b).(2)	peer-reviewed publication. (Outcome)	
	editor; (Outcome)‡	
	journal reviewer, journal editorial	
	reviewed print/electronic resource	es, articles or
	podium presentations, grant leade	
	workshops, quality improvement i	presentations.
	 3.a) 3.b) 3.c) 3.c).(1) 3.c).(2) 3.d) 	reviewed print/electronic resource publications, book chapters, texts service on professional committee journal reviewer, journal editorial editor; (Outcome)‡ 2.b).(2) peer-reviewed publication. (Outcome)‡ 3. Resident Scholarly Activity 3.a) Residents must participate in scholarshi 3.b) Residents must have training in critical think design. (Core) 3.c) All residents must engage in a scholarly promember supervision. (Core) 3.c).(1) The results of such projects must be presented at institutional, local, regio international meetings, and must be resident's Learning Portfolio. (Core)(Outcome) 3.c).(2) The program should specify how ead evaluated. (Detail) 3.d) All graduating residents should have submit scholarly work to a national, regional, or local

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 work 	<i>y</i> their strengths and weaknesses and target areas that need
		s and faculty members recognize where residents are ddress problems immediately
	against the goals and ol	s <i>evaluating a resident's learning</i> by comparing the residents bjectives of the rotation and program, respectively. Summative make decisions about promotion to the next level of training,
	components. Informatio residents or faculty mer	-of-year evaluations have both summative and formative on from a summative evaluation can be used formatively when nbers use it to guide their efforts and activities in subsequent sfully complete the residency program.
0404		aluation, and summative evaluation compare intentions with ling the transformation of a neophyte physician to one with
2131 2132 N 2133 2134 2135	/.A.1.a)	Faculty members must directly observe, evaluate, and frequently provide feedback on resident performance during each rotation or similar educational assignment. ^(Core)
	throughout the course of members to reinforce w deficiencies. This feedb to achieve the Milestone	Faculty members should provide feedback frequently of each rotation. Residents require feedback from faculty ell-performed duties and tasks, as well as to correct ack will allow for the development of the learner as they strive es. More frequent feedback is strongly encouraged for ciencies that may result in a poor final rotation evaluation.
2138	/.A.1.b)	Evaluation must be documented at the completion of the assignment. ^(Core)
2139 2140 V 2141 2142 2143	/.A.1.b).(1)	For block rotations of greater than three months in duration, evaluation must be documented at least every three months. ^(Core)
2144 V 2145 2146 2147	/.A.1.b).(2)	Longitudinal experiences, such as continuity clinic in the context of other clinical responsibilities, must be evaluated at least every three months and at completion. ^(Core)
2148 2149 \ 2150 2151 2152	/.A.1.b).(3)	Written end-of-rotation evaluations by faculty members must be provided to the residents within one month of completion of <u>each the</u> -rotation. (Core)
	/.A.1.c)	The program must provide an objective performance evaluation based on the Competencies and the specialty- specific Milestones, and must: ^(Core)

2157 2158 2159 2160	V.A.1.c).(1)	use multiple evaluators (e.g., faculty members, peers, patients, self, and other professional staff members); (Core)
2160 2161 2162 2163 2164 2165	V.A.1.c).(2)	provide that information to the Clinical Competency Committee for its synthesis of progressive resident performance and improvement toward unsupervised practice; ^(Core)
2166 2167 2168 2169	V.A.1.c).(3)	ensure that assessment for progressive resident responsibility or independence is based upon knowledge, skills, and experience; and, ^(Core)
2170 2171	V.A.1.c).(4)	ensure that resident assessment includes: (Core)
2172 2173	V.A.1.c).(4).(a)	global faculty evaluations (all competencies); (Core)
2174 2175 2176	V.A.1.c).(4).(b)	multi-source evaluations (for Interpersonal and Communication Skills and Professionalism); ^(Core)
2177 2178	V.A.1.c).(4).(c)	resident ability to take independent call; and, ^(Core)
2179 2180	V.A.1.c).(4).(d)	the Resident Learning Portfolio. (Core)
2181 2182 2183	V.A.1.d)	The program director or their designee, with input from the Clinical Competency Committee, must:
2180 2184 2185 2186 2187 2188	V.A.1.d).(1)	meet with and review with each resident their documented semi-annual evaluation of performance, including progress along the specialty-specific Milestones; ^(Core)
2189 2190 2191 2192	V.A.1.d).(2)	assist residents in developing individualized learning plans to capitalize on their strengths and identify areas for growth; and, ^(Core)
		0 <i>i i</i>
2193 2194 2195	V.A.1.d).(3)	develop plans for residents failing to progress, following institutional policies and procedures. ^(Core)
2194 2195 2196 2197	V.A.1.d).(3) V.A.1.d).(3).(a)	develop plans for residents failing to progress,
2194 2195 2196		develop plans for residents failing to progress, following institutional policies and procedures. ^(Core) The program must have a clearly defined process

2208 2209		then discuss this plan with the resident. (Core)(Detail)
2210 2211 2212 2213 2214	V.A.1.d).(3).(a).(ii).	(a) This plan should be signed by the resident and placed in his or her individual file. (Core)(Detail)
	teacher and the at the end of ea evaluations, inc months. Reside information to in knowledge o	d Intent: Learning is an active process that requires effort from the e learner. Faculty members evaluate a resident's performance at least ach rotation. The program director or their designee will review those cluding their progress on the Milestones, at a minimum of every six ents should be encouraged to reflect upon the evaluation, using the reinforce well-performed tasks or knowledge or to modify deficiencies r practice. Working together with the faculty members, residents an individualized learning plan.
	Milestones may intervention, do director or a fac specific learnin are situations v course of resid	are experiencing difficulties with achieving progress along the y require intervention to address specific deficiencies. Such ocumented in an individual remediation plan developed by the program culty mentor and the resident, will take a variety of forms based on the g needs of the resident. However, the ACGME recognizes that there which require more significant intervention that may alter the time ent progression. To ensure due process, it is essential that the or follow institutional policies and procedures.
2215 2216 2217 2218	V.A.1.e)	At least annually, there must be a summative evaluation of each resident that includes their readiness to progress to the next year of the program, if applicable. ^(Core)
2219 2220 2221 2222 2223 2223 2224	V.A.1.e).(1)	This should include a review of the resident's procedural experiences to ensure complete and accurate tracking in the ACGME Case Log System throughout the duration of the educational program resident training. ^(Core)
2224 2225 2226 2227	V.A.1.f)	The evaluations of a resident's performance must be accessible for review by the resident. ^(Core)
2228 2229	V.A.2.	Final Evaluation
2230 2231 2232	V.A.2.a)	The program director must provide a final evaluation for each resident upon completion of the program. ^(Core)
2233 2234 2235 2236 2237 2238	V.A.2.a).(1)	The specialty-specific Milestones, and when applicable the specialty-specific Case Logs, must be used as tools to ensure residents are able to engage in autonomous practice upon completion of the program. (Core)
2230 2239 2240	V.A.2.a).(2)	The final evaluation must:

2241 2242 2243 2244 2245	V.A.2.a).(2).(a)	become part of the resident's permanent record maintained by the institution, and must be accessible for review by the resident in accordance with institutional policy; ^(Core)
2246 2247 2248 2249	V.A.2.a).(2).(b)	verify that the resident has demonstrated the knowledge, skills, and behaviors necessary to enter autonomous practice; ^(Core)
2250 2251 2252	V.A.2.a).(2).(c)	consider recommendations from the Clinical Competency Committee; and, ^(Core)
2253 2254 2255	V.A.2.a).(2).(d)	be shared with the resident upon completion of the program. ^(Core)
2256 2257 2258	V.A.3.	A Clinical Competency Committee must be appointed by the program director. ^(Core)
2259 2260 2261 2262	V.A.3.a)	At a minimum, the Clinical Competency Committee must include three members of the program faculty, at least one of whom is a core faculty member. ^(Core)
2262 2263 2264 2265 2266 2267	V.A.3.a).(1)	Additional members must be faculty members from the same program or other programs, or other health professionals who have extensive contact and experience with the program's residents. ^(Core)
	Committee do no Competency Con the best structure program director impact of the pro Committee member other program-re	Intent: The requirements regarding the Clinical Competency of preclude or limit a program director's participation on the Clinical nmittee. The intent is to leave flexibility for each program to decide e for its own circumstances, but a program should consider: its d's other roles as resident advocate, advisor, and confidante; the ogram director's presence on the other Clinical Competency bers' discussions and decisions; the size of the program faculty; and elevant factors. The program director has final responsibility for on and promotion decisions.
	physicians and n There may be ad residents who ha	may include more than the physician faculty members, such as other on-physicians who teach and evaluate the program's residents. ditional members of the Clinical Competency Committee. Chief we completed core residency programs in their specialty may be Clinical Competency Committee.
2268 2269 2270	V.A.3.b)	The Clinical Competency Committee must:
2271 2272	V.A.3.b).(1)	review all resident evaluations at least semi-annually; (Core)
2273 2274 2275 2276	V.A.3.b).(2)	determine each resident's progress on achievement of the specialty-specific Milestones; and, ^(Core)

2277 2278 2279 2280	V.A.3.b).(3)	meet prior to the residents' semi-annual evaluations and advise the program director regarding each resident's progress. ^(Core)
2281 2282	V.B.	Faculty Evaluation
2282 2283 2284 2285 2286	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.

207		
288	V.B.1.a)	This evaluation must include a review of the faculty member's
289		clinical teaching abilities, engagement with the educational
290		program, participation in faculty development related to their
291		skills as an educator, clinical performance, professionalism,
292		and scholarly activities. ^(Core)
293		····· · ····
294	V.B.1.b)	This evaluation must include written, anonymous, and
295	- /	confidential evaluations by the residents. (Core)
296		······
97	V.B.2.	Faculty members must receive feedback on their evaluations at least
98		annually. ^(Core)
99		
00	V.B.3.	Results of the faculty educational evaluations should be
01		incorporated into program-wide faculty development plans. (Core)
02		
	Background	and Intent: The quality of the faculty's teaching and clinical care is a
	-	of the quality of the program and the quality of the residents' future
		Therefore, the program has the responsibility to evaluate and improve the
	I program fact	ulty members' teaching, scholarship, professionalism, and quality care.

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.

2287

2303		
2304	V.C.	Program Evaluation and Improvement
2305 2306	V.C.1.	The program director must appoint the Program Evaluation
2307 2308 2309		Committee to conduct and document the Annual Program Evaluation as part of the program's continuous improvement process. ^(Core)
2310 2311 2312 2313 2314	V.C.1.a)	The Program Evaluation Committee must be composed of at least two program faculty members, at least one of whom is a core faculty member, and at least one resident. ^(Core)
2315 2316	V.C.1.b)	Program Evaluation Committee responsibilities must include:
2317 2318 2319	V.C.1.b).(1)	acting as an advisor to the program director, through program oversight; ^(Core)
2320 2321 2322	V.C.1.b).(2)	review of the program's self-determined goals and progress toward meeting them; ^(Core)
2323 2324 2325 2326	V.C.1.b).(3)	guiding ongoing program improvement, including development of new goals, based upon outcomes; and, ^(Core)
2327 2328 2329 2330	V.C.1.b).(4)	review of the current operating environment to identify strengths, challenges, opportunities, and threats as related to the program's mission and aims. ^(Core)
2331	program m Program E program q itself. The	nd and Intent: In order to achieve its mission and train quality physicians, a must evaluate its performance and plan for improvement in the Annual Evaluation. Performance of residents and faculty members is a reflection of uality, and can use metrics that reflect the goals that a program has set for Program Evaluation Committee utilizes outcome parameters and other data the program's progress toward achievement of its goals and aims.
2332 2333 2334	V.C.1.c)	The Program Evaluation Committee should consider the following elements in its assessment of the program:
2335 2336	V.C.1.c).(1)	curriculum; ^(Core)
2337 2338 2339	V.C.1.c).(2)	outcomes from prior Annual Program Evaluation(s); (Core)
2340 2341 2342	V.C.1.c).(3)	ACGME letters of notification, including citations, Areas for Improvement, and comments; ^(Core)
2343 2344	V.C.1.c).(4)	quality and safety of patient care; (Core)
2345 2346	V.C.1.c).(5)	aggregate resident and faculty:
2347	V.C.1.c).(5).(a	a) well-being; ^(Core)

2348	V(C 1 a) (5) (b)	rear uitment and retentions (Core)	
2349 2350	V.C.1.c).(5).(b)	recruitment and retention; (Core)	
2351	V.C.1.c).(5).(c)	workforce diversity; (Core)	
2352			
2353	V.C.1.c).(5).(d)	engagement in quality improvement and patient	
2354		safety; (Core)	
2355			
2356	V.C.1.c).(5).(e)	scholarly activity; ^(Core)	
2357			
2358 2359	V.C.1.c).(5).(f)	ACGME Resident and Faculty Surveys; and, (Core)	
2359			
2361	V.C.1.c).(5).(g)	written evaluations of the program. (Core)	
2362	v.o		
2363	V.C.1.c).(6)	aggregate resident:	
2364	, , ,		
2365	V.C.1.c).(6).(a)	achievement of the Milestones; (Core)	
2366			
2367	V.C.1.c).(6).(b)	in-training examinations (where applicable);	
2368			
2369 2370	V.C.1.c).(6).(c)	board pass and certification rates; and, (Core)	
2370	v .C.1.C).(0).(C)	board pass and certification rates, and,	
2372	V.C.1.c).(6).(d)	graduate performance. (Core)	
2373		3	
2374	V.C.1.c).(7)	aggregate faculty:	
2375			
2376	V.C.1.c).(7).(a)	evaluation; and, ^(Core)	
2377 2378	V.C.1.c).(7).(b)	professional development. ^(Core)	
2378	v .C.1.C).(7).(D)	professional development.	
2380	V.C.1.d)	The Program Evaluation Committee must evaluate the	
2381		program's mission and aims, strengths, areas for	
2382		improvement, and threats. (Core)	
2383			
2384	V.C.1.e)	The annual review, including the action plan, must:	
2385		be distributed to and discussed with the members of	
2386 2387	V.C.1.e).(1)	be distributed to and discussed with the members of the teaching faculty and the residents; and, ^(Core)	
2388		the teaching faculty and the residents, and, '	
2389	V.C.1.e).(2)	be submitted to the DIO. ^(Core)	
2390	,.(_)		
2391	V.C.2.	The program must complete a Self-Study prior to its 10-Year	
2392		Accreditation Site Visit. (Core)	
2393			
2394	V.C.2.a)	A summary of the Self-Study must be submitted to the DIO.	
2395 2396			
2090	Background and Intent: Outcomes of the documented Annual Program Evaluation can		
		to 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 selfidentified 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. 2397 2398 V.C.3. One goal of ACGME-accredited education is to educate physicians 2399 who seek and achieve board certification. One measure of the 2400 effectiveness of the educational program is the ultimate pass rate. 2401 2402 The program director should encourage all eligible program 2403 graduates to take the certifying examination offered by the 2404 applicable American Board of Medical Specialties (ABMS) member 2405 board or American Osteopathic Association (AOA) certifying board. 2406 2407 V.C.3.a) For specialties in which the ABMS member board and/or AOA 2408 certifying board offer(s) an annual written exam, in the 2409 preceding three years, the program's aggregate pass rate of 2410 those taking the examination for the first time must be higher 2411 than the bottom fifth percentile of programs in that specialty. (Outcome) 2412 2413 Specialty-Specific Background and Intent: For interventional 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 addregate program pass rate. 2414 2415 V.C.3.b) For specialties in which the ABMS member board and/or AOA 2416 certifying board offer(s) a biennial written exam, in the 2417 preceding six years, the program's aggregate pass rate of 2418 those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that specialty. 2419 (Outcome) 2420 2421 2422 V.C.3.c) For specialties in which the ABMS member board and/or AOA 2423 certifying board offer(s) an annual oral exam, in the preceding three years, the program's aggregate pass rate of those 2424 taking the examination for the first time must be higher than 2425 2426 the bottom fifth percentile of programs in that specialty. (Outcome) 2427 2428 Specialty-Specific Background and Intent: For interventional radiology programs, the annual oral exam referenced in V.C.3.c) will be equivalent to both the ABR's oral component and computer-based component or the AOBR's oral Certification of Added Qualifications (CAQ) in interventional radiology.

2429

2430 2431 2432 2433 2434	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)	
2435 2436 2437 2438 2439 2440	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)	
2441	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.		
2442 2443 2444 2445 2446	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. ^(Core)	
2446	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.		
2447 2448 2449 2450 2451	VI. The Learning and V	Vorking Environment	
	-	on must occur in the context of a learning and working mphasizes the following principles:	
2452 2453 2454 2455	 Excellence in the safety and quality of care rendered to patients by residents today 		

2456 2457	 Excellence in the safety and quality of care rendered to patients by today's residents in their future practice 	
2458	·	
2459	 Excellence in professionalism through faculty modeling of: 	
2460		
2461	o the effacement of self-interest in a humanistic environment that supports	
2462	the professional development of physicians	
2463		
2464	\circ the joy of curiosity, problem-solving, intellectual rigor, and discovery	
2465		
2466	 Commitment to the well-being of the students, residents, faculty members, and 	
2467	all members of the health care team	
2468		-

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.

2469 2470 VI.A. Patient Safety, Quality Improvement, Supervision, and Accountability 2471 2472 VI.A.1. Patient Safety and Quality Improvement 2473 2474 All physicians share responsibility for promoting patient safety and 2475 enhancing quality of patient care. Graduate medical education must 2476 prepare residents to provide the highest level of clinical care with 2477 continuous focus on the safety, individual needs, and humanity of their patients. It is the right of each patient to be cared for by 2478 2479 residents who are appropriately supervised; possess the requisite 2480 knowledge, skills, and abilities; understand the limits of their

2481		knowledge and experience; and seek assistance as required to	
2482		provide optimal patient care.	
2483		Desidents must demonstrate the shility to such me the same they.	
2484		Residents must demonstrate the ability to analyze the care they	
2485 2486		provide, understand their roles within health care teams, and play an active role in system improvement processes. Graduating residents	
2460 2487			
2487		and effect quality improvement measures.	
2489		and enect quanty improvement measures.	
2490		It is necessary for residents and faculty members to consistently	
2491		work in a well-coordinated manner with other health care	
2492		professionals to achieve organizational patient safety goals.	
2493			
2494	VI.A.1.a)	Patient Safety	
2495		-	
2496	VI.A.1.a).(1)	Culture of Safety	
2497			
2498		A culture of safety requires continuous identification	
2499		of vulnerabilities and a willingness to transparently	
2500		deal with them. An effective organization has formal	
2501		mechanisms to assess the knowledge, skills, and	
2502 2503		attitudes of its personnel toward safety in order to	
2503 2504		identify areas for improvement.	
2504 2505	VI.A.1.a).(1).(a)	The program, its faculty, residents, and fellows	
2506	•1.A. 1.a).(1).(a)	must actively participate in patient safety	
2507		systems and contribute to a culture of safety.	
2508		(Core)	
2509			
2510	VI.A.1.a).(1).(b)	The program must have a structure that	
2511		promotes safe, interprofessional, team-based	
2512		care. ^(Core)	
2513			
2514	VI.A.1.a).(2)	Education on Patient Safety	
2515		Due surgers and surgeride formed a due of is not a stimities	
2516 2517		Programs must provide formal educational activities	
2517		that promote patient safety-related goals, tools, and techniques. ^(Core)	
2518		techniques.	
Background and Intent: Optimal patient safety occurs in the setting of a coordinated interprofessional learning and working environment.			
2520	· · ·		
2521	VI.A.1.a).(3)	Patient Safety Events	
2522			
2523		Reporting, investigation, and follow-up of adverse	
2524		events, near misses, and unsafe conditions are pivotal	
2525		mechanisms for improving patient safety, and are	
2526		essential for the success of any patient safety	
2527		program. Feedback and experiential learning are	
2528		essential to developing true competence in the ability	
2529		to identify causes and institute sustainable systems-	

2530 2531 2532		based changes to ameliorate patient safety vulnerabilities.
2533 2534 2535	VI.A.1.a).(3).(a)	Residents, fellows, faculty members, and other clinical staff members must:
2536 2537 2538 2539	VI.A.1.a).(3).(a).(i)	know their responsibilities in reporting patient safety events at the clinical site; (Core)
2540 2541 2542 2543	VI.A.1.a).(3).(a).(ii)	know how to report patient safety events, including near misses, at the clinical site; and, ^(Core)
2544 2545 2546 2547	VI.A.1.a).(3).(a).(iii)	be provided with summary information of their institution's patient safety reports. ^(Core)
2548 2549 2550 2551 2552 2553 2554	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)
2555 2556 2557 2558	VI.A.1.a).(4)	Resident Education and Experience in Disclosure of Adverse Events Patient-centered care requires patients, and when
2559 2560 2561 2562 2563		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.
2564 2565 2566 2567	VI.A.1.a).(4).(a)	All residents must receive training in how to disclose adverse events to patients and families. ^(Core)
2568 2569 2570 2571 2572 2573 2574 2575	VI.A.1.a).(4).(b)	Residents should have the opportunity to participate in the disclosure of patient safety events, real or simulated. ^(Detail)
	VI.A.1.b)	Quality Improvement
	VI.A.1.b).(1)	Education in Quality Improvement
2573 2576 2577 2578 2579 2580		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.

2581 2582 2583 2584	VI.A.1.b).(1).(a)	Residents must receive training and experience in quality improvement processes, including an understanding of health care disparities. ^(Core)
2585 2586	VI.A.1.b).(2)	Quality Metrics
2587 2588 2589 2590		Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts.
2591 2592 2593 2594	VI.A.1.b).(2).(a)	Residents and faculty members must receive data on quality metrics and benchmarks related to their patient populations. ^(Core)
2595 2596	VI.A.1.b).(3)	Engagement in Quality Improvement Activities
2597 2598 2599 2600		Experiential learning is essential to developing the ability to identify and institute sustainable systems-based changes to improve patient care.
2600 2601 2602 2603 2604	VI.A.1.b).(3).(a)	Residents must have the opportunity to participate in interprofessional quality improvement activities. ^(Core)
2605 2606 2607	VI.A.1.b).(3).(a).(i)	This should include activities aimed at reducing health care disparities. ^(Detail)
2607 2608 2609	VI.A.2.	Supervision and Accountability
2610 2611 2612 2613 2614 2615 2616 2616 2617 2618	VI.A.2.a)	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.
2619 2620 2621 2622 2623		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.
2624 2625 2626 2627 2628 2629 2630 2631	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. (Core)

2632 2633 2634 2635	VI.A.2.a).(1).(a)	This information must be available to residents, faculty members, other members of the health care team, and patients. ^(Core)
2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651	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. ^(Core)
	VI.A.2.b)	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.
	Background and Intent: 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 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.	
2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2664 2665 2666 2667 2668 2669 2669 2670 2671 2672 2673	VI.A.2.b).(1)	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. ^(Core)
	VI.A.2.b).(2)	The program must define when physical presence of a supervising physician is required. ^(Core)
	VI.A.2.c)	Levels of Supervision
		To promote appropriate resident supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: ^(Core)
	VI.A.2.c).(1)	Direct Supervision:
	VI.A.2.c).(1).(a)	the supervising physician is physically present with the resident during the key portions of the patient interaction; or, ^(Core)

2674 2675 2676 2677	VI.A.2.c).(1).(a).(i)	PGY-1 residents must initially be supervised directly, only as described in VI.A.2.c).(1).(a). ^(Core)
2678 2679 2680 2681 2682 2683 2683	VI.A.2.c).(1).(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. ^(Core)
2685 2686 2687 2688 2688 2689	VI.A.2.c).(1).(b).(i)	The program must have clear guidelines that delineate which competencies must be demonstrated to determine when a resident can progress to indirect supervision. (Core)
2690 2691 2692 2693 2694 2695	VI.A.2.c).(1).(b).(ii)	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. (Core)
2696 2697 2698 2699 2700 2701	VI.A.2.c).(2)	Indirect Supervision: the supervising physician is not providing physical or concurrent visual or audio supervision but is immediately available to the resident for guidance and is available to provide appropriate direct supervision. ^(Core)
2702 2703 2704 2705	VI.A.2.c).(3)	Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. ^(Core)
2706 2707 2708 2709 2710	VI.A.2.d)	The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each resident must be assigned by the program director and faculty members. ^(Core)
2711 2712 2713 2714	VI.A.2.d).(1)	The program director must evaluate each resident's abilities based on specific criteria, guided by the Milestones. ^(Core)
2715 2716 2717 2718 2719	VI.A.2.d).(2)	Faculty members functioning as supervising physicians must delegate portions of care to residents based on the needs of the patient and the skills of each resident. ^(Core)
2720 2721 2722 2723 2724	VI.A.2.d).(3)	Senior residents or fellows should serve in a supervisory role to junior residents in recognition of their progress toward independence, based on the needs of each patient and the skills of the individual resident or fellow. ^(Detail)

VI.A.2.e)	Programs must set guidelines for circumstances and even in which residents must communicate with the supervising faculty member(s). ^(Core)
VI.A.2.e).(1)	Each resident must know the limits of their scope o authority, and the circumstances under which the resident is permitted to act with conditional independence. ^(Outcome)
•	d and Intent: The ACGME Glossary of Terms defines conditional ace as: Graded, progressive responsibility for patient care with defined
VI.A.2.f)	Faculty supervision assignments must be of sufficient duration to assess the knowledge and skills of each reside and to delegate to the resident the appropriate level of pat care authority and responsibility. ^(Core)
VI.B.	Professionalism
VI.B.1.	Programs, in partnership with their Sponsoring Institutions, must educate residents and faculty members concerning the professio responsibilities of physicians, including their obligation to be appropriately rested and fit to provide the care required by their patients. ^(Core)
VI.B.2.	The learning objectives of the program must:
VI.B.2.a)	be accomplished through an appropriate blend of supervis patient care responsibilities, clinical teaching, and didactio educational events; ^(Core)
VI.B.2.b)	be accomplished without excessive reliance on residents t fulfill non-physician obligations; and, ^(Core)
increases w experience. performed k staff. Examp for procedu routine mor scheduling. things on o	d and Intent: Routine reliance on residents to fulfill non-physician obligation ork compression for residents and does not provide an optimal education Non-physician obligations are those duties which in most institutions are by nursing and allied health professionals, transport services, or clerical ples of such obligations include transport of patients from the wards or un res elsewhere in the hospital; routine blood drawing for laboratory tests; nitoring of patients when off the ward; and clerical duties, such as While it is understood that residents may be expected to do any of these ccasion when the need arises, these activities should not be performed by putinely and must be kept to a minimum to optimize resident education.
VI.B.2.c)	ensure manageable patient care responsibilities. ^(Core)

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. 2761 2762 VI.B.3. The program director, in partnership with the Sponsoring Institution, 2763 must provide a culture of professionalism that supports patient safety and personal responsibility. (Core) 2764 2765 2766 VI.B.4. Residents and faculty members must demonstrate an understanding of their personal role in the: 2767 2768 provision of patient- and family-centered care; (Outcome) 2769 VI.B.4.a) 2770 2771 VI.B.4.b) safety and welfare of patients entrusted to their care, including the ability to report unsafe conditions and adverse 2772 events: (Outcome) 2773 2774 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. 2775 assurance of their fitness for work, including: (Outcome) 2776 VI.B.4.c) 2777 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. 2778 2779 VI.B.4.c).(1) management of their time before, during, and after clinical assignments; and, (Outcome) 2780 2781 recognition of impairment, including from illness, 2782 VI.B.4.c).(2) 2783 fatigue, and substance use, in themselves, their peers, and other members of the health care team. (Outcome) 2784 2785 commitment to lifelong learning; (Outcome) 2786 VI.B.4.d) 2787 monitoring of their patient care performance improvement 2788 VI.B.4.e) indicators; and, (Outcome) 2789 2790 2791 VI.B.4.f) accurate reporting of clinical and educational work hours, patient outcomes, and clinical experience data. (Outcome) 2792 2793

2794 2795 2796 2797 2798 2799	VI.B.5.	All residents and faculty members must demonstrate responsiveness to patient needs that supersedes self-interest. This includes the recognition that under certain circumstances, the best interests of the patient may be served by transitioning that patient's care to another qualified and rested provider. ^(Outcome)
2800 2801 2802 2803 2804 2805	VI.B.6.	Programs, in partnership with their Sponsoring Institutions, must provide a professional, equitable, respectful, and civil environment that is free from discrimination, sexual and other forms of harassment, mistreatment, abuse, or coercion of students, residents, faculty, and staff. ^(Core)
2805 2806 2807 2808 2809 2810	VI.B.7.	Programs, in partnership with their Sponsoring Institutions, should have a process for education of residents and faculty regarding unprofessional behavior and a confidential process for reporting, investigating, and addressing such concerns. ^(Core)
2811	VI.C.	Well-Being
2812		
2813		Psychological, emotional, and physical well-being are critical in the
2814 2815		development of the competent, caring, and resilient physician and require proactive attention to life inside and outside of medicine. Well-being
2816		requires that physicians retain the joy in medicine while managing their
2817		own real-life stresses. Self-care and responsibility to support other
2818		members of the health care team are important components of
2819		professionalism; they are also skills that must be modeled, learned, and
2820		nurtured in the context of other aspects of residency training.
2821		
2822		Residents and faculty members are at risk for burnout and depression.
2823		Programs, in partnership with their Sponsoring Institutions, have the same
2824		responsibility to address well-being as other aspects of resident
2825		competence. Physicians and all members of the health care team share
2826		responsibility for the well-being of each other. For example, a culture which
2827		encourages covering for colleagues after an illness without the expectation
2828		of reciprocity reflects the ideal of professionalism. A positive culture in a
2829		clinical learning environment models constructive behaviors, and prepares
2830		residents with the skills and attitudes needed to thrive throughout their
2831		careers.
2832		

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

VI.C.1.	The responsibility of the program, in partnership with the Sponsoring Institution, to address well-being must include:
VI.C.1.a)	efforts to enhance the meaning that each resident finds i experience of being a physician, including protecting tim with patients, minimizing non-physician obligations, providing administrative support, promoting progressive autonomy and flexibility, and enhancing professional relationships; ^(Core)
VI.C.1.b)	attention to scheduling, work intensity, and work compression that impacts resident well-being; ^(Core)
VI.C.1.c)	evaluating workplace safety data and addressing the safe residents and faculty members; ^(Core)
Sponsoring In monitor and el Issues to be a	nd Intent: This requirement emphasizes the responsibility shared by the stitution and its programs to gather information and utilize systems the nhance resident and faculty member safety, including physical safety. ddressed include, but are not limited to, monitoring of workplace injurnotional violence, vehicle collisions, and emotional well-being after s.
VI.C.1.d)	policies and programs that encourage optimal resident a faculty member well-being; and, ^(Core)
family and frie	nd Intent: Well-being includes having time away from work to engage nds, as well as to attend to personal needs and to one's own health, quate rest, healthy diet, and regular exercise.
VI.C.1.d).(1)	Residents must be given the opportunity to attend medical, mental health, and dental care appointme including those scheduled during their working he (Core)
Background and Intent: The intent of this requirement is to ensure that residents the opportunity to access medical and dental care, including mental health care, 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.	
VI.C.1.e)	attention to resident and faculty member burnout, depression, and substance use disorders. The program, partnership with its Sponsoring Institution, must educate faculty members and residents in identification of the

2867 2868 2869 2870 2871	be ee how	e conditions. Residents and faculty members must also ducated to recognize those symptoms in themselves and to seek appropriate care. The program, in partnership its Sponsoring Institution, must: ^(Core)	
	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 (<u>http://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being</u>).		
2872 2873 2874 2875 2876 2877 2878 2879 2880	VI.C.1.e).(1)	encourage residents and faculty members to alert the program director or other designated personnel or programs when they are concerned that another resident, fellow, or faculty member may be displaying signs of burnout, depression, a substance use disorder, suicidal ideation, or potential for violence; (Core)	
	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.		
2881 2882 2883 2884 2885 2886 2887 2888 2889	VI.C.1.e).(2)	provide access to appropriate tools for self-screening; and, ^(Core)	
	VI.C.1.e).(3)	provide access to confidential, affordable mental health assessment, counseling, and treatment, including access to urgent and emergent care 24 hours a day, seven days a week. ^(Core)	
	immediate access at all times to psychologist, Licensed Clinical Practitioner, or Licensed Profes issues. In-person, telemedicine,	ent of this requirement is to ensure that residents have a mental health professional (psychiatrist, Social Worker, Primary Mental Health Nurse sional Counselor) for urgent or emergent mental health or telephonic means may be utilized to satisfy this ency Department may be necessary in some cases, but s to meet the requirement.	

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

VI.C.2.	There are circumstances in which residents may be unable to an work, including but not limited to fatigue, illness, family emergencies, and parental leave. Each program must allow an appropriate length of absence for residents unable to perform the
	patient care responsibilities. ^(Core)
VI.C.2.a)	The program must have policies and procedures in place ensure coverage of patient care. ^(Core)
VI.C.2.b)	These policies must be implemented without fear of nega consequences for the resident who is or was unable to provide the clinical work. ^(Core)
dependin	and and Intent: Residents may need to extend their length of training g on length of absence and specialty board eligibility requirements. es should assist colleagues in need and equitably reintegrate them upon
dependin Teammat return.	g on length of absence and specialty board eligibility requirements.
dependin Teammat	g on length of absence and specialty board eligibility requirements. es should assist colleagues in need and equitably reintegrate them upon
dependin Teammat return. VI.D.	g on length of absence and specialty board eligibility requirements. es should assist colleagues in need and equitably reintegrate them upon Fatigue Mitigation
dependin Teammat <u>return.</u> VI.D. VI.D.1.	g on length of absence and specialty board eligibility requirements. es should assist colleagues in need and equitably reintegrate them upon Fatigue Mitigation Programs must: educate all faculty members and residents to recognize tl

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.

2937 2938 2939		npression. Teamwork
	that work Faculty n environm Committe essential	and and Intent: The changing clinical care environment of medicine has meant a compression due to high complexity has increased stress on residents. members and program directors need to make sure residents function in an ment that has safe patient care and a sense of resident well-being. Some Review ees have addressed this by setting limits on patient admissions, and it is an responsibility of the program director to monitor resident workload. Workload e distributed among the resident team and interdisciplinary teams to minimize
2933 2934 2935 2936		The clinical responsibilities for each resident must be based on PGY level, patient safety, resident ability, severity and complexity of patient illness/condition, and available support services. ^(Core)
2930 2931 2932	VI.E.1.	Clinical Responsibilities
2928 2929 2930	VI.E.	Clinical Responsibilities, Teamwork, and Transitions of Care
2925 2926 2927	VI.D.3.	The program, in partnership with its Sponsoring Institution, must ensure adequate sleep facilities and safe transportation options for residents who may be too fatigued to safely return home. ^(Core)
2922 2923 2924		VI.C.2.b), in the event that a resident may be unable to perform their patient care responsibilities due to excessive fatigue. ^(Core)
2919 2920 2921	VI.D.2.	Each program must ensure continuity of patient care, consistent with the program's policies and procedures referenced in VI.C.2–

2938 2939	VI.E.2.	Teamwork
2940		Residents must care for patients in an environment that maximizes
2941		communication. This must include the opportunity to work as a
2942		member of effective interprofessional teams that are appropriate to
2943		the delivery of care in the specialty and larger health system. (Core)
2944		
2945	VI.E.3.	Transitions of Care
2946		
2947	VI.E.3.a)	Programs must design clinical assignments to optimize
2948		transitions in patient care, including their safety, frequency,
2949		and structure. ^(Core)
2950		
2951	VI.E.3.b)	Programs, in partnership with their Sponsoring Institutions,
2952		must ensure and monitor effective, structured hand-over
2953		processes to facilitate both continuity of care and patient
2954		safety. ^(Core)
2955		
2956	VI.E.3.c)	Programs must ensure that residents are competent in
2957		communicating with team members in the hand-over process
2958		(outcome)

2959 2960	VI.E.3.d)	Programs and clinical sites must maintain and communicate
2961 2962 2963		schedules of attending physicians and residents currently responsible for care. ^(Core)
2964 2965 2966 2967 2968 2969	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. ^(Core)
2970 2971	VI.F.	Clinical Experience and Education
2972 2973 2974 2975 2976		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.
	education replace th made in re number of	nd and Intent: In the new requirements, the terms "clinical experience and ," "clinical and educational work," and "clinical and educational work hours" e terms "duty hours," "duty periods," and "duty." These changes have been esponse to concerns that the previous use of the term "duty" in reference to f hours worked may have led some to conclude that residents' duty to "clock me superseded their duty to their patients.
2977 2978 2979	VI.F.1.	Maximum Hours of Clinical and Educational Work per Week
2979 2980 2981 2982 2983 2984		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. ^(Core)
2004	that the 80 written wit periods to	nd and Intent: Programs and residents have a shared responsibility to ensure D-hour maximum weekly limit is not exceeded. While the requirement has been th the intent of allowing residents to remain beyond their scheduled work care for a patient or participate in an educational activity, these additional st be accounted for in the allocated 80 hours when averaged over four weeks.
	of 80 hour required to week perio still permi the 80-hou requireme to work fe their sche Programs	g ACGME acknowledges that, on rare occasions, a resident may work in excess is in a given week, all programs and residents utilizing this flexibility will be o adhere to the 80-hour maximum weekly limit when averaged over a four- od. Programs that regularly schedule residents to work 80 hours per week and t residents to remain beyond their scheduled work period are likely to exceed ar maximum, which would not be in substantial compliance with the ent. These programs should adjust schedules so that residents are scheduled wer than 80 hours per week, which would allow residents to remain beyond duled work period when needed without violating the 80-hour requirement. may wish to consider using night float and/or making adjustments to the 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 80hour 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.

VI.F.2.	Mandatory Time Free of Clinical Work and Education
VI.F.2.a)	The program must design an effective program structure is configured to provide residents with educational opportunities, as well as reasonable opportunities for res and personal well-being. ^(Core)
VI.F.2.b)	Residents should have eight hours off between schedule clinical work and education periods. ^(Detail)
VI.F.2.b).(1)	There may be circumstances when residents choo to stay to care for their patients or return to the hospital with fewer than eight hours free of clinica experience and education. This must occur within context of the 80-hour and the one-day-off-in-seve requirements. ^(Detail)
scheduled wor their schedule a patient. The It is also noted for scheduling as it would be	sidents are provided with a minimum of eight hours off between of periods, it is recognized that residents may choose to remain beyon d time, or return to the clinical site during this time-off period, to care requirement preserves the flexibility for residents to make those choic I that the 80-hour weekly limit (averaged over four weeks) is a deterrent fewer than eight hours off between clinical and education work period difficult for a program to design a schedule that provides fewer than e
	out violating the 80-hour rule.
VI.F.2.c)	but violating the 80-hour rule. Residents must have at least 14 hours free of clinical wor and education after 24 hours of in-house call. ^(Core)
Background at thus are expected	Residents must have at least 14 hours free of clinical wor
thus are expec	Residents must have at least 14 hours free of clinical wor and education after 24 hours of in-house call. ^(Core) nd Intent: Residents have a responsibility to return to work rested, and ted to use this time away from work to get adequate rest. In support o

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."

3014VI.F.3.Maximum Clinical Work and Education Period Length301530153016VI.F.3.a)Clinical and educational work periods for residents must not
exceed 24 hours of continuous scheduled clinical

assignments. (Core)

3017 3018

3019

3013

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 frequentlycited 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.

3020

3021 3022 3023 3024 3025	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)
3025 3026 3027 3028	VI.F.3.a).(1).(a)	Additional patient care responsibilities must not be assigned to a resident during this time. ^(Core)
	used for the care a member of the resident fatigue,	Intent: The additional time referenced in VI.F.3.a).(1) should not be e of new patients. It is essential that the resident continue to function as team in an environment where other members of the team can assess and that supervision for post-call residents is provided. This 24 hours litional four hours must occur within the context of 80-hour weekly limit, our weeks.
3029 3030 3031	VI.F.4.	Clinical and Educational Work Hour Exceptions
3032 3033 3034 3035 3036	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:
3037 3038 3039	VI.F.4.a).(1)	to continue to provide care to a single severely ill or unstable patient; ^(Detail)
3040 3041 3042	VI.F.4.a).(2)	humanistic attention to the needs of a patient or family; or, ^(Detail)
3042 3043 3044	VI.F.4.a).(3)	to attend unique educational events. (Detail)
3045 3046 3047	VI.F.4.b)	These additional hours of care or education will be counted toward the 80-hour weekly limit. ^(Detail)
	control over thei scheduled respondent note that a reside in the day, only i stay. Programs a clinical educatio resident and that	Intent: This requirement is intended to provide residents with some r schedules by providing the flexibility to voluntarily remain beyond the onsibilities under the circumstances described above. It is important to ent may remain to attend a conference, or return for a conference later f the decision is made voluntarily. Residents must not be required to allowing residents to remain or return beyond the scheduled work and n period must ensure that the decision to remain is initiated by the t residents are not coerced. This additional time must be counted bur maximum weekly limit.
3048 3049 3050 3051 3052	VI.F.4.c)	A Review Committee may grant rotation-specific exceptions for up to 10 percent or a maximum of 88 clinical and educational work hours to individual programs based on a sound educational rationale.
3053 3054 3055		The Review Committee for Radiology will not consider requests for exceptions to the 80-hour limit to the residents' work week.

VI.F.5.	Moonlighting
VI.F.5.a)	Moonlighting must not interfere with the ability of the reside to achieve the goals and objectives of the educational program, and must not interfere with the resident's fitness work nor compromise patient safety. ^(Core)
VI.F.5.b)	Time spent by residents in internal and external moonlighti (as defined in the ACGME Glossary of Terms) must be counted toward the 80-hour maximum weekly limit. ^(Core)
VI.F.5.c)	PGY-1 residents are not permitted to moonlight. (Core)
moonlighting	and Intent: For additional clarification of the expectations related to please refer to the Common Program Requirement FAQs (available at gme.org/What-We-Do/Accreditation/Common-Program-Requirements).
VI.F.6.	In-House Night Float
	Night float must occur within the context of the 80-hour and one- day-off-in-seven requirements. ^(Core)
	and Intent: The requirement for no more than six consecutive nights of s removed to provide programs with increased flexibility in scheduling.
night float wa	s removed to provide programs with increased flexibility in scheduling.
night float wa VI.F.7.	s removed to provide programs with increased flexibility in scheduling. Maximum In-House On-Call Frequency Residents must be scheduled for in-house call no more frequently than every third night (when averaged over a four-week period). ^{(C}
night float wa VI.F.7. VI.F.8.	s removed to provide programs with increased flexibility in scheduling. Maximum In-House On-Call Frequency Residents must be scheduled for in-house call no more frequently than every third night (when averaged over a four-week period). ^{(C} At-Home Call Time spent on patient care activities by residents on at-hor call must count toward the 80-hour maximum weekly limit. The frequency of at-home call is not subject to the every- third-night limitation, but must satisfy the requirement for o day in seven free of clinical work and education, when

done from home when a resident is taking at-home call must count toward the 80-hour maximum weekly limit. This change acknowledges the often significant amount of time

residents devote to clinical activities when taking at-home call, and ensures that taking at-home call does not result in residents routinely working more than 80 hours per week. At-home call activities that must be counted include responding to phone calls and other forms of communication, as well as documentation, such as entering notes in an electronic health record. Activities such as reading about the next day's case, studying, or research activities do not count toward the 80-hour weekly limit.

In their evaluation of residency/fellowship programs, Review Committees will look at the overall impact of at-home call on resident/fellow rest and personal time.

3098 3099

- *Core Requirements: Statements that define structure, resource, or process elements
 essential to every graduate medical educational program.
- [†]Detail Requirements: Statements that describe a specific structure, resource, or process, for
 achieving compliance with a Core Requirement. Programs and sponsoring institutions in
 substantial compliance with the Outcome Requirements may utilize alternative or innovative
 approaches to meet Core Requirements.
- 3108 [‡]Outcome Requirements: Statements that specify expected measurable or observable
 3109 attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their
 3110 graduate medical education.
- 3111

3112 Osteopathic Recognition

- 3113 For programs with or applying for Osteopathic Recognition, the Osteopathic Recognition
- 3114 Requirements also apply (<u>www.acgme.org/OsteopathicRecognition</u>).