

**ACGME Program Requirements for  
Graduate Medical Education  
in Musculoskeletal Radiology  
(Subspecialty of Radiology)**

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

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

5  
6 Where applicable, text in italics describes the underlying philosophy of the requirements in that  
7 section. These philosophic statements are not program requirements and are therefore not  
8 citable.  
9

**Background and Intent: These fellowship requirements reflect the fact that these learners have already completed the first phase of graduate medical education. Thus, the Common Program Requirements (Fellowship) are intended to explain the differences.**

10  
11 **Introduction**

12  
13 **Int.A.**       *Fellowship is advanced graduate medical education beyond a core*  
14 *residency program for physicians who desire to enter more specialized*  
15 *practice. Fellowship-trained physicians serve the public by providing*  
16 *subspecialty care, which may also include core medical care, acting as a*  
17 *community resource for expertise in their field, creating and integrating*  
18 *new knowledge into practice, and educating future generations of*  
19 *physicians. Graduate medical education values the strength that a diverse*  
20 *group of physicians brings to medical care.*

21  
22 *Fellows who have completed residency are able to practice independently*  
23 *in their core specialty. The prior medical experience and expertise of*  
24 *fellows distinguish them from physicians entering into residency training.*  
25 *The fellow's care of patients within the subspecialty is undertaken with*  
26 *appropriate faculty supervision and conditional independence. Faculty*  
27 *members serve as role models of excellence, compassion,*  
28 *professionalism, and scholarship. The fellow develops deep medical*  
29 *knowledge, patient care skills, and expertise applicable to their focused*  
30 *area of practice. Fellowship is an intensive program of subspecialty clinical*  
31 *and didactic education that focuses on the multidisciplinary care of*  
32 *patients. Fellowship education is often physically, emotionally, and*  
33 *intellectually demanding, and occurs in a variety of clinical learning*  
34 *environments committed to graduate medical education and the well-being*  
35 *of patients, residents, fellows, faculty members, students, and all members*  
36 *of the health care team.*

37  
38 *In addition to clinical education, many fellowship programs advance*  
39 *fellows' skills as physician-scientists. While the ability to create new*  
40 *knowledge within medicine is not exclusive to fellowship-educated*  
41 *physicians, the fellowship experience expands a physician's abilities to*  
42 *pursue hypothesis-driven scientific inquiry that results in contributions to*  
43 *the medical literature and patient care. Beyond the clinical subspecialty*  
44 *expertise achieved, fellows develop mentored relationships built on an*  
45 *infrastructure that promotes collaborative research.*

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47 **Int.B.**       **Definition of Subspecialty**

- 48  
49 Int.B.1. Diagnostic radiology subspecialty fellowship programs are designed to  
50 develop advanced knowledge and skills in a specific clinical area. The  
51 program design and/or structure must be approved by the Residency  
52 Review Committee as part of the regular review process.  
53  
54 Int.B.2. The musculoskeletal radiology fellowship program constitutes a closely  
55 supervised experience in the application and interpretation of all imaging  
56 examinations and procedures as they relate to the analysis of disorders of  
57 the musculoskeletal system, including bones, joints, and soft tissues. The  
58 imaging methods and procedures include routine radiography, computed  
59 tomography, ultrasonography, radionuclide scintigraphy/PET, magnetic  
60 resonance, arthrography, bone mineral density studies and diagnostic  
61 and therapeutic injections as well as image-guided percutaneous biopsy  
62 techniques. Fellowships in musculoskeletal radiology provide an  
63 organized, comprehensive, supervised, and progressively responsible  
64 full-time educational experience in the selection, interpretation, and  
65 performance of these examinations and procedures. A further objective is  
66 to provide fellows an opportunity to develop skills necessary for clinical  
67 and/or basic research in the subspecialty of musculoskeletal radiology.  
68

69 **Int.C. Length of Educational Program**

70  
71 The educational program in diagnostic radiology subspecialties must be at least  
72 12 months in length. <sup>(Core)\*</sup>  
73

74 **I. Oversight**

75  
76 **I.A. Sponsoring Institution**

77  
78 *The Sponsoring Institution is the organization or entity that assumes the*  
79 *ultimate financial and academic responsibility for a program of graduate*  
80 *medical education consistent with the ACGME Institutional Requirements.*

81  
82 *When the Sponsoring Institution is not a rotation site for the program, the*  
83 *most commonly utilized site of clinical activity for the program is the*  
84 *primary clinical site.*  
85

**Background and Intent: Participating sites will reflect the health care needs of the community and the educational needs of the fellows. 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.**

- 86  
87 **I.A.1. The program must be sponsored by one ACGME-accredited**  
88 **Sponsoring Institution. <sup>(Core)</sup>**  
89

- 90 **I.B. Participating Sites**  
91  
92 *A participating site is an organization providing educational experiences or*  
93 *educational assignments/rotations for fellows.*  
94  
95 **I.B.1. The program, with approval of its Sponsoring Institution, must**  
96 **designate a primary clinical site. <sup>(Core)</sup>**  
97  
98 I.B.1.a) Close cooperation between the fellowship and residency program  
99 director is required. <sup>(Detail)†</sup>  
100  
101 I.B.1.b) There should be ACGME-accredited programs in orthopaedic  
102 surgery and rheumatology. <sup>(Core)</sup>  
103  
104 **I.B.2. There must be a program letter of agreement (PLA) between the**  
105 **program and each participating site that governs the relationship**  
106 **between the program and the participating site providing a required**  
107 **assignment. <sup>(Core)</sup>**  
108  
109 **I.B.2.a) The PLA must:**  
110  
111 **I.B.2.a).(1) be renewed at least every 10 years; and, <sup>(Core)</sup>**  
112  
113 **I.B.2.a).(2) be approved by the designated institutional official**  
114 **(DIO). <sup>(Core)</sup>**  
115  
116 **I.B.3. The program must monitor the clinical learning and working**  
117 **environment at all participating sites. <sup>(Core)</sup>**  
118  
119 **I.B.3.a) At each participating site there must be one faculty member,**  
120 **designated by the program director, who is accountable for**  
121 **fellow education for that site, in collaboration with the**  
122 **program director. <sup>(Core)</sup>**  
123

**Background and Intent: While all fellowship programs must be sponsored by a single ACGME-accredited Sponsoring Institution, many programs will utilize other clinical settings to provide required or elective training experiences. At times it is appropriate to utilize community sites that are not owned by or affiliated with the Sponsoring Institution. Some of these sites may be remote for geographic, transportation, or communication issues. When utilizing such sites, the program must designate a faculty member responsible for ensuring the quality of the educational experience. In some circumstances, the person charged with this responsibility may not be physically present at the site, but remains responsible for fellow education occurring at the site. The requirements under I.B.3. are intended to ensure that this will be the case.**

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

- **Identifying the faculty members who will assume educational and supervisory responsibility for fellows**
- **Specifying the responsibilities for teaching, supervision, and formal evaluation of fellows**

- Specifying the duration and content of the educational experience
- Stating the policies and procedures that will govern fellow education during the assignment

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**I.B.4.** The program director must submit any additions or deletions of participating sites routinely providing an educational experience, required for all fellows, of one month full time equivalent (FTE) or more through the ACGME’s Accreditation Data System (ADS). <sup>(Core)</sup>

**I.C.** The program, in partnership with its Sponsoring Institution, must engage in practices that focus on mission-driven, ongoing, systematic recruitment and retention of a diverse and inclusive workforce of residents (if present), fellows, faculty members, senior administrative staff members, and other relevant members of its academic community. <sup>(Core)</sup>

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

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**I.D. Resources**

**I.D.1.** The program, in partnership with its Sponsoring Institution, must ensure the availability of adequate resources for fellow education. <sup>(Core)</sup>

I.D.1.a) The program must have appropriate facilities and space for the education of the fellows. <sup>(Core)</sup>

I.D.1.a).(1) There must be adequate study space, conference space, and access to computers. <sup>(Detail)</sup>

I.D.1.b) Access to routine radiographic, computed tomographic, scintigraphic, magnetic resonance, and ultrasound equipment must be provided. Adequate space for image display, interpretation, and consultation with referring physicians must be available. <sup>(Core)</sup>

**I.D.2.** The program, in partnership with its Sponsoring Institution, must ensure healthy and safe learning and working environments that promote fellow well-being and provide for: <sup>(Core)</sup>

**I.D.2.a)** access to food while on duty; <sup>(Core)</sup>

**I.D.2.b)** safe, quiet, clean, and private sleep/rest facilities available and accessible for fellows with proximity appropriate for safe patient care; <sup>(Core)</sup>

**Background and Intent: Care of patients within a hospital or health system occurs continually through the day and night. Such care requires that fellows 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 fellows are working. Fellows should have access to refrigeration where food may be stored. Food should be available when fellows are required to be in the hospital overnight. Rest facilities are necessary, even when overnight call is not required, to accommodate the fatigued fellow.**

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

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

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

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

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

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

- I.D.4.a) Fellows must be provided access to a variety of patients encompassing the entire range of disorders of the musculoskeletal system, including articular, degenerative, metabolic, hematopoietic, infectious, traumatic, vascular, congenital, and neoplastic diseases. The imaging methods and procedures available for education should include routine radiography, computed tomography, ultrasonography, bone mineral density, radionuclide scintigraphy, magnetic resonance, arthrography, diagnostic/therapeutic injections, and image-guided percutaneous biopsy techniques. (Core)**

- I.D.4.b) Access to both inpatients and outpatients is required. (Core)**

198 I.E. ***A fellowship program usually occurs in the context of many learners and***  
199 ***other care providers and limited clinical resources. It should be structured***  
200 ***to optimize education for all learners present.***

202 I.E.1. **Fellows should contribute to the education of residents in core**  
203 **programs, if present. <sup>(Core)</sup>**  
204

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

205  
206 I.E.2. **Shared experiences with residents and fellows in orthopaedic surgery,**  
207 **rheumatology, pathology, and other appropriate specialties, including**  
208 **surgical subspecialties, should occur. When appropriate, supervision and**  
209 **teaching by faculty expert in these additional disciplines should be**  
210 **available. <sup>(Detail)</sup>**

211  
212 I.E.3. **The presence of other learners (including residents from other specialties**  
213 **subspecialty fellows, PhD students, and nurse practitioners) in the**  
214 **program must not interfere with the appointed fellows' education. <sup>(Detail)</sup>**

215  
216 I.E.4. **The fellows must not dilute or detract from the educational opportunities**  
217 **available to residents in the core diagnostic radiology residency program.**  
218 **<sup>(Detail)</sup>**

219  
220 I.E.5. **Lines of responsibilities for the diagnostic radiology residents and the**  
221 **subspecialty fellow must be clearly defined. <sup>(Core)</sup>**  
222

## 223 **II. Personnel**

### 224 225 **II.A. Program Director**

226  
227 **II.A.1. There must be one faculty member appointed as program director**  
228 **with authority and accountability for the overall program, including**  
229 **compliance with all applicable program requirements. <sup>(Core)</sup>**

230  
231 **II.A.1.a) The Sponsoring Institution's Graduate Medical Education**  
232 **Committee (GMEC) must approve a change in program**  
233 **director. <sup>(Core)</sup>**

234  
235 **II.A.1.b) Final approval of the program director resides with the**  
236 **Review Committee. <sup>(Core)</sup>**  
237

**Background and Intent: While the ACGME recognizes the value of input from numerous individuals in the management of a fellowship, a single individual must be designated as program director and made responsible for the program. This individual will have dedicated time for the leadership of the fellowship, and it is this individual's**

responsibility to communicate with the fellows, faculty members, DIO, GMEC, and the ACGME. The program director's nomination is reviewed and approved by the GMEC. Final approval of program directors resides with the Review Committee.

- 238  
239 **II.A.2.**                    **The program director must be provided with support adequate for**  
240 **administration of the program based upon its size and configuration.**  
241 **(Core)**  
242  
243 **II.A.2.a)**                    The program director must be provided a minimum of 0.1 FTE for  
244 programs with one to five fellows, and a minimum of 0.2 FTE for  
245 programs with greater than five fellows to administer and oversee  
246 the program. **(Core)**  
247  
248 **II.A.3.**                    **Qualifications of the program director:**  
249  
250 **II.A.3.a)**                    **must include subspecialty expertise and qualifications**  
251 **acceptable to the Review Committee;** **(Core)**  
252  
253 **II.A.3.a).(1)**                This must include post-residency experience in the  
254 subspecialty area, including fellowship training, or five  
255 years of practice experience in the subspecialty for those  
256 subspecialties in which no certification is offered. **(Core)**  
257  
258 **II.A.3.b)**                    **must include current certification in the subspecialty for**  
259 **which they are the program director by the American Board**  
260 **of Radiology, or subspecialty qualifications that are**  
261 **acceptable to the Review Committee;** **(Core)**  
262  
263 [Note that while the Common Program Requirements deem  
264 certification by a certifying board of the American Osteopathic  
265 Association (AOA) acceptable, there is no AOA board that offers  
266 certification in this subspecialty]  
267  
268 **II.A.3.c)**                    ~~must include~~ devote ~~devotion of~~ at least 80% percent of his/her  
269 professional time in musculoskeletal radiology, and devote  
270 sufficient time to fulfill all responsibilities inherent to meeting the  
271 educational goals of the program. **(Core)-(Detail)**  
272  
273 **II.A.3.d)**                    ~~must include~~ devotion of at least eight hours per week of his or her  
274 professional effort to the administrative and educational activities  
275 of the female pelvic medicine and reconstructive surgery program.  
276 **(Core)**  
277  
278 **II.A.4.**                    **Program Director Responsibilities**  
279  
280 **The program director must have responsibility, authority, and**  
281 **accountability for: administration and operations; teaching and**  
282 **scholarly activity; fellow recruitment and selection, evaluation, and**  
283 **promotion of fellows, and disciplinary action; supervision of fellows;**  
284 **and fellow education in the context of patient care.** **(Core)**  
285

- 286 **II.A.4.a) The program director must:**  
287  
288 **II.A.4.a).(1) be a role model of professionalism; (Core)**  
289

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

- 290  
291 **II.A.4.a).(2) design and conduct the program in a fashion**  
292 **consistent with the needs of the community, the**  
293 **mission(s) of the Sponsoring Institution, and the**  
294 **mission(s) of the program; (Core)**  
295

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

- 296  
297 **II.A.4.a).(3) administer and maintain a learning environment**  
298 **conducive to educating the fellows in each of the**  
299 **ACGME Competency domains; (Core)**  
300

**Background and Intent:** The program director may establish a leadership team to assist in the accomplishment of program goals. Fellowship 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.

- 301  
302 **II.A.4.a).(4) develop and oversee a process to evaluate candidates**  
303 **prior to approval as program faculty members for**  
304 **participation in the fellowship program education and**  
305 **at least annually thereafter, as outlined in V.B.; (Core)**  
306  
307 **II.A.4.a).(5) have the authority to approve program faculty**  
308 **members for participation in the fellowship program**  
309 **education at all sites; (Core)**  
310  
311 **II.A.4.a).(6) have the authority to remove program faculty**  
312 **members from participation in the fellowship program**  
313 **education at all sites; (Core)**  
314

315 II.A.4.a).(7) have the authority to remove fellows from supervising  
316 interactions and/or learning environments that do not  
317 meet the standards of the program; (Core)  
318

**Background and Intent: The program director has the responsibility to ensure that all who educate fellows effectively role model the Core Competencies. Working with a fellow 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.**

319  
320 II.A.4.a).(8) submit accurate and complete information required  
321 and requested by the DIO, GMEC, and ACGME; (Core)  
322

323 II.A.4.a).(9) provide applicants who are offered an interview with  
324 information related to the applicant's eligibility for the  
325 relevant subspecialty board examination(s); (Core)  
326

327 II.A.4.a).(10) provide a learning and working environment in which  
328 fellows have the opportunity to raise concerns and  
329 provide feedback in a confidential manner as  
330 appropriate, without fear of intimidation or retaliation;  
331 (Core)  
332

333 II.A.4.a).(11) ensure the program's compliance with the Sponsoring  
334 Institution's policies and procedures related to  
335 grievances and due process; (Core)  
336

337 II.A.4.a).(12) ensure the program's compliance with the Sponsoring  
338 Institution's policies and procedures for due process  
339 when action is taken to suspend or dismiss, not to  
340 promote, or not to renew the appointment of a fellow;  
341 (Core)  
342

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

343  
344 II.A.4.a).(13) ensure the program's compliance with the Sponsoring  
345 Institution's policies and procedures on employment  
346 and non-discrimination; (Core)  
347

348 II.A.4.a).(13).(a) Fellows must not be required to sign a non-  
349 competition guarantee or restrictive covenant.  
350 (Core)  
351

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

354  
355 **II.A.4.a).(15)** provide verification of an individual fellow's  
356 completion upon the fellow's request, within 30 days;  
357 and, <sup>(Core)</sup>  
358

**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 fellows who have previously completed the program. Fellows who leave the program prior to completion also require timely documentation of their summative evaluation.

359  
360 **II.A.4.a).(16)** obtain review and approval of the Sponsoring  
361 Institution's DIO before submitting information or  
362 requests to the ACGME, as required in the Institutional  
363 Requirements and outlined in the ACGME Program  
364 Director's Guide to the Common Program  
365 Requirements. <sup>(Core)</sup>  
366

367 **II.B. Faculty**

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

381  
382 *Faculty members ensure that patients receive the level of care expected*  
383 *from a specialist in the field. They recognize and respond to the needs of*  
384 *the patients, fellows, community, and institution. Faculty members provide*  
385 *appropriate levels of supervision to promote patient safety. Faculty*  
386 *members create an effective learning environment by acting in a*  
387 *professional manner and attending to the well-being of the fellows and*  
388 *themselves.*  
389

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

390  
391 **II.B.1.** For each participating site, there must be a sufficient number of  
392 faculty members with competence to instruct and supervise all  
393 fellows at that location. <sup>(Core)</sup>  
394

395 II.B.1.a) To ensure adequate supervision of the fellows, there must be at  
396 least one full-time faculty person available for every two fellows in  
397 the program. <sup>(Core)</sup>  
398

399 II.B.1.a).(1) If necessary, other radiologists with expertise in certain  
400 imaging methods or procedures may function at least as  
401 part-time members of the program. <sup>(Detail)</sup>  
402

403 **II.B.2. Faculty members must:**

404 **II.B.2.a) be role models of professionalism;** <sup>(Core)</sup>

405 **II.B.2.b) demonstrate commitment to the delivery of safe, quality,**  
406 **cost-effective, patient-centered care;** <sup>(Core)</sup>  
407  
408  
409

**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.**

410 **II.B.2.c) demonstrate a strong interest in the education of fellows;** <sup>(Core)</sup>  
411

412 **II.B.2.d) devote sufficient time to the educational program to fulfill**  
413 **their supervisory and teaching responsibilities;** <sup>(Core)</sup>  
414

415 **II.B.2.e) administer and maintain an educational environment**  
416 **conducive to educating fellows;** <sup>(Core)</sup>  
417

418 **II.B.2.f) regularly participate in organized clinical discussions,**  
419 **rounds, journal clubs, and conferences; and,** <sup>(Core)</sup>  
420

421 **II.B.2.g) pursue faculty development designed to enhance their skills**  
422 **at least annually.** <sup>(Core)</sup>  
423  
424

**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 fellowship program faculty in the aggregate.**

425 **II.B.3. Faculty Qualifications**

426 **II.B.3.a) Faculty members must have appropriate qualifications in**  
427 **their field and hold appropriate institutional appointments.**  
428 <sup>(Core)</sup>  
429

430 **II.B.3.b) Subspecialty physician faculty members must:**  
431  
432  
433

434 **II.B.3.b).(1)** **have current certification in the subspecialty by the**  
435 **American Board of Radiology, or possess**  
436 **qualifications judged acceptable to the Review**  
437 **Committee.** <sup>(Core)</sup>

438  
439 [Note that while the Common Program Requirements  
440 deem certification by a certifying board of the American  
441 Osteopathic Association (AOA) acceptable, there is no  
442 AOA board that offers certification in this subspecialty]  
443

444 **II.B.3.b).(2)** have post-residency experience in the subspecialty area,  
445 including fellowship training. <sup>(Core)</sup>  
446

447 **II.B.3.c)** **Any non-physician faculty members who participate in**  
448 **fellowship program education must be approved by the**  
449 **program director.** <sup>(Core)</sup>  
450

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

451  
452 **II.B.3.d)** **Any other specialty physician faculty members must have**  
453 **current certification in their specialty by the appropriate**  
454 **American Board of Medical Specialties (ABMS) member**  
455 **board or American Osteopathic Association (AOA) certifying**  
456 **board, or possess qualifications judged acceptable to the**  
457 **Review Committee.** <sup>(Core)</sup>  
458

459 **II.B.4.** **Core Faculty**  
460

461 **Core faculty members must have a significant role in the education**  
462 **and supervision of fellows and must devote a significant portion of**  
463 **their entire effort to fellow education and/or administration, and**  
464 **must, as a component of their activities, teach, evaluate, and provide**  
465 **formative feedback to fellows.** <sup>(Core)</sup>  
466

**Background and Intent: Core faculty members are critical to the success of fellow education. They support the program leadership in developing, implementing, and assessing curriculum and in assessing fellows' progress toward achievement of competence in the subspecialty. 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.**

467  
468 **II.B.4.a)** **Core faculty members must be designated by the program**  
469 **director.** <sup>(Core)</sup>  
470

- 471 **II.B.4.b) Core faculty members must complete the annual ACGME**  
 472 **Faculty Survey.** <sup>(Core)</sup>  
 473  
 474 **II.B.4.c) The musculoskeletal radiology faculty must have a minimum of**  
 475 **two core faculty members, including the program director and at**  
 476 **least one person experienced in musculoskeletal radiology who**  
 477 **has a substantial commitment to the fellowship program.** <sup>(Core)</sup>  
 478  
 479 **II.C. Program Coordinator**  
 480  
 481 **II.C.1. There must be a program coordinator.** <sup>(Core)</sup>  
 482  
 483 **II.C.2. The program coordinator must be provided with support adequate**  
 484 **for administration of the program based upon its size and**  
 485 **configuration.** <sup>(Core)</sup>  
 486

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

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

**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 fellows may not require a full-time coordinator; one coordinator may support more than one program.**

- 487  
 488 **II.D. Other Program Personnel**  
 489  
 490 **The program, in partnership with its Sponsoring Institution, must jointly**  
 491 **ensure the availability of necessary personnel for the effective**  
 492 **administration of the program.** <sup>(Core)</sup>  
 493  
 494 **II.D.1. Secretarial support for the conduct of research projects should be**  
 495 **provided for musculoskeletal radiology faculty and fellows.** <sup>(Detail)</sup>  
 496  
 497 **II.D.2. Assistance with literature searches, editing, statistical tabulation, and**  
 498 **photography should be provided.** <sup>(Detail)</sup>  
 499

**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.**

500  
501 **III. Fellow Appointments**  
502  
503 **III.A. Eligibility Criteria**

504  
505 **III.A.1. Eligibility Requirements – Fellowship Programs**  
506

507 **All required clinical education for entry into ACGME-accredited**  
508 **fellowship programs must be completed in an ACGME-accredited**  
509 **residency program, an AOA-approved residency program, a**  
510 **program with ACGME International (ACGME-I) Advanced Specialty**  
511 **Accreditation, or a Royal College of Physicians and Surgeons of**  
512 **Canada (RCPSC)-accredited or College of Family Physicians of**  
513 **Canada (CFPC)-accredited residency program located in Canada.**  
514 **(Core)**  
515

**Background and Intent: Eligibility for ABMS or AOA Board certification may not be satisfied by fellowship training. Applicants must be notified of this at the time of application, as required in II.A.4.a).(9).**

516  
517 **III.A.1.a) Fellowship programs must receive verification of each**  
518 **entering fellow’s level of competence in the required field,**  
519 **upon matriculation, using ACGME, ACGME-I, or CanMEDS**  
520 **Milestones evaluations from the core residency program. (Core)**  
521

522 **III.A.1.b) Prerequisite training for entry into the fellowship program should**  
523 **include the satisfactory completion of a diagnostic radiology**  
524 **residency program that satisfies the requirements in III.A.1. (Core)**  
525

526 **III.A.1.c) Fellow Eligibility Exception**  
527

528 **The Review Committee for Diagnostic Radiology will allow the**  
529 **following exception to the fellowship eligibility requirements:**  
530

531 **III.A.1.c).(1) An ACGME-accredited fellowship program may accept**  
532 **an exceptionally qualified international graduate**  
533 **applicant who does not satisfy the eligibility**  
534 **requirements listed in III.A.1., but who does meet all of**  
535 **the following additional qualifications and conditions:**  
536 **(Core)**  
537

538 **III.A.1.c).(1).(a) evaluation by the program director and**  
539 **fellowship selection committee of the**  
540 **applicant’s suitability to enter the program,**  
541 **based on prior training and review of the**  
542 **summative evaluations of training in the core**  
543 **specialty; and, (Core)**  
544

545 **III.A.1.c).(1).(b) review and approval of the applicant’s**  
546 **exceptional qualifications by the GMEC; and,**  
547 **(Core)**

- 548  
549 III.A.1.c).(1).(c) verification of Educational Commission for  
550 Foreign Medical Graduates (ECFMG)  
551 certification. <sup>(Core)</sup>  
552  
553 III.A.1.c).(2) Applicants accepted through this exception must have  
554 an evaluation of their performance by the Clinical  
555 Competency Committee within 12 weeks of  
556 matriculation. <sup>(Core)</sup>  
557

**Background and Intent: An exceptionally qualified international graduate applicant has (1) completed a residency program in the core specialty outside the continental United States that was not accredited by the ACGME, AOA, ACGME-I, RCPSC or CFPC, and (2) demonstrated clinical excellence, in comparison to peers, throughout training. Additional evidence of exceptional qualifications is required, which may include one of the following: (a) participation in additional clinical or research training in the specialty or subspecialty; (b) demonstrated scholarship in the specialty or subspecialty; and/or (c) demonstrated leadership during or after residency. Applicants being considered for these positions must be informed of the fact that their training may not lead to certification by ABMS member boards or AOA certifying boards.**

**In recognition of the diversity of medical education and training around the world, this early evaluation of clinical competence required for these applicants ensures they can provide quality and safe patient care. Any gaps in competence should be addressed as per policies for fellows already established by the program in partnership with the Sponsoring Institution.**

- 558  
559 III.B. The program director must not appoint more fellows than approved by the  
560 Review Committee. <sup>(Core)</sup>  
561

- 562 III.B.1. All complement increases must be approved by the Review  
563 Committee. <sup>(Core)</sup>  
564

- 565 III.C. Fellow Transfers  
566

567 The program must obtain verification of previous educational experiences  
568 and a summative competency-based performance evaluation prior to  
569 acceptance of a transferring fellow, and Milestones evaluations upon  
570 matriculation. <sup>(Core)</sup>  
571

- 572 IV. Educational Program  
573

574 *The ACGME accreditation system is designed to encourage excellence and  
575 innovation in graduate medical education regardless of the organizational  
576 affiliation, size, or location of the program.*

577  
578 *The educational program must support the development of knowledgeable, skillful  
579 physicians who provide compassionate care.*

580  
581 *In addition, the program is expected to define its specific program aims consistent  
582 with the overall mission of its Sponsoring Institution, the needs of the community*

583 *it serves and that its graduates will serve, and the distinctive capabilities of*  
584 *physicians it intends to graduate. While programs must demonstrate substantial*  
585 *compliance with the Common and subspecialty-specific Program Requirements, it*  
586 *is recognized that within this framework, programs may place different emphasis*  
587 *on research, leadership, public health, etc. It is expected that the program aims*  
588 *will reflect the nuanced program-specific goals for it and its graduates; for*  
589 *example, it is expected that a program aiming to prepare physician-scientists will*  
590 *have a different curriculum from one focusing on community health.*

591  
592 **IV.A.** The curriculum must contain the following educational components: (Core)

593  
594 **IV.A.1.** a set of program aims consistent with the Sponsoring Institution's  
595 mission, the needs of the community it serves, and the desired  
596 distinctive capabilities of its graduates; (Core)

597  
598 **IV.A.1.a)** The program's aims must be made available to program  
599 applicants, fellows, and faculty members. (Core)

600  
601 **IV.A.2.** competency-based goals and objectives for each educational  
602 experience designed to promote progress on a trajectory to  
603 autonomous practice in their subspecialty. These must be  
604 distributed, reviewed, and available to fellows and faculty members;  
605 (Core)

606  
607 **IV.A.3.** delineation of fellow responsibilities for patient care, progressive  
608 responsibility for patient management, and graded supervision in  
609 their subspecialty; (Core)

610  
**Background and Intent:** These responsibilities may generally be described by PGY level and specifically by Milestones progress as determined by the Clinical Competency Committee. This approach encourages the transition to competency-based education. An advanced learner may be granted more responsibility independent of PGY level and a learner needing more time to accomplish a certain task may do so in a focused rather than global manner.

611  
612 **IV.A.4.** structured educational activities beyond direct patient care; and,  
613 (Core)

614  
**Background and Intent:** Patient care-related educational activities, such as morbidity and mortality conferences, tumor boards, surgical planning conferences, case discussions, etc., allow fellows to gain medical knowledge directly applicable to the patients they serve. Programs should define those educational activities in which fellows are expected to participate and for which time is protected. Further specification can be found in IV.C.

615  
616 **IV.A.5.** advancement of fellows' knowledge of ethical principles  
617 foundational to medical professionalism. (Core)

618  
619 **IV.B.** ACGME Competencies

**Background and Intent: The Competencies provide a conceptual framework describing the required domains for a trusted physician to enter autonomous practice. These Competencies are core to the practice of all physicians, although the specifics are further defined by each subspecialty. The developmental trajectories in each of the Competencies are articulated through the Milestones for each subspecialty. The focus in fellowship is on subspecialty-specific patient care and medical knowledge, as well as refining the other competencies acquired in residency.**

621  
622 **IV.B.1. The program must integrate the following ACGME Competencies**  
623 **into the curriculum: (Core)**

624  
625 **IV.B.1.a) Professionalism**  
626  
627 **Fellows must demonstrate a commitment to professionalism**  
628 **and an adherence to ethical principles. (Core)**  
629

630 **IV.B.1.b) Patient Care and Procedural Skills**  
631

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

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

632  
633 **IV.B.1.b).(1) Fellows must be able to provide patient care that is**  
634 **compassionate, appropriate, and effective for the**  
635 **treatment of health problems and the promotion of**  
636 **health. (Core)**  
637

638 **IV.B.1.b).(1).(a) Fellows must consult with referring physicians or**  
639 **services; (Core)**

640  
641 **IV.B.1.b).(1).(b) Fellows should educate diagnostic residents, and if**  
642 **appropriate, medical students and other**  
643 **professional personnel, in the care and**  
644 **management of patients; (Core)**  
645

646 **IV.B.1.b).(1).(c) Fellows must follow standards of care for practicing**  
647 **in a safe environment, attempt to reduce errors,**  
648 **and improve patient outcomes; (Core)**  
649

650 **IV.B.1.b).(1).(d) Fellows must demonstrate an understanding of**  
651 **proper imaging protocols to ensure that excessive**  
652 **or inappropriate examinations are not ordered and**  
653 **performed; and, (Core)**

654		
655	IV.B.1.b).(1).(e)	Fellows must interpret all specified exams and/or
656		invasive studies under close, graded responsibility
657		and supervision. <sup>(Core)</sup>
658		
659	<b>IV.B.1.b).(2)</b>	<b>Fellows must be able to perform all medical,</b>
660		<b>diagnostic, and surgical procedures considered</b>
661		<b>essential for the area of practice.</b> <sup>(Core)</sup>
662		
663	IV.B.1.b).(2).(a)	Fellows must apply low dose radiation techniques
664		for both adults and children; <sup>(Core)</sup>
665		
666	IV.B.1.b).(2).(b)	Fellows must perform all specified exams and/or
667		invasive studies under close, graded responsibility
668		and supervision; <sup>(Core)</sup>
669		
670	IV.B.1.b).(2).(c)	Fellows must keep a log documenting the types of
671		image-guided interventions that he/she performs;
672		<sup>(Core)</sup>
673		
674	IV.B.1.b).(2).(d)	Fellows must demonstrate graduated responsibility
675		as competence increases for invasive procedures;
676		such responsibility should include pre-procedural
677		and post-procedural patient care; and, <sup>(Core)</sup>
678		
679	IV.B.1.b).(2).(e)	Fellows should closely coordinate and cooperate
680		with referring physicians, including orthopaedic
681		surgeons, rheumatologists, and emergency
682		department specialists. <sup>(Core)</sup>
683		
684	<b>IV.B.1.c)</b>	<b>Medical Knowledge</b>
685		
686		<b>Fellows must demonstrate knowledge of established and</b>
687		<b>evolving biomedical, clinical, epidemiological and social-</b>
688		<b>behavioral sciences, as well as the application of this</b>
689		<b>knowledge to patient care.</b> <sup>(Core)</sup>
690		
691	IV.B.1.c).(1)	Fellows must demonstrate special skills and knowledge in
692		the subspecialty that consists of both cognitive and
693		technical components; <sup>(Core)</sup>
694		
695	IV.B.1.c).(2)	Fellows must demonstrate an understanding in low-dose
696		radiation techniques for both adults and children, and
697		demonstrate prevention and treatment of complications of
698		contrast administration; <sup>(Core)</sup>
699		
700	IV.B.1.c).(3)	Fellows should demonstrate skills in preparing and
701		presenting educational material for medical students,
702		graduate medical staff, and allied health personnel; <sup>(Core)</sup>
703		
704	IV.B.1.c).(4)	Fellows must actively participate in the formulation of a

705 diagnosis and/or the generation of an imaging protocol,  
706 although the precise responsibility of the fellow will vary  
707 from one clinical conference to another. This participation  
708 should be used by the program director and other faculty  
709 members to judge the fellows' progress; and, <sup>(Core)</sup>  
710

711 IV.B.1.c).(5) Fellows should demonstrate an understanding of proper  
712 imaging protocols to ensure that excessive or inappropriate  
713 examinations are not ordered and performed. <sup>(Core)</sup>  
714

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

716  
717 **Fellows must demonstrate the ability to investigate and**  
718 **evaluate their care of patients, to appraise and assimilate**  
719 **scientific evidence, and to continuously improve patient care**  
720 **based on constant self-evaluation and lifelong learning.** <sup>(Core)</sup>  
721

**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 fellow refine the habits of mind required to continuously pursue quality improvement, well past the completion of fellowship.**

722  
723 **IV.B.1.e) Interpersonal and Communication Skills**

724  
725 **Fellows must demonstrate interpersonal and communication**  
726 **skills that result in the effective exchange of information and**  
727 **collaboration with patients, their families, and health**  
728 **professionals.** <sup>(Core)</sup>  
729

730 **IV.B.1.f) Systems-based Practice**

731  
732 **Fellows must demonstrate an awareness of and**  
733 **responsiveness to the larger context and system of health**  
734 **care, including the social determinants of health, as well as**  
735 **the ability to call effectively on other resources to provide**  
736 **optimal health care.** <sup>(Core)</sup>  
737

738 **IV.C. Curriculum Organization and Fellow Experiences**

739  
740 **IV.C.1. The curriculum must be structured to optimize fellow educational**  
741 **experiences, the length of these experiences, and supervisory**  
742 **continuity.** <sup>(Core)</sup>  
743

744 IV.C.1.a) The assignment of educational experiences should be structured  
745 to minimize the frequency of transitions. <sup>(Detail)</sup>  
746

- 747 IV.C.1.b) Educational experiences should be of sufficient length to provide a  
748 quality educational experience defined by ongoing supervision,  
749 longitudinal relationships with faculty members, and high-quality  
750 assessment and feedback. <sup>(Detail)</sup>  
751
- 752 **IV.C.2. The program must provide instruction and experience in pain**  
753 **management if applicable for the subspecialty, including recognition**  
754 **of the signs of addiction.** <sup>(Core)</sup>  
755
- 756 IV.C.3. Fellows must have clinical experience and didactic sessions  
757 encompassing the entire spectrum of musculoskeletal diseases. <sup>(Core)</sup>  
758
- 759 IV.C.3.a) This must include both the axial and the appendicular skeletons of  
760 both adult and pediatric patients. <sup>(Detail)</sup>  
761
- 762 IV.C.4. The fellow must interpret, under appropriate supervision, diagnostic  
763 examinations. Furthermore, the fellow must perform and interpret image-  
764 guided interventions including image-guided percutaneous biopsy  
765 procedures, arthrograms and diagnostic/therapeutic injections. <sup>(Core)</sup>  
766
- 767 IV.C.5. The fellow should have experience with ultrasonography, bone  
768 densitometry, and radionuclide scintigraphy as they relate to diseases of  
769 the musculoskeletal system. <sup>(Core)</sup>  
770
- 771 IV.C.6. Fellows must have didactic conferences and teaching sessions that  
772 provide coverage of musculoskeletal concepts related to anatomy,  
773 physiology, pathology, orthopaedic surgery, and rheumatology. <sup>(Core)</sup>  
774
- 775 IV.C.6.a) Attendance at and participation in department conferences, such  
776 as daily image interpretation sessions, are required. <sup>(Detail)</sup>  
777
- 778 IV.C.7. Regularly scheduled interdepartmental conferences are a necessary  
779 component of the program. <sup>(Core)</sup>  
780
- 781 IV.C.7.a) These should include the disciplines of orthopaedic surgery,  
782 neurological surgery, and other appropriate surgical specialties;  
783 pathology; rheumatology; and oncology. In addition, the training  
784 experience should include radiology oriented conferences with  
785 medical students and graduate medical staff. <sup>(Detail)</sup>  
786
- 787 IV.C.8. Fellows must participate on a regular basis in scheduled conferences.  
788 <sup>(Core)</sup>  
789
- 790 IV.C.8.a) Conferences must provide for progressive fellow participation.  
791 Scheduled presentations by fellows should be encouraged. These  
792 conferences should include: <sup>(Detail)</sup>  
793
- 794 IV.C.8.a).(1) intradepartmental conferences; <sup>(Detail)</sup>  
795
- 796 IV.C.8.a).(2) departmental grand rounds; <sup>(Detail)</sup>  
797

- 798 IV.C.8.a).(3) at least one interdisciplinary conference per week; and,  
 799 (Detail)  
 800  
 801 IV.C.8.a).(4) peer-review case conferences and/or morbidity and  
 802 mortality conferences. (Detail)  
 803  
 804 IV.C.9. Fellows should attend and participate in local conferences and at least  
 805 one national meeting or post-graduate course in the subspecialty while in  
 806 training. (Core)  
 807  
 808 IV.C.9.a) Participation in local or national subspecialty societies should be  
 809 encouraged. Reasonable expenses should be reimbursed. (Detail)  
 810  
 811 IV.C.10. Fellows must attend didactic conferences directed to the level of the  
 812 fellow that provide formal review of the topics in the specialty curriculum.  
 813 (Core)  
 814  
 815 IV.C.10.a) These conferences should occur at least twice per month. (Detail)  
 816

#### 817 IV.D. Scholarship

818  
 819 ***Medicine is both an art and a science. The physician is a humanistic***  
 820 ***scientist who cares for patients. This requires the ability to think critically,***  
 821 ***evaluate the literature, appropriately assimilate new knowledge, and***  
 822 ***practice lifelong learning. The program and faculty must create an***  
 823 ***environment that fosters the acquisition of such skills through fellow***  
 824 ***participation in scholarly activities as defined in the subspecialty-specific***  
 825 ***Program Requirements. Scholarly activities may include discovery,***  
 826 ***integration, application, and teaching.***

827  
 828 ***The ACGME recognizes the diversity of fellowships and anticipates that***  
 829 ***programs prepare physicians for a variety of roles, including clinicians,***  
 830 ***scientists, and educators. It is expected that the program's scholarship will***  
 831 ***reflect its mission(s) and aims, and the needs of the community it serves.***  
 832 ***For example, some programs may concentrate their scholarly activity on***  
 833 ***quality improvement, population health, and/or teaching, while other***  
 834 ***programs might choose to utilize more classic forms of biomedical***  
 835 ***research as the focus for scholarship.***

#### 837 IV.D.1. Program Responsibilities

838  
 839 IV.D.1.a) The program must demonstrate evidence of scholarly  
 840 activities, consistent with its mission(s) and aims. (Core)  
 841

842 IV.D.1.b) The program in partnership with its Sponsoring Institution,  
 843 must allocate adequate resources to facilitate fellow and  
 844 faculty involvement in scholarly activities. (Core)  
 845

#### 846 IV.D.2. Faculty Scholarly Activity

847

848 **IV.D.2.a)** **Among their scholarly activity, programs must demonstrate**  
849 **accomplishments in at least three of the following domains:**  
850 **(Core)**

- 851
- 852
- 853 **• Research in basic science, education, translational**  
**science, patient care, or population health**
- 854 **• Peer-reviewed grants**
- 855 **• Quality improvement and/or patient safety initiatives**
- 856 **• Systematic reviews, meta-analyses, review articles,**  
857 **chapters in medical textbooks, or case reports**
- 858 **• Creation of curricula, evaluation tools, didactic**  
859 **educational activities, or electronic educational**  
860 **materials**
- 861 **• Contribution to professional committees, educational**  
862 **organizations, or editorial boards**
- 863 **• Innovations in education**

865 **IV.D.2.b)** **The program must demonstrate dissemination of scholarly**  
866 **activity within and external to the program by the following**  
867 **methods:**  
868

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

869

870 **IV.D.2.b).(1)** **faculty participation in grand rounds, posters,**  
871 **workshops, quality improvement presentations,**  
872 **podium presentations, grant leadership, non-peer-**  
873 **reviewed print/electronic resources, articles or**  
874 **publications, book chapters, textbooks, webinars,**  
875 **service on professional committees, or serving as a**  
876 **journal reviewer, journal editorial board member, or**  
877 **editor;** (Outcome)‡

878

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

880

881 **IV.D.3. Fellow Scholarly Activity**

882

883 **IV.D.3.a)** **The program must provide instruction in the fundamentals of**  
884 **experimental design, performance, and interpretation of results.**  
885 **(Core)**

886

887 **IV.D.3.b)** **All fellows must engage in a scholarly project.** (Core)

888

- 889 IV.D.3.b).(1) This project may take the form of laboratory research,  
 890 clinical research, analysis of disease processes, imaging  
 891 techniques, or practice management issues. <sup>(Detail)</sup>  
 892
- 893 IV.D.3.b).(2) The results of such projects must be submitted for  
 894 publication or presented at departmental, institutional,  
 895 local, regional, national or international meetings. <sup>(Outcome)</sup>  
 896
- 897 IV.D.3.c) Laboratory facilities to support research projects should be  
 898 available in the institution. <sup>(Detail)</sup>  
 899

900 **V. Evaluation**

901 **V.A. Fellow Evaluation**

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

**Background and Intent: Feedback is ongoing information provided regarding aspects of one’s performance, knowledge, or understanding. The faculty empower fellows 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 fellow learning* and providing ongoing feedback that can be used by fellows to improve their learning in the context of provision of patient care or other educational opportunities. More specifically, formative evaluations help:**

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

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

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

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

- 906
- 907 **V.A.1.a) Faculty members must directly observe, evaluate, and**  
 908 **frequently provide feedback on fellow performance during**  
 909 **each rotation or similar educational assignment. <sup>(Core)</sup>**  
 910

**Background and Intent: Faculty members should provide feedback frequently throughout the course of each rotation. Fellows require feedback from faculty members to reinforce well-performed duties and tasks, as well as to correct deficiencies. This feedback will allow for the development of the learner as they strive to achieve the Milestones. More frequent feedback is strongly encouraged for fellows who have deficiencies that may result in a poor final rotation evaluation.**

- 911  
912 V.A.1.a).(1) The program must ensure that there is at least a quarterly  
913 review. <sup>(Core)</sup>  
914  
915 V.A.1.a).(1).(a) These quarterly reviews should include:  
916  
917 V.A.1.a).(1).(a).(i) review of faculty evaluations of the fellow;  
918 <sup>(Detail)</sup>  
919  
920 V.A.1.a).(1).(a).(ii) review of the procedure log; and, <sup>(Detail)</sup>  
921  
922 V.A.1.a).(1).(a).(iii) documentation of compliance with  
923 institutional and departmental policies  
924 (HIPAA, the Joint Commission, patient  
925 safety, infection control, etc.). <sup>(Detail)</sup>  
926  
927 **V.A.1.b) Evaluation must be documented at the completion of the**  
928 **assignment.** <sup>(Core)</sup>  
929  
930 **V.A.1.b).(1) For block rotations of greater than three months in**  
931 **duration, evaluation must be documented at least**  
932 **every three months.** <sup>(Core)</sup>  
933  
934 **V.A.1.b).(2) Longitudinal experiences such as continuity clinic in**  
935 **the context of other clinical responsibilities must be**  
936 **evaluated at least every three months and at**  
937 **completion.** <sup>(Core)</sup>  
938  
939 **V.A.1.c) The program must provide an objective performance**  
940 **evaluation based on the Competencies and the subspecialty-**  
941 **specific Milestones, and must:** <sup>(Core)</sup>  
942  
943 **V.A.1.c).(1) use multiple evaluators (e.g., faculty members, peers,**  
944 **patients, self, and other professional staff members);**  
945 **and,** <sup>(Core)</sup>  
946  
947 **V.A.1.c).(2) provide that information to the Clinical Competency**  
948 **Committee for its synthesis of progressive fellow**  
949 **performance and improvement toward unsupervised**  
950 **practice.** <sup>(Core)</sup>  
951

**Background and Intent: The trajectory to autonomous practice in a subspecialty is documented by the subspecialty-specific Milestones evaluation during fellowship. These Milestones detail the progress of a fellow in attaining skill in each competency domain. It is expected that the most growth in fellowship education occurs in patient**

care and medical knowledge, while the other four domains of competency must be ensured in the context of the subspecialty. They are developed by a subspecialty group and allow evaluation based on observable behaviors. The Milestones are considered formative and should be used to identify learning needs. This may lead to focused or general curricular revision in any given program or to individualized learning plans for any specific fellow.

- 952  
953 V.A.1.d) The program director or their designee, with input from the  
954 Clinical Competency Committee, must:  
955  
956 V.A.1.d).(1) meet with and review with each fellow their  
957 documented semi-annual evaluation of performance,  
958 including progress along the subspecialty-specific  
959 Milestones. <sup>(Core)</sup>  
960  
961 V.A.1.d).(2) assist fellows in developing individualized learning  
962 plans to capitalize on their strengths and identify areas  
963 for growth; and, <sup>(Core)</sup>  
964  
965 V.A.1.d).(3) develop plans for fellows failing to progress, following  
966 institutional policies and procedures. <sup>(Core)</sup>  
967

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

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

- 968  
969 V.A.1.e) At least annually, there must be a summative evaluation of  
970 each fellow that includes their readiness to progress to the  
971 next year of the program, if applicable. <sup>(Core)</sup>  
972  
973 V.A.1.f) The evaluations of a fellow's performance must be accessible  
974 for review by the fellow. <sup>(Core)</sup>  
975  
976 V.A.2. Final Evaluation  
977  
978 V.A.2.a) The program director must provide a final evaluation for each  
979 fellow upon completion of the program. <sup>(Core)</sup>

- 980  
 981 **V.A.2.a).(1)**                    **The subspecialty-specific Milestones, and when**  
 982    **applicable the subspecialty-specific Case Logs, must**  
 983    **be used as tools to ensure fellows are able to engage**  
 984    **in autonomous practice upon completion of the**  
 985    **program.** <sup>(Core)</sup>  
 986  
 987 **V.A.2.a).(2)**                    **The final evaluation must:**  
 988  
 989 **V.A.2.a).(2).(a)**                    **become part of the fellow’s permanent record**  
 990    **maintained by the institution, and must be**  
 991    **accessible for review by the fellow in**  
 992    **accordance with institutional policy;** <sup>(Core)</sup>  
 993  
 994 **V.A.2.a).(2).(b)**                    **verify that the fellow has demonstrated the**  
 995    **knowledge, skills, and behaviors necessary to**  
 996    **enter autonomous practice;** <sup>(Core)</sup>  
 997  
 998 **V.A.2.a).(2).(c)**                    **consider recommendations from the Clinical**  
 999    **Competency Committee; and,** <sup>(Core)</sup>  
 1000  
 1001 **V.A.2.a).(2).(d)**                    **be shared with the fellow upon completion of**  
 1002    **the program.** <sup>(Core)</sup>  
 1003  
 1004 **V.A.3.**                                **A Clinical Competency Committee must be appointed by the**  
 1005    **program director.** <sup>(Core)</sup>  
 1006  
 1007 **V.A.3.a)**                                **At a minimum the Clinical Competency Committee must**  
 1008    **include three members, at least one of whom is a core faculty**  
 1009    **member. Members must be faculty members from the same**  
 1010    **program or other programs, or other health professionals**  
 1011    **who have extensive contact and experience with the**  
 1012    **program’s fellows.** <sup>(Core)</sup>  
 1013  
 1014 **V.A.3.b)**                                **The Clinical Competency Committee must:**  
 1015  
 1016 **V.A.3.b).(1)**                            **review all fellow evaluations at least semi-annually;**  
 1017    <sup>(Core)</sup>  
 1018  
 1019 **V.A.3.b).(2)**                            **determine each fellow’s progress on achievement of**  
 1020    **the subspecialty-specific Milestones; and,** <sup>(Core)</sup>  
 1021  
 1022 **V.A.3.b).(3)**                            **meet prior to the fellows’ semi-annual evaluations and**  
 1023    **advise the program director regarding each fellow’s**  
 1024    **progress.** <sup>(Core)</sup>  
 1025  
 1026 **V.B.**                                    **Faculty Evaluation**  
 1027  
 1028 **V.B.1.**                                    **The program must have a process to evaluate each faculty**  
 1029    **member’s performance as it relates to the educational program at**  
 1030    **least annually.** <sup>(Core)</sup>

1031

**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 fellowship 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 fellow 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 fellows desire feedback on their education, clinical care, and research. If a faculty member does not interact with fellows, feedback is not required. With regard to the diverse operating environments and configurations, the fellowship 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 fellows 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.

1032

1033

**V.B.1.a)** This evaluation must include a review of the faculty member's clinical teaching abilities, engagement with the educational program, participation in faculty development related to their skills as an educator, clinical performance, professionalism, and scholarly activities. *(Core)*

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**V.B.1.b)** This evaluation must include written, confidential evaluations by the fellows. *(Core)*

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**V.B.2.** Faculty members must receive feedback on their evaluations at least annually. *(Core)*

1043

1044

1045

**V.B.3.** Results of the faculty educational evaluations should be incorporated into program-wide faculty development plans. *(Core)*

1046

1047

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

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**V.C. Program Evaluation and Improvement**

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**V.C.1.** The program director must appoint the Program Evaluation Committee to conduct and document the Annual Program Evaluation as part of the program's continuous improvement process. *(Core)*

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- 1056 **V.C.1.a)** **The Program Evaluation Committee must be composed of at**  
 1057 **least two program faculty members, at least one of whom is a**  
 1058 **core faculty member, and at least one fellow.** *(Core)*  
 1059
- 1060 **V.C.1.b)** **Program Evaluation Committee responsibilities must include:**  
 1061
- 1062 **V.C.1.b).(1)** **acting as an advisor to the program director, through**  
 1063 **program oversight;** *(Core)*  
 1064
- 1065 **V.C.1.b).(2)** **review of the program’s self-determined goals and**  
 1066 **progress toward meeting them;** *(Core)*  
 1067
- 1068 **V.C.1.b).(3)** **guiding ongoing program improvement, including**  
 1069 **development of new goals, based upon outcomes;**  
 1070 **and,** *(Core)*  
 1071
- 1072 **V.C.1.b).(4)** **review of the current operating environment to identify**  
 1073 **strengths, challenges, opportunities, and threats as**  
 1074 **related to the program’s mission and aims.** *(Core)*  
 1075

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

- 1076
- 1077 **V.C.1.c)** **The Program Evaluation Committee should consider the**  
 1078 **following elements in its assessment of the program:**  
 1079
- 1080 **V.C.1.c).(1)** **curriculum;** *(Core)*  
 1081
- 1082 **V.C.1.c).(2)** **outcomes from prior Annual Program Evaluation(s);**  
 1083 *(Core)*  
 1084
- 1085 **V.C.1.c).(3)** **ACGME letters of notification, including citations,**  
 1086 **Areas for Improvement, and comments;** *(Core)*  
 1087
- 1088 **V.C.1.c).(4)** **quality and safety of patient care;** *(Core)*  
 1089
- 1090 **V.C.1.c).(5)** **aggregate fellow and faculty:**  
 1091
- 1092 **V.C.1.c).(5).(a)** **well-being;** *(Core)*  
 1093
- 1094 **V.C.1.c).(5).(b)** **recruitment and retention;** *(Core)*  
 1095
- 1096 **V.C.1.c).(5).(c)** **workforce diversity;** *(Core)*  
 1097
- 1098 **V.C.1.c).(5).(d)** **engagement in quality improvement and patient**  
 1099 **safety;** *(Core)*  
 1100

1101	V.C.1.c).(5).(e)	scholarly activity; <sup>(Core)</sup>
1102		
1103	V.C.1.c).(5).(f)	ACGME Resident/Fellow and Faculty Surveys
1104		(where applicable); and, <sup>(Core)</sup>
1105		
1106	V.C.1.c).(5).(g)	written evaluations of the program. <sup>(Core)</sup>
1107		
1108	V.C.1.c).(6)	aggregate fellow:
1109		
1110	V.C.1.c).(6).(a)	achievement of the Milestones; <sup>(Core)</sup>
1111		
1112	V.C.1.c).(6).(b)	in-training examinations (where applicable);
1113		<sup>(Core)</sup>
1114		
1115	V.C.1.c).(6).(c)	board pass and certification rates; and, <sup>(Core)</sup>
1116		
1117	V.C.1.c).(6).(d)	graduate performance. <sup>(Core)</sup>
1118		
1119	V.C.1.c).(7)	aggregate faculty:
1120		
1121	V.C.1.c).(7).(a)	evaluation; and, <sup>(Core)</sup>
1122		
1123	V.C.1.c).(7).(b)	professional development <sup>(Core)</sup>
1124		
1125	V.C.1.d)	The Program Evaluation Committee must evaluate the
1126		program's mission and aims, strengths, areas for
1127		improvement, and threats. <sup>(Core)</sup>
1128		
1129	V.C.1.e)	The annual review, including the action plan, must:
1130		
1131	V.C.1.e).(1)	be distributed to and discussed with the members of
1132		the teaching faculty and the fellows; and, <sup>(Core)</sup>
1133		
1134	V.C.1.e).(2)	be submitted to the DIO. <sup>(Core)</sup>
1135		
1136	V.C.2.	The program must participate in a Self-Study prior to its 10-Year
1137		Accreditation Site Visit. <sup>(Core)</sup>
1138		
1139	V.C.2.a)	A summary of the Self-Study must be submitted to the DIO.
1140		<sup>(Core)</sup>
1141		

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

well as information on how to prepare for the [10-Year Accreditation Site Visit](#), is available on the ACGME website.

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- V.C.3.** *One goal of ACGME-accredited education is to educate physicians who seek and achieve board certification. One measure of the effectiveness of the educational program is the ultimate pass rate.*
- The program director should encourage all eligible program graduates to take the certifying examination offered by the applicable American Board of Medical Specialties (ABMS) member board or American Osteopathic Association (AOA) certifying board.*
- V.C.3.a)** For subspecialties in which the ABMS member board and/or AOA certifying board offer(s) an annual written exam, in the preceding three years, the program’s aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that subspecialty. *(Outcome)*
- V.C.3.b)** For subspecialties in which the ABMS member board and/or AOA certifying board offer(s) a biennial written exam, in the preceding six years, the program’s aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that subspecialty. *(Outcome)*
- V.C.3.c)** For subspecialties in which the ABMS member board and/or AOA certifying board offer(s) an annual oral exam, in the preceding three years, the program’s aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that subspecialty. *(Outcome)*
- V.C.3.d)** For subspecialties 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 subspecialty. *(Outcome)*
- V.C.3.e)** For each of the exams referenced in V.C.3.a)-d), any program whose graduates over the time period specified in the requirement have achieved an 80 percent pass rate will have met this requirement, no matter the percentile rank of the program for pass rate in that subspecialty. *(Outcome)*

**Background and Intent:** Setting a single standard for pass rate that works across subspecialties 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 subspecialties where there is a very high board pass rate that could leave successful programs in the bottom five percent (fifth percentile) despite admirable performance. These high-performing programs should not be cited, and V.C.3.e) is designed to address this.

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

**Background and Intent:** It is essential that fellowship programs demonstrate knowledge and skill transfer to their fellows. 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 fellowship graduation for initial certification. The ACGME will calculate a rolling three-year average of the ultimate board certification rate at seven years post-graduation, and the Review Committees will monitor it.

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

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

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## VI. The Learning and Working Environment

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

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

**Background and Intent:** The revised requirements are intended to provide greater flexibility within an established framework, allowing programs and fellows 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 fellows 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, fellow education, and fellow well-being. The requirements are intended to support the development of a sense of professionalism by encouraging fellows 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 fellows 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 fellow and faculty member well-being. The requirements are intended to support programs and fellows 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 fellows. With this flexibility comes a responsibility for fellows and faculty members to recognize the need to hand off care of a patient to another provider when a fellow is too fatigued to provide safe, high quality care and for programs to ensure that fellows remain within the 80-hour maximum weekly limit.

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

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

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

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

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

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

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

*A culture of safety requires continuous identification of vulnerabilities and a willingness to transparently deal with them. An effective organization has formal*

1245 *mechanisms to assess the knowledge, skills, and*  
1246 *attitudes of its personnel toward safety in order to*  
1247 *identify areas for improvement.*

1249 VI.A.1.a).(1).(a) The program, its faculty, residents, and fellows  
1250 must actively participate in patient safety  
1251 systems and contribute to a culture of safety.  
1252 (Core)

1254 VI.A.1.a).(1).(b) The program must have a structure that  
1255 promotes safe, interprofessional, team-based  
1256 care. (Core)

1258 VI.A.1.a).(2) Education on Patient Safety

1259 Programs must provide formal educational activities  
1260 that promote patient safety-related goals, tools, and  
1261 techniques. (Core)

1262  
1263 **Background and Intent: Optimal patient safety occurs in the setting of a coordinated interprofessional learning and working environment.**

1264 VI.A.1.a).(3) Patient Safety Events

1265 *Reporting, investigation, and follow-up of adverse*  
1266 *events, near misses, and unsafe conditions are pivotal*  
1267 *mechanisms for improving patient safety, and are*  
1268 *essential for the success of any patient safety*  
1269 *program. Feedback and experiential learning are*  
1270 *essential to developing true competence in the ability*  
1271 *to identify causes and institute sustainable systems-*  
1272 *based changes to ameliorate patient safety*  
1273 *vulnerabilities.*

1274 VI.A.1.a).(3).(a) Residents, fellows, faculty members, and other  
1275 clinical staff members must:

1276 VI.A.1.a).(3).(a).(i) know their responsibilities in reporting  
1277 patient safety events at the clinical site;  
1278 (Core)

1279 VI.A.1.a).(3).(a).(ii) know how to report patient safety  
1280 events, including near misses, at the  
1281 clinical site; and, (Core)

1282 VI.A.1.a).(3).(a).(iii) be provided with summary information  
1283 of their institution's patient safety  
1284 reports. (Core)

1285 VI.A.1.a).(3).(b) Fellows must participate as team members in  
1286 real and/or simulated interprofessional clinical

1294 patient safety activities, such as root cause  
1295 analyses or other activities that include  
1296 analysis, as well as formulation and  
1297 implementation of actions. <sup>(Core)</sup>  
1298

1299 **VI.A.1.a).(4)** Fellow Education and Experience in Disclosure of  
1300 Adverse Events  
1301

1302 *Patient-centered care requires patients, and when*  
1303 *appropriate families, to be apprised of clinical*  
1304 *situations that affect them, including adverse events.*  
1305 *This is an important skill for faculty physicians to*  
1306 *model, and for fellows to develop and apply.*  
1307

1308 **VI.A.1.a).(4).(a)** All fellows must receive training in how to  
1309 disclose adverse events to patients and  
1310 families. <sup>(Core)</sup>  
1311

1312 **VI.A.1.a).(4).(b)** Fellows should have the opportunity to  
1313 participate in the disclosure of patient safety  
1314 events, real or simulated. <sup>(Detail)†</sup>  
1315

1316 **VI.A.1.b)** Quality Improvement  
1317

1318 **VI.A.1.b).(1)** Education in Quality Improvement  
1319

1320 *A cohesive model of health care includes quality-*  
1321 *related goals, tools, and techniques that are necessary*  
1322 *in order for health care professionals to achieve*  
1323 *quality improvement goals.*  
1324

1325 **VI.A.1.b).(1).(a)** Fellows must receive training and experience in  
1326 quality improvement processes, including an  
1327 understanding of health care disparities. <sup>(Core)</sup>  
1328

1329 **VI.A.1.b).(2)** Quality Metrics  
1330

1331 *Access to data is essential to prioritizing activities for*  
1332 *care improvement and evaluating success of*  
1333 *improvement efforts.*  
1334

1335 **VI.A.1.b).(2).(a)** Fellows and faculty members must receive data  
1336 on quality metrics and benchmarks related to  
1337 their patient populations. <sup>(Core)</sup>  
1338

1339 **VI.A.1.b).(3)** Engagement in Quality Improvement Activities  
1340

1341 *Experiential learning is essential to developing the*  
1342 *ability to identify and institute sustainable systems-*  
1343 *based changes to improve patient care.*  
1344

1345	VI.A.1.b).(3).(a)	Fellows must have the opportunity to
1346		participate in interprofessional quality
1347		improvement activities. <sup>(Core)</sup>
1348		
1349	VI.A.1.b).(3).(a).(i)	This should include activities aimed at
1350		reducing health care disparities. <sup>(Detail)</sup>
1351		
1352	VI.A.2.	Supervision and Accountability
1353		
1354	VI.A.2.a)	<i>Although the attending physician is ultimately responsible for</i>
1355		<i>the care of the patient, every physician shares in the</i>
1356		<i>responsibility and accountability for their efforts in the</i>
1357		<i>provision of care. Effective programs, in partnership with</i>
1358		<i>their Sponsoring Institutions, define, widely communicate,</i>
1359		<i>and monitor a structured chain of responsibility and</i>
1360		<i>accountability as it relates to the supervision of all patient</i>
1361		<i>care.</i>
1362		
1363		<i>Supervision in the setting of graduate medical education</i>
1364		<i>provides safe and effective care to patients; ensures each</i>
1365		<i>fellow's development of the skills, knowledge, and attitudes</i>
1366		<i>required to enter the unsupervised practice of medicine; and</i>
1367		<i>establishes a foundation for continued professional growth.</i>
1368		
1369	VI.A.2.a).(1)	Each patient must have an identifiable and
1370		appropriately-credentialed and privileged attending
1371		physician (or licensed independent practitioner as
1372		specified by the applicable Review Committee) who is
1373		responsible and accountable for the patient's care.
1374		<sup>(Core)</sup>
1375		
1376	VI.A.2.a).(1).(a)	This information must be available to fellows,
1377		faculty members, other members of the health
1378		care team, and patients. <sup>(Core)</sup>
1379		
1380	VI.A.2.a).(1).(b)	Fellows and faculty members must inform each
1381		patient of their respective roles in that patient's
1382		care when providing direct patient care. <sup>(Core)</sup>
1383		
1384	VI.A.2.b)	<i>Supervision may be exercised through a variety of methods.</i>
1385		<i>For many aspects of patient care, the supervising physician</i>
1386		<i>may be a more advanced fellow. Other portions of care</i>
1387		<i>provided by the fellow can be adequately supervised by the</i>
1388		<i>immediate availability of the supervising faculty member or</i>
1389		<i>fellow, either on site or by means of telephonic and/or</i>
1390		<i>electronic modalities. Some activities require the physical</i>
1391		<i>presence of the supervising faculty member. In some</i>
1392		<i>circumstances, supervision may include post-hoc review of</i>
1393		<i>fellow-delivered care with feedback.</i>
1394		

1395	<b>VI.A.2.b).(1)</b>	<b>The program must demonstrate that the appropriate level of supervision in place for all fellows is based on each fellow’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)</b>
1396		
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1401		
1402	<b>VI.A.2.c)</b>	<b>Levels of Supervision</b>
1403		
1404		<b>To promote oversight of fellow supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: (Core)</b>
1405		
1406		
1407		
1408	<b>VI.A.2.c).(1)</b>	<b>Direct Supervision – the supervising physician is physically present with the fellow and patient. (Core)</b>
1409		
1410		
1411	<b>VI.A.2.c).(2)</b>	<b>Indirect Supervision:</b>
1412		
1413	<b>VI.A.2.c).(2).(a)</b>	<b>with Direct Supervision immediately available – the supervising physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision. (Core)</b>
1414		
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1419	<b>VI.A.2.c).(2).(b)</b>	<b>with Direct Supervision available – the supervising physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision. (Core)</b>
1420		
1421		
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1425		
1426	<b>VI.A.2.c).(3)</b>	<b>Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. (Core)</b>
1427		
1428		
1429		
1430	<b>VI.A.2.d)</b>	<b>The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each fellow must be assigned by the program director and faculty members. (Core)</b>
1431		
1432		
1433		
1434		
1435	<b>VI.A.2.d).(1)</b>	<b>The program director must evaluate each fellow’s abilities based on specific criteria, guided by the Milestones. (Core)</b>
1436		
1437		
1438		
1439	<b>VI.A.2.d).(2)</b>	<b>Faculty members functioning as supervising physicians must delegate portions of care to fellows based on the needs of the patient and the skills of each fellow. (Core)</b>
1440		
1441		
1442		
1443		
1444	<b>VI.A.2.d).(3)</b>	<b>Fellows should serve in a supervisory role to junior fellows and residents in recognition of their progress</b>
1445		

1446 toward independence, based on the needs of each  
1447 patient and the skills of the individual resident or  
1448 fellow. <sup>(Detail)</sup>

1449  
1450 **VI.A.2.e)** Programs must set guidelines for circumstances and events  
1451 in which fellows must communicate with the supervising  
1452 faculty member(s). <sup>(Core)</sup>

1453  
1454 **VI.A.2.e).(1)** Each fellow must know the limits of their scope of  
1455 authority, and the circumstances under which the  
1456 fellow is permitted to act with conditional  
1457 independence. <sup>(Outcome)</sup>

**Background and Intent: The ACGME Glossary of Terms defines conditional independence as: Graded, progressive responsibility for patient care with defined oversight.**

1459  
1460 **VI.A.2.f)** Faculty supervision assignments must be of sufficient  
1461 duration to assess the knowledge and skills of each fellow  
1462 and to delegate to the fellow the appropriate level of patient  
1463 care authority and responsibility. <sup>(Core)</sup>

1464  
1465 **VI.B. Professionalism**

1466  
1467 **VI.B.1.** Programs, in partnership with their Sponsoring Institutions, must  
1468 educate fellows and faculty members concerning the professional  
1469 responsibilities of physicians, including their obligation to be  
1470 appropriately rested and fit to provide the care required by their  
1471 patients. <sup>(Core)</sup>

1472  
1473 **VI.B.2.** The learning objectives of the program must:

1474  
1475 **VI.B.2.a)** be accomplished through an appropriate blend of supervised  
1476 patient care responsibilities, clinical teaching, and didactic  
1477 educational events; <sup>(Core)</sup>

1478  
1479 **VI.B.2.b)** be accomplished without excessive reliance on fellows to  
1480 fulfill non-physician obligations; and, <sup>(Core)</sup>

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

1482

1483 VI.B.2.c) ensure manageable patient care responsibilities. (Core)  
1484  
1485

**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.**

1486  
1487 VI.B.3. The program director, in partnership with the Sponsoring Institution,  
1488 must provide a culture of professionalism that supports patient  
1489 safety and personal responsibility. (Core)  
1490

1491 VI.B.4. Fellows and faculty members must demonstrate an understanding  
1492 of their personal role in the:

1493  
1494 VI.B.4.a) provision of patient- and family-centered care; (Outcome)

1495  
1496 VI.B.4.b) safety and welfare of patients entrusted to their care,  
1497 including the ability to report unsafe conditions and adverse  
1498 events; (Outcome)  
1499

**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 fellow.**

1500  
1501 VI.B.4.c) assurance of their fitness for work, including: (Outcome)  
1502

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

1503  
1504 VI.B.4.c).(1) management of their time before, during, and after  
1505 clinical assignments; and, (Outcome)  
1506

1507 VI.B.4.c).(2) recognition of impairment, including from illness,  
1508 fatigue, and substance use, in themselves, their peers,  
1509 and other members of the health care team. (Outcome)  
1510

1511 VI.B.4.d) commitment to lifelong learning; (Outcome)

1512  
1513 VI.B.4.e) monitoring of their patient care performance improvement  
1514 indicators; and, (Outcome)  
1515

1516 VI.B.4.f) accurate reporting of clinical and educational work hours,  
1517 patient outcomes, and clinical experience data. (Outcome)  
1518

1519 VI.B.5. All fellows and faculty members must demonstrate responsiveness  
1520 to patient needs that supersedes self-interest. This includes the  
1521 recognition that under certain circumstances, the best interests of  
1522 the patient may be served by transitioning that patient's care to  
1523 another qualified and rested provider. (Outcome)  
1524

1525 VI.B.6. Programs, in partnership with their Sponsoring Institutions, must  
1526 provide a professional, equitable, respectful, and civil environment  
1527 that is free from discrimination, sexual and other forms of  
1528 harassment, mistreatment, abuse, or coercion of students, fellows,  
1529 faculty, and staff. (Core)  
1530

1531 VI.B.7. Programs, in partnership with their Sponsoring Institutions, should  
1532 have a process for education of fellows and faculty regarding  
1533 unprofessional behavior and a confidential process for reporting,  
1534 investigating, and addressing such concerns. (Core)  
1535

1536 VI.C. Well-Being  
1537

1538 *Psychological, emotional, and physical well-being are critical in the*  
1539 *development of the competent, caring, and resilient physician and require*  
1540 *proactive attention to life inside and outside of medicine. Well-being*  
1541 *requires that physicians retain the joy in medicine while managing their*  
1542 *own real life stresses. Self-care and responsibility to support other*  
1543 *members of the health care team are important components of*  
1544 *professionalism; they are also skills that must be modeled, learned, and*  
1545 *nurtured in the context of other aspects of fellowship training.*  
1546

1547 *Fellows and faculty members are at risk for burnout and depression.*  
1548 *Programs, in partnership with their Sponsoring Institutions, have the same*  
1549 *responsibility to address well-being as other aspects of resident*  
1550 *competence. Physicians and all members of the health care team share*  
1551 *responsibility for the well-being of each other. For example, a culture which*  
1552 *encourages covering for colleagues after an illness without the expectation*  
1553 *of reciprocity reflects the ideal of professionalism. A positive culture in a*  
1554 *clinical learning environment models constructive behaviors, and prepares*  
1555 *fellows with the skills and attitudes needed to thrive throughout their*  
1556 *careers.*  
1557

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

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

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- 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 fellow finds in the experience of being a physician, including protecting time 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 fellow well-being; (Core)**
- VI.C.1.c) evaluating workplace safety data and addressing the safety of fellows and faculty members; (Core)**

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

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1578

- VI.C.1.d) policies and programs that encourage optimal fellow and faculty member well-being; and, (Core)**

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

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- VI.C.1.d).(1) Fellows must be given the opportunity to attend medical, mental health, and dental care appointments, including those scheduled during their working hours. (Core)**

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

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1588

- VI.C.1.e) attention to fellow and faculty member burnout, depression, and substance abuse. The program, in partnership with its Sponsoring Institution, must educate faculty members and**

1589 fellows in identification of the symptoms of burnout,  
1590 depression, and substance abuse, including means to assist  
1591 those who experience these conditions. Fellows and faculty  
1592 members must also be educated to recognize those  
1593 symptoms in themselves and how to seek appropriate care.  
1594 The program, in partnership with its Sponsoring Institution,  
1595 must: <sup>(Core)</sup>  
1596

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

1597  
1598 VI.C.1.e).(1) encourage fellows and faculty members to alert the  
1599 program director or other designated personnel or  
1600 programs when they are concerned that another  
1601 fellow, resident, or faculty member may be displaying  
1602 signs of burnout, depression, substance abuse,  
1603 suicidal ideation, or potential for violence; <sup>(Core)</sup>  
1604

**Background and Intent:** Individuals experiencing burnout, depression, substance abuse, 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 fellows and faculty members are able to report their concerns when another fellow 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. Fellows 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.

1605  
1606 VI.C.1.e).(2) provide access to appropriate tools for self-screening;  
1607 and, <sup>(Core)</sup>  
1608

1609 VI.C.1.e).(3) provide access to confidential, affordable mental  
1610 health assessment, counseling, and treatment,  
1611 including access to urgent and emergent care 24  
1612 hours a day, seven days a week. <sup>(Core)</sup>  
1613

**Background and Intent:** The intent of this requirement is to ensure that fellows have immediate access at all times to a mental health professional (psychiatrist, psychologist, Licensed Clinical Social Worker, Primary Mental Health Nurse Practitioner, or Licensed Professional Counselor) for urgent or emergent mental health issues. In-person, telemedicine, or telephonic means may be utilized to satisfy this

requirement. Care in the Emergency Department may be necessary in some cases, but not as the primary or sole means to meet the requirement.

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

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**VI.C.2.** There are circumstances in which fellows may be unable to attend work, including but not limited to fatigue, illness, family emergencies, and parental leave. Each program must allow an appropriate length of absence for fellows unable to perform their patient care responsibilities. <sup>(Core)</sup>

**VI.C.2.a)** The program must have policies and procedures in place to ensure coverage of patient care. <sup>(Core)</sup>

**VI.C.2.b)** These policies must be implemented without fear of negative consequences for the fellow who is or was unable to provide the clinical work. <sup>(Core)</sup>

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

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**VI.D. Fatigue Mitigation**

**VI.D.1. Programs must:**

**VI.D.1.a)** educate all faculty members and fellows to recognize the signs of fatigue and sleep deprivation; <sup>(Core)</sup>

**VI.D.1.b)** educate all faculty members and fellows in alertness management and fatigue mitigation processes; and, <sup>(Core)</sup>

**VI.D.1.c)** encourage fellows to use fatigue mitigation processes to manage the potential negative effects of fatigue on patient care and learning. <sup>(Detail)</sup>

**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 fellows 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.

- 1643  
1644 **VI.D.2.** Each program must ensure continuity of patient care, consistent  
1645 with the program's policies and procedures referenced in VI.C.2–  
1646 VI.C.2.b), in the event that a fellow may be unable to perform their  
1647 patient care responsibilities due to excessive fatigue. <sup>(Core)</sup>  
1648
- 1649 **VI.D.3.** The program, in partnership with its Sponsoring Institution, must  
1650 ensure adequate sleep facilities and safe transportation options for  
1651 fellows who may be too fatigued to safely return home. <sup>(Core)</sup>  
1652
- 1653 **VI.E. Clinical Responsibilities, Teamwork, and Transitions of Care**  
1654
- 1655 **VI.E.1. Clinical Responsibilities**  
1656
- 1657 The clinical responsibilities for each fellow must be based on PGY  
1658 level, patient safety, fellow ability, severity and complexity of patient  
1659 illness/condition, and available support services. <sup>(Core)</sup>  
1660

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

- 1661
- 1662 **VI.E.2. Teamwork**  
1663
- 1664 Fellows must care for patients in an environment that maximizes  
1665 communication. This must include the opportunity to work as a  
1666 member of effective interprofessional teams that are appropriate to  
1667 the delivery of care in the subspecialty and larger health system.  
1668 <sup>(Core)</sup>  
1669
- 1670 **VI.E.3. Transitions of Care**  
1671
- 1672 **VI.E.3.a)** Programs must design clinical assignments to optimize  
1673 transitions in patient care, including their safety, frequency,  
1674 and structure. <sup>(Core)</sup>  
1675
- 1676 **VI.E.3.b)** Programs, in partnership with their Sponsoring Institutions,  
1677 must ensure and monitor effective, structured hand-over  
1678 processes to facilitate both continuity of care and patient  
1679 safety. <sup>(Core)</sup>  
1680

- 1681 VI.E.3.c) Programs must ensure that fellows are competent in  
 1682 communicating with team members in the hand-over process.  
 1683 (Outcome)  
 1684
- 1685 VI.E.3.d) Programs and clinical sites must maintain and communicate  
 1686 schedules of attending physicians and fellows currently  
 1687 responsible for care. (Core)  
 1688
- 1689 VI.E.3.e) Each program must ensure continuity of patient care,  
 1690 consistent with the program’s policies and procedures  
 1691 referenced in VI.C.2-VI.C.2.b), in the event that a fellow may  
 1692 be unable to perform their patient care responsibilities due to  
 1693 excessive fatigue or illness, or family emergency. (Core)  
 1694
- 1695 VI.F. Clinical Experience and Education  
 1696  
 1697 *Programs, in partnership with their Sponsoring Institutions, must design*  
 1698 *an effective program structure that is configured to provide fellows with*  
 1699 *educational and clinical experience opportunities, as well as reasonable*  
 1700 *opportunities for rest and personal activities.*  
 1701

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

- 1702
- 1703 VI.F.1. Maximum Hours of Clinical and Educational Work per Week  
 1704  
 1705 Clinical and educational work hours must be limited to no more than  
 1706 80 hours per week, averaged over a four-week period, inclusive of all  
 1707 in-house clinical and educational activities, clinical work done from  
 1708 home, and all moonlighting. (Core)  
 1709

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

**Scheduling**  
 While the ACGME acknowledges that, on rare occasions, a fellow may work in excess of 80 hours in a given week, all programs and fellows utilizing this flexibility will be required to adhere to the 80-hour maximum weekly limit when averaged over a four-week period. Programs that regularly schedule fellows to work 80 hours per week and still permit fellows to remain beyond their scheduled work period are likely to exceed the 80-hour maximum, which would not be in substantial compliance with the requirement. These programs should adjust schedules so that fellows are scheduled to work fewer than 80 hours per week, which would allow fellows to remain beyond their

scheduled work period when needed without violating the 80-hour requirement. Programs may wish to consider using night float and/or making adjustments to the frequency of in-house call to ensure compliance with the 80-hour maximum weekly limit.

### ***Oversight***

With increased flexibility introduced into the Requirements, programs permitting this flexibility will need to account for the potential for fellows 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 fellows 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 fellows choose to do from home. The requirement provides flexibility for fellows to do this while ensuring that the time spent by fellows completing clinical work from home is accomplished within the 80-hour weekly maximum. Types of work from home that must be counted include using an electronic health record and taking calls from home. Reading done in preparation for the following day's cases, studying, and research done from home do not count toward the 80 hours. Fellow 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 fellow's supervisor. In such circumstances, fellows 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 fellow spends three minutes on a phone call and then a few hours later spends two minutes on another call, will the fellow 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 fellows. The new requirements are not an attempt to micromanage this process. Fellows 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 fellow. Programs will need to factor in time fellows are spending on clinical work at home when schedules are developed to ensure that fellows 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 fellows report their time from home and that schedules are structured to ensure that fellows are not working in excess of 80 hours per week, averaged over four weeks.

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## **VI.F.2. Mandatory Time Free of Clinical Work and Education**

1713 VI.F.2.a) The program must design an effective program structure that  
1714 is configured to provide fellows with educational  
1715 opportunities, as well as reasonable opportunities for rest  
1716 and personal well-being. <sup>(Core)</sup>

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1718 VI.F.2.b) Fellows should have eight hours off between scheduled  
1719 clinical work and education periods. <sup>(Detail)</sup>

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1721 VI.F.2.b).(1) There may be circumstances when fellows choose to  
1722 stay to care for their patients or return to the hospital  
1723 with fewer than eight hours free of clinical experience  
1724 and education. This must occur within the context of  
1725 the 80-hour and the one-day-off-in-seven  
1726 requirements. <sup>(Detail)</sup>

**Background and Intent:** While it is expected that fellow schedules will be structured to ensure that fellows are provided with a minimum of eight hours off between scheduled work periods, it is recognized that fellows may choose to remain beyond their scheduled time, or return to the clinical site during this time-off period, to care for a patient. The requirement preserves the flexibility for fellows to make those choices. It is also noted that the 80-hour weekly limit (averaged over four weeks) is a deterrent for scheduling fewer than eight hours off between clinical and education work periods, as it would be difficult for a program to design a schedule that provides fewer than eight hours off without violating the 80-hour rule.

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1729 VI.F.2.c) Fellows must have at least 14 hours free of clinical work and  
1730 education after 24 hours of in-house call. <sup>(Core)</sup>

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

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1733 VI.F.2.d) Fellows must be scheduled for a minimum of one day in  
1734 seven free of clinical work and required education (when  
1735 averaged over four weeks). At-home call cannot be assigned  
1736 on these free days. <sup>(Core)</sup>

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

defined in the ACGME Glossary of Terms as “one (1) continuous 24-hour period free from all administrative, clinical, and educational activities.”

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- VI.F.3. Maximum Clinical Work and Education Period Length**
- VI.F.3.a) Clinical and educational work periods for fellows must not exceed 24 hours of continuous scheduled clinical assignments. <sup>(Core)</sup>**
- 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 fellow education. <sup>(Core)</sup>**
- VI.F.3.a).(1).(a) Additional patient care responsibilities must not be assigned to a fellow during this time. <sup>(Core)</sup>**

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

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- VI.F.4. Clinical and Educational Work Hour Exceptions**
- VI.F.4.a) In rare circumstances, after handing off all other responsibilities, a fellow, on their own initiative, may elect to remain or return to the clinical site in the following circumstances:**
- VI.F.4.a).(1) to continue to provide care to a single severely ill or unstable patient; <sup>(Detail)</sup>**
- VI.F.4.a).(2) humanistic attention to the needs of a patient or family; or, <sup>(Detail)</sup>**
- VI.F.4.a).(3) to attend unique educational events. <sup>(Detail)</sup>**
- VI.F.4.b) These additional hours of care or education will be counted toward the 80-hour weekly limit. <sup>(Detail)</sup>**

**Background and Intent: This requirement is intended to provide fellows with some control over their schedules by providing the flexibility to voluntarily remain beyond the scheduled responsibilities under the circumstances described above. It is important to note that a fellow may remain to attend a conference, or return for a conference later in the day, only if the decision is made voluntarily. Fellows must not be required to stay. Programs allowing fellows to remain or return beyond the scheduled work and clinical education period must ensure that the decision to remain is initiated by the fellow and**

that fellows are not coerced. This additional time must be counted toward the 80-hour maximum weekly limit.

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**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.

The Review Committee for Diagnostic Radiology will not consider requests for exceptions to the 80-hour limit to the fellows' work week.

**VI.F.4.c).(1)** In preparing a request for an exception, the program director must follow the clinical and educational work hour exception policy from the *ACGME Manual of Policies and Procedures*. <sup>(Core)</sup>

**VI.F.4.c).(2)** Prior to submitting the request to the Review Committee, the program director must obtain approval from the Sponsoring Institution's GMEC and DIO. <sup>(Core)</sup>

**Background and Intent:** The provision for exceptions for up to 88 hours per week has been modified to specify that exceptions may be granted for specific rotations if the program can justify the increase based on criteria specified by the Review Committee. As in the past, Review Committees may opt not to permit exceptions. The underlying philosophy for this requirement is that while it is expected that all fellows should be able to train within an 80-hour work week, it is recognized that some programs may include rotations with alternate structures based on the nature of the specialty. DIO/GMEC approval is required before the request will be considered by the Review Committee.

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**VI.F.5. Moonlighting**

**VI.F.5.a)** Moonlighting must not interfere with the ability of the fellow to achieve the goals and objectives of the educational program, and must not interfere with the fellow's fitness for work nor compromise patient safety. <sup>(Core)</sup>

**VI.F.5.b)** Time spent by fellows in internal and external moonlighting (as defined in the ACGME Glossary of Terms) must be counted toward the 80-hour maximum weekly limit. <sup>(Core)</sup>

**Background and Intent:** For additional clarification of the expectations related to moonlighting, please refer to the Common Program Requirement FAQs (available at <http://www.acgme.org/What-We-Do/Accreditation/Common-Program-Requirements>).

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**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. <sup>(Core)</sup>

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**Background and Intent: The requirement for no more than six consecutive nights of night float was removed to provide programs with increased flexibility in scheduling.**

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

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**Fellows must be scheduled for in-house call no more frequently than every third night (when averaged over a four-week period). <sup>(Core)</sup>**

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**VI.F.8. At-Home Call**

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**VI.F.8.a) Time spent on patient care activities by fellows on at-home call must count toward the 80-hour maximum weekly limit.**

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**The frequency of at-home call is not subject to the every-third-night limitation, but must satisfy the requirement for one day in seven free of clinical work and education, when averaged over four weeks. <sup>(Core)</sup>**

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**VI.F.8.a).(1) At-home call must not be so frequent or taxing as to preclude rest or reasonable personal time for each fellow. <sup>(Core)</sup>**

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**VI.F.8.b) Fellows are permitted to return to the hospital while on at-home call to provide direct care for new or established patients. These hours of inpatient patient care must be included in the 80-hour maximum weekly limit. <sup>(Detail)</sup>**

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**Background and Intent: This requirement has been modified to specify that clinical work done from home when a fellow is taking at-home call must count toward the 80-hour maximum weekly limit. This change acknowledges the often significant amount of time fellows devote to clinical activities when taking at-home call, and ensures that taking at-home call does not result in fellows 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 fellowship programs, Review Committees will look at the overall impact of at-home call on fellow rest and personal time.**

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**\*Core Requirements:** Statements that define structure, resource, or process elements essential to every graduate medical educational program.

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**†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.

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1844 ‡**Outcome Requirements:** Statements that specify expected measurable or observable  
1845 attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their  
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1848 **Osteopathic Recognition**

1849 For programs with or applying for Osteopathic Recognition, the Osteopathic Recognition  
1850 Requirements also apply ([www.acgme.org/OsteopathicRecognition](http://www.acgme.org/OsteopathicRecognition)).

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