

**ACGME Program Requirements for  
Graduate Medical Education  
in ~~Endovascular Surgical Neuroradiology~~ Neuroendovascular  
Intervention**

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1 **Proposed ACGME Program Requirements for Graduate Medical Education**  
2 **in Neuroendovascular Intervention ~~Endovascular Surgical Neuroradiology~~**

3  
4 **Common Program Requirements (Fellowship) are in BOLD**

5  
6 *Note: As part of this revision, this subspecialty has been moved from the Common Program*  
7 *Requirements (One-Year Fellowship) to the Common Program Requirements (Fellowship).*

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

12  
**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.**

13  
14 **Introduction**

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

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

40  
41 *In addition to clinical education, many fellowship programs advance*  
42 *fellows' skills as physician-scientists. While the ability to create new*  
43 *knowledge within medicine is not exclusive to fellowship-educated*  
44 *physicians, the fellowship experience expands a physician's abilities to*  
45 *pursue hypothesis-driven scientific inquiry that results in contributions to*  
46 *the medical literature and patient care. Beyond the clinical subspecialty*

47 *expertise achieved, fellows develop mentored relationships built on an*  
48 *infrastructure that promotes collaborative research.*

49  
50 **Int.B. Definition of Subspecialty**

51  
52 Int.B.1. ~~Endovascular surgical neuroradiology~~ Neuroendovascular intervention is  
53 a subspecialty that uses minimally invasive catheter-based technology,  
54 radiologic imaging, and clinical expertise to diagnose and treat diseases  
55 of the central nervous system, head, neck, and spine. The unique clinical  
56 and invasive nature of this subspecialty requires special training and  
57 skills.

58  
59 Int.B.2. ~~In this subspecialty, the objective of training is to give fellows an~~  
60 ~~organized, comprehensive, supervised, and full-time educational~~  
61 ~~experience in endovascular surgical neuroradiology.~~

62  
63 **Int.C. Length of Educational Program**

64  
65 ~~The program shall offer one year of graduate medical education in endovascular~~  
66 ~~surgical neuroradiology.~~ <sup>(Core)\*</sup> The educational program in neuroendovascular  
67 intervention must be at least 24 months in length. <sup>(Core)</sup>

68  
69 **I. Oversight**

70  
71 **I.A. Sponsoring Institution**

72  
73 *The Sponsoring Institution is the organization or entity that assumes the*  
74 *ultimate financial and academic responsibility for a program of graduate*  
75 *medical education consistent with the ACGME Institutional Requirements.*

76  
77 *When the Sponsoring Institution is not a rotation site for the program, the*  
78 *most commonly utilized site of clinical activity for the program is the*  
79 *primary clinical site.*

80  
**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.**

81  
82 **I.A.1. The program must be sponsored by one ACGME-accredited**  
83 **Sponsoring Institution.** <sup>(Core)</sup>

84  
85 **I.B. Participating Sites**

86  
87 *A participating site is an organization providing educational experiences or*  
88 *educational assignments/rotations for fellows.*

- 89  
90 **I.B.1. The program, with approval of its Sponsoring Institution, must**  
91 **designate a primary clinical site.** <sup>(Core)</sup>  
92  
93 I.B.1.a) A program in neuroendovascular intervention ~~endovascular~~  
94 ~~surgical neuroendovascular~~ must be jointly administered by programs  
95 in ~~neurological surgery~~, diagnostic radiology, neurological surgery,  
96 neuroradiology, and child neurology or neurology which are  
97 accredited by the ACGME; these programs must be present within  
98 the same primary clinical site ~~institution~~. <sup>(Core)</sup>  
99  
100 I.B.1.a).(1) Exceptions to this requirement will be subject to the review  
101 and approval, on a case-by-case basis, by the Review  
102 Committees for Neurological Surgery, Neurology, and  
103 Radiology. ~~The endovascular surgical neuroendovascular~~  
104 ~~program is not intended to replace or duplicate the~~  
105 ~~ACGME-accredited program in neuroradiology.~~  
106  
107 **I.B.2. There must be a program letter of agreement (PLA) between the**  
108 **program and each participating site that governs the relationship**  
109 **between the program and the participating site providing a required**  
110 **assignment.** <sup>(Core)</sup>  
111  
112 I.B.2.a) **The PLA must:**  
113  
114 I.B.2.a).(1) **be renewed at least every 10 years; and,** <sup>(Core)</sup>  
115  
116 I.B.2.a).(2) **be approved by the designated institutional official**  
117 **(DIO).** <sup>(Core)</sup>  
118  
119 **I.B.3. The program must monitor the clinical learning and working**  
120 **environment at all participating sites.** <sup>(Core)</sup>  
121  
122 I.B.3.a) **At each participating site there must be one faculty member,**  
123 **designated by the program director, who is accountable for**  
124 **fellow education for that site, in collaboration with the**  
125 **program director.** <sup>(Core)</sup>  
126

**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) Equipment and Facilities

I.D.1.a).(1) Modern imaging/procedure rooms and equipment must be available and ~~must~~ permit the performance of all neuroendovascular intervention ~~endovascular surgical neuroradiology~~ procedures. <sup>(Core)</sup>

I.D.1.a).(2) Rooms in which neuroendovascular intervention ~~endovascular surgical neuroradiology~~ procedures are performed ~~must~~ should be equipped with physiological monitoring and resuscitative equipment. <sup>(Core)</sup>

I.D.1.a).(2).(a) The following state-of-the-art equipment must be available:

I.D.1.a).(2).(a).(i) magnetic resonance imaging (MRI) scanner equipped with high speed gradients, and perfusion capability; <sup>(Core)</sup>

- 164  
165 I.D.1.a).(2).(a).(ii) computed tomography (CT) scanner (multi-  
166 detector) capable of CT angiography and  
167 CT perfusion; <sup>(Core)</sup>  
168  
169 I.D.1.a).(2).(a).(iii) biplane digital subtraction angiography with  
170 roadmap and 3-dimensional imaging  
171 capability; <sup>(Core)</sup>  
172  
173 I.D.1.a).(2).(a).(iv) ultrasound; and ; <sup>(Core)</sup>  
174  
175 I.D.1.a).(2).(a).(v) radiographic-fluoroscopic room(s). <sup>(Core)</sup>  
176  
177 I.D.1.a).(3) Facilities for storing catheters, guidewires, contrast  
178 materials, embolic agents, and other supplies must be  
179 adjacent to or within procedure rooms. <sup>(Core)</sup>  
180  
181 I.D.1.a).(4) There must be adequate space and facilities for image  
182 display and interpretation, and for consultation with other  
183 clinicians. <sup>(Core)</sup>  
184  
185 I.D.1.a).(5) The sites where neuroendovascular intervention  
186 endovascular surgical neuroradiology training is conducted  
187 must include appropriate inpatient, outpatient, emergency,  
188 and intensive care facilities for direct fellow involvement in  
189 providing comprehensive neuroendovascular intervention  
190 endovascular surgical neuroradiology care. <sup>(Core)</sup>  
191  
192 I.D.1.a).(6) The Sponsoring Institution should provide laboratory  
193 facilities to support research projects pertinent to  
194 endovascular therapies. <sup>(Detail)†</sup>  
195  
196 **I.D.2. The program, in partnership with its Sponsoring Institution, must**  
197 **ensure healthy and safe learning and working environments that**  
198 **promote fellow well-being and provide for:** <sup>(Core)</sup>  
199  
200 **I.D.2.a) access to food while on duty;** <sup>(Core)</sup>  
201  
202 **I.D.2.b) safe, quiet, clean, and private sleep/rest facilities available**  
203 **and accessible for fellows with proximity appropriate for safe**  
204 **patient care;** <sup>(Core)</sup>  
205

**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.**

206  
207 I.D.2.c) clean and private facilities for lactation that have refrigeration  
208 capabilities, with proximity appropriate for safe patient care;  
209 (Core)  
210

**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).**

211  
212 I.D.2.d) security and safety measures appropriate to the participating  
213 site; and, (Core)  
214

215 I.D.2.e) accommodations for fellows with disabilities consistent with  
216 the Sponsoring Institution's policy. (Core)  
217

218 I.D.3. Fellows must have ready access to subspecialty-specific and other  
219 appropriate reference material in print or electronic format. This  
220 must include access to electronic medical literature databases with  
221 full text capabilities. (Core)  
222

223 I.D.4. The program's educational and clinical resources must be adequate  
224 to support the number of fellows appointed to the program. (Core)  
225

226 I.D.4.a) ~~The program must ensure~~ ~~In order to ensure adequate training,~~  
227 ~~the institution's an adequate patient population with~~ ~~must have a~~  
228 diversity of illnesses from which fellows may obtain a broad  
229 experience in neuroendovascular intervention ~~endovascular~~  
230 ~~surgical neuroradiology therapy can be obtained.~~ (Core)  
231

232 I.D.4.b) The case material should encompass a range of diseases,  
233 including: (Core)  
234

235 I.D.4.b).(1) a minimum of 250 therapeutic neuroendovascular  
236 procedures per year per fellow; (Core)  
237

238 I.D.4.b).(2) aneurysms; (Core)  
239

240 I.D.4.b).(3) arteriovenous malformation; (Core)  
241

242 I.D.4.b).(4) atherosclerotic disease of the cervical vessels; (Core)  
243

244 I.D.4.b).(5) occlusive vascular disease and acute infarction; (Core)  
245

246 I.D.4.b).(6) intracranial neoplasms; (Core)  
247

248 I.D.4.b).(7) vascular anomalies of the head and neck; (Core)  
249



- 250 I.D.4.b).(8) neoplasms of the head and neck; <sup>(Core)</sup>  
 251  
 252 I.D.4.b).(9) vascular anomalies of the spine; <sup>(Core)</sup>  
 253  
 254 I.D.4.b).(10) neoplasms of the spine; and, <sup>(Core)</sup>  
 255  
 256 I.D.4.b).(11) traumatic vascular lesions of the central nervous system  
 257 (CNS), head, neck, and spine. <sup>(Core)</sup>  
 258

259 I.D.4.c) ~~The total number of fellows in the program must be~~  
 260 ~~commensurate with the capacity of the program to offer an~~  
 261 ~~adequate educational experience in endovascular surgical~~  
 262 ~~neuroradiology therapy.~~ <sup>(Detail)</sup>  
 263

264 **I.E. *A fellowship program usually occurs in the context of many learners and***  
 265 ***other care providers and limited clinical resources. It should be structured***  
 266 ***to optimize education for all learners present.***  
 267

268 **I.E.1. Fellows should contribute to the education of residents in core**  
 269 **programs, if present.** <sup>(Core)</sup>  
 270  
 271

Subspecialty-Specific Background and Intent: It is desirable that fellows participate in the clinical teaching of child neurology, neurological surgery, and neurology residents, radiology and vascular neurology fellows, and medical students.

272  
 273 I.E.1.a) ~~It is desirable that they participate in the clinical teaching of~~  
 274 ~~neurological surgery, and of radiology fellows and medical~~  
 275 ~~students.~~ <sup>(Detail)</sup>  
 276

277 I.E.1.b) The program in neuroendovascular intervention ~~endovascular~~  
 278 ~~surgical neuroradiology~~ must not have an adverse impact on the  
 279 educational experience of child neurology, diagnostic radiology,  
 280 interventional radiology, neurocritical care, neuroradiology,  
 281 neurological surgery, ~~or neurology~~, neuroradiology, or vascular  
 282 neurology residents and fellows in the same institution. <sup>(CoreDetail)</sup>  
 283

**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.**

284  
 285 **II. Personnel**  
 286

287 **II.A. Program Director**  
 288

289 II.A.1. There must be one faculty member appointed as program director  
290 with authority and accountability for the overall program, including  
291 compliance with all applicable program requirements. <sup>(Core)</sup>  
292

293 II.A.1.a) The Sponsoring Institution’s Graduate Medical Education  
294 Committee (GMEC) must approve a change in program  
295 director. <sup>(Core)</sup>  
296

297 II.A.1.b) Final approval of the program director resides with the  
298 Review Committee. <sup>(Core)</sup>  
299

**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.**

300 II.A.2. The program director must be provided with support adequate for  
301 administration of the program based upon its size and configuration.  
302 <sup>(Core)</sup>  
303

304 II.A.2.a) The program director support required to devote non-clinical time  
305 to the administration of the program must be provided as follows:  
306 <sup>(Core)</sup>  
307  
308

<u>Number of Approved Fellowship Positions</u>	<u>Minimum FTE Required</u>
<u>1-3 fellows</u>	<u>0.10 FTE</u>
<u>4 or more</u>	<u>0.15 FTE</u>

309 II.A.2.b) ~~The program director must have adequate support from the~~  
310 ~~institution and the radiology, neurological surgery, and child~~  
311 ~~neurology or neurology departments to carry out the mission of~~  
312 ~~the program.~~ <sup>(Core)</sup>  
313  
314

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

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

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

315 II.A.3. Qualifications of the program director:  
316  
317

318 II.A.3.a) must include subspecialty expertise and qualifications  
319 acceptable to the Review Committee; and, <sup>(Core)</sup>

320  
321 II.A.3.a).(1) This must include special expertise in neuroendovascular  
322 interventions ~~endovascular surgical neuroradiology~~  
323 techniques; <sup>(Core)</sup>

324  
325 II.A.3.a).(1).(a) ~~The program director must concentrate at least~~  
326 ~~50% of his or her practice in endovascular surgical~~  
327 ~~neuroradiology therapy.~~ <sup>(Core)</sup>

328  
329 **II.A.3.b) have current certification in the specialty by the American**  
330 **Board of Neurological Surgery, Psychiatry and Neurology,**  
331 **Radiology, or the American Osteopathic Board of Neurological**  
332 **Surgery, Neurology and Psychiatry, or Radiology, or possess**  
333 **qualifications judged acceptable to the Review Committee;**  
334 <sup>(Core)</sup>

335  
336 [Note that while the Common Program Requirements deem  
337 certification by a member board of the American Board of Medical  
338 Specialties (ABMS) or a certifying board of the American  
339 Osteopathic Association (AOA) acceptable, there is no ABMS or  
340 AOA board that offers certification in this subspecialty]

341  
342 II.A.3.c) ~~must include appointment by and responsibility to the program~~  
343 ~~director of the core program; and,~~ <sup>(Core)</sup>

344  
345 II.A.3.d) must include appointment to the faculty teaching staff in the  
346 departments of child neurology, neurology, neurological surgery,  
347 or radiology, neurological surgery, and child neurology, or  
348 neurology; and, <sup>(Core)</sup>

349  
350 II.A.3.e) must devote at least 50 percent of their practice to  
351 neuroendovascular intervention. <sup>(Core)</sup>

352  
353 **II.A.4. Program Director Responsibilities**

354  
355 **The program director must have responsibility, authority, and**  
356 **accountability for: administration and operations; teaching and**  
357 **scholarly activity; fellow recruitment and selection, evaluation, and**  
358 **promotion of fellows, and disciplinary action; supervision of fellows;**  
359 **and fellow education in the context of patient care.** <sup>(Core)</sup>

360  
361 **II.A.4.a) The program director must:**

362  
363 **II.A.4.a).(1) be a role model of professionalism;** <sup>(Core)</sup>

**Background and Intent: The program director, as the leader of the program, must serve as a role model to 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**

365 director creates an environment where respectful discussion is welcome, with the goal  
366 of continued improvement of the educational experience.  
367

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

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

- 371 **II.A.4.a).(3)** administer and maintain a learning environment  
372 conducive to educating the fellows in each of the  
373 ACGME Competency domains; <sup>(Core)</sup>  
374  
375

**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.

- 376 **II.A.4.a).(4)** develop and oversee a process to evaluate candidates  
377 prior to approval as program faculty members for  
378 participation in the fellowship program education and  
379 at least annually thereafter, as outlined in V.B.; <sup>(Core)</sup>  
380

- 381 **II.A.4.a).(5)** have the authority to approve program faculty  
382 members for participation in the fellowship program  
383 education at all sites; <sup>(Core)</sup>  
384

- 385 **II.A.4.a).(6)** have the authority to remove program faculty  
386 members from participation in the fellowship program  
387 education at all sites; <sup>(Core)</sup>  
388

- 389 **II.A.4.a).(7)** have the authority to remove fellows from supervising  
390 interactions and/or learning environments that do not  
391 meet the standards of the program; <sup>(Core)</sup>  
392  
393

**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.

- 394  
395 **II.A.4.a).(8)** submit accurate and complete information required  
396 and requested by the DIO, GMEC, and ACGME; <sup>(Core)</sup>  
397
- 398 **II.A.4.a).(9)** provide applicants who are offered an interview with  
399 information related to the applicant's eligibility for the  
400 relevant subspecialty board examination(s); <sup>(Core)</sup>  
401
- 402 **II.A.4.a).(10)** provide a learning and working environment in which  
403 fellows have the opportunity to raise concerns and  
404 provide feedback in a confidential manner as  
405 appropriate, without fear of intimidation or retaliation;  
406 <sup>(Core)</sup>  
407
- 408 **II.A.4.a).(11)** ensure the program's compliance with the Sponsoring  
409 Institution's policies and procedures related to  
410 grievances and due process; <sup>(Core)</sup>  
411
- 412 **II.A.4.a).(12)** ensure the program's compliance with the Sponsoring  
413 Institution's policies and procedures for due process  
414 when action is taken to suspend or dismiss, not to  
415 promote, or not to renew the appointment of a fellow;  
416 <sup>(Core)</sup>  
417

**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.**

- 418  
419 **II.A.4.a).(13)** ensure the program's compliance with the Sponsoring  
420 Institution's policies and procedures on employment  
421 and non-discrimination; <sup>(Core)</sup>  
422
- 423 **II.A.4.a).(13).(a)** Fellows must not be required to sign a non-  
424 competition guarantee or restrictive covenant.  
425 <sup>(Core)</sup>  
426
- 427 **II.A.4.a).(14)** document verification of program completion for all  
428 graduating fellows within 30 days; <sup>(Core)</sup>  
429
- 430 **II.A.4.a).(15)** provide verification of an individual fellow's  
431 completion upon the fellow's request, within 30 days;  
432 and, <sup>(Core)</sup>  
433

**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.**

434

435 II.A.4.a).(16) obtain review and approval of the Sponsoring  
436 Institution’s DIO before submitting information or  
437 requests to the ACGME, as required in the Institutional  
438 Requirements and outlined in the ACGME Program  
439 Director’s Guide to the Common Program  
440 Requirements. <sup>(Core)</sup>  
441

442 II.B. Faculty

443  
444 *Faculty members are a foundational element of graduate medical education*  
445 *– faculty members teach fellows how to care for patients. Faculty members*  
446 *provide an important bridge allowing fellows to grow and become practice*  
447 *ready, ensuring that patients receive the highest quality of care. They are*  
448 *role models for future generations of physicians by demonstrating*  
449 *compassion, commitment to excellence in teaching and patient care,*  
450 *professionalism, and a dedication to lifelong learning. Faculty members*  
451 *experience the pride and joy of fostering the growth and development of*  
452 *future colleagues. The care they provide is enhanced by the opportunity to*  
453 *teach. By employing a scholarly approach to patient care, faculty members,*  
454 *through the graduate medical education system, improve the health of the*  
455 *individual and the population.*

456  
457 *Faculty members ensure that patients receive the level of care expected*  
458 *from a specialist in the field. They recognize and respond to the needs of*  
459 *the patients, fellows, community, and institution. Faculty members provide*  
460 *appropriate levels of supervision to promote patient safety. Faculty*  
461 *members create an effective learning environment by acting in a*  
462 *professional manner and attending to the well-being of the fellows and*  
463 *themselves.*  
464

**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.**

465  
466 II.B.1. For each participating site, there must be a sufficient number of  
467 faculty members with competence to instruct and supervise all  
468 fellows at that location. <sup>(Core)</sup>  
469

470 II.B.1.a) There must be at least one faculty member with expertise in open  
471 cerebrovascular surgery available to the program. <sup>(Core)</sup>  
472

473 II.B.1.a).(1) This faculty member should have a teaching appointment  
474 in the departments of child neurology, neurological  
475 surgery, neurology, or radiology. <sup>(Detail)</sup> ~~In addition to the~~  
476 ~~program director, the physician faculty must include at~~  
477 ~~least one full-time member with expertise in endovascular~~  
478 ~~surgical neuroradiology techniques.~~ <sup>(Core)</sup>  
479

480 II.B.1.b) There must be at least two faculty members with expertise in  
481 neuroendovascular intervention or neuroendovascular surgery for  
482 each fellow in the program. <sup>(Core)</sup>

- 483  
 484 **II.B.2. Faculty members must:**  
 485  
 486 **II.B.2.a) be role models of professionalism;** <sup>(Core)</sup>  
 487  
 488 **II.B.2.b) demonstrate commitment to the delivery of safe, quality,**  
 489 **cost-effective, patient-centered care;** <sup>(Core)</sup>  
 490

**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.**

- 491  
 492 **II.B.2.c) demonstrate a strong interest in the education of fellows;** <sup>(Core)</sup>  
 493  
 494 **II.B.2.d) devote sufficient time to the educational program to fulfill**  
 495 **their supervisory and teaching responsibilities;** <sup>(Core)</sup>  
 496  
 497 **II.B.2.e) administer and maintain an educational environment**  
 498 **conducive to educating fellows;** <sup>(Core)</sup>  
 499  
 500 **II.B.2.f) regularly participate in organized clinical discussions,**  
 501 **rounds, journal clubs, and conferences;** <sup>(Core)</sup>  
 502  
 503 **II.B.2.g) pursue faculty development designed to enhance their skills**  
 504 **at least annually;** <sup>(Core)</sup>  
 505  
 506 **II.B.2.h) encourage and support fellows in scholarly activities; and,** <sup>(Core)</sup>  
 507  
 508 **II.B.2.i) ~~The physician faculty must provide didactic teaching and direct~~**  
 509 **~~supervision of fellows' performance in clinical patient management~~**  
 510 **~~and in the procedural, interpretive, and consultative aspects of~~**  
 511 **~~neuroendovascular intervention-endovascular surgical~~**  
 512 **~~neuroradiology therapy.~~** <sup>(Core)</sup> [Moved from IV.C.7.]  
 513

**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.**

- 514  
 515 **II.B.3. Faculty Qualifications**  
 516  
 517 **II.B.3.a) Faculty members must have appropriate qualifications in**  
 518 **their field and hold appropriate institutional appointments.**  
 519 <sup>(Core)</sup>  
 520  
 521 **II.B.3.b) Subspecialty physician faculty members must:**

522  
523 **II.B.3.b).(1)** **have current certification in the specialty by the**  
524 **American Board of Neurological Surgery, Psychiatry and**  
525 **Neurology, Radiology, or the American Osteopathic**  
526 **Board of Neurological Surgery, Neurology and Psychiatry,**  
527 **Radiology, or possess qualifications judged acceptable**  
528 **to the Review Committee; <sup>(Core)</sup>**

529  
530 [Note that while the Common Program Requirements  
531 deem certification by a member board of the American  
532 Board of Medical Specialties (ABMS) or a certifying board  
533 of the American Osteopathic Association (AOA)  
534 acceptable, there is no ABMS or AOA board that offers  
535 certification in this subspecialty]  
536

537 **II.B.3.b).(2)** **devote ~~concentrate~~ at least 50 percent of their practice ~~in~~**  
538 **to neuroendovascular interventions ~~endovascular surgical~~**  
539 **neuroradiology therapy; <sup>(Core)</sup>**

540  
541 **II.B.3.b).(3)** **The ~~physician faculty~~ must be appointed in good standing**  
542 **to the faculty staff of an institution participating in the**  
543 **program; and, <sup>(Core)</sup>**

544  
545 **II.B.3.b).(4)** **The ~~physician faculty~~ should hold primary and/or joint**  
546 **appointments in the departments of child neurology or**  
547 **neurology, neurological surgery, and radiology;**  
548 **neurological surgery, and child neurology or neurology**  
549 **departments. <sup>(Detail)</sup>**

550  
551 **II.B.3.c)** **Any non-physician faculty members who participate in**  
552 **fellowship program education must be approved by the**  
553 **program director. <sup>(Core)</sup>**

**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.**

555  
556 **II.B.3.d)** **Any other specialty physician faculty members must have**  
557 **current certification in their specialty by the appropriate**  
558 **American Board of Medical Specialties (ABMS) member**  
559 **board or American Osteopathic Association (AOA) certifying**  
560 **board, or possess qualifications judged acceptable to the**  
561 **Review Committee. <sup>(Core)</sup>**

562  
563 **II.B.4. Core Faculty**  
564



565 Core faculty members must have a significant role in the education  
566 and supervision of fellows and must devote a significant portion of  
567 their entire effort to fellow education and/or administration, and  
568 must, as a component of their activities, teach, evaluate, and provide  
569 formative feedback to fellows. <sup>(Core)</sup>  
570

**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.

571  
572 **II.B.4.a)** Core faculty members must be designated by the program  
573 director. <sup>(Core)</sup>  
574

575 **II.B.4.b)** Core faculty members must complete the annual ACGME  
576 Faculty Survey. <sup>(Core)</sup>  
577

578 **II.B.4.c)** There must be at least two core faculty members, including the  
579 program director, with expertise in neuroendovascular intervention  
580 or neuroendovascular surgery. The faculty-to-fellow ratio must be  
581 at least one faculty person for every fellow enrolled in the  
582 program. <sup>(Core)</sup>  
583

584 **II.C. Program Coordinator**

585  
586 **II.C.1.** There must be a program coordinator. <sup>(Core)</sup>  
587

588 **II.C.2.** The program coordinator must be provided with support adequate  
589 for administration of the program based upon its size and  
590 configuration. <sup>(Core)</sup>  
591

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

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

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

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598

**II.D. Other Program Personnel**

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

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

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604

II.D.1. There should be nurses and technicians skilled in neuroendovascular intervention, radiological equipment, critical care instrumentation, respiratory function, and laboratory medicine available to the program.  
<sup>(Core)</sup>

605  
606

**III. Fellow Appointments**

607  
608

**III.A. Eligibility Criteria**

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610

**III.A.1. Eligibility Requirements – Fellowship Programs**

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618

**Neurology or Radiology: All required clinical education for entry into ACGME-accredited fellowship programs must be completed in an ACGME-accredited residency program, an AOA-approved residency program, a program with ACGME International (ACGME-I) Advanced Specialty Accreditation, or a Royal College of Physicians and Surgeons of Canada (RCPSC)-accredited or College of Family Physicians of Canada (CFPC)-accredited residency program located in Canada.** <sup>(Core)</sup>

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624

**Neurological Surgery: All required clinical education for entry into ACGME-accredited fellowship programs must be completed in an ACGME-accredited residency program or an AOA-approved residency program.** <sup>(Core)</sup>

**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).**

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626  
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631

**III.A.1.a) Neurology or Radiology: Fellowship programs must receive verification of each entering fellow’s level of competence in the required field, upon matriculation, using ACGME, ACGME-I, or CanMEDS Milestones evaluations from the core residency program.** <sup>(Core)</sup>

632 **Neurological Surgery:**  
633 **Fellowship programs must receive verification of each**  
634 **entering fellow’s level of competence in the required field,**  
635 **upon matriculation, using ACGME Milestones evaluations**  
636 **from the core residency program.** <sup>(Core)</sup>  
637

638 III.A.1.b) ~~The preliminary year in neuroradiology may be performed in the~~  
639 ~~same institution as the endovascular surgical neuroradiology~~  
640 ~~fellowship or in another institution with ACGME-accredited~~  
641 ~~residencies in radiology, neuroradiology, neurological surgery, and~~  
642 ~~neurology. For fellows who obtain preparatory training in another~~  
643 ~~institution, documentation of completion of training must be~~  
644 ~~provided by the neuroradiology program director for that~~  
645 ~~institution. The endovascular surgical neuroradiology program~~  
646 ~~director has the responsibility and authority to assess the~~  
647 ~~adequacy of the preparatory training and to verify that all~~  
648 ~~preliminary training requirements have been fulfilled.~~ <sup>(Detail)</sup>  
649

#### Prerequisite Postgraduate Education

651  
652 III.A.1.b).(1) Radiology Pathway 1: Fellows entering from diagnostic  
653 radiology must ~~should~~ have:

654  
655 III.A.1.b).(1).(a) completed an ACGME-, AOA-, or ACGME-I-  
656 accredited residency in diagnostic radiology or an  
657 RCPSC-accredited residency in diagnostic  
658 radiology located in Canada; and, <sup>(Core)</sup>  
659

660 III.A.1.b).(1).(b) completed an ACGME-, AOA-, or ACGME-I-  
661 accredited fellowship (subspecialty residency) in  
662 neuroradiology or an RCPSC-accredited fellowship  
663 in neuroradiology located in Canada; <sup>(Core)</sup>  
664

665 III.A.1.b).(2) Radiology Pathway 2: Fellows entering from diagnostic  
666 radiology programs are eligible to be considered for  
667 advanced placement in the second year of the  
668 neuroendovascular intervention program and:

669  
670 III.A.1.b).(2).(a) must have completed an ACGME-, AOA-, or  
671 ACGME-I-accredited residency in diagnostic  
672 radiology or an RCPSC-accredited residency in  
673 diagnostic radiology located in Canada; and, <sup>(Core)</sup>  
674

675 III.A.1.b).(2).(b) must have completed an ACGME-, AOA-, or  
676 ACGME-I-accredited fellowship in neuroradiology  
677 or an RCPSC-accredited fellowship in  
678 neuroradiology located in Canada; and, <sup>(Core)</sup>  
679

680 III.A.1.b).(2).(c) during the PGY-5 of diagnostic radiology residency  
681 and the PGY-6 of neuroradiology fellowship, must  
682 complete six months of clinical rotations and

- 683 training in neurological surgery, vascular neurology,  
684 or neurointensive care with emphasis on becoming  
685 competent in the outpatient evaluation and care of  
686 pre- and post-procedure endovascular patients, as  
687 well as in the management of patients in the  
688 neurointensive care environment; and, <sup>(Core)</sup>  
689
- 690 III.A.1.b).(2).(d) during the PGY-5 of diagnostic radiology residency  
691 and the PGY-6 of neuroradiology fellowship, must  
692 complete at least 200 neuroangiograms under the  
693 supervision of a qualified physician (an  
694 ABR/AOBR-certified radiologist or interventional  
695 neuroradiologist, an ABNS/AOBS-certified  
696 endovascular neurosurgeon, or an ABNP/AOBNP-  
697 certified interventional neurologist with appropriate  
698 training). <sup>(Core)</sup>  
699
- 700 III.A.1.b).(3) Radiology Pathway 3: Fellows entering from interventional  
701 radiology must have:  
702
- 703 III.A.1.b).(3).(a) completed an ACGME-, AOA-, or ACGME-I-  
704 accredited residency in interventional radiology or  
705 an RCPSC-accredited residency in interventional  
706 radiology located in Canada. <sup>(Core)</sup>  
707
- 708 III.A.1.b).(4) Radiology Pathway 4: Fellows entering from interventional  
709 radiology are eligible to be considered for advanced  
710 placement in the second year of the neuroendovascular  
711 intervention program and:  
712
- 713 III.A.1.b).(4).(a) must have completed an ACGME-, AOA-, or  
714 ACGME-I-accredited residency in interventional  
715 radiology or an RCPSC-accredited residency in  
716 interventional radiology located in Canada; and,  
717 <sup>(Core)</sup>  
718
- 719 III.A.1.b).(4).(b) must have completed an ACGME-, AOA-, or  
720 ACGME-I-accredited fellowship in neuroradiology  
721 or an RCPSC-accredited fellowship in  
722 neuroradiology located in Canada; and, <sup>(Core)</sup>  
723
- 724 III.A.1.b).(4).(c) during the PGY-5 and -6 of interventional radiology  
725 residency and the PGY-7 of neuroradiology  
726 fellowship, must complete six months of clinical  
727 rotations and training in neurological surgery,  
728 vascular neurology, or neurointensive care with  
729 emphasis on becoming competent in the outpatient  
730 evaluation and care of pre- and post-procedure  
731 endovascular patients, as well as in the  
732 management of patients in the neurointensive care  
733 environment; and, <sup>(Core)</sup>

734		
735	III.A.1.b).(4).(d)	<u>during the PGY-5 and -6 of interventional radiology residency and the PGY-7 of neuroradiology fellowship, must complete at least 200 neuroangiograms under the supervision of a qualified physician (an ABR/AOBR-certified radiologist or interventional neuroradiologist, an ABNS/AOBS-certified endovascular neurosurgeon, or an ABNP/AOBNP-certified interventional neurologist with appropriate training).</u> <sup>(Core)</sup>
736		
737		
738		
739		
740		
741		
742		
743		
744		
745	III.A.1.b).(4).(d).(i)	<del>performed and interpreted a minimum of 100 diagnostic neuroangiograms under the supervision of a qualified physician (a board-certified radiologist, interventional neuroradiologist, endovascular neurosurgeon or interventional neurologist with appropriate training); and,</del> <sup>(Core)</sup>
746		
747		
748		
749		
750		
751		
752		
753	III.A.1.b).(4).(d).(ii)	<del>completed six months' training in neurologic surgery, vascular neurology, and neurointensive care, during which the fellow will become proficient in the outpatient evaluation and care of pre and post-procedure endovascular patients, as well as in the management of patients in the neurointensive care environment.</del> <sup>(Core)</sup>
754		
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761		
762	III.A.1.b).(4).(d).(ii).(a)	<del>This may be completed during the radiology residency.</del> <sup>(Detail)</sup>
763		
764		
765	III.A.1.b).(5)	<u>Fellows entering from neurological surgery are eligible to be considered for advanced placement in the second year of the neuroendovascular intervention fellowship and must</u>
766		<u>should have:</u>
767		
768		
769		
770	III.A.1.b).(5).(a)	completed an ACGME- or AOA-accredited residency in neurological surgery, and, <sup>(Core)</sup>
771		
772		
773	III.A.1.b).(5).(b)	completed a preparatory year of neuroradiology training <del>which that</del> provides education and clinical experience. <del>The preparatory year</del> may occur during the neurological surgery residency, and should include: <sup>(Core)</sup>
774		
775		
776		
777		
778		
779	III.A.1.b).(5).(b).(i)	a course in basic radiographic skills, including radiation physics, radiation biology, and radiation protection; and the pharmacology of radiographic contrast materials acceptable to the program director
780		
781		
782		
783		

784		where the neuroradiology training will occur;
785		(Core)
786		
787	III.A.1.b).(5).(b).(ii)	performing and interpreting a minimum of
788		<del>100-200</del> diagnostic neuroangiograms under
789		the supervision of a qualified physician ( <u>an</u>
790		<u>ABR/AOBR-certified radiologist or</u>
791		<u>interventional neuroradiologist, an</u>
792		<u>ABNS/AOBS-certified endovascular</u>
793		<u>neurosurgeon, or an ABNP/AOBNP-certified</u>
794		<u>interventional neurologist with appropriate</u>
795		<u>training</u> <del>(a Board-certified radiologist,</del>
796		<del>interventional neuroradiologist,</del>
797		<del>endovascular neurosurgeon, or</del>
798		<del>interventional neurologist with appropriate</del>
799		<del>training);</del> (Core)
800		
801	III.A.1.b).(5).(b).(iii)	the use of needles, catheters, guidewires,
802		and angiographic devices and materials;
803		(Core)
804		
805	III.A.1.b).(5).(b).(iv)	recognition and management of
806		complication of angiographic procedures;
807		and, (Core)
808		
809	III.A.1.b).(5).(b).(v)	understanding the fundamentals of non-
810		invasive neurovascular imaging studies
811		pertinent to the practice of
812		<u>neuroendovascular intervention</u>
813		<del>endovascular surgical neuroradiology,</del>
814		including CT/CTA, MR/MRA, and
815		sonography of neurovascular diseases. (Core)
816		

<p><u>Subspecialty-Specific Background and Intent: Fellows entering from neurological surgery who have not met all of the above criteria for advanced placement may be subject to additional fellowship time up to the full 24-month curriculum at the discretion of the neuroendovascular intervention program director.</u></p>
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817		
818	III.A.1.b).(6)	Fellows entering from neurology <u>are eligible to be</u>
819		<u>considered for advanced placement in the second year of</u>
820		<u>the neuroendovascular intervention fellowship and must</u>
821		<u>should have:</u>
822		
823	III.A.1.b).(6).(a)	completed an ACGME-, AOA-, <u>or ACGME-I-</u>
824		accredited residency in child neurology or
825		neurology or an RCPSC-accredited residency in
826		child neurology or neurology located in Canada;
827		<u>and,</u> (Core)
828		
829	III.A.1.b).(6).(b)	completed an ACGME-, AOA-, <u>or ACGME-I-</u>
830		accredited <del>one-year</del> <u>vascular/stroke neurology or</u>

831		<u>neurocritical care</u> program or an RCPSC-accredited
832		one-year vascular/stroke neurology program
833		located in Canada that includes at least three
834		months of neuro-intensive care; <u>and</u> , <sup>(Core)</sup>
835		
836	III.A.1.b).(6).(c)	<del>completed three months of clinical experience</del>
837		<del>within an ACGME-, AOA-, ACGME-I-accredited</del>
838		<del>neurological surgery program or an RCPSC-</del>
839		<del>accredited neurological surgery program located in</del>
840		<del>Canada;</del> <sup>(Core)</sup>
841		
842	III.A.1.b).(6).(d)	completed a preparatory year of neuroradiology
843		training, <del>which</del> <u>that</u> provides education and clinical
844		experience that includes: <sup>(Core)</sup>
845		
846	III.A.1.b).(6).(d).(i)	a course in basic radiographic skills,
847		including radiation physics, radiation
848		biology, and radiation protection; and the
849		pharmacology of radiographic contrast
850		materials acceptable to the program director
851		where the neuroradiology training will occur;
852		<sup>(Core)</sup>
853		
854	III.A.1.b).(6).(d).(ii)	performing and interpreting a minimum of
855		<del>400-200</del> diagnostic neuroangiograms under
856		the supervision of a qualified physician ( <u>an</u>
857		<u>ABR/AOBR-certified radiologist or</u>
858		<u>interventional neuroradiologist, an</u>
859		<u>ABNS/AOBS-certified endovascular</u>
860		<u>neurosurgeon, or an ABNP/AOBNP-certified</u>
861		<u>interventional neurologist with appropriate</u>
862		<u>training</u> )( <del>Board-certified neuroradiologist,</del>
863		<del>interventional neuroradiologist,</del>
864		<del>endovascular neurosurgeon, or intervening</del>
865		<del>neurologist with appropriate training);</del> <sup>(Core)</sup>
866		
867	III.A.1.b).(6).(d).(iii)	instruction in the use of needles, catheters,
868		guidewires, and angiographic devices and
869		materials; <sup>(Core)</sup>
870		
871	III.A.1.b).(6).(d).(iv)	recognition and management of
872		complication of angiographic procedures;
873		and, <sup>(Core)</sup>
874		
875	III.A.1.b).(6).(d).(v)	understanding the fundamentals of non-
876		invasive neurovascular imaging studies
877		pertinent to the practice of
878		<u>neuroendovascular intervention</u>
879		<del>endovascular surgical neuroradiology,</del>
880		including CT/CTA, MR/MRA and
881		sonography of neurovascular diseases. <sup>(Core)</sup>

882

Subspecialty-Specific Background and Intent: Fellows entering from neurology who have not met all of the above criteria for advanced placement may be subject to additional fellowship time up to the full 24-month curriculum at the discretion of the neuroendovascular intervention program director.

883

884

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

885

886

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

887

888

**III.A.1.c).(1)**

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

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**III.A.1.c).(1).(a)**

**evaluation by the program director and fellowship selection committee of the applicant's suitability to enter the program, based on prior training and review of the summative evaluations of training in the core specialty; and,** (Core)

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902

**III.A.1.c).(1).(b)**

**review and approval of the applicant's exceptional qualifications by the GMEC; and,**  
(Core)

904

905

906

**III.A.1.c).(1).(c)**

**verification of Educational Commission for Foreign Medical Graduates (ECFMG) certification.** (Core)

908

909

910

**III.A.1.c).(2)**

**Applicants accepted through this exception must have an evaluation of their performance by the Clinical Competency Committee within 12 weeks of matriculation.** (Core)

912

913

914

915

**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.

916  
917 **III.B.** The program director must not appoint more fellows than approved by the  
918 Review Committee. <sup>(Core)</sup>

919  
920 **III.B.1.** All complement increases must be approved by the Review  
921 Committee. <sup>(Core)</sup>

922  
923 **III.C.** Fellow Transfers  
924  
925 The program must obtain verification of previous educational experiences  
926 and a summative competency-based performance evaluation prior to  
927 acceptance of a transferring fellow, and Milestones evaluations upon  
928 matriculation. <sup>(Core)</sup>

929  
930 **IV.** Educational Program  
931

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

935  
936 *The educational program must support the development of knowledgeable, skillful*  
937 *physicians who provide compassionate care.*

938  
939 *In addition, the program is expected to define its specific program aims consistent*  
940 *with the overall mission of its Sponsoring Institution, the needs of the community*  
941 *it serves and that its graduates will serve, and the distinctive capabilities of*  
942 *physicians it intends to graduate. While programs must demonstrate substantial*  
943 *compliance with the Common and subspecialty-specific Program Requirements, it*  
944 *is recognized that within this framework, programs may place different emphasis*  
945 *on research, leadership, public health, etc. It is expected that the program aims*  
946 *will reflect the nuanced program-specific goals for it and its graduates; for*  
947 *example, it is expected that a program aiming to prepare physician-scientists will*  
948 *have a different curriculum from one focusing on community health.*

949  
950 **IV.A.** The curriculum must contain the following educational components: <sup>(Core)</sup>

951  
952 **IV.A.1.** a set of program aims consistent with the Sponsoring Institution's  
953 mission, the needs of the community it serves, and the desired  
954 distinctive capabilities of its graduates; <sup>(Core)</sup>

955  
956 **IV.A.1.a)** The program's aims must be made available to program  
957 applicants, fellows, and faculty members. <sup>(Core)</sup>

958  
959 **IV.A.2.** competency-based goals and objectives for each educational  
960 experience designed to promote progress on a trajectory to  
961 autonomous practice in their subspecialty. These must be  
962 distributed, reviewed, and available to fellows and faculty members;  
963 <sup>(Core)</sup>

964  
965 IV.A.3. delineation of fellow responsibilities for patient care, progressive  
966 responsibility for patient management, and graded supervision in  
967 their subspecialty; <sup>(Core)</sup>  
968

**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.

969  
970 IV.A.4. structured educational activities beyond direct patient care; and,  
971 <sup>(Core)</sup>  
972

**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.

973  
974 IV.A.5. advancement of fellows' knowledge of ethical principles  
975 foundational to medical professionalism. <sup>(Core)</sup>  
976

977 IV.B. ACGME Competencies  
978

**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.

979  
980 IV.B.1. The program must integrate the following ACGME Competencies  
981 into the curriculum: <sup>(Core)</sup>  
982

983 IV.B.1.a) Professionalism

984  
985 Fellows must demonstrate a commitment to professionalism  
986 and an adherence to ethical principles. <sup>(Core)</sup>  
987

988 IV.B.1.b) Patient Care and Procedural Skills  
989

**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.

990		
991	<b>IV.B.1.b).(1)</b>	<b>Fellows must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.</b> <sup>(Core)</sup>
992		
993		
994		
995		
996	IV.B.1.b).(1).(a)	Fellows must demonstrate competence as consultants under the supervision of <del>staff neuroendovascular intervention</del> <u>endovascular surgical neuroradiology practitioners.</u> <sup>(Core)</sup>
997		
998		
999		
1000		
1001	IV.B.1.b).(1).(b)	<u>Fellows must demonstrate competence in:</u>
1002		
1003	IV.B.1.b).(1).(b).(i)	<u>recognizing the signs and symptoms of disorders amenable to diagnosis and treatment by neuroendovascular intervention techniques;</u> <sup>(Core)</sup>
1004		
1005		
1006		
1007		
1008	IV.B.1.b).(1).(b).(ii)	<u>the recognition and management of indications and contraindications to neuroendovascular intervention procedures;</u> <sup>(Core)</sup>
1009		
1010		
1011		
1012		
1013	IV.B.1.b).(1).(b).(iii)	<u>managing the pre- and post-operative care of endovascular patients; and,</u> <sup>(Core)</sup>
1014		
1015		
1016	IV.B.1.b).(1).(b).(iv)	<u>managing patients requiring neurointensive care.</u> <sup>(Core)</sup>
1017		
1018		
1019	<b>IV.B.1.b).(2)</b>	<b>Fellows must be able to perform all medical, diagnostic, and surgical procedures considered essential for the area of practice.</b> <sup>(Core)</sup>
1020		
1021		
1022		
1023	IV.B.1.b).(2).(a)	Fellows must participate in and demonstrate competence in:
1024		
1025		
1026	IV.B.1.b).(2).(a).(i)	personally performing and analyzing a broad spectrum of endovascular procedures; <sup>(Core)</sup>
1027		
1028		
1029		
1030	<del>IV.B.1.b).(2).(a).(i).(a)</del>	<del>Fellows must perform a minimum of 100 therapeutic endovascular procedures;</del> <sup>(Core)</sup>
1031		
1032		
1033		

1034	IV.B.1.b).(2).(a).(ii)	the management of patients with neurological disease, the performance of <u>neuroendovascular intervention</u>
1035		<del>endovascular surgical neuroradiology</del>
1036		procedures, and the integration of <u>neuroendovascular intervention</u>
1037		<del>endovascular surgical neuroradiology</del>
1038		therapy into the clinical management of patients;
1039		(Core)
1040		
1041	IV.B.1.b).(2).(a).(iii)	performing clinical pre-procedure evaluations of patients and their preliminary diagnostic studies, and consulting with clinicians on other services;
1042		(Core)
1043		
1044	IV.B.1.b).(2).(a).(iv)	performing diagnostic and therapeutic <u>neuroendovascular intervention</u>
1045		<del>endovascular surgical neuroradiology</del>
1046		procedures;
1047		(Core)
1048		
1049	IV.B.1.b).(2).(a).(v)	<u>performing physical examinations to evaluate patients with neurological disorders;</u>
1050		(Core)
1051		
1052	IV.B.1.b).(2).(a).(vi)	<u>performing neurological examinations to evaluate patients with neurological disorders;</u>
1053		(Core)
1054		
1055	IV.B.1.b).(2).(a).(vii)	generating procedural reports; and,
1056		(Core)
1057		
1058	IV.B.1.b).(2).(a).(viii)	providing short-term and long-term post-procedure follow-up care, including neurointensive care.
1059		(Core)
1060		
1061	IV.B.1.b).(2).(a).(viii).(a)	The continuity of care must be of sufficient duration to ensure that the fellow is familiar with the outcome of all <u>neuroendovascular intervention</u>
1062		<del>endovascular surgical</del>
1063		<del>neuroradiology</del> procedures. (Core)
1064		
1065	<b>IV.B.1.c)</b>	<b>Medical Knowledge</b>
1066		
1067		<b>Fellows must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.</b>
1068		(Core)
1069		
1070	IV.B.1.c).(1)	<u>Fellows must demonstrate knowledge of the:</u>
1071		
1072	IV.B.1.c).(1).(a)	<u>clinical and technical aspects of neuroendovascular</u>
1073		
1074		
1075		
1076		
1077		
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1080		
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1082		
1083		
1084		

1085		<u>intervention procedures;</u> <sup>(Core)</sup>
1086		
1087	IV.B.1.c).(1).(b)	<u>fundamentals of imaging physics and radiation</u>
1088		<u>biology;</u> <sup>(Core)</sup>
1089		
1090	IV.B.1.c).(1).(c)	<u>interpretation of neuroangiographic studies</u>
1091		<u>pertinent to the practice;</u> <sup>(Core)</sup>
1092		
1093	IV.B.1.c).(1).(d)	<u>medical and surgical alternatives to</u>
1094		<u>neuroendovascular intervention procedures; and,</u>
1095		<sup>(Core)</sup>
1096		
1097	IV.B.1.c).(1).(e)	<u>pathophysiology and natural history of neurological</u>
1098		<u>disorders.</u> <sup>(Core)</sup>
1099		
1100	IV.B.1.c).(2)	Fellows must demonstrate <del>competence</del> in their knowledge
1101		of the following didactic component areas:
1102		
1103	IV.B.1.c).(2).(a)	anatomical and physiologic basic knowledge,
1104		including: <sup>(Core)</sup>
1105		
1106	IV.B.1.c).(2).(a).(i)	arterial and venous angiographic anatomy
1107		of the brain, spine, spinal cord, and head
1108		and neck, <u>to includeing:</u> <sup>(Core)</sup> [Section
1109		alphabetized]
1110		
1111	IV.B.1.c).(2).(a).(i).(a)	autoregulation; <sup>(Core)</sup>
1112		
1113	IV.B.1.c).(2).(a).(i).(b)	cerebral blood flow; <sup>(Core)</sup>
1114		
1115	IV.B.1.c).(2).(a).(i).(c)	collateral circulation; <sup>(Core)</sup>
1116		
1117	IV.B.1.c).(2).(a).(i).(d)	dangerous anastomosis; <sup>(Core)</sup>
1118		
1119	IV.B.1.c).(2).(a).(i).(e)	variants of anatomy; and, <sup>(Core)</sup>
1120		
1121	IV.B.1.c).(2).(a).(i).(f)	vascular distributions and
1122		supply/drainage. <sup>(Core)</sup>
1123		
1124	IV.B.1.c).(2).(a).(ii)	related bony and soft tissue anatomy and
1125		physiology, <u>to includeing:</u> <sup>(Core)</sup> [Section
1126		alphabetized]
1127		
1128	IV.B.1.c).(2).(a).(ii).(a)	brain, neck, face, and spine soft
1129		tissue anatomy and physiology; <sup>(Core)</sup>
1130		
1131	IV.B.1.c).(2).(a).(ii).(b)	ligamentous, articular and muscular
1132		anatomy; and, <sup>(Core)</sup>
1133		
1134	IV.B.1.c).(2).(a).(ii).(c)	vertebral, face, and skull bony
1135		anatomy; <sup>(Core)</sup>

1136		
1137	IV.B.1.c).(2).(b)	pharmacology of the CNS and vasculature and relevant brain physiology, including: <sup>(Core)</sup>
1138		
1139		
1140	IV.B.1.c).(2).(b).(i)	agents used in provocative testing; <sup>(Core)</sup>
1141		
1142	IV.B.1.c).(2).(b).(ii)	coagulation cascade; <sup>(Core)</sup>
1143		
1144	IV.B.1.c).(2).(b).(ii).(a)	antiaggregants; <sup>(Core)</sup>
1145		
1146	IV.B.1.c).(2).(b).(ii).(b)	anticoagulants; and, <sup>(Core)</sup>
1147		
1148	IV.B.1.c).(2).(b).(ii).(c)	thrombolytics. <sup>(Core)</sup>
1149		
1150	IV.B.1.c).(2).(b).(iii)	contrast agents; <sup>(Core)</sup>
1151		
1152	IV.B.1.c).(2).(b).(iv)	vasodilators and constrictors; <sup>(Core)</sup>
1153		
1154	IV.B.1.c).(2).(c)	embolic, sclerosing, ablative, and bone stabilization agents, including: <sup>(Core)</sup> [Section alphabetized]
1155		
1156		
1157	IV.B.1.c).(2).(c).(i)	allergic reaction control; <sup>(Core)</sup>
1158		
1159	IV.B.1.c).(2).(c).(ii)	blood pressure control; <sup>(Core)</sup>
1160		
1161	IV.B.1.c).(2).(c).(iii)	heart rate control; <sup>(Core)</sup>
1162		
1163	IV.B.1.c).(2).(c).(iv)	infection; and, <sup>(Core)</sup>
1164		
1165	IV.B.1.c).(2).(c).(v)	stroke risk reduction. <sup>(Core)</sup>
1166		
1167	IV.B.1.c).(2).(d)	technical aspects of <u>neuroendovascular intervention</u> – <u>endovascular surgical neuroradiology</u> , including: <sup>(Core)</sup> [Section alphabetized]
1168		
1169		
1170		
1171	IV.B.1.c).(2).(d).(i)	catheter and delivery systems; <sup>(Core)</sup>
1172		
1173	IV.B.1.c).(2).(d).(ii)	collateral network manipulations <u>and</u> ; flow diversion; <sup>(Core)</sup>
1174		
1175		
1176	IV.B.1.c).(2).(d).(iii)	complications of angiography and embolization; <sup>(Core)</sup>
1177		
1178		
1179	IV.B.1.c).(2).(d).(iv)	direct access/therapeutic injection techniques, <u>to including</u> biopsy and aspiration; <sup>(Core)</sup>
1180		
1181		
1182		
1183	IV.B.1.c).(2).(d).(v)	electrophysiology; <sup>(Core)</sup>
1184		

1185	IV.B.1.c).(2).(d).(vi)	embolic, sclerosing, and stabilizing agents
1186		in cerebral, spinal, and head and neck
1187		embolization; <sup>(Core)</sup>
1188		
1189	IV.B.1.c).(2).(d).(vii)	flow-controlled navigations and
1190		embolization; <sup>(Core)</sup>
1191		
1192	IV.B.1.c).(2).(d).(viii)	imaging of the vascular system; <sup>(Core)</sup>
1193		
1194	IV.B.1.c).(2).(d).(ix)	provocative testing; and, <sup>(Core)</sup>
1195		
1196	IV.B.1.c).(2).(d).(x)	stents, balloons, and revascularization
1197		devices. <sup>(Core)</sup>
1198		
1199	IV.B.1.c).(3)	Fellows must demonstrate knowledge of the classification,
1200		clinical presentation, imaging appearance, natural history,
1201		epidemiology, hemodynamic and physiologic basis for
1202		disease and treatment, indications and techniques for
1203		treatment, contraindications for treatment, treatment
1204		alternatives, combined therapies, risks of treatment, and
1205		complication management for all the disease states listed
1206		below: <sup>(Core)</sup> [Section alphabetized]
1207		
1208	IV.B.1.c).(3).(a)	arteriopathies; <sup>(Core)</sup>
1209		
1210	IV.B.1.c).(3).(b)	arteriovenous malformations and fistulae; <sup>(Core)</sup>
1211		
1212	IV.B.1.c).(3).(c)	hemorrhage and epistaxis; <sup>(Core)</sup>
1213		
1214	IV.B.1.c).(3).(d)	other vascular malformations and lesions; <sup>(Core)</sup>
1215		
1216	IV.B.1.c).(3).(e)	stroke and cerebral ischemia; <sup>(Core)</sup>
1217		
1218	IV.B.1.c).(3).(f)	tumors; <sup>(Core)</sup>
1219		
1220	IV.B.1.c).(3).(g)	vascular trauma; and, <sup>(Core)</sup>
1221		
1222	IV.B.1.c).(3).(h)	vertebral fracture and degeneration. <sup>(Core)</sup>
1223		
1224	<b>IV.B.1.d)</b>	<b>Practice-based Learning and Improvement</b>
1225		
1226		<b>Fellows must demonstrate the ability to investigate and</b>
1227		<b>evaluate their care of patients, to appraise and assimilate</b>
1228		<b>scientific evidence, and to continuously improve patient care</b>
1229		<b>based on constant self-evaluation and lifelong learning. <sup>(Core)</sup></b>
1230		

**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.

- 1231  
1232 **IV.B.1.e) Interpersonal and Communication Skills**  
1233  
1234 **Fellows must demonstrate interpersonal and communication**  
1235 **skills that result in the effective exchange of information and**  
1236 **collaboration with patients, their families, and health**  
1237 **professionals. (Core)**  
1238  
1239 **IV.B.1.f) Systems-based Practice**  
1240  
1241 **Fellows must demonstrate an awareness of and**  
1242 **responsiveness to the larger context and system of health**  
1243 **care, including the social determinants of health, as well as**  
1244 **the ability to call effectively on other resources to provide**  
1245 **optimal health care. (Core)**  
1246  
1247 **IV.C. Curriculum Organization and Fellow Experiences**  
1248  
1249 **IV.C.1. The curriculum must be structured to optimize fellow educational**  
1250 **experiences, the length of these experiences, and supervisory**  
1251 **continuity. (Core)**  
1252  
1253 **IV.C.1.a) The assignment of educational experiences should be structured**  
1254 **to minimize the frequency of transitions. (Detail)**  
1255  
1256 **IV.C.1.b) Educational experiences should be of sufficient length to provide a**  
1257 **quality educational experience defined by ongoing supervision,**  
1258 **longitudinal relationships with faculty members, and high-quality**  
1259 **assessment and feedback. (Detail)**  
1260  
1261 **IV.C.2. The program must provide instruction and experience in pain**  
1262 **management if applicable for the subspecialty, including recognition**  
1263 **of the signs of addiction. (Core)**  
1264  
1265 **IV.C.3. The curriculum must include:**  
1266  
1267 **IV.C.3.a) 24 continuous months of neuroendovascular intervention clinical**  
1268 **training must ~~12 continuous months in endovascular surgical~~**  
1269 **neuroradiology under close supervision; (Core)**  
1270  
1271 **IV.C.3.b) didactic and clinical experiences that encompass the full clinical**  
1272 **spectrum of neuroendovascular intervention therapy; (Core)**  
1273  
1274 **IV.C.3.c) education and experience in invasive functional testing; and, (Detail)**  
1275  
1276 **IV.C.3.d) training in neuroendovascular intervention ~~endovascular surgical~~**  
1277 **neuroradiology must be conducted in an environment conducive**  
1278 **to investigative studies of a clinical or basic science nature. (Core)**



1279		
1280	IV.C.4.	<u>Didactics</u>
1281		
1282	IV.C.4.a)	Formal teaching conferences specifically developed for the fellows must be provided. <sup>(Core)</sup>
1283		
1284		
1285	IV.C.4.a).(1)	Teaching conferences must be <u>organized by the program faculty members and held at least once a week, to allow discussion of topics selected to broaden knowledge in the field of endovascular surgical neuroradiology.</u> <sup>(CoreDetail)</sup>
1286		
1287		
1288		
1289		
1290	IV.C.4.a).(1).(a)	<del>Specifically, teaching conferences should embrace the scope of endovascular surgical neuroradiology as outlined in the Introduction and IV (Educational Program) of these Program Requirements;</del> <sup>(Core)</sup>
1291		
1292		
1293		
1294		
1295	IV.C.4.a).(2)	<del>The program must ensure protected didactic and interactive conference time, including interdepartmental meetings with neurosurgeons, neuroradiologists, and neurologists;</del> <sup>(Core)</sup>
1296		
1297		
1298		
1299		
1300	IV.C.4.a).(3)	<del>Conferences must include the program must ensure that journal clubs, pathology meetings, and neuroanatomy dissection, simulation, and flow-model courses; should meet on a regular basis to discuss innovations in endovascular surgical neuroradiology; and,</del> <sup>(Core)</sup>
1301		
1302		
1303		
1304		
1305		
1306	IV.C.4.a).(4)	<u>Journal club must be held on a quarterly basis.</u> <sup>(Core)</sup>
1307		
1308	IV.C.4.a).(5)	<u>Morbidity and mortality review conferences related to the performance of neuroendovascular intervention procedures must be held at least monthly.</u> <sup>(Core)</sup>
1309		
1310		
1311		
1312	IV.C.4.a).(5).(a)	<u>Fellows must actively participate in these reviews.</u> <sup>(Core)</sup>
1313		
1314		
1315	IV.C.4.a).(6)	<u>Teaching conferences must cover the full extent of neuroendovascular intervention, including the use of minimally invasive catheter-based technology, radiologic imaging, and clinical expertise to diagnose and treat diseases of the CNS, head, neck, and spine.</u> <sup>(Core)</sup>
1316		
1317		
1318		
1319		
1320		
1321	IV.C.4.a).(7)	<u>Conference formats should allow for interactive discussion of the selected topics.</u> <sup>(Detail)</sup>
1322		
1323		
1324	IV.C.4.b)	<u>Fellows must attend and participate in conferences.</u> <sup>(Core)</sup>
1325		
1326	IV.C.4.b).(1)	<u>Protected didactic and interactive conference time must be provided, including for interdepartmental meetings with neurosurgeons, neuroradiologists, and neurologists.</u> <sup>(Core)</sup>
1327		
1328		
1329		

- 1330 IV.C.4.b).(2) Each fellow should attend and actively participate in  
 1331 interdepartmental meetings and conferences with child  
 1332 neurology or neurology, neurological surgery,  
 1333 neuropathology, and neuroradiology, neurological surgery,  
 1334 child neurology or neurology, and neuropathology. <sup>(Detail)</sup>  
 1335
- 1336 IV.C.4.b).(2).(a) The program must ensure that regular review of all  
 1337 mortality and morbidity related to the performance  
 1338 of endovascular surgical neuroradiology  
 1339 procedures are documented. Fellows must  
 1340 participate actively in these reviews, which should  
 1341 be held at least monthly. <sup>(Core)</sup>  
 1342
- 1343 IV.C.4.b).(2).(b) Fellows should be encouraged to attend and  
 1344 participate in local extramural conferences and  
 1345 should attend at least one national meeting or  
 1346 postgraduate course in endovascular surgical  
 1347 neuroradiology therapy while in training. <sup>(Detail)</sup>  
 1348

Subspecialty-Specific Background and Intent: The Review Committee values the contributions of extramural education towards enhancing the fellows' overall educational experience. Fellow attendance and participation in local extramural conferences, national meetings, or post-graduate coursework in neuroendovascular intervention therapy during the program is encouraged.

- 1349 IV.C.5. The program must include training and experience in the following:
- 1350
- 1351 IV.C.5.a) signs and symptoms of disorders amenable to diagnosis and  
 1352 treatment by endovascular surgical neuroradiology techniques;  
 1353 <sup>(Core)</sup>  
 1354
- 1355 IV.C.5.b) physical examinations to evaluate patients with neurological  
 1356 disorders; <sup>(Core)</sup>  
 1357
- 1358 IV.C.5.c) pathophysiology and natural history of these disorders; <sup>(Core)</sup>  
 1359
- 1360 IV.C.5.d) indications for and contraindications to endovascular surgical  
 1361 neuroradiology procedures; <sup>(Core)</sup>  
 1362
- 1363 IV.C.5.e) clinical and technical aspects of endovascular surgical  
 1364 neuroradiology procedures; <sup>(Core)</sup>  
 1365
- 1366 IV.C.5.f) medical and surgical alternatives; <sup>(Core)</sup>  
 1367
- 1368 IV.C.5.g) preoperative and postoperative management of endovascular  
 1369 patients; <sup>(Core)</sup>  
 1370
- 1371 IV.C.5.h) neurointensive care management; <sup>(Core)</sup>  
 1372
- 1373 IV.C.5.i) fundamentals of imaging physics and radiation biology; and, <sup>(Core)</sup>  
 1374  
 1375

- 1376 IV.C.5.j) ~~interpretation of neuroangiographic studies pertinent to the~~  
1377 ~~practice.~~<sup>(Core)</sup>  
1378
- 1379 IV.C.6. ~~The physician faculty must provide didactic teaching and direct~~  
1380 ~~supervision of fellows' performance in clinical patient management and in~~  
1381 ~~the procedural, interpretive, and consultative aspects of endovascular~~  
1382 ~~surgical neuroradiology therapy.~~<sup>(Core)</sup>  
1383
- 1384 IV.C.6.a) ~~Fellows must attend and participate in clinical conferences.~~<sup>(Core)</sup>  
1385
- 1386 IV.C.6.b) ~~Fellows must have experience in didactic and clinical experiences~~  
1387 ~~that encompass the full clinical spectrum of endovascular surgical~~  
1388 ~~neuroradiology therapy.~~<sup>(Core)</sup>  
1389
- 1390 IV.C.7. Fellow Experiences
- 1391
- 1392 IV.C.7.a) Each fellow must complete a minimum of 250 interventional  
1393 procedures, which must include:<sup>(Core)</sup>  
1394
- 1395 IV.C.7.a).(1) 40 aneurysm treatments, including 10 ruptured aneurysms;  
1396 <sup>(Core)</sup>
- 1397
- 1398 IV.C.7.a).(2) 20 intracranial embolizations (AVM, AVF, tumor);<sup>(Core)</sup>  
1399
- 1400 IV.C.7.a).(3) 20 intracranial or extracranial stent placements (at least  
1401 five in each category);<sup>(Core)</sup>  
1402
- 1403 IV.C.7.a).(4) 40 acute ischemic stroke treatments;<sup>(Core)</sup>  
1404
- 1405 IV.C.7.a).(5) 15 head and neck embolizations; and,<sup>(Core)</sup>  
1406
- 1407 IV.C.7.a).(6) five spinal angiograms and/or embolizations.<sup>(Core)</sup>  
1408
- 1409 IV.C.7.b) Each fellow must maintain a personal case log of their clinical  
1410 experiences, which must be verified by the program director at the  
1411 completion of the program.<sup>(Core)</sup>  
1412
- 1413 IV.C.7.c) ~~Fellows must participate in make daily rounds with the~~  
1414 ~~neuroendovascular intervention endovascular surgical~~  
1415 ~~neuroradiology faculty members during which patient~~  
1416 ~~management decisions are discussed and made.~~<sup>(Core)</sup>  
1417
- 1418 IV.C.7.d) ~~Fellows must have adequate training and experience in invasive~~  
1419 ~~functional testing.~~<sup>(Detail)</sup>  
1420
- 1421 IV.C.7.e) ~~Direct supervision interactions of fellows interactions with patients~~  
1422 ~~must be closely observed to ensured so that appropriate~~  
1423 ~~standards of care and concern for patient welfare are strictly~~  
1424 ~~maintained.~~<sup>(Core)</sup>  
1425

1426 IV.C.7.e).(1) Fellow communication, consultation, and coordination of  
1427 care with the referring clinical staff members and clinical  
1428 services must be maintained and documented with  
1429 appropriate notes in the medical record. <sup>(Detail)</sup>  
1430

1431 **IV.D. Scholarship**

1432  
1433 ***Medicine is both an art and a science. The physician is a humanistic***  
1434 ***scientist who cares for patients. This requires the ability to think critically,***  
1435 ***evaluate the literature, appropriately assimilate new knowledge, and***  
1436 ***practice lifelong learning. The program and faculty must create an***  
1437 ***environment that fosters the acquisition of such skills through fellow***  
1438 ***participation in scholarly activities as defined in the subspecialty-specific***  
1439 ***Program Requirements. Scholarly activities may include discovery,***  
1440 ***integration, application, and teaching.***  
1441

1442 ***The ACGME recognizes the diversity of fellowships and anticipates that***  
1443 ***programs prepare physicians for a variety of roles, including clinicians,***  
1444 ***scientists, and educators. It is expected that the program’s scholarship will***  
1445 ***reflect its mission(s) and aims, and the needs of the community it serves.***  
1446 ***For example, some programs may concentrate their scholarly activity on***  
1447 ***quality improvement, population health, and/or teaching, while other***  
1448 ***programs might choose to utilize more classic forms of biomedical***  
1449 ***research as the focus for scholarship.***  
1450

1451 **IV.D.1. Program Responsibilities**

1452  
1453 **IV.D.1.a) The program must demonstrate evidence of scholarly**  
1454 **activities, consistent with its mission(s) and aims. <sup>(Core)</sup>**  
1455

1456 **IV.D.1.b) The program in partnership with its Sponsoring Institution,**  
1457 **must allocate adequate resources to facilitate fellow and**  
1458 **faculty involvement in scholarly activities. <sup>(Core)</sup>**  
1459

1460 **IV.D.1.c) ~~The sponsoring institution and program should allocate adequate~~**  
1461 **~~educational resources to facilitate fellow involvement in scholarly~~**  
1462 **~~activities. <sup>(Detail)</sup>~~**  
1463

1464 **IV.D.2. Faculty Scholarly Activity**

1465  
1466 **IV.D.2.a) Among their scholarly activity, programs must demonstrate**  
1467 **accomplishments in at least three of the following domains:**  
1468 **<sup>(Core)</sup>**  
1469

- 1470 • **Research in basic science, education, translational**
- 1471 **science, patient care, or population health**
- 1472 • **Peer-reviewed grants**
- 1473 • **Quality improvement and/or patient safety initiatives**
- 1474 • **Systematic reviews, meta-analyses, review articles,**
- 1475 **chapters in medical textbooks, or case reports**

- 1476 • Creation of curricula, evaluation tools, didactic
- 1477 educational activities, or electronic educational
- 1478 materials
- 1479 • Contribution to professional committees, educational
- 1480 organizations, or editorial boards
- 1481 • Innovations in education

1482 **IV.D.2.b)** The program must demonstrate dissemination of scholarly

1483 activity within and external to the program by the following

1484 methods:

1485

1486

**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.**

1487

1488 **IV.D.2.b).(1)** faculty participation in grand rounds, posters,

1489 workshops, quality improvement presentations,

1490 podium presentations, grant leadership, non-peer-

1491 reviewed print/electronic resources, articles or

1492 publications, book chapters, textbooks, webinars,

1493 service on professional committees, or serving as a

1494 journal reviewer, journal editorial board member, or

1495 editor; <sup>(Outcome)‡</sup>

1496

1497 **IV.D.2.b).(2)** peer-reviewed publication. <sup>(Outcome)</sup>

1498

1499 **IV.D.3. Fellow Scholarly Activity**

1500

1501 **IV.D.3.a)** The curriculum must advance fellows’ knowledge of the basic

1502 principles of research, including how research is conducted,

1503 evaluated, explained to patients, and applied to patient care. <sup>(Core)</sup>

1504

1505 **IV.D.3.b)** Fellows should participate in scholarly activity. <sup>(Detail)</sup>

1506

1507 **IV.D.3.c)** Fellows should be encouraged to participate in research activities

1508 with residents and staff members in other related specialties. <sup>(Detail)</sup>

1509

1510 **V. Evaluation**

1511

1512 **V.A. Fellow Evaluation**

1513

1514 **V.A.1. Feedback and Evaluation**

1515

**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.**

1516		
1517	<b>V.A.1.a)</b>	<b>Faculty members must directly observe, evaluate, and frequently provide feedback on fellow performance during each rotation or similar educational assignment. <small>(Core)</small></b>
1518		
1519		
1520		
1521	V.A.1.a).(1)	Assessment should include regular evaluation of fellows' knowledge, skills, and overall performance, including the development of professional attitudes consistent with being a physician. <small>(Core)</small>
1522		
1523		
1524		
1525		
1526	V.A.1.a).(1).(a)	The assessment must include cognitive, motor, and interpersonal skills, as well as judgment. <small>(Core)</small>
1527		
1528		
1529	V.A.1.a).(2)	<del>The program director will meet</del> <u>must provide the fellows with quarterly feedback with the fellows to communicate each performance evaluations and discuss their procedure logs. At this time, procedure logs and performance will be reviewed and each fellow will be provided with feedback.</u> <small>(Core)</small>
1530		
1531		
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1535		
1536	<del>V.A.1.a).(2).(a)</del>	<del>Fellows will be advanced to positions of higher responsibility only on evidence of their satisfactory progressive scholarship and professional growth.</del> <small>(Detail)</small>
1537		
1538		
1539		

1540  
 1541 V.A.1.a).(2).(b) The program will maintain a permanent record of  
 1542 evaluation for each fellow and have it accessible to  
 1543 the fellow and other authorized personnel. <sup>(Core)</sup>  
 1544  
 1545 V.A.1.a).(2).(c) At the completion of training the educational  
 1546 program, the program director must submit the  
 1547 entire clinical experience of the neuroendovascular  
 1548 intervention endovascular surgical neuroradiology  
 1549 program and the fellows, in the format prescribed  
 1550 by the Review Committee. The list of procedures  
 1551 and the logs must be made available to the Review  
 1552 Committee at the time of its review of the core  
 1553 program and the endovascular surgical  
 1554 neuroradiology program; <sup>(Core)</sup>  
 1555

**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.**

1556  
 1557 V.A.1.b) Evaluation must be documented at the completion of the  
 1558 assignment. <sup>(Core)</sup>  
 1559  
 1560 V.A.1.b).(1) For block rotations of greater than three months in  
 1561 duration, evaluation must be documented at least  
 1562 every three months. <sup>(Core)</sup>  
 1563  
 1564 V.A.1.b).(2) Longitudinal experiences such as continuity clinic in  
 1565 the context of other clinical responsibilities must be  
 1566 evaluated at least every three months and at  
 1567 completion. <sup>(Core)</sup>  
 1568  
 1569 V.A.1.c) The program must provide an objective performance  
 1570 evaluation based on the Competencies and the subspecialty-  
 1571 specific Milestones, and must: <sup>(Core)</sup>  
 1572  
 1573 V.A.1.c).(1) use multiple evaluators (e.g., faculty members, peers,  
 1574 patients, self, and other professional staff members);  
 1575 and, <sup>(Core)</sup>  
 1576  
 1577 V.A.1.c).(2) provide that information to the Clinical Competency  
 1578 Committee for its synthesis of progressive fellow  
 1579 performance and improvement toward unsupervised  
 1580 practice. <sup>(Core)</sup>  
 1581

**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.

- 1582  
1583 V.A.1.d) The program director or their designee, with input from the  
1584 Clinical Competency Committee, must:  
1585  
1586 V.A.1.d).(1) meet with and review with each fellow their  
1587 documented semi-annual evaluation of performance,  
1588 including progress along the subspecialty-specific  
1589 Milestones. <sup>(Core)</sup>  
1590  
1591 V.A.1.d).(2) assist fellows in developing individualized learning  
1592 plans to capitalize on their strengths and identify areas  
1593 for growth; and, <sup>(Core)</sup>  
1594  
1595 V.A.1.d).(3) develop plans for fellows failing to progress, following  
1596 institutional policies and procedures. <sup>(Core)</sup>  
1597

**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.

- 1598  
1599 V.A.1.e) At least annually, there must be a summative evaluation of  
1600 each fellow that includes their readiness to progress to the  
1601 next year of the program, if applicable. <sup>(Core)</sup>  
1602  
1603 V.A.1.f) The evaluations of a fellow's performance must be accessible  
1604 for review by the fellow. <sup>(Core)</sup>  
1605  
1606 V.A.2. Final Evaluation  
1607



1608	<b>V.A.2.a)</b>	<b>The program director must provide a final evaluation for each fellow upon completion of the program. <sup>(Core)</sup></b>
1609		
1610		
1611	<b>V.A.2.a).(1)</b>	<b>The subspecialty-specific Milestones, and when applicable the subspecialty-specific Case Logs, must be used as tools to ensure fellows are able to engage in autonomous practice upon completion of the program. <sup>(Core)</sup></b>
1612		
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1616		
1617	<b>V.A.2.a).(2)</b>	<b>The final evaluation must:</b>
1618		
1619	<b>V.A.2.a).(2).(a)</b>	<b>become part of the fellow’s permanent record maintained by the institution, and must be accessible for review by the fellow in accordance with institutional policy; <sup>(Core)</sup></b>
1620		
1621		
1622		
1623		
1624	<b>V.A.2.a).(2).(b)</b>	<b>verify that the fellow has demonstrated the knowledge, skills, and behaviors necessary to enter autonomous practice; <sup>(Core)</sup></b>
1625		
1626		
1627		
1628	<b>V.A.2.a).(2).(c)</b>	<b>consider recommendations from the Clinical Competency Committee; and, <sup>(Core)</sup></b>
1629		
1630		
1631	<b>V.A.2.a).(2).(d)</b>	<b>be shared with the fellow upon completion of the program. <sup>(Core)</sup></b>
1632		
1633		
1634	<b>V.A.3.</b>	<b>A Clinical Competency Committee must be appointed by the program director. <sup>(Core)</sup></b>
1635		
1636		
1637	<b>V.A.3.a)</b>	<b>At a minimum the Clinical Competency Committee must include three members, at least one of whom is a core faculty member. Members must be faculty members from the same program or other programs, or other health professionals who have extensive contact and experience with the program’s fellows. <sup>(Core)</sup></b>
1638		
1639		
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1642		
1643		
1644	<b>V.A.3.b)</b>	<b>The Clinical Competency Committee must:</b>
1645		
1646	<b>V.A.3.b).(1)</b>	<b>review all fellow evaluations at least semi-annually; <sup>(Core)</sup></b>
1647		
1648		
1649	<b>V.A.3.b).(2)</b>	<b>determine each fellow’s progress on achievement of the subspecialty-specific Milestones; and, <sup>(Core)</sup></b>
1650		
1651		
1652	<b>V.A.3.b).(3)</b>	<b>meet prior to the fellows’ semi-annual evaluations and advise the program director regarding each fellow’s progress. <sup>(Core)</sup></b>
1653		
1654		
1655		
1656	<b>V.B.</b>	<b>Faculty Evaluation</b>
1657		

1658 V.B.1. The program must have a process to evaluate each faculty  
1659 member's performance as it relates to the educational program at  
1660 least annually. (Core)  
1661

**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.

1662  
1663 V.B.1.a) This evaluation must include a review of the faculty member's  
1664 clinical teaching abilities, engagement with the educational  
1665 program, participation in faculty development related to their  
1666 skills as an educator, clinical performance, professionalism,  
1667 and scholarly activities. (Core)  
1668

1669 V.B.1.b) This evaluation must include written, confidential evaluations  
1670 by the fellows. (Core)  
1671

1672 V.B.2. Faculty members must receive feedback on their evaluations at least  
1673 annually. (Core)  
1674

1675 V.B.3. Results of the faculty educational evaluations should be  
1676 incorporated into program-wide faculty development plans. (Core)  
1677

**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.

1678  
1679 V.C. Program Evaluation and Improvement  
1680

1681 V.C.1. The program director must appoint the Program Evaluation  
1682 Committee to conduct and document the Annual Program

- 1683 **Evaluation as part of the program's continuous improvement**  
 1684 **process.** <sup>(Core)</sup>  
 1685  
 1686 **V.C.1.a)** **The Program Evaluation Committee must be composed of at**  
 1687 **least two program faculty members, at least one of whom is a**  
 1688 **core faculty member, and at least one fellow.** <sup>(Core)</sup>  
 1689  
 1690 **V.C.1.b)** **Program Evaluation Committee responsibilities must include:**  
 1691  
 1692 **V.C.1.b).(1)** **acting as an advisor to the program director, through**  
 1693 **program oversight;** <sup>(Core)</sup>  
 1694  
 1695 **V.C.1.b).(2)** **review of the program's self-determined goals and**  
 1696 **progress toward meeting them;** <sup>(Core)</sup>  
 1697  
 1698 **V.C.1.b).(3)** **guiding ongoing program improvement, including**  
 1699 **development of new goals, based upon outcomes;**  
 1700 **and,** <sup>(Core)</sup>  
 1701  
 1702 **V.C.1.b).(4)** **review of the current operating environment to identify**  
 1703 **strengths, challenges, opportunities, and threats as**  
 1704 **related to the program's mission and aims.** <sup>(Core)</sup>  
 1705

**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.**

- 1706  
 1707 **V.C.1.c)** **The Program Evaluation Committee should consider the**  
 1708 **following elements in its assessment of the program:**  
 1709  
 1710 **V.C.1.c).(1)** **curriculum;** <sup>(Core)</sup>  
 1711  
 1712 **V.C.1.c).(2)** **outcomes from prior Annual Program Evaluation(s);**  
 1713 <sup>(Core)</sup>  
 1714  
 1715 **V.C.1.c).(3)** **ACGME letters of notification, including citations,**  
 1716 **Areas for Improvement, and comments;** <sup>(Core)</sup>  
 1717  
 1718 **V.C.1.c).(4)** **quality and safety of patient care;** <sup>(Core)</sup>  
 1719  
 1720 **V.C.1.c).(5)** **aggregate fellow and faculty:**  
 1721  
 1722 **V.C.1.c).(5).(a)** **well-being;** <sup>(Core)</sup>  
 1723  
 1724 **V.C.1.c).(5).(b)** **recruitment and retention;** <sup>(Core)</sup>  
 1725  
 1726 **V.C.1.c).(5).(c)** **workforce diversity;** <sup>(Core)</sup>  
 1727

1728	V.C.1.c).(5).(d)	engagement in quality improvement and patient safety; <sup>(Core)</sup>
1729		
1730		
1731	V.C.1.c).(5).(e)	scholarly activity; <sup>(Core)</sup>
1732		
1733	V.C.1.c).(5).(f)	ACGME Resident/Fellow and Faculty Surveys (where applicable); and, <sup>(Core)</sup>
1734		
1735		
1736	V.C.1.c).(5).(g)	written evaluations of the program. <sup>(Core)</sup>
1737		
1738	V.C.1.c).(6)	aggregate fellow:
1739		
1740	V.C.1.c).(6).(a)	achievement of the Milestones; <sup>(Core)</sup>
1741		
1742	V.C.1.c).(6).(b)	in-training examinations (where applicable); <sup>(Core)</sup>
1743		
1744		
1745	V.C.1.c).(6).(c)	board pass and certification rates; and, <sup>(Core)</sup>
1746		
1747	V.C.1.c).(6).(d)	graduate performance. <sup>(Core)</sup>
1748		
1749	V.C.1.c).(7)	aggregate faculty:
1750		
1751	V.C.1.c).(7).(a)	evaluation; and, <sup>(Core)</sup>
1752		
1753	V.C.1.c).(7).(b)	professional development <sup>(Core)</sup>
1754		
1755	V.C.1.d)	The Program Evaluation Committee must evaluate the program's mission and aims, strengths, areas for improvement, and threats. <sup>(Core)</sup>
1756		
1757		
1758		
1759	V.C.1.e)	The annual review, including the action plan, must:
1760		
1761	V.C.1.e).(1)	be distributed to and discussed with the members of the teaching faculty and the fellows; and, <sup>(Core)</sup>
1762		
1763		
1764	V.C.1.e).(2)	be submitted to the DIO. <sup>(Core)</sup>
1765		
1766	V.C.2.	The program must participate in a Self-Study prior to its 10-Year Accreditation Site Visit. <sup>(Core)</sup>
1767		
1768		
1769	V.C.2.a)	A summary of the Self-Study must be submitted to the DIO. <sup>(Core)</sup>
1770		
1771		

**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.~~ <sup>(Outcome)</sup>
- 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.~~ <sup>(Outcome)</sup>
- 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.~~ <sup>(Outcome)</sup>
- 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.~~ <sup>(Outcome)</sup>
- 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.~~ <sup>(Outcome)</sup>

**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**





1918	VI.A.1.a).(3).(a).(iii)	be provided with summary information of their institution's patient safety reports. <sup>(Core)</sup>
1919		
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1921		
1922	VI.A.1.a).(3).(b)	Fellows must participate as team members in real and/or simulated interprofessional clinical patient safety activities, such as root cause analyses or other activities that include analysis, as well as formulation and implementation of actions. <sup>(Core)</sup>
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1929	VI.A.1.a).(4)	<b>Fellow Education and Experience in Disclosure of Adverse Events</b>
1930		
1931		
1932		<i>Patient-centered care requires patients, and when appropriate families, to be apprised of clinical situations that affect them, including adverse events. This is an important skill for faculty physicians to model, and for fellows to develop and apply.</i>
1933		
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1938	VI.A.1.a).(4).(a)	All fellows must receive training in how to disclose adverse events to patients and families. <sup>(Core)</sup>
1939		
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1941		
1942	VI.A.1.a).(4).(b)	Fellows should have the opportunity to participate in the disclosure of patient safety events, real or simulated. <sup>(Detail)</sup>
1943		
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1946	VI.A.1.b)	<b>Quality Improvement</b>
1947		
1948	VI.A.1.b).(1)	<b>Education in Quality Improvement</b>
1949		
1950		<i>A cohesive model of health care includes quality-related goals, tools, and techniques that are necessary in order for health care professionals to achieve quality improvement goals.</i>
1951		
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1955	VI.A.1.b).(1).(a)	Fellows must receive training and experience in quality improvement processes, including an understanding of health care disparities. <sup>(Core)</sup>
1956		
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1959	VI.A.1.b).(2)	<b>Quality Metrics</b>
1960		
1961		<i>Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts.</i>
1962		
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1964		
1965	VI.A.1.b).(2).(a)	Fellows and faculty members must receive data on quality metrics and benchmarks related to their patient populations. <sup>(Core)</sup>
1966		
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1969	VI.A.1.b).(3)	<b>Engagement in Quality Improvement Activities</b>
1970		
1971		<i>Experiential learning is essential to developing the ability to identify and institute sustainable systems-based changes to improve patient care.</i>
1972		
1973		
1974		
1975	VI.A.1.b).(3).(a)	<b>Fellows must have the opportunity to participate in interprofessional quality improvement activities. <sup>(Core)</sup></b>
1976		
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1979	VI.A.1.b).(3).(a).(i)	<b>This should include activities aimed at reducing health care disparities. <sup>(Detail)</sup></b>
1980		
1981		
1982	VI.A.2.	<b>Supervision and Accountability</b>
1983		
1984	VI.A.2.a)	<i>Although the attending physician is ultimately responsible for the care of the patient, every physician shares in the responsibility and accountability for their efforts in the provision of care. Effective programs, in partnership with their Sponsoring Institutions, define, widely communicate, and monitor a structured chain of responsibility and accountability as it relates to the supervision of all patient care.</i>
1985		
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1993		<i>Supervision in the setting of graduate medical education provides safe and effective care to patients; ensures each fellow's development of the skills, knowledge, and attitudes required to enter the unsupervised practice of medicine; and establishes a foundation for continued professional growth.</i>
1994		
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1999	VI.A.2.a).(1)	<b>Each patient must have an identifiable and appropriately-credentialed and privileged attending physician (or licensed independent practitioner as specified by the applicable Review Committee) who is responsible and accountable for the patient's care. <sup>(Core)</sup></b>
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2006	VI.A.2.a).(1).(a)	<b>This information must be available to fellows, faculty members, other members of the health care team, and patients. <sup>(Core)</sup></b>
2007		
2008		
2009		
2010	VI.A.2.a).(1).(b)	<b>Fellows and faculty members must inform each patient of their respective roles in that patient's care when providing direct patient care. <sup>(Core)</sup></b>
2011		
2012		
2013		
2014	VI.A.2.b)	<i>Supervision may be exercised through a variety of methods. For many aspects of patient care, the supervising physician may be a more advanced fellow. Other portions of care provided by the fellow can be adequately supervised by the appropriate availability of the supervising faculty member or fellow, either on site or by means of telecommunication</i>
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*technology. Some activities require the physical presence of the supervising faculty member. In some circumstances, supervision may include post-hoc review of fellow-delivered care with feedback.*

**Background and Intent:** Appropriate supervision is essential for patient safety and high-quality teaching. Supervision is also contextual. There is tremendous diversity of fellow patient interactions, education and training locations, and fellow skills and abilities even at the same level of the educational program. The degree of supervision is expected to evolve progressively as a fellow gains more experience, even with the same patient condition or procedure. All fellows have a level of supervision commensurate with their level of autonomy in practice; this level of supervision may be enhanced based on factors such as patient safety, complexity, acuity, urgency, risk of serious adverse events, or other pertinent variables.

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- VI.A.2.b).(1)** 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. <sup>(Core)</sup>
- VI.A.2.b).(2)** The program must define when physical presence of a supervising physician is required. <sup>(Core)</sup>
- VI.A.2.c)** **Levels of Supervision**
- To promote appropriate fellow supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: <sup>(Core)</sup>
- VI.A.2.c).(1)** **Direct Supervision:**
- VI.A.2.c).(1).(a)** the supervising physician is physically present with the fellow during the key portions of the patient interaction; or, <sup>(Core)</sup>
- VI.A.2.c).(1).(b)** the supervising physician and/or patient is not physically present with the fellow and the supervising physician is concurrently monitoring the patient care through appropriate telecommunication technology. <sup>(Core)</sup>
- VI.A.2.c).(1).(b).(i)** The program must have clear guidelines that delineate which competencies must be demonstrated to determine when a fellow can progress to indirect supervision. <sup>(Core)</sup>
- VI.A.2.c).(1).(b).(i).(a)** These guidelines should stipulate that indirect supervision using telecommunication technology

2062		<u>should be limited to patient</u>
2063		<u>evaluation for treatment and/or</u>
2064		<u>patient follow-up visits and should</u>
2065		<u>not be used in the performance of</u>
2066		<u>neuroendovascular intervention</u>
2067		<u>procedures.</u> <sup>(Core)</sup>
2068		
2069	VI.A.2.c).(1).(b).(ii)	<u>The program director must ensure that clear</u>
2070		<u>expectations exist and are communicated to</u>
2071		<u>the fellows, and that these expectations</u>
2072		<u>outline specific situations in which a fellow</u>
2073		<u>still requires direct supervision.</u> <sup>(Core)</sup>
2074		
2075	VI.A.2.c).(2)	<b>Indirect Supervision: the supervising physician is not</b>
2076		<b>providing physical or concurrent visual or audio</b>
2077		<b>supervision but is immediately available to the fellow</b>
2078		<b>for guidance and is available to provide appropriate</b>
2079		<b>direct supervision.</b> <sup>(Core)</sup>
2080		
2081	VI.A.2.c).(3)	<b>Oversight – the supervising physician is available to</b>
2082		<b>provide review of procedures/encounters with</b>
2083		<b>feedback provided after care is delivered.</b> <sup>(Core)</sup>
2084		
2085	VI.A.2.d)	<b>The privilege of progressive authority and responsibility,</b>
2086		<b>conditional independence, and a supervisory role in patient</b>
2087		<b>care delegated to each fellow must be assigned by the</b>
2088		<b>program director and faculty members.</b> <sup>(Core)</sup>
2089		
2090	VI.A.2.d).(1)	<b>The program director must evaluate each fellow’s</b>
2091		<b>abilities based on specific criteria, guided by the</b>
2092		<b>Milestones.</b> <sup>(Core)</sup>
2093		
2094	VI.A.2.d).(2)	<b>Faculty members functioning as supervising</b>
2095		<b>physicians must delegate portions of care to fellows</b>
2096		<b>based on the needs of the patient and the skills of</b>
2097		<b>each fellow.</b> <sup>(Core)</sup>
2098		
2099	VI.A.2.d).(3)	<b>Fellows should serve in a supervisory role to junior</b>
2100		<b>fellows and residents in recognition of their progress</b>
2101		<b>toward independence, based on the needs of each</b>
2102		<b>patient and the skills of the individual resident or</b>
2103		<b>fellow.</b> <sup>(Detail)</sup>
2104		
2105	VI.A.2.e)	<b>Programs must set guidelines for circumstances and events</b>
2106		<b>in which fellows must communicate with the supervising</b>
2107		<b>faculty member(s).</b> <sup>(Core)</sup>
2108		
2109	VI.A.2.e).(1)	<b>Each fellow must know the limits of their scope of</b>
2110		<b>authority, and the circumstances under which the</b>
2111		<b>fellow is permitted to act with conditional</b>
2112		<b>independence.</b> <sup>(Outcome)‡</sup>

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

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**VI.A.2.f) Faculty supervision assignments must be of sufficient duration to assess the knowledge and skills of each fellow and to delegate to the fellow the appropriate level of patient care authority and responsibility. (Core)**

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**VI.B. Professionalism**

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

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

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

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**VI.B.2.b) be accomplished without excessive reliance on fellows to fulfill non-physician obligations; and, (Core)**

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**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.**

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**VI.B.2.c) ensure manageable patient care responsibilities. (Core)**

2139

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

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

2145 VI.B.4. Fellows and faculty members must demonstrate an understanding  
2146 of their personal role in the:  
2147

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

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

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

2154 VI.B.4.c) assurance of their fitness for work, including: <sup>(Outcome)</sup>  
2155  
2156

**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.**

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

2160 VI.B.4.c).(2) recognition of impairment, including from illness,  
2161 fatigue, and substance use, in themselves, their peers,  
2162 and other members of the health care team. <sup>(Outcome)</sup>  
2163

2164 VI.B.4.d) commitment to lifelong learning; <sup>(Outcome)</sup>  
2165

2166 VI.B.4.e) monitoring of their patient care performance improvement  
2167 indicators; and, <sup>(Outcome)</sup>  
2168

2169 VI.B.4.f) accurate reporting of clinical and educational work hours,  
2170 patient outcomes, and clinical experience data. <sup>(Outcome)</sup>  
2171

2172 VI.B.5. All fellows and faculty members must demonstrate responsiveness  
2173 to patient needs that supersedes self-interest. This includes the  
2174 recognition that under certain circumstances, the best interests of  
2175 the patient may be served by transitioning that patient's care to  
2176 another qualified and rested provider. <sup>(Outcome)</sup>  
2177

2178 VI.B.6. Programs, in partnership with their Sponsoring Institutions, must  
2179 provide a professional, equitable, respectful, and civil environment  
2180 that is free from discrimination, sexual and other forms of  
2181

2182 harassment, mistreatment, abuse, or coercion of students, fellows,  
2183 faculty, and staff. <sup>(Core)</sup>

2184  
2185 **VI.B.7.** Programs, in partnership with their Sponsoring Institutions, should  
2186 have a process for education of fellows and faculty regarding  
2187 unprofessional behavior and a confidential process for reporting,  
2188 investigating, and addressing such concerns. <sup>(Core)</sup>

2189  
2190 **VI.C.** Well-Being

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

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

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

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

2212  
2213 **VI.C.1.** The responsibility of the program, in partnership with the  
2214 Sponsoring Institution, to address well-being must include:

2215  
2216 **VI.C.1.a)** efforts to enhance the meaning that each fellow finds in the  
2217 experience of being a physician, including protecting time  
2218 with patients, minimizing non-physician obligations,

- 2219 providing administrative support, promoting progressive  
 2220 autonomy and flexibility, and enhancing professional  
 2221 relationships; <sup>(Core)</sup>  
 2222
- 2223 VI.C.1.b) attention to scheduling, work intensity, and work  
 2224 compression that impacts fellow well-being; <sup>(Core)</sup>  
 2225
- 2226 VI.C.1.c) evaluating workplace safety data and addressing the safety of  
 2227 fellows and faculty members; <sup>(Core)</sup>  
 2228

**Background and Intent:** This requirement emphasizes the responsibility shared by the Sponsoring Institution and its programs to gather information and utilize systems that monitor and enhance 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.

- 2229  
 2230 VI.C.1.d) policies and programs that encourage optimal fellow and  
 2231 faculty member well-being; and, <sup>(Core)</sup>  
 2232

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

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

**Background and Intent:** The intent of this requirement is to ensure that 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.

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

**Background and Intent:** Programs and Sponsoring Institutions are encouraged to review materials in order to create systems for identification of burnout, depression, and substance 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>).

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

**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.

- 2259  
2260 VI.C.1.e).(2) provide access to appropriate tools for self-screening;  
2261 and, <sup>(Core)</sup>  
2262  
2263 VI.C.1.e).(3) provide access to confidential, affordable mental  
2264 health assessment, counseling, and treatment,  
2265 including access to urgent and emergent care 24  
2266 hours a day, seven days a week. <sup>(Core)</sup>  
2267

**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.

- 2268  
2269 VI.C.2. There are circumstances in which fellows may be unable to attend  
2270 work, including but not limited to fatigue, illness, family  
2271 emergencies, and parental leave. Each program must allow an  
2272 appropriate length of absence for fellows unable to perform their  
2273 patient care responsibilities. <sup>(Core)</sup>  
2274

2275 VI.C.2.a) The program must have policies and procedures in place to  
2276 ensure coverage of patient care. <sup>(Core)</sup>

2277  
2278 VI.C.2.b) These policies must be implemented without fear of negative  
2279 consequences for the fellow who is or was unable to provide  
2280 the clinical work. <sup>(Core)</sup>  
2281

**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.**

2282  
2283 VI.D. Fatigue Mitigation  
2284

2285 VI.D.1. Programs must:

2286  
2287 VI.D.1.a) educate all faculty members and fellows to recognize the  
2288 signs of fatigue and sleep deprivation; <sup>(Core)</sup>

2289  
2290 VI.D.1.b) educate all faculty members and fellows in alertness  
2291 management and fatigue mitigation processes; and, <sup>(Core)</sup>

2292  
2293 VI.D.1.c) encourage fellows to use fatigue mitigation processes to  
2294 manage the potential negative effects of fatigue on patient  
2295 care and learning. <sup>(Detail)</sup>  
2296

**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.**

2297  
2298 VI.D.2. Each program must ensure continuity of patient care, consistent  
2299 with the program's policies and procedures referenced in VI.C.2–  
2300 VI.C.2.b), in the event that a fellow may be unable to perform their  
2301 patient care responsibilities due to excessive fatigue. <sup>(Core)</sup>  
2302

2303 VI.D.3. The program, in partnership with its Sponsoring Institution, must  
2304 ensure adequate sleep facilities and safe transportation options for  
2305 fellows who may be too fatigued to safely return home. <sup>(Core)</sup>  
2306

2307 VI.E. Clinical Responsibilities, Teamwork, and Transitions of Care  
2308  
2309 VI.E.1. Clinical Responsibilities  
2310  
2311 The clinical responsibilities for each fellow must be based on PGY  
2312 level, patient safety, fellow ability, severity and complexity of patient  
2313 illness/condition, and available support services. <sup>(Core)</sup>  
2314

**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.**

2315  
2316 VI.E.2. Teamwork  
2317  
2318 Fellows must care for patients in an environment that maximizes  
2319 communication. This must include the opportunity to work as a  
2320 member of effective interprofessional teams that are appropriate to  
2321 the delivery of care in the subspecialty and larger health system.  
2322 <sup>(Core)</sup>  
2323  
2324 VI.E.3. Transitions of Care  
2325  
2326 VI.E.3.a) Programs must design clinical assignments to optimize  
2327 transitions in patient care, including their safety, frequency,  
2328 and structure. <sup>(Core)</sup>  
2329  
2330 VI.E.3.b) Programs, in partnership with their Sponsoring Institutions,  
2331 must ensure and monitor effective, structured hand-over  
2332 processes to facilitate both continuity of care and patient  
2333 safety. <sup>(Core)</sup>  
2334  
2335 VI.E.3.c) Programs must ensure that fellows are competent in  
2336 communicating with team members in the hand-over process.  
2337 <sup>(Outcome)</sup>  
2338  
2339 VI.E.3.d) Programs and clinical sites must maintain and communicate  
2340 schedules of attending physicians and fellows currently  
2341 responsible for care. <sup>(Core)</sup>  
2342  
2343 VI.E.3.e) Each program must ensure continuity of patient care,  
2344 consistent with the program's policies and procedures  
2345 referenced in VI.C.2-VI.C.2.b), in the event that a fellow may  
2346 be unable to perform their patient care responsibilities due to  
2347 excessive fatigue or illness, or family emergency. <sup>(Core)</sup>  
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2349 VI.F. Clinical Experience and Education

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*Programs, in partnership with their Sponsoring Institutions, must design an effective program structure that is configured to provide fellows with educational and clinical experience opportunities, as well as reasonable opportunities for rest and personal activities.*

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

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

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

**Background and Intent:** Programs and 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.

- 2364  
2365 VI.F.2. Mandatory Time Free of Clinical Work and Education  
2366  
2367 VI.F.2.a) The program must design an effective program structure that  
2368 is configured to provide fellows with educational  
2369 opportunities, as well as reasonable opportunities for rest  
2370 and personal well-being. <sup>(Core)</sup>  
2371  
2372 VI.F.2.b) Fellows should have eight hours off between scheduled  
2373 clinical work and education periods. <sup>(Detail)</sup>  
2374  
2375 VI.F.2.b).(1) There may be circumstances when fellows choose to  
2376 stay to care for their patients or return to the hospital  
2377 with fewer than eight hours free of clinical experience  
2378 and education. This must occur within the context of  
2379 the 80-hour and the one-day-off-in-seven  
2380 requirements. <sup>(Detail)</sup>  
2381

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

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

**Background and Intent: The requirement provides flexibility for programs to distribute days off in a manner that meets program and 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. (Core)**

**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. (Core)**

**VI.F.3.a).(1).(a) Additional patient care responsibilities must not be assigned to a fellow during this time. (Core)**

2406

**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**

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**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:**

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**VI.F.4.a).(1) to continue to provide care to a single severely ill or unstable patient;** (Detail)

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**VI.F.4.a).(2) humanistic attention to the needs of a patient or family;** or, (Detail)

2419

2420

**VI.F.4.a).(3) to attend unique educational events.** (Detail)

2422

**VI.F.4.b) These additional hours of care or education will be counted toward the 80-hour weekly limit.** (Detail)

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2425

**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.

2426

**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.**

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

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**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*.** (Core)

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2440 VI.F.4.c).(2) Prior to submitting the request to the Review  
2441 Committee, the program director must obtain approval  
2442 from the Sponsoring Institution's GMEC and DIO. (Core)  
2443

**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.

2444  
2445 VI.F.5. Moonlighting  
2446  
2447 VI.F.5.a) Moonlighting must not interfere with the ability of the fellow  
2448 to achieve the goals and objectives of the educational  
2449 program, and must not interfere with the fellow's fitness for  
2450 work nor compromise patient safety. (Core)  
2451  
2452 VI.F.5.b) Time spent by fellows in internal and external moonlighting  
2453 (as defined in the ACGME Glossary of Terms) must be  
2454 counted toward the 80-hour maximum weekly limit. (Core)  
2455

**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>).

2456  
2457 VI.F.6. In-House Night Float  
2458  
2459 Night float must occur within the context of the 80-hour and one-  
2460 day-off-in-seven requirements. (Core)  
2461  
2462 VI.F.6.a) Fellows must have no more than six consecutive weeks of night  
2463 float rotations, and no more than four months of night float  
2464 rotations in total per year. (Detail)  
2465

**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.

2466  
2467 VI.F.7. Maximum In-House On-Call Frequency  
2468  
2469 Fellows must be scheduled for in-house call no more frequently than  
2470 every third night (when averaged over a four-week period). (Core)  
2471  
2472 VI.F.8. At-Home Call  
2473  
2474 VI.F.8.a) Time spent on patient care activities by fellows on at-home  
2475 call must count toward the 80-hour maximum weekly limit.



2476 The frequency of at-home call is not subject to the every-  
2477 third-night limitation, but must satisfy the requirement for one  
2478 day in seven free of clinical work and education, when  
2479 averaged over four weeks. <sup>(Core)</sup>

2480  
2481 **VI.F.8.a).(1)** At-home call must not be so frequent or taxing as to  
2482 preclude rest or reasonable personal time for each  
2483 fellow. <sup>(Core)</sup>

2484  
2485 **VI.F.8.b)** Fellows are permitted to return to the hospital while on at-  
2486 home call to provide direct care for new or established  
2487 patients. These hours of inpatient patient care must be  
2488 included in the 80-hour maximum weekly limit. <sup>(Detail)</sup>  
2489

**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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2491 \*\*\*  
2492 **\*Core Requirements:** Statements that define structure, resource, or process elements  
2493 essential to every graduate medical educational program.  
2494  
2495 **†Detail Requirements:** Statements that describe a specific structure, resource, or process, for  
2496 achieving compliance with a Core Requirement. Programs and sponsoring institutions in  
2497 substantial compliance with the Outcome Requirements may utilize alternative or innovative  
2498 approaches to meet Core Requirements.

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2500 **‡Outcome Requirements:** Statements that specify expected measurable or observable  
2501 attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their  
2502 graduate medical education.

2503  
2504 **Osteopathic Recognition**  
2505 For programs with or applying for Osteopathic Recognition, the Osteopathic Recognition  
2506 Requirements also apply ([www.acgme.org/OsteopathicRecognition](http://www.acgme.org/OsteopathicRecognition)).