

**ACGME Program Requirements for  
Graduate Medical Education  
In Pediatric Cardiac Anesthesiology**

Proposed new requirements; posted for review and comment June 7, 2021

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1                   **Proposed ACGME Program Requirements for Graduate Medical Education in**  
2   **Pediatric Cardiac Anesthesiology**

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

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

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

10  
11 **Introduction**

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

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

37  
38 *In addition to clinical education, many fellowship programs advance*  
39 *fellows’ skills as physician-scientists. While the ability to create new*  
40 *knowledge within medicine is not exclusive to fellowship-educated*  
41 *physicians, the fellowship experience expands a physician’s abilities to*  
42 *pursue hypothesis-driven scientific inquiry that results in contributions to*  
43 *the medical literature and patient care. Beyond the clinical subspecialty*  
44 *expertise achieved, fellows develop mentored relationships built on an*  
45 *infrastructure that promotes collaborative research.*  
46

47 **Int.B. Definition of Subspecialty**  
48  
49 Pediatric cardiac anesthesiology is devoted to the peri-operative care of patients  
50 with congenital heart disease undergoing congenital cardiac surgery and related  
51 invasive and diagnostic procedures.  
52  
53 The clinical education includes experience providing anesthesia for cardiac  
54 patients in peri-operative and peri-procedural areas.

56 **Int.C. Length of Educational Program**  
57  
58 The educational program in pediatric cardiac anesthesiology must be 12 months  
59 in length. <sup>(Core)\*</sup>  
60

61 **I. Oversight**  
62

63 **I.A. Sponsoring Institution**  
64

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

68  
69 *When the Sponsoring Institution is not a rotation site for the program, the*  
70 *most commonly utilized site of clinical activity for the program is the*  
71 *primary clinical site.*  
72

**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.**

73  
74 **I.A.1. The program must be sponsored by one ACGME-accredited**  
75 **Sponsoring Institution. <sup>(Core)\*</sup>**  
76

77 **I.B. Participating Sites**  
78

79 *A participating site is an organization providing educational experiences or*  
80 *educational assignments/rotations for fellows.*

81  
82 **I.B.1. The program, with approval of its Sponsoring Institution, must**  
83 **designate a primary clinical site. <sup>(Core)</sup>**

84  
85 **I.B.1.a) The Sponsoring Institution must sponsor an ACGME-accredited**  
86 **program in pediatric anesthesiology. <sup>(Core)</sup>**

87  
88 **I.B.1.b) There must be only one pediatric cardiac anesthesiology program**

- 89 associated with a single anesthesiology program. <sup>(Core)</sup>  
 90  
 91 **I.B.2.** There must be a program letter of agreement (PLA) between the  
 92 program and each participating site that governs the relationship  
 93 between the program and the participating site providing a required  
 94 assignment. <sup>(Core)</sup>  
 95  
 96 **I.B.2.a)** The PLA must:  
 97  
 98 **I.B.2.a).(1)** be renewed at least every 10 years; and, <sup>(Core)</sup>  
 99  
 100 **I.B.2.a).(2)** be approved by the designated institutional official  
 101 (DIO). <sup>(Core)</sup>  
 102  
 103 **I.B.3.** The program must monitor the clinical learning and working  
 104 environment at all participating sites. <sup>(Core)</sup>  
 105  
 106 **I.B.3.a)** At each participating site there must be one faculty member,  
 107 designated by the program director, who is accountable for  
 108 fellow education for that site, in collaboration with the  
 109 program director. <sup>(Core)</sup>  
 110

**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

- 111  
 112 **I.B.4.** The program director must submit any additions or deletions of  
 113 participating sites routinely providing an educational experience,  
 114 required for all fellows, of one month full time equivalent (FTE) or  
 115 more through the ACGME's Accreditation Data System (ADS). <sup>(Core)</sup>  
 116  
 117 **I.C.** The program, in partnership with its Sponsoring Institution, must engage in  
 118 practices that focus on mission-driven, ongoing, systematic recruitment

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122

and retention of a diverse and inclusive workforce of residents (if present), fellows, faculty members, senior administrative staff members, and other relevant members of its academic community. <sup>(Core)</sup>

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

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**I.D. Resources**

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

I.D.1.a) The program must have access to the following resources:

I.D.1.a).(1) an emergency department in which pediatric cardiac patients are managed 24 hours a day; <sup>(Core)</sup>

I.D.1.a).(2) a post-anesthesia care area equipped for the management of pediatric cardiac patients and located near the operating room suite; <sup>(Core)</sup>

I.D.1.a).(3) facilities and equipment for research in cardiac anesthesiology; <sup>(Core)</sup>

I.D.1.a).(4) facilities, available at all times, to provide prompt, non-invasive and invasive diagnostic and therapeutic congenital cardiac procedures, including echocardiography, cardiac stress testing, cardiac catheterization, electrophysiological testing and therapeutic intervention, cardiopulmonary scanning procedures, and pulmonary function testing; <sup>(Core)</sup>

I.D.1.a).(5) laboratories, available at all times, that provide prompt results, including blood chemistries, blood gas and acid base analysis oxygen saturation, hematocrit/hemoglobin, and coagulation function; <sup>(Core)</sup>

I.D.1.a).(6) monitoring and advanced life and circulatory support equipment representative of current levels of technology; <sup>(Core)</sup>

I.D.1.a).(7) neonatal and pediatric intensive care units (ICUs) for both surgical and non-surgical cardiac patients; <sup>(Core)</sup>

I.D.1.a).(8) operating rooms equipped for the management of pediatric cardiac patients; and, <sup>(Core)</sup>

164  
165 I.D.1.a).(9) prompt, reliable systems for communication and interaction  
166 with supervisory physicians. (Core)

167  
168 **I.D.2. The program, in partnership with its Sponsoring Institution, must**  
169 **ensure healthy and safe learning and working environments that**  
170 **promote fellow well-being and provide for:** (Core)

171  
172 **I.D.2.a) access to food while on duty;** (Core)

173  
174 **I.D.2.b) safe, quiet, clean, and private sleep/rest facilities available**  
175 **and accessible for fellows with proximity appropriate for safe**  
176 **patient care;** (Core)

**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.**

178  
179 **I.D.2.c) clean and private facilities for lactation that have refrigeration**  
180 **capabilities, with proximity appropriate for safe patient care;**  
181 (Core)

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

182  
183  
184 **I.D.2.d) security and safety measures appropriate to the participating**  
185 **site; and,** (Core)

186  
187 **I.D.2.e) accommodations for fellows with disabilities consistent with**  
188 **the Sponsoring Institution's policy.** (Core)

189  
190 **I.D.3. Fellows must have ready access to subspecialty-specific and other**  
191 **appropriate reference material in print or electronic format. This**  
192 **must include access to electronic medical literature databases with**  
193 **full text capabilities.** (Core)

194  
195 **I.D.4. The program's educational and clinical resources must be adequate**  
196 **to support the number of fellows appointed to the program.** (Core)

197  
198 I.D.4.a) The number and diversity of patients available to the program

199 must support the required inpatient and outpatient experience for  
200 each fellow. <sup>(Core)</sup>

201  
202 **I.E. *A fellowship program usually occurs in the context of many learners and***  
203 ***other care providers and limited clinical resources. It should be structured***  
204 ***to optimize education for all learners present.***

205  
206 **I.E.1. **Fellows should contribute to the education of residents in core****  
207 ****programs, if present.**** <sup>(Core)</sup>

208  
209 **I.E.2. The presence of other learners or staff members in the program must not**  
210 **interfere with the appointed fellows' education.** <sup>(Core)</sup>

211  
**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.**

212  
213 **II. Personnel**

214  
215 **II.A. Program Director**

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

220  
221 **II.A.1.a) The Sponsoring Institution's Graduate Medical Education**  
222 **Committee (GMEC) must approve a change in program**  
223 **director.** <sup>(Core)</sup>

224  
225 **II.A.1.b) Final approval of the program director resides with the**  
226 **Review Committee.** <sup>(Core)</sup>

227  
**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.**

228  
229 **II.A.2. The program director must be provided with support adequate for**  
230 **administration of the program based upon its size and configuration.**  
231 <sup>(Core)</sup>

232  
233 **II.A.2.a) At a minimum, the program director must be provided with the**  
234 **salary support required to devote 10 percent FTE of non-clinical**

235 time to the administration of the program. Additional support must  
 236 be provided based on program size as follows: <sup>(Core)</sup>  
 237

Number of Approved Fellow Positions	Minimum FTE
1-2	0.1
3	0.125
4	0.15
5	0.175
>5	0.2

238

**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.**

- 239
- 240 **II.A.3. Qualifications of the program director:**
- 241
- 242 **II.A.3.a) must include subspecialty expertise and qualifications**  
 243 **acceptable to the Review Committee;** <sup>(Core)</sup>  
 244
- 245 **II.A.3.b) must include current certification in the specialty by the**  
 246 **American Board of Anesthesiology or by the American**  
 247 **Osteopathic Board of Anesthesiology, or subspecialty**  
 248 **qualifications that are acceptable to the Review Committee;**  
 249 <sup>(Core)</sup>  
 250
- 251 [Note that while the Common Program Requirements deem  
 252 certification by a member board of the American Board of Medical  
 253 Specialties (ABMS) or a certifying board of the American  
 254 Osteopathic Association (AOA) acceptable, there is no ABMS or  
 255 AOA board that offers certification in this subspecialty.]  
 256
- 257 **II.A.3.c) must include current appointment as a member of the pediatric**  
 258 **anesthesiology faculty at the primary clinical site;** <sup>(Core)</sup>  
 259
- 260 **II.A.3.d) must include demonstration of completion of a pediatric cardiac**  
 261 **anesthesiology fellowship, and/or at least three years of**  
 262 **participation in a clinical pediatric cardiac anesthesiology**  
 263 **fellowship as a faculty member;** <sup>(Core)</sup>  
 264
- 265 **II.A.3.e) must include at least three years of post-fellowship experience in**  
 266 **clinical pediatric cardiac anesthesiology;** <sup>(Core)</sup>  
 267
- 268 **II.A.3.f) must include demonstration of ongoing academic achievements**  
 269 **appropriate to the subspecialty, including publications, the**  
 270 **development of educational programs, or the conduct of research;**

271 and, (Core)  
272  
273 II.A.3.g) must include devotion of at least 50 percent of the program  
274 director's clinical, educational, administrative, and academic time  
275 to pediatric cardiac anesthesiology. (Core)  
276

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

278  
279 **The program director must have responsibility, authority, and**  
280 **accountability for: administration and operations; teaching and**  
281 **scholarly activity; fellow recruitment and selection, evaluation, and**  
282 **promotion of fellows, and disciplinary action; supervision of fellows;**  
283 **and fellow education in the context of patient care. (Core)**  
284

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

286  
287 **II.A.4.a).(1) be a role model of professionalism; (Core)**  
288

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

289  
290 **II.A.4.a).(2) design and conduct the program in a fashion**  
291 **consistent with the needs of the community, the**  
292 **mission(s) of the Sponsoring Institution, and the**  
293 **mission(s) of the program; (Core)**  
294

**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.**

295  
296 **II.A.4.a).(3) administer and maintain a learning environment**  
297 **conducive to educating the fellows in each of the**  
298 **ACGME Competency domains; (Core)**  
299

**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.**

300

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

**Background and Intent: The program director has the responsibility to ensure that all who educate 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.**

- 318  
 319 **II.A.4.a).(8)** submit accurate and complete information required  
 320 and requested by the DIO, GMEC, and ACGME; <sup>(Core)</sup>  
 321  
 322 **II.A.4.a).(9)** provide applicants who are offered an interview with  
 323 information related to the applicant's eligibility for the  
 324 relevant subspecialty board examination(s); <sup>(Core)</sup>  
 325  
 326 **II.A.4.a).(10)** provide a learning and working environment in which  
 327 fellows have the opportunity to raise concerns and  
 328 provide feedback in a confidential manner as  
 329 appropriate, without fear of intimidation or retaliation;  
 330 <sup>(Core)</sup>  
 331  
 332 **II.A.4.a).(11)** ensure the program's compliance with the Sponsoring  
 333 Institution's policies and procedures related to  
 334 grievances and due process; <sup>(Core)</sup>  
 335  
 336 **II.A.4.a).(12)** ensure the program's compliance with the Sponsoring  
 337 Institution's policies and procedures for due process  
 338 when action is taken to suspend or dismiss, not to  
 339 promote, or not to renew the appointment of a fellow;  
 340 <sup>(Core)</sup>  
 341

**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.

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- II.A.4.a).(13) ensure the program's compliance with the Sponsoring Institution's policies and procedures on employment and non-discrimination; <sup>(Core)</sup>
- II.A.4.a).(13).(a) Fellows must not be required to sign a non-competition guarantee or restrictive covenant. <sup>(Core)</sup>
- II.A.4.a).(14) document verification of program completion for all graduating fellows within 30 days; <sup>(Core)</sup>
- II.A.4.a).(15) provide verification of an individual fellow's completion upon the fellow's request, within 30 days; and, <sup>(Core)</sup>

**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.**

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

**II.B. Faculty**

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

*Faculty members ensure that patients receive the level of care expected from a specialist in the field. They recognize and respond to the needs of the patients, fellows, community, and institution. Faculty members provide appropriate levels of supervision to promote patient safety. Faculty*

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*members create an effective learning environment by acting in a professional manner and attending to the well-being of the fellows and themselves.*

**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.**

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- II.B.1. For each participating site, there must be a sufficient number of faculty members with competence to instruct and supervise all fellows at that location. (Core)**
- II.B.1.a) At least one faculty member must have certification in echocardiography. (Core)
- II.B.1.b) The faculty must include at least one individual who is certified in critical care medicine through a member board of the ABMS or AOA and who practices in an ICU that cares for pediatric cardiac surgical patients. (Core)
- II.B.1.c) The faculty must include at least one physician member qualified in pediatric cardiology and one physician qualified in congenital cardiac surgery. (Core)
- II.B.2. Faculty members must:**
- II.B.2.a) **be role models of professionalism;** (Core)
- II.B.2.b) **demonstrate commitment to the delivery of safe, quality, cost-effective, patient-centered care;** (Core)

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

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

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

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

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

**II.B.3.b) Subspecialty physician faculty members must:**

**II.B.3.b).(1) have current certification in the specialty by the American Board of Anesthesiology or the American Osteopathic Board of Anesthesiology, or possess qualifications judged acceptable to the Review Committee; and,** (Core)

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

**II.B.3.b).(2) have fellowship education or post-residency experience in the care of pediatric cardiac patients that meets or exceeds completion of a one-year pediatric cardiac anesthesiology program.** (Core)

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

**II.B.3.c).(1) The faculty must include at least one non-physician faculty member with experience in cardiopulmonary bypass and other forms of mechanical circulatory support responsible for fellow education.** (Core)

**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.**

464  
465 **II.B.3.d)** **Any other specialty physician faculty members must have**  
466 **current certification in their specialty by the appropriate**  
467 **American Board of Medical Specialties (ABMS) member**  
468 **board or American Osteopathic Association (AOA) certifying**  
469 **board, or possess qualifications judged acceptable to the**  
470 **Review Committee.** <sup>(Core)</sup>

471  
472 **II.B.4.** **Core Faculty**  
473  
474 **Core faculty members must have a significant role in the education**  
475 **and supervision of fellows and must devote a significant portion of**  
476 **their entire effort to fellow education and/or administration, and**  
477 **must, as a component of their activities, teach, evaluate, and provide**  
478 **formative feedback to fellows.** <sup>(Core)</sup>  
479

**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.**

480  
481 **II.B.4.a)** **Core faculty members must be designated by the program**  
482 **director.** <sup>(Core)</sup>  
483

484 **II.B.4.b)** **Core faculty members must complete the annual ACGME**  
485 **Faculty Survey.** <sup>(Core)</sup>  
486

487 **II.B.4.c)** **There must be at least three core faculty members, including the**  
488 **program director.** <sup>(Core)</sup>  
489

490 **II.B.4.c).(1)** **For programs with four or more fellows, a ratio of at least**  
491 **one faculty member to one fellow must be maintained.** <sup>(Core)</sup>  
492

493 **II.C. Program Coordinator**

494  
495 **II.C.1.** **There must be a program coordinator.** <sup>(Core)</sup>  
496

497 **II.C.2.** **The program coordinator must be provided with support adequate**  
498 **for administration of the program based upon its size and**  
499 **configuration.** <sup>(Core)</sup>  
500

501 **II.C.2.a)** **At a minimum, the program coordinator must be supported at 20**  
502 **percent FTE for administration of the program. Additional support**  
503 **must be provided based on program size as follows:** <sup>(Core)</sup>  
504

Number of Approved Fellow Positions	Minimum FTE Coordinator(s) Required
---	---

2	0.22
3	0.24
4	0.26
5	0.28
6	0.3
>6	Additional 0.02 FTE per fellow

505

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

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

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

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

506

507

**II.D. Other Program Personnel**

508

509

**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>**

510

511

512

513

**II.D.1.**

**Individuals with special training and/or experience in cardiovascular disease, including clinical cardiac electrophysiology, pediatric surgery, pulmonary diseases, transthoracic echocardiography, point-of-care testing, neonatology, adult congenital heart disease, imaging, and blood banking, must be available. <sup>(Core)</sup>**

514

515

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517

518

**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.**

519  
520 **III. Fellow Appointments**  
521  
522 **III.A. Eligibility Criteria**

523  
524 **III.A.1. Eligibility Requirements – Fellowship Programs**  
525

526 **All required clinical education for entry into ACGME-accredited**  
527 **fellowship programs must be completed in an ACGME-accredited**  
528 **residency program, an AOA-approved residency program, a**  
529 **program with ACGME International (ACGME-I) Advanced Specialty**  
530 **Accreditation, or a Royal College of Physicians and Surgeons of**  
531 **Canada (RCPSC)-accredited or College of Family Physicians of**  
532 **Canada (CFPC)-accredited residency program located in Canada.**  
533 **(Core)**  
534

**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).**

535  
536 **III.A.1.a) Fellowship programs must receive verification of each**  
537 **entering fellow’s level of competence in the required field,**  
538 **upon matriculation, using ACGME, ACGME-I, or CanMEDS**  
539 **Milestones evaluations from the core residency program. (Core)**  
540

541 **III.A.1.b) Prior to appointment in the program, fellows must have**  
542 **successfully completed a residency program in anesthesiology**  
543 **that satisfies the requirements in III.A.1., and: (Core)**  
544

545 **III.A.1.b).(1) a fellowship program in pediatric anesthesiology that**  
546 **satisfies the requirements in III.A.1.; or, (Core)**  
547

548 **III.A.1.b).(2) a fellowship in adult cardiothoracic anesthesiology that**  
549 **satisfies the requirements in III.A.1. (Core)**  
550

551 **III.A.1.b).(2).(a) Fellows entering from adult cardiothoracic**  
552 **anesthesiology must have: (Core)**  
553

554 **III.A.1.b).(2).(a).(i) completed a minimum of three months in**  
555 **pediatric anesthesiology during the adult**  
556 **cardiothoracic fellowship; or, (Core)**  
557

558 **III.A.1.b).(2).(a).(ii) completed a minimum of three months’**  
559 **training in pediatric anesthesiology following**  
560 **the adult cardiothoracic fellowship. (Core)**  
561

562 **III.A.1.c) Fellow Eligibility Exception**  
563

564 **The Review Committee for Anesthesiology will allow the**  
565 **following exception to the fellowship eligibility requirements:**  
566

- 567 III.A.1.c).(1) An ACGME-accredited fellowship program may accept  
 568 an exceptionally qualified international graduate  
 569 applicant who does not satisfy the eligibility  
 570 requirements listed in III.A.1., but who does meet all of  
 571 the following additional qualifications and conditions:  
 572 (Core)
- 573
- 574 III.A.1.c).(1).(a) evaluation by the program director and  
 575 fellowship selection committee of the  
 576 applicant's suitability to enter the program,  
 577 based on prior training and review of the  
 578 summative evaluations of training in the core  
 579 specialty; and, (Core)
- 580
- 581 III.A.1.c).(1).(b) review and approval of the applicant's  
 582 exceptional qualifications by the GMEC; and,  
 583 (Core)
- 584
- 585 III.A.1.c).(1).(c) verification of Educational Commission for  
 586 Foreign Medical Graduates (ECFMG)  
 587 certification. (Core)
- 588
- 589 III.A.1.c).(2) Applicants accepted through this exception must have  
 590 an evaluation of their performance by the Clinical  
 591 Competency Committee within 12 weeks of  
 592 matriculation. (Core)
- 593

**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.**

- 594
- 595 III.B. The program director must not appoint more fellows than approved by the  
 596 Review Committee. (Core)
- 597
- 598 III.B.1. All complement increases must be approved by the Review  
 599 Committee. (Core)
- 600
- 601 III.C. Fellow Transfers

602  
603 The program must obtain verification of previous educational experiences  
604 and a summative competency-based performance evaluation prior to  
605 acceptance of a transferring fellow, and Milestones evaluations upon  
606 matriculation. <sup>(Core)</sup>  
607

608 **IV. Educational Program**

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

612 *The educational program must support the development of knowledgeable, skillful*  
613 *physicians who provide compassionate care.*

614 *In addition, the program is expected to define its specific program aims consistent*  
615 *with the overall mission of its Sponsoring Institution, the needs of the community*  
616 *it serves and that its graduates will serve, and the distinctive capabilities of*  
617 *physicians it intends to graduate. While programs must demonstrate substantial*  
618 *compliance with the Common and subspecialty-specific Program Requirements, it*  
619 *is recognized that within this framework, programs may place different emphasis*  
620 *on research, leadership, public health, etc. It is expected that the program aims*  
621 *will reflect the nuanced program-specific goals for it and its graduates; for*  
622 *example, it is expected that a program aiming to prepare physician-scientists will*  
623 *have a different curriculum from one focusing on community health.*

624  
625  
626  
627  
628 **IV.A. The curriculum must contain the following educational components:** <sup>(Core)</sup>

629  
630 **IV.A.1. a set of program aims consistent with the Sponsoring Institution's**  
631 **mission, the needs of the community it serves, and the desired**  
632 **distinctive capabilities of its graduates;** <sup>(Core)</sup>

633  
634 **IV.A.1.a) The program's aims must be made available to program**  
635 **applicants, fellows, and faculty members.** <sup>(Core)</sup>

636  
637 **IV.A.2. competency-based goals and objectives for each educational**  
638 **experience designed to promote progress on a trajectory to**  
639 **autonomous practice in their subspecialty. These must be**  
640 **distributed, reviewed, and available to fellows and faculty members;**  
641 <sup>(Core)</sup>

642  
643 **IV.A.3. delineation of fellow responsibilities for patient care, progressive**  
644 **responsibility for patient management, and graded supervision in**  
645 **their subspecialty;** <sup>(Core)</sup>  
646

**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.**

647  
648 **IV.A.4.** **structured educational activities beyond direct patient care; and,**  
649 **(Core)**  
650

**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.**

651  
652 **IV.A.5.** **advancement of fellows' knowledge of ethical principles**  
653 **foundational to medical professionalism. (Core)**  
654

655 **IV.B.** **ACGME Competencies**  
656

**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.**

657  
658 **IV.B.1.** **The program must integrate the following ACGME Competencies**  
659 **into the curriculum: (Core)**  
660

661 **IV.B.1.a)** **Professionalism**  
662

663 **Fellows must demonstrate a commitment to professionalism**  
664 **and an adherence to ethical principles. (Core)**  
665

666 **IV.B.1.b)** **Patient Care and Procedural Skills**  
667

**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.**

668  
669 **IV.B.1.b).(1)** **Fellows must be able to provide patient care that is**  
670 **compassionate, appropriate, and effective for the**  
671 **treatment of health problems and the promotion of**  
672 **health. (Core)**

673		
674	IV.B.1.b).(1).(a)	Fellows must demonstrate competence by following standards for patient care and established guidelines and procedures for patient safety, error reduction, and improved patient outcomes. <sup>(Core)</sup>
675		
676		
677		
678		
679	IV.B.1.b).(1).(b)	Fellows must demonstrate competence in: <sup>(Core)</sup>
680		
681	IV.B.1.b).(1).(b).(i)	hemodynamic, respiratory, and neurophysiologic monitoring; <sup>(Core)</sup>
682		
683		
684	IV.B.1.b).(1).(b).(ii)	interpretation of cardiovascular and pulmonary diagnostic test data; <sup>(Core)</sup>
685		
686		
687	IV.B.1.b).(1).(b).(iii)	peri-operative critical care, including ventilatory support and peri-operative pain management; <sup>(Core)</sup>
688		
689		
690		
691	IV.B.1.b).(1).(b).(iv)	pharmacological and mechanical circulatory support; and, <sup>(Core)</sup>
692		
693		
694	IV.B.1.b).(1).(b).(v)	pre-operative patient evaluation and optimization of clinical status prior to the cardiac procedure. <sup>(Core)</sup>
695		
696		
697		
698	IV.B.1.b).(1).(c)	Fellows must maintain current certification in pediatric advanced life support and advanced cardiac life support. <sup>(Core)</sup>
699		
700		
701		
702	<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. <sup>(Core)</sup></b>
703		
704		
705		
706	IV.B.1.b).(2).(a)	Fellows must demonstrate competence in providing anesthesia care for patients undergoing cardiac surgery with and without extracorporeal circulation. <sup>(Core)</sup>
707		
708		
709		
710		
711	IV.B.1.b).(2).(b)	Fellows must demonstrate competence in providing anesthesia care for patients undergoing surgery, including operations on the lung and thoracic aorta. <sup>(Core)</sup>
712		
713		
714		
715		
716	IV.B.1.b).(2).(c)	Fellows must be actively involved in the management of other extracorporeal circulatory assist devices. <sup>(Core)</sup>
717		
718		
719		
720	IV.B.1.b).(2).(d)	Fellows must demonstrate competence in management during cardiopulmonary bypass (CPB). <sup>(Core)</sup>
721		
722		
723		

724	<b>IV.B.1.c)</b>	<b>Medical Knowledge</b>
725		
726		<b>Fellows must demonstrate knowledge of established and</b>
727		<b>evolving biomedical, clinical, epidemiological and social-</b>
728		<b>behavioral sciences, as well as the application of this</b>
729		<b>knowledge to patient care.</b> <sup>(Core)</sup>
730		
731	IV.B.1.c).(1)	Fellows must demonstrate knowledge of how cardiac and
732		congenital diseases affect the administration of anesthesia
733		and life support to patients, including: <sup>(Core)</sup>
734		
735	IV.B.1.c).(1).(a)	cardiac catheterization procedures and diagnostic
736		interpretation, to include invasive cardiac
737		catheterization procedures, including angioplasty,
738		stenting, device placement, and transcatheter laser
739		and mechanical ablations; <sup>(Core)</sup>
740		
741	IV.B.1.c).(1).(b)	cardiac surgical procedures, to include repair of
742		congenital heart lesions; valve repair and
743		replacement; pericardial, neoplastic procedures;
744		and heart and lung transplantation; and myocardial
745		revascularization; <sup>(Core)</sup>
746		
747	IV.B.1.c).(1).(c)	circulatory assist devices, to include intra-aortic
748		balloon pumps, left and right ventricular assist
749		devices, and extracorporeal membrane
750		oxygenation (ECMO); <sup>(Core)</sup>
751		
752	IV.B.1.c).(1).(d)	embryological development of the cardiac
753		structures; <sup>(Core)</sup>
754		
755	IV.B.1.c).(1).(e)	ethical and legal issues, and practice management;
756		<sup>(Core)</sup>
757		
758	IV.B.1.c).(1).(f)	extracorporeal circulation, to include myocardial
759		preservation; effects of CPB on pharmacokinetics
760		and pharmacodynamics; cardiac, respiratory,
761		neurological, metabolic, endocrine, hematological,
762		renal, and thermoregulatory effects of CPB; and
763		coagulation/anticoagulation before, during, and
764		after CPB; <sup>(Core)</sup>
765		
766	IV.B.1.c).(1).(g)	inotropes, chronotropes, vasoconstrictors, and
767		vasodilators; <sup>(Core)</sup>
768		
769	IV.B.1.c).(1).(h)	non-invasive cardiovascular evaluation, to include
770		electrocardiography, transthoracic
771		echocardiography, TEE, stress testing, and
772		cardiovascular imaging; <sup>(Core)</sup>
773		
774	IV.B.1.c).(1).(i)	non-invasive pulmonary evaluation, to include

775		pulmonary function tests, blood gas and acid-base
776		analysis, oximetry, capnography, and pulmonary
777		imaging; <sup>(Core)</sup>
778		
779	IV.B.1.c).(1).(j)	pacemaker insertion and modes of action; <sup>(Core)</sup>
780		
781	IV.B.1.c).(1).(k)	pain management of cardiac patients; <sup>(Core)</sup>
782		
783	IV.B.1.c).(1).(l)	pathophysiology, pharmacology, and clinical
784		management of patients with cardiac disease, to
785		include cardiomyopathy, heart failure, cardiac
786		tamponade, ischemic heart disease, acquired and
787		congenital valvular heart disease, congenital heart
788		disease, electrophysiologic disturbances, and
789		neoplastic and infectious cardiac diseases; <sup>(Core)</sup>
790		
791	IV.B.1.c).(1).(m)	pathophysiology, pharmacology, and clinical
792		management of patients with respiratory disease, to
793		include pleural, bronchopulmonary, neoplastic,
794		infectious, and inflammatory diseases; <sup>(Core)</sup>
795		
796	IV.B.1.c).(1).(n)	pathophysiology, pharmacology, and clinical
797		management of patients with tracheal, esophageal,
798		and mediastinal diseases, to include infectious,
799		neoplastic, and inflammatory processes; <sup>(Core)</sup>
800		
801	IV.B.1.c).(1).(o)	peri-anesthetic monitoring, both non-invasive and
802		invasive (intra-arterial, central venous, pulmonary
803		artery, mixed venous saturation, cardiac output,
804		near-infrared spectroscopy); <sup>(Core)</sup>
805		
806	IV.B.1.c).(1).(p)	peri-operative ventilator management, to include
807		intra-operative anesthetics, and critical care unit
808		ventilators and techniques; <sup>(Core)</sup>
809		
810	IV.B.1.c).(1).(q)	pharmacokinetics and pharmacodynamics of
811		anesthetic medications prescribed for pediatric
812		cardiac patients; <sup>(Core)</sup>
813		
814	IV.B.1.c).(1).(r)	pharmacokinetics and pharmacodynamics of
815		medications prescribed for management of
816		hemodynamic instability; <sup>(Core)</sup>
817		
818	IV.B.1.c).(1).(s)	pharmacokinetics and pharmacodynamics of
819		medications prescribed for medical management of
820		pediatric cardiac patients; <sup>(Core)</sup>
821		
822	IV.B.1.c).(1).(t)	post-anesthetic critical care of pediatric cardiac
823		patients; <sup>(Core)</sup>
824		
825	IV.B.1.c).(1).(u)	pre-anesthetic evaluation and preparation of adults

826 with congenital heart disease; <sup>(Core)</sup>  
827  
828 IV.B.1.c).(1).(v) quality assurance/improvement; and, <sup>(Core)</sup>  
829  
830 IV.B.1.c).(1).(w) thoracic aortic surgery, to include ascending,  
831 transverse, and descending aortic surgery with  
832 circulatory arrest; CPB employing low flow and or  
833 retrograde perfusion; and spinal cord protection.  
834 <sup>(Core)</sup>

835  
836 **IV.B.1.d) Practice-based Learning and Improvement**

837  
838 **Fellows must demonstrate the ability to investigate and**  
839 **evaluate their care of patients, to appraise and assimilate**  
840 **scientific evidence, and to continuously improve patient care**  
841 **based on constant self-evaluation and lifelong learning.** <sup>(Core)</sup>  
842

**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.**

843  
844 **IV.B.1.e) Interpersonal and Communication Skills**

845  
846 **Fellows must demonstrate interpersonal and communication**  
847 **skills that result in the effective exchange of information and**  
848 **collaboration with patients, their families, and health**  
849 **professionals.** <sup>(Core)</sup>  
850

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

852  
853 **Fellows must demonstrate an awareness of and**  
854 **responsiveness to the larger context and system of health**  
855 **care, including the social determinants of health, as well as**  
856 **the ability to call effectively on other resources to provide**  
857 **optimal health care.** <sup>(Core)</sup>  
858

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

860  
861 **IV.C.1. The curriculum must be structured to optimize fellow educational**  
862 **experiences, the length of these experiences, and supervisory**  
863 **continuity.** <sup>(Core)</sup>  
864

865 IV.C.1.a) Clinical experiences should be structured to facilitate learning in a  
866 manner that allows residents to function as part of an effective  
867 interprofessional team that works together longitudinally with  
868 shared goals of patient safety and quality improvement. <sup>(Core)</sup>

869		
870	<b>IV.C.2</b>	<b>The program must provide instruction and experience in pain</b>
871		<b>management if applicable for the subspecialty, including recognition</b>
872		<b>of the signs of addiction.</b> <sup>(Core)</sup>
873		
874	IV.C.3.	The curriculum must include at least nine months of clinical anesthesia
875		experience, to include: <sup>(Core)</sup>
876		
877	IV.C.3.a)	cardiac experience, including: <sup>(Core)</sup>
878		
879	IV.C.3.a).(1)	a minimum of 100 cardiac surgical procedures with at least
880		50 requiring CPB; <sup>(Core)</sup>
881		
882	IV.C.3.a).(2)	management of patients undergoing procedures in:
883		
884	IV.C.3.a).(2).(a)	correction/palliation/revision of congenital cardiac
885		lesions on bypass with the following: <sup>(Core)</sup>
886		
887	IV.C.3.a).(2).(a).(i)	a minimum of three procedures in
888		hypoplastic left heart syndrome; <sup>(Core)</sup>
889		
890	IV.C.3.a).(2).(a).(ii)	a minimum of three other neonatal
891		procedures, such as truncus arteriosus and
892		total anomalous pulmonary venous return;
893		<sup>(Core)</sup>
894		
895	IV.C.3.a).(2).(a).(iii)	a minimum of three transposition of the
896		great arteries procedures; <sup>(Core)</sup>
897		
898	IV.C.3.a).(2).(a).(iv)	a minimum of six common atrioventricular
899		canal procedures; <sup>(Core)</sup>
900		
901	IV.C.3.a).(2).(a).(v)	a minimum of five tetralogy of Fallot
902		procedures; <sup>(Core)</sup>
903		
904	IV.C.3.a).(2).(a).(vi)	a minimum of 10 ventricular/atrial septal
905		defect procedures; <sup>(Core)</sup>
906		
907	IV.C.3.a).(2).(a).(vii)	a minimum of five bidirectional Glenn
908		procedures; <sup>(Core)</sup>
909		
910	IV.C.3.a).(2).(a).(viii)	a minimum of four Fontan procedures; <sup>(Core)</sup>
911		
912	IV.C.3.a).(2).(a).(ix)	a minimum of 20 valvular lesion procedures;
913		and, <sup>(Core)</sup>
914		
915	IV.C.3.a).(2).(a).(x)	a minimum of one palliative shunt
916		procedure. <sup>(Core)</sup>
917		
918	IV.C.3.a).(2).(b)	correction/palliation/revision of congenital cardiac
919		lesions off bypass with the following:

920		
921	IV.C.3.a).(2).(b).(i)	a minimum of three aortic coarctation procedures; <sup>(Core)</sup>
922		
923		
924	IV.C.3.a).(2).(b).(ii)	a minimum of three patent ductus arteriosus (surgical or catheterization laboratory) procedures; and, <sup>(Core)</sup>
925		
926		
927		
928	IV.C.3.a).(2).(b).(iii)	a minimum of two vascular ring procedures. <sup>(Core)</sup>
929		
930		
931	IV.C.3.a).(2).(c)	catheterization procedures, including:
932		
933	IV.C.3.a).(2).(c).(i)	a minimum of 20 diagnostic procedures; and, <sup>(Core)</sup>
934		
935		
936	IV.C.3.a).(2).(c).(ii)	a minimum of 25 interventional procedures. <sup>(Core)</sup>
937		
938		
939	IV.C.3.a).(3)	a minimum of 10 electrophysiology procedures requiring general anesthesia; <sup>(Core)</sup>
940		
941		
942	IV.C.3.a).(4)	a minimum of 10 medical imaging procedures, including echocardiography, magnetic resonance imaging, and chest tomography; <sup>(Core)</sup>
943		
944		
945		
946	IV.C.3.a).(5)	management of patients undergoing procedures in at least one of the following categories: <sup>(Core)</sup>
947		
948		
949	IV.C.3.a).(5).(a)	cardiac or lung transplantation; or, <sup>(Core)</sup>
950		
951	IV.C.3.a).(5).(b)	placement of circulatory assist devices including left heart bypass, ventricular assist devices, intra-aortic balloon pumps, and ECMO. <sup>(Core)</sup>
952		
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955	IV.C.3.a).(6)	a minimum of 20 central venous catheterization procedures; and, <sup>(Core)</sup>
956		
957		
958	IV.C.3.a).(7)	a minimum of 20 arterial line placement procedures. <sup>(Core)</sup>
959		
960	IV.C.4.	Each fellow must have at least a one-month experience managing pediatric cardiac surgical patients in a critical care (ICU) setting. <sup>(Core)</sup>
961		
962		
963	IV.C.5.	Each fellow must have at least one month of clinical elective rotations related to the care of the pediatric cardiac patient, such as inpatient cardiology, invasive cardiology, electrophysiology, cardiac critical care, echocardiography, and extracorporeal perfusion. <sup>(Core)</sup>
964		
965		
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967		
968	IV.C.5.a)	Elective rotations should be at least two weeks in duration. <sup>(Detail)</sup>
969		

970	IV.C.5.b)	A research project in cardiac anesthesiology may be substituted
971		for clinical elective rotations. <sup>(Detail)</sup>
972		
973	IV.C.6.	The curriculum must be designed to allow fellows to demonstrate:
974		
975	IV.C.6.a)	effective communication skills, including: <sup>(Core)</sup>
976		
977	IV.C.6.a).(1)	obtaining informed consent; <sup>(Core)</sup>
978		
979	IV.C.6.a).(2)	communicating the patient care and management plan;
980		and, <sup>(Core)</sup>
981		
982	IV.C.6.a).(3)	explaining complications/errors and their management to
983		patients and families. <sup>(Core)</sup>
984		
985	IV.C.6.b)	skills in preparing and presenting educational material for medical
986		students, graduate medical education staff members, and allied
987		health personnel; and, <sup>(Core)</sup>
988		
989	IV.C.6.c)	competence in providing clinical consultations. <sup>(Core)</sup>
990		
991	IV.C.7.	The curriculum must be designed to allow fellows to demonstrate:
992		
993	IV.C.7.a)	compassion, integrity, and respect for others; <sup>(Core)</sup>
994		
995	IV.C.7.b)	responsiveness to patient needs; <sup>(Core)</sup>
996		
997	IV.C.7.c)	respect for patient privacy and autonomy; <sup>(Core)</sup>
998		
999	IV.C.7.d)	accountability to patients, society, and the profession; <sup>(Core)</sup>
1000		
1001	IV.C.7.e)	sensitivity and responsiveness to a diverse patient population,
1002		including diversity in gender, age, culture, race, religion,
1003		disabilities, and sexual orientation; and, <sup>(Core)</sup>
1004		
1005	IV.C.7.f)	compliance with institutional, departmental, and program policies.
1006		<sup>(Core)</sup>
1007		
1008	IV.C.8.	The curriculum must be designed to allow fellows to:
1009		
1010	IV.C.8.a)	work in interprofessional teams to enhance patient safety and
1011		improve patient care quality; and, <sup>(Core)</sup>
1012		
1013	IV.C.8.b)	participate in identifying system errors and implementing potential
1014		system solutions. <sup>(Core)</sup>
1015		
1016	IV.C.9.	Clinical Components
1017		
1018	IV.C.9.a)	Clinical experience must include direct clinical care of patients and
1019		supervisory experience. <sup>(Core)</sup>
1020		

1021	IV.C.9.a).(1)	At a minimum, 100 cases must be performed by each fellow as the primary anesthesia provider under the supervision of a faculty anesthesiologist. (Core)
1022		
1023		
1024		
1025	IV.C.9.a).(1).(a)	At least 50 of these cases must take place in the operating room. (Core)
1026		
1027		
1028	IV.C.9.a).(1).(b)	Supervision of residents and other anesthesia providers by fellows must be under the direct supervision of a faculty anesthesiologist. (Core)
1029		
1030		
1031		
1032	IV.C.9.a).(1).(c)	Faculty members must provide feedback to help fellows develop skills in supervision. (Core)
1033		
1034		
1035	IV.C.9.a).(2)	Fellows must have experience with anesthetic management of pediatric cardiac patients, or adult patients with congenital heart disease, for cardiac pacemaker and automatic implantable cardiac defibrillator placement, surgical treatment of cardiac arrhythmias, cardiac catheterization, and cardiac electrophysiologic diagnostic/therapeutic procedures. (Core)
1036		
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1043	IV.C.10.	The program director must ensure that all fellows maintain accurate procedure logs. (Core)
1044		
1045		
1046	IV.C.11.	The didactic curriculum should include lectures, peer-review case conferences, and/or morbidity and mortality conferences, as well as interdepartmental conferences or departmental grand rounds. (Core)
1047		
1048		
1049		
1050	IV.C.11.a)	Subspecialty conferences, including review of all current complications and deaths, seminars, and clinical and basic science instruction, must be regularly conducted. (Detail)
1051		
1052		
1053		
1054	IV.C.11.b)	Fellows must actively participate in the planning and production of these meetings. (Detail)
1055		
1056		
1057	IV.C.11.c)	Fellows and faculty members should regularly attend all lectures, conferences, seminars, and workshops. (Core)
1058		
1059		
1060	IV.C.11.c).(1)	Faculty members should be the leaders in the majority of the sessions. (Detail)
1061		
1062		
1063	IV.C.11.d)	Multidisciplinary conferences should include participation from faculty members from cardiology, imaging, congenital cardiac surgery, and pediatric critical care. (Core)
1064		
1065		
1066		
1067	IV.C.12.	Fellows must attend a minimum of 12 multidisciplinary conferences that are relevant to cardiac anesthesiology, including topics such as congenital cardiac surgery, cardiovascular medicine, imaging, catheterization, mechanical assist devices, lung transplantation, and pediatric critical care. (Core)
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**IV.D. Scholarship**

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

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

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

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

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

**IV.D.1.a).(1) The program must provide instruction in the fundamentals of research design and conduct, and the interpretation and presentation of data. <sup>(Core)</sup>**

**IV.D.1.a).(2) The faculty must establish and maintain an environment of inquiry and scholarship with an active research component. <sup>(Core)</sup>**

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

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

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

- 1122 • Creation of curricula, evaluation tools, didactic
- 1123 educational activities, or electronic educational
- 1124 materials
- 1125 • Contribution to professional committees, educational
- 1126 organizations, or editorial boards
- 1127 • Innovations in education

1128  
 1129 **IV.D.2.b) The program must demonstrate dissemination of scholarly**  
 1130 **activity within and external to the program by the following**  
 1131 **methods:**  
 1132

**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.**

1133  
 1134 **IV.D.2.b).(1) faculty participation in grand rounds, posters,**  
 1135 **workshops, quality improvement presentations,**  
 1136 **podium presentations, grant leadership, non-peer-**  
 1137 **reviewed print/electronic resources, articles or**  
 1138 **publications, book chapters, textbooks, webinars,**  
 1139 **service on professional committees, or serving as a**  
 1140 **journal reviewer, journal editorial board member, or**  
 1141 **editor; (Outcome)‡**

1142  
 1143 **IV.D.2.b).(2) peer-reviewed publication. (Outcome)**  
 1144

1145 **IV.D.3. Fellow Scholarly Activity**

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 1147 **IV.D.3.a) All fellows must conduct or be substantially involved in a scholarly**  
 1148 **project related to the subspecialty that is suitable for publication.**  
 1149 **(Core)**

1150  
 1151 **IV.D.3.a).(1) The results of such projects must be disseminated through**  
 1152 **a variety of means, including publication or presentation at**  
 1153 **local, regional, national, or international meetings. (Core)**  
 1154

1155 **IV.D.3.a).(2) Fellows must have a faculty mentor overseeing their**  
 1156 **project. (Core)**  
 1157

**Background and Intent: Fellows who have previously completed residency programs have demonstrated sufficient competence to enter autonomous practice within their core specialty. This option is designed to enhance fellows’ maturation and competence in their core specialty. This enables fellows to occupy a dual role in the health system: as learners in their subspecialty, and as credentialed practitioners in their core**

specialty. Hours worked in independent practice during fellowship still fall under the clinical and educational work hour limits. See Program Director Guide for more details.

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**V. Evaluation**

**V.A. Fellow Evaluation**

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

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

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

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

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

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

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

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

V.A.1.a).(1) Faculty members responsible for teaching must provide critical evaluations of each fellow's progress and competence to the program director as detailed in V.A.1.b).(1). <sup>(Core)</sup>

V.A.1.a).(1).(a) Assessment should include essential character attributes, acquired character attributes, fund of knowledge, clinical judgment, and clinical psychomotor skills, as well as specific tasks and

1179 skills for patient management and critical analysis  
 1180 of clinical situations. <sup>(Detail)</sup>  
 1181  
 1182 V.A.1.a).(2) There must be periodic evaluation of fellows' patient care  
 1183 (quality assurance). <sup>(Core)</sup>  
 1184  
 1185 V.A.1.a).(3) The program must review fellows' procedure logs to  
 1186 ensure each fellow's progress in achieving the required  
 1187 breadth and depth of experience. <sup>(Detail)</sup>  
 1188

**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.**

1189  
 1190 V.A.1.b) Evaluation must be documented at the completion of the  
 1191 assignment. <sup>(Core)</sup>  
 1192  
 1193 V.A.1.b).(1) For block rotations of greater than three months in  
 1194 duration, evaluation must be documented at least  
 1195 every three months. <sup>(Core)</sup>  
 1196  
 1197 V.A.1.b).(2) Longitudinal experiences such as continuity clinic in  
 1198 the context of other clinical responsibilities must be  
 1199 evaluated at least every three months and at  
 1200 completion. <sup>(Core)</sup>  
 1201  
 1202 V.A.1.c) The program must provide an objective performance  
 1203 evaluation based on the Competencies and the subspecialty-  
 1204 specific Milestones, and must: <sup>(Core)</sup>  
 1205  
 1206 V.A.1.c).(1) use multiple evaluators (e.g., faculty members, peers,  
 1207 patients, self, and other professional staff members);  
 1208 and, <sup>(Core)</sup>  
 1209  
 1210 V.A.1.c).(2) provide that information to the Clinical Competency  
 1211 Committee for its synthesis of progressive fellow  
 1212 performance and improvement toward unsupervised  
 1213 practice. <sup>(Core)</sup>  
 1214

**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.**

- 1215  
1216 **V.A.1.d)**                                   **The program director or their designee, with input from the**  
1217   **Clinical Competency Committee, must:**  
1218  
1219 **V.A.1.d).(1)**                                   **meet with and review with each fellow their**  
1220   **documented semi-annual evaluation of performance,**  
1221   **including progress along the subspecialty-specific**  
1222   **Milestones. <sup>(Core)</sup>**  
1223  
1224 **V.A.1.d).(2)**                                   **assist fellows in developing individualized learning**  
1225   **plans to capitalize on their strengths and identify areas**  
1226   **for growth; and, <sup>(Core)</sup>**  
1227  
1228 **V.A.1.d).(3)**                                   **develop plans for fellows failing to progress, following**  
1229   **institutional policies and procedures. <sup>(Core)</sup>**  
1230

**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.**

- 1231  
1232 **V.A.1.e)**                                   **At least annually, there must be a summative evaluation of**  
1233   **each fellow that includes their readiness to progress to the**  
1234   **next year of the program, if applicable. <sup>(Core)</sup>**  
1235  
1236 **V.A.1.f)**                                   **The evaluations of a fellow's performance must be accessible**  
1237   **for review by the fellow. <sup>(Core)</sup>**  
1238  
1239 **V.A.2.**                                   **Final Evaluation**  
1240  
1241 **V.A.2.a)**                                   **The program director must provide a final evaluation for each**  
1242   **fellow upon completion of the program. <sup>(Core)</sup>**  
1243  
1244 **V.A.2.a).(1)**                                   **The subspecialty-specific Milestones, and when**  
1245   **applicable the subspecialty-specific Case Logs, must**  
1246   **be used as tools to ensure fellows are able to engage**

- 1247 in autonomous practice upon completion of the  
 1248 program. <sup>(Core)</sup>  
 1249  
 1250 **V.A.2.a).(2)** The final evaluation must:  
 1251  
 1252 **V.A.2.a).(2).(a)** become part of the fellow’s permanent record  
 1253 maintained by the institution, and must be  
 1254 accessible for review by the fellow in  
 1255 accordance with institutional policy; <sup>(Core)</sup>  
 1256  
 1257 **V.A.2.a).(2).(b)** verify that the fellow has demonstrated the  
 1258 knowledge, skills, and behaviors necessary to  
 1259 enter autonomous practice; <sup>(Core)</sup>  
 1260  
 1261 **V.A.2.a).(2).(c)** consider recommendations from the Clinical  
 1262 Competency Committee; and, <sup>(Core)</sup>  
 1263  
 1264 **V.A.2.a).(2).(d)** be shared with the fellow upon completion of  
 1265 the program. <sup>(Core)</sup>  
 1266  
 1267 **V.A.3.** A Clinical Competency Committee must be appointed by the  
 1268 program director. <sup>(Core)</sup>  
 1269  
 1270 **V.A.3.a)** At a minimum the Clinical Competency Committee must  
 1271 include three members, at least one of whom is a core faculty  
 1272 member. Members must be faculty members from the same  
 1273 program or other programs, or other health professionals  
 1274 who have extensive contact and experience with the  
 1275 program’s fellows. <sup>(Core)</sup>  
 1276  
 1277 **V.A.3.b)** The Clinical Competency Committee must:  
 1278  
 1279 **V.A.3.b).(1)** review all fellow evaluations at least semi-annually;  
 1280 <sup>(Core)</sup>  
 1281  
 1282 **V.A.3.b).(2)** determine each fellow’s progress on achievement of  
 1283 the subspecialty-specific Milestones; and, <sup>(Core)</sup>  
 1284  
 1285 **V.A.3.b).(3)** meet prior to the fellows’ semi-annual evaluations and  
 1286 advise the program director regarding each fellow’s  
 1287 progress. <sup>(Core)</sup>  
 1288  
 1289 **V.B. Faculty Evaluation**  
 1290  
 1291 **V.B.1.** The program must have a process to evaluate each faculty  
 1292 member’s performance as it relates to the educational program at  
 1293 least annually. <sup>(Core)</sup>  
 1294

**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.

- 1295  
1296 V.B.1.a) This evaluation must include a review of the faculty member's  
1297 clinical teaching abilities, engagement with the educational  
1298 program, participation in faculty development related to their  
1299 skills as an educator, clinical performance, professionalism,  
1300 and scholarly activities. (Core)  
1301  
1302 V.B.1.b) This evaluation must include written, confidential evaluations  
1303 by the fellows. (Core)  
1304  
1305 V.B.2. Faculty members must receive feedback on their evaluations at least  
1306 annually. (Core)  
1307  
1308 V.B.3. Results of the faculty educational evaluations should be  
1309 incorporated into program-wide faculty development plans. (Core)  
1310

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.

- 1311  
1312 V.C. Program Evaluation and Improvement  
1313  
1314 V.C.1. The program director must appoint the Program Evaluation  
1315 Committee to conduct and document the Annual Program  
1316 Evaluation as part of the program's continuous improvement  
1317 process. (Core)  
1318  
1319 V.C.1.a) The Program Evaluation Committee must be composed of at  
1320 least two program faculty members, at least one of whom is a  
1321 core faculty member, and at least one fellow. (Core)  
1322  
1323 V.C.1.b) Program Evaluation Committee responsibilities must include:

- 1324  
1325 **V.C.1.b).(1)** acting as an advisor to the program director, through  
1326 program oversight; <sup>(Core)</sup>  
1327  
1328 **V.C.1.b).(2)** review of the program’s self-determined goals and  
1329 progress toward meeting them; <sup>(Core)</sup>  
1330  
1331 **V.C.1.b).(3)** guiding ongoing program improvement, including  
1332 development of new goals, based upon outcomes;  
1333 and, <sup>(Core)</sup>  
1334  
1335 **V.C.1.b).(4)** review of the current operating environment to identify  
1336 strengths, challenges, opportunities, and threats as  
1337 related to the program’s mission and aims. <sup>(Core)</sup>  
1338

**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.**

- 1339  
1340 **V.C.1.c)** The Program Evaluation Committee should consider the  
1341 following elements in its assessment of the program:  
1342  
1343 **V.C.1.c).(1)** curriculum; <sup>(Core)</sup>  
1344  
1345 **V.C.1.c).(2)** outcomes from prior Annual Program Evaluation(s);  
1346 <sup>(Core)</sup>  
1347  
1348 **V.C.1.c).(3)** ACGME letters of notification, including citations,  
1349 Areas for Improvement, and comments; <sup>(Core)</sup>  
1350  
1351 **V.C.1.c).(4)** quality and safety of patient care; <sup>(Core)</sup>  
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1353 **V.C.1.c).(5)** aggregate fellow and faculty:  
1354  
1355 **V.C.1.c).(5).(a)** well-being; <sup>(Core)</sup>  
1356  
1357 **V.C.1.c).(5).(b)** recruitment and retention; <sup>(Core)</sup>  
1358  
1359 **V.C.1.c).(5).(c)** workforce diversity; <sup>(Core)</sup>  
1360  
1361 **V.C.1.c).(5).(d)** engagement in quality improvement and patient  
1362 safety; <sup>(Core)</sup>  
1363  
1364 **V.C.1.c).(5).(e)** scholarly activity; <sup>(Core)</sup>  
1365  
1366 **V.C.1.c).(5).(f)** ACGME Resident/Fellow and Faculty Surveys  
1367 (where applicable); and, <sup>(Core)</sup>  
1368

- 1369 V.C.1.c).(5).(g) written evaluations of the program. <sup>(Core)</sup>  
 1370  
 1371 V.C.1.c).(6) aggregate fellow:  
 1372  
 1373 V.C.1.c).(6).(a) achievement of the Milestones; <sup>(Core)</sup>  
 1374  
 1375 V.C.1.c).(6).(b) in-training examinations (where applicable);  
 1376 <sup>(Core)</sup>  
 1377  
 1378 V.C.1.c).(6).(c) board pass and certification rates; and, <sup>(Core)</sup>  
 1379  
 1380 V.C.1.c).(6).(d) graduate performance. <sup>(Core)</sup>  
 1381  
 1382 V.C.1.c).(7) aggregate faculty:  
 1383  
 1384 V.C.1.c).(7).(a) evaluation; and, <sup>(Core)</sup>  
 1385  
 1386 V.C.1.c).(7).(b) professional development <sup>(Core)</sup>  
 1387  
 1388 V.C.1.d) The Program Evaluation Committee must evaluate the  
 1389 program's mission and aims, strengths, areas for  
 1390 improvement, and threats. <sup>(Core)</sup>  
 1391  
 1392 V.C.1.e) The annual review, including the action plan, must:  
 1393  
 1394 V.C.1.e).(1) be distributed to and discussed with the members of  
 1395 the teaching faculty and the fellows; and, <sup>(Core)</sup>  
 1396  
 1397 V.C.1.e).(2) be submitted to the DIO. <sup>(Core)</sup>  
 1398  
 1399 V.C.2. The program must participate in a Self-Study prior to its 10-Year  
 1400 Accreditation Site Visit. <sup>(Core)</sup>  
 1401  
 1402 V.C.2.a) A summary of the Self-Study must be submitted to the DIO.  
 1403 <sup>(Core)</sup>  
 1404

**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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 1406 VI. The Learning and Working Environment  
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***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***

1435 *continuous focus on the safety, individual needs, and humanity of*  
1436 *their patients. It is the right of each patient to be cared for by fellows*  
1437 *who are appropriately supervised; possess the requisite knowledge,*  
1438 *skills, and abilities; understand the limits of their knowledge and*  
1439 *experience; and seek assistance as required to provide optimal*  
1440 *patient care.*

1441  
1442 *Fellows must demonstrate the ability to analyze the care they*  
1443 *provide, understand their roles within health care teams, and play an*  
1444 *active role in system improvement processes. Graduating fellows*  
1445 *will apply these skills to critique their future unsupervised practice*  
1446 *and effect quality improvement measures.*

1447  
1448 *It is necessary for fellows and faculty members to consistently work*  
1449 *in a well-coordinated manner with other health care professionals to*  
1450 *achieve organizational patient safety goals.*

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1452 **VI.A.1.a) Patient Safety**

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1454 **VI.A.1.a).(1) Culture of Safety**

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1456 *A culture of safety requires continuous identification*  
1457 *of vulnerabilities and a willingness to transparently*  
1458 *deal with them. An effective organization has formal*  
1459 *mechanisms to assess the knowledge, skills, and*  
1460 *attitudes of its personnel toward safety in order to*  
1461 *identify areas for improvement.*

1462

1463 **VI.A.1.a).(1).(a) The program, its faculty, residents, and fellows**  
1464 **must actively participate in patient safety**  
1465 **systems and contribute to a culture of safety.**  
1466 (Core)

1467

1468 **VI.A.1.a).(1).(b) The program must have a structure that**  
1469 **promotes safe, interprofessional, team-based**  
1470 **care.** (Core)

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1472 **VI.A.1.a).(2) Education on Patient Safety**

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1474 **Programs must provide formal educational activities**  
1475 **that promote patient safety-related goals, tools, and**  
1476 **techniques.** (Core)

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<b>Background and Intent: Optimal patient safety occurs in the setting of a coordinated interprofessional learning and working environment.</b>
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1479 **VI.A.1.a).(3) Patient Safety Events**

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1481 *Reporting, investigation, and follow-up of adverse*  
1482 *events, near misses, and unsafe conditions are pivotal*  
1483 *mechanisms for improving patient safety, and are*

1484 *essential for the success of any patient safety*  
1485 *program. Feedback and experiential learning are*  
1486 *essential to developing true competence in the ability*  
1487 *to identify causes and institute sustainable systems-*  
1488 *based changes to ameliorate patient safety*  
1489 *vulnerabilities.*

1491 **VI.A.1.a).(3).(a)** Residents, fellows, faculty members, and other  
1492 clinical staff members must:

1493  
1494 **VI.A.1.a).(3).(a).(i)** know their responsibilities in reporting  
1495 patient safety events at the clinical site;  
1496 (Core)

1497  
1498 **VI.A.1.a).(3).(a).(ii)** know how to report patient safety  
1499 events, including near misses, at the  
1500 clinical site; and, (Core)

1501  
1502 **VI.A.1.a).(3).(a).(iii)** be provided with summary information  
1503 of their institution's patient safety  
1504 reports. (Core)

1505  
1506 **VI.A.1.a).(3).(b)** Fellows must participate as team members in  
1507 real and/or simulated interprofessional clinical  
1508 patient safety activities, such as root cause  
1509 analyses or other activities that include  
1510 analysis, as well as formulation and  
1511 implementation of actions. (Core)

1512  
1513 **VI.A.1.a).(4)** Fellow Education and Experience in Disclosure of  
1514 Adverse Events

1515  
1516 *Patient-centered care requires patients, and when*  
1517 *appropriate families, to be apprised of clinical*  
1518 *situations that affect them, including adverse events.*  
1519 *This is an important skill for faculty physicians to*  
1520 *model, and for fellows to develop and apply.*

1521  
1522 **VI.A.1.a).(4).(a)** All fellows must receive training in how to  
1523 disclose adverse events to patients and  
1524 families. (Core)

1525  
1526 **VI.A.1.a).(4).(b)** Fellows should have the opportunity to  
1527 participate in the disclosure of patient safety  
1528 events, real or simulated. (Detail)†

1529  
1530 **VI.A.1.b)** Quality Improvement

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1532 **VI.A.1.b).(1)** Education in Quality Improvement

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1534		<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>
1535		
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1539	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>
1540		
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1543	VI.A.1.b).(2)	Quality Metrics
1544		
1545		<i>Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts.</i>
1546		
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1548		
1549	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>
1550		
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1553	VI.A.1.b).(3)	Engagement in Quality Improvement Activities
1554		
1555		<i>Experiential learning is essential to developing the ability to identify and institute sustainable systems-based changes to improve patient care.</i>
1556		
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1558		
1559	VI.A.1.b).(3).(a)	Fellows must have the opportunity to participate in interprofessional quality improvement activities. <sup>(Core)</sup>
1560		
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1562		
1563	VI.A.1.b).(3).(a).(i)	This should include activities aimed at reducing health care disparities. <sup>(Detail)</sup>
1564		
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1566	VI.A.2.	Supervision and Accountability
1567		
1568	VI.A.2.a)	<i>Although the attending physician is ultimately responsible for the care of the patient, every physician shares in the responsibility and accountability for their efforts in the provision of care. Effective programs, in partnership with their Sponsoring Institutions, define, widely communicate, and monitor a structured chain of responsibility and accountability as it relates to the supervision of all patient care.</i>
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1577		<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>
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1583	VI.A.2.a).(1)	Each patient must have an identifiable and appropriately-credentialed and privileged attending
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1585 physician (or licensed independent practitioner as  
1586 specified by the applicable Review Committee) who is  
1587 responsible and accountable for the patient's care.  
1588 (Core)

1589  
1590 VI.A.2.a).(1).(a) This information must be available to fellows,  
1591 faculty members, other members of the health  
1592 care team, and patients. (Core)

1593  
1594 VI.A.2.a).(1).(b) Fellows and faculty members must inform each  
1595 patient of their respective roles in that patient's  
1596 care when providing direct patient care. (Core)

1597  
1598 VI.A.2.b) *Supervision may be exercised through a variety of methods.  
1599 For many aspects of patient care, the supervising physician  
1600 may be a more advanced fellow. Other portions of care  
1601 provided by the fellow can be adequately supervised by the  
1602 appropriate availability of the supervising faculty member or  
1603 fellow, either on site or by means of telecommunication  
1604 technology. Some activities require the physical presence of  
1605 the supervising faculty member. In some circumstances,  
1606 supervision may include post-hoc review of fellow-delivered  
1607 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.**

1609  
1610 VI.A.2.b).(1) The program must demonstrate that the appropriate  
1611 level of supervision in place for all fellows is based on  
1612 each fellow's level of training and ability, as well as  
1613 patient complexity and acuity. Supervision may be  
1614 exercised through a variety of methods, as appropriate  
1615 to the situation. (Core)

1616  
1617 VI.A.2.b).(2) The program must define when physical presence of a  
1618 supervising physician is required. (Core)

1619  
1620 VI.A.2.c) Levels of Supervision

1621  
1622 To promote appropriate fellow supervision while providing  
1623 for graded authority and responsibility, the program must use  
1624 the following classification of supervision: (Core)

1625  
1626 VI.A.2.c).(1) Direct Supervision:

1627		
1628	<b>VI.A.2.c).(1).(a)</b>	<b>the supervising physician is physically present with the fellow during the key portions of the patient interaction; or, <sup>(Core)</sup></b>
1629		
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1632	<b>VI.A.2.c).(1).(b)</b>	<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></b>
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1638	<b>VI.A.2.c).(1).(b).(i)</b>	<b>The use of telecommunication technology for direct supervision must not be used with invasive procedures, including the conduct of anesthesia. <sup>(Core)</sup></b>
1639		
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1643	<b>VI.A.2.c).(1).(b).(i).(a)</b>	<b>The supervising physician and the resident must interact with each other, and the patient, to solicit the key elements of the clinic visit and agree upon a management plan. <sup>(Core)</sup></b>
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1650	<b>VI.A.2.c).(1).(b).(i).(b)</b>	<b>The use of telecommunication technology for direct supervision must be limited to history-taking and patient examination, assessment, and counseling. <sup>(Core)</sup></b>
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1656	<b>VI.A.2.c).(2)</b>	<b>Indirect Supervision: the supervising physician is not providing physical or concurrent visual or audio supervision but is immediately available to the fellow for guidance and is available to provide appropriate direct supervision. <sup>(Core)</sup></b>
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1662	<b>VI.A.2.c).(3)</b>	<b>Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. <sup>(Core)</sup></b>
1663		
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1665		
1666	<b>VI.A.2.d)</b>	<b>The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each fellow must be assigned by the program director and faculty members. <sup>(Core)</sup></b>
1667		
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1671	<b>VI.A.2.d).(1)</b>	<b>The program director must evaluate each fellow’s abilities based on specific criteria, guided by the Milestones. <sup>(Core)</sup></b>
1672		
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1674		
1675	<b>VI.A.2.d).(2)</b>	<b>Faculty members functioning as supervising physicians must delegate portions of care to fellows</b>
1676		

1677 based on the needs of the patient and the skills of  
1678 each fellow. <sup>(Core)</sup>

1679  
1680 **VI.A.2.d).(3)** Fellows should serve in a supervisory role to junior  
1681 fellows and residents in recognition of their progress  
1682 toward independence, based on the needs of each  
1683 patient and the skills of the individual resident or  
1684 fellow. <sup>(Detail)</sup>

1685  
1686 **VI.A.2.e)** Programs must set guidelines for circumstances and events  
1687 in which fellows must communicate with the supervising  
1688 faculty member(s). <sup>(Core)</sup>

1689  
1690 **VI.A.2.e).(1)** Each fellow must know the limits of their scope of  
1691 authority, and the circumstances under which the  
1692 fellow is permitted to act with conditional  
1693 independence. <sup>(Outcome)</sup>

1694

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

1695  
1696 **VI.A.2.f)** Faculty supervision assignments must be of sufficient  
1697 duration to assess the knowledge and skills of each fellow  
1698 and to delegate to the fellow the appropriate level of patient  
1699 care authority and responsibility. <sup>(Core)</sup>

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1701 **VI.B. Professionalism**

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1703 **VI.B.1.** Programs, in partnership with their Sponsoring Institutions, must  
1704 educate fellows and faculty members concerning the professional  
1705 responsibilities of physicians, including their obligation to be  
1706 appropriately rested and fit to provide the care required by their  
1707 patients. <sup>(Core)</sup>

1708  
1709 **VI.B.2.** The learning objectives of the program must:

1710  
1711 **VI.B.2.a)** be accomplished through an appropriate blend of supervised  
1712 patient care responsibilities, clinical teaching, and didactic  
1713 educational events; <sup>(Core)</sup>

1714  
1715 **VI.B.2.b)** be accomplished without excessive reliance on fellows to  
1716 fulfill non-physician obligations; and, <sup>(Core)</sup>

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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)

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

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

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

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

**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.

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

**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.

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

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

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

1748 VI.B.4.e) monitoring of their patient care performance improvement  
1749 indicators; and, (Outcome)

1750  
1751 VI.B.4.f) accurate reporting of clinical and educational work hours,  
1752 patient outcomes, and clinical experience data. (Outcome)

1753  
1754 VI.B.5. All fellows and faculty members must demonstrate responsiveness  
1755 to patient needs that supersedes self-interest. This includes the  
1756 recognition that under certain circumstances, the best interests of  
1757 the patient may be served by transitioning that patient's care to  
1758 another qualified and rested provider. (Outcome)

1759  
1760 VI.B.6. Programs, in partnership with their Sponsoring Institutions, must  
1761 provide a professional, equitable, respectful, and civil environment  
1762 that is free from discrimination, sexual and other forms of  
1763 harassment, mistreatment, abuse, or coercion of students, fellows,  
1764 faculty, and staff. (Core)

1765  
1766 VI.B.7. Programs, in partnership with their Sponsoring Institutions, should  
1767 have a process for education of fellows and faculty regarding  
1768 unprofessional behavior and a confidential process for reporting,  
1769 investigating, and addressing such concerns. (Core)

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1771 VI.C. Well-Being

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1773 *Psychological, emotional, and physical well-being are critical in the*  
1774 *development of the competent, caring, and resilient physician and require*  
1775 *proactive attention to life inside and outside of medicine. Well-being*  
1776 *requires that physicians retain the joy in medicine while managing their*  
1777 *own real-life stresses. Self-care and responsibility to support other*  
1778 *members of the health care team are important components of*  
1779 *professionalism; they are also skills that must be modeled, learned, and*  
1780 *nurtured in the context of other aspects of fellowship training.*

1781  
1782 *Fellows and faculty members are at risk for burnout and depression.*  
1783 *Programs, in partnership with their Sponsoring Institutions, have the same*  
1784 *responsibility to address well-being as other aspects of resident*  
1785 *competence. Physicians and all members of the health care team share*  
1786 *responsibility for the well-being of each other. For example, a culture which*  
1787 *encourages covering for colleagues after an illness without the expectation*  
1788 *of reciprocity reflects the ideal of professionalism. A positive culture in a*  
1789 *clinical learning environment models constructive behaviors, and prepares*  
1790 *fellows with the skills and attitudes needed to thrive throughout their*  
1791 *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.

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

**VI.C.1.a) efforts to enhance the meaning that each fellow finds in the experience of being a physician, including protecting time with patients, minimizing non-physician obligations, providing administrative support, promoting progressive autonomy and flexibility, and enhancing professional relationships; (Core)**

**VI.C.1.b) attention to scheduling, work intensity, and work compression that impacts fellow well-being; (Core)**

**VI.C.1.c) evaluating workplace safety data and addressing the safety of fellows and faculty members; (Core)**

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

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

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

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

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

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1821 VI.C.1.e) attention to fellow and faculty member burnout, depression,  
1822 and substance use disorder. The program, in partnership with  
1823 its Sponsoring Institution, must educate faculty members and  
1824 fellows in identification of the symptoms of burnout,  
1825 depression, and substance use disorder, including means to  
1826 assist those who experience these conditions. Fellows and  
1827 faculty members must also be educated to recognize those  
1828 symptoms in themselves and how to seek appropriate care.  
1829 The program, in partnership with its Sponsoring Institution,  
1830 must: <sup>(Core)</sup>  
1831

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

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1833 VI.C.1.e).(1) encourage fellows and faculty members to alert the  
1834 program director or other designated personnel or  
1835 programs when they are concerned that another  
1836 fellow, resident, or faculty member may be displaying  
1837 signs of burnout, depression, a substance disorder,  
1838 suicidal ideation, or potential for violence; <sup>(Core)</sup>  
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**Background and Intent: Individuals experiencing burnout, depression, substance use disorder, and/or suicidal ideation are often reluctant to reach out for help due to the stigma associated with these conditions, and are concerned that seeking help may have a negative impact on their career. Recognizing that physicians are at increased risk in these areas, it is essential that 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.**

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1841 VI.C.1.e).(2) provide access to appropriate tools for self-screening;  
1842 and, <sup>(Core)</sup>  
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1844 VI.C.1.e).(3) provide access to confidential, affordable mental  
1845 health assessment, counseling, and treatment,  
1846 including access to urgent and emergent care 24  
1847 hours a day, seven days a week. <sup>(Core)</sup>  
1848

**Background and Intent: The intent of this requirement is to ensure that fellows have immediate access at all times to a mental health professional (psychiatrist, psychologist, Licensed Clinical Social Worker, Primary Mental Health Nurse**

Practitioner, or Licensed Professional Counselor) for urgent or emergent mental health issues. In-person, telemedicine, or telephonic means may be utilized to satisfy this requirement. Care in the Emergency Department may be necessary in some cases, but not as the primary or sole means to meet the requirement.

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

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- VI.C.2.** There are circumstances in which fellows may be unable to attend work, including but not limited to fatigue, illness, family emergencies, and parental leave. Each program must allow an appropriate length of absence for fellows unable to perform their patient care responsibilities. <sup>(Core)</sup>
- VI.C.2.a)** The program must have policies and procedures in place to ensure coverage of patient care. <sup>(Core)</sup>
- VI.C.2.b)** These policies must be implemented without fear of negative consequences for the fellow who is or was unable to provide the clinical work. <sup>(Core)</sup>

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

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- VI.D. Fatigue Mitigation**
- VI.D.1. Programs must:**
- VI.D.1.a)** educate all faculty members and fellows to recognize the signs of fatigue and sleep deprivation; <sup>(Core)</sup>
- VI.D.1.b)** educate all faculty members and fellows in alertness management and fatigue mitigation processes; and, <sup>(Core)</sup>
- VI.D.1.c)** encourage fellows to use fatigue mitigation processes to manage the potential negative effects of fatigue on patient care and learning. <sup>(Detail)</sup>

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

This requirement emphasizes the importance of adequate rest before and after clinical responsibilities. Strategies that may be used include, but are not limited to, strategic napping; the judicious use of caffeine; availability of other caregivers; time management to maximize sleep off-duty; learning to recognize the signs of fatigue, and self-

**monitoring performance and/or asking others to monitor performance; remaining active to promote alertness; maintaining a healthy diet; using relaxation techniques to fall asleep; maintaining a consistent sleep routine; exercising regularly; increasing sleep time before and after call; and ensuring sufficient sleep recovery periods.**

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

**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.**

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- VI.E.2. Teamwork**
- Fellows must care for patients in an environment that maximizes communication. This must include the opportunity to work as a member of effective interprofessional teams that are appropriate to the delivery of care in the subspecialty and larger health system. <sup>(Core)</sup>
- VI.E.2.a)** Interprofessional teams should include non-physician health care professionals, such as medical assistants, specialized nurses, and technicians. <sup>(Detail)</sup>
- VI.E.3. Transitions of Care**
- VI.E.3.a)** Programs must design clinical assignments to optimize transitions in patient care, including their safety, frequency, and structure. <sup>(Core)</sup>

- 1915 VI.E.3.b) Programs, in partnership with their Sponsoring Institutions, must ensure and monitor effective, structured hand-over processes to facilitate both continuity of care and patient safety. <sup>(Core)</sup>
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- 1920 VI.E.3.c) Programs must ensure that fellows are competent in communicating with team members in the hand-over process. <sup>(Outcome)</sup>
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- 1924 VI.E.3.d) Programs and clinical sites must maintain and communicate schedules of attending physicians and fellows currently responsible for care. <sup>(Core)</sup>
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- 1928 VI.E.3.e) Each program must ensure continuity of patient care, consistent with the program’s policies and procedures referenced in VI.C.2-VI.C.2.b), in the event that a fellow may be unable to perform their patient care responsibilities due to excessive fatigue or illness, or family emergency. <sup>(Core)</sup>
- 1929
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- 1934 VI.F. Clinical Experience and Education
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- 1936 *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.*
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**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.

- 1941
- 1942 VI.F.1. Maximum Hours of Clinical and Educational Work per Week
- 1943
- 1944 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>
- 1945
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**Background and Intent:** Programs and fellows have a shared responsibility to ensure that the 80-hour maximum weekly limit is not exceeded. While the requirement has been written with the intent of allowing fellows to remain beyond their scheduled work periods to care for a patient or participate in an educational activity, these additional hours must be accounted for in the allocated 80 hours when averaged over four weeks.

**Scheduling**  
While the ACGME acknowledges that, on rare occasions, a fellow may work in excess of 80 hours in a given week, all programs and fellows utilizing this flexibility will be required to adhere to the 80-hour maximum weekly limit when averaged over a four-

week period. Programs that regularly schedule fellows to work 80 hours per week and still permit fellows to remain beyond their scheduled work period are likely to exceed the 80-hour maximum, which would not be in substantial compliance with the requirement. These programs should adjust schedules so that fellows are scheduled to work fewer than 80 hours per week, which would allow fellows to remain beyond their scheduled work period when needed without violating the 80-hour requirement. Programs may wish to consider using night float and/or making adjustments to the frequency of in-house call to ensure compliance with the 80-hour maximum weekly limit.

### ***Oversight***

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

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

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

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

are structured to ensure that fellows are not working in excess of 80 hours per week, averaged over four weeks.

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

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

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

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

**Background and Intent:** While it is expected that 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. <sup>(Core)</sup>

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

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

**Background and Intent:** The requirement provides flexibility for programs to distribute days off in a manner that meets program and fellow needs. It is strongly recommended that fellows' preference regarding how their days off are distributed be considered as schedules are developed. It is desirable that days off be distributed throughout the month, but some fellows may prefer to group their days off to have a "golden weekend," meaning a consecutive Saturday and Sunday free from work. The requirement for one free day in seven should not be interpreted as precluding a golden weekend. Where feasible, schedules may be designed to provide fellows with a weekend, or two

consecutive days, free of work. The applicable Review Committee will evaluate the number of consecutive days of work and determine whether they meet educational objectives. Programs are encouraged to distribute days off in a fashion that optimizes fellow well-being, and educational and personal goals. It is noted that a day off is defined in the ACGME Glossary of Terms as “one (1) continuous 24-hour period free from all administrative, clinical, and educational activities.”

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- VI.F.3. Maximum Clinical Work and Education Period Length**
- VI.F.3.a) Clinical and educational work periods for fellows must not exceed 24 hours of continuous scheduled clinical assignments.** <sup>(Core)</sup>
- VI.F.3.a).(1) Up to four hours of additional time may be used for activities related to patient safety, such as providing effective transitions of care, and/or fellow education.** <sup>(Core)</sup>
- VI.F.3.a).(1).(a) Additional patient care responsibilities must not be assigned to a fellow during this time.** <sup>(Core)</sup>

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

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

**Background and Intent: This requirement is intended to provide fellows with some control over their schedules by providing the flexibility to voluntarily remain beyond the scheduled responsibilities under the circumstances described above. It is important to note that a fellow may remain to attend a conference, or return for a conference later in**

the day, only if the decision is made voluntarily. Fellows must not be required to stay. Programs allowing fellows to remain or return beyond the scheduled work and clinical education period must ensure that the decision to remain is initiated by the fellow and that fellows are not coerced. This additional time must be counted toward the 80-hour maximum weekly limit.

2011  
2012 **VI.F.4.c)** **A Review Committee may grant rotation-specific exceptions**  
2013 **for up to 10 percent or a maximum of 88 clinical and**  
2014 **educational work hours to individual programs based on a**  
2015 **sound educational rationale.**  
2016  
2017 The Review Committee for Anesthesiology will not consider  
2018 requests for exceptions to the 80-hour limit to the residents' work  
2019 week.

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2021 **VI.F.5. Moonlighting**

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2023 **VI.F.5.a)** **Moonlighting must not interfere with the ability of the fellow**  
2024 **to achieve the goals and objectives of the educational**  
2025 **program, and must not interfere with the fellow's fitness for**  
2026 **work nor compromise patient safety. (Core)**

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2028 **VI.F.5.b)** **Time spent by fellows in internal and external moonlighting**  
2029 **(as defined in the ACGME Glossary of Terms) must be**  
2030 **counted toward the 80-hour maximum weekly limit. (Core)**  
2031

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

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2033 **VI.F.6. In-House Night Float**  
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2035 **Night float must occur within the context of the 80-hour and one-**  
2036 **day-off-in-seven requirements. (Core)**  
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**Background and Intent: The requirement for no more than six consecutive nights of night float was removed to provide programs with increased flexibility in scheduling.**

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2039 **VI.F.7. Maximum In-House On-Call Frequency**  
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2041 **Fellows must be scheduled for in-house call no more frequently than**  
2042 **every third night (when averaged over a four-week period). (Core)**  
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2044 **VI.F.8. At-Home Call**

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2046 **VI.F.8.a)** **Time spent on patient care activities by fellows on at-home**  
2047 **call must count toward the 80-hour maximum weekly limit.**  
2048 **The frequency of at-home call is not subject to the every-**  
2049 **third-night limitation, but must satisfy the requirement for one**

- 2050 day in seven free of clinical work and education, when  
 2051 averaged over four weeks. <sup>(Core)</sup>  
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 2053 VI.F.8.a).(1) At-home call must not be so frequent or taxing as to  
 2054 preclude rest or reasonable personal time for each  
 2055 fellow. <sup>(Core)</sup>  
 2056  
 2057 VI.F.8.b) Fellows are permitted to return to the hospital while on at-  
 2058 home call to provide direct care for new or established  
 2059 patients. These hours of inpatient patient care must be  
 2060 included in the 80-hour maximum weekly limit. <sup>(Detail)</sup>  
 2061

**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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 2064 \***Core Requirements:** Statements that define structure, resource, or process elements  
 2065 essential to every graduate medical educational program.  
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 2067 †**Detail Requirements:** Statements that describe a specific structure, resource, or process, for  
 2068 achieving compliance with a Core Requirement. Programs and sponsoring institutions in  
 2069 substantial compliance with the Outcome Requirements may utilize alternative or innovative  
 2070 approaches to meet Core Requirements.  
 2071  
 2072 ‡**Outcome Requirements:** Statements that specify expected measurable or observable  
 2073 attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their  
 2074 graduate medical education.  
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 2076 **Osteopathic Recognition**  
 2077 For programs with or applying for Osteopathic Recognition, the Osteopathic Recognition  
 2078 Requirements also apply ([www.acgme.org/OsteopathicRecognition](http://www.acgme.org/OsteopathicRecognition)).