

**ACGME Program Requirements for  
Graduate Medical Education  
in Adult Cardiothoracic Anesthesiology  
(Subspecialty of Anesthesiology)**

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Currently in Effect Program Requirements incorporated into the 2019 Common Program  
Requirements

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1                   **ACGME Program Requirements for Graduate Medical Education**  
2                                   **in Adult Cardiothoracic 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, 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 Adult cardiothoracic anesthesiology is devoted to the pre-operative, intra-  
50 operative, and post-operative care of adult patients undergoing cardiothoracic  
51 surgery and related invasive procedures.

52  
53 The majority of the clinical education involves caring for patients in the operating  
54 room, other anesthetizing locations, and intensive care units, and includes  
55 experience providing anesthesia for cardiac, non-cardiac thoracic, and  
56 intrathoracic vascular surgical procedures, as well as for non-operative  
57 diagnostic and interventional cardiac and thoracic procedures.

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

60  
61 The educational program in adult cardiothoracic anesthesiology must be 12  
62 months in length. <sup>(Core)\*</sup>

63  
64 **I. Oversight**

65  
66 **I.A. Sponsoring Institution**

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

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

75  

**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.**

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

79  
80 **I.B. Participating Sites**

81  
82 *A participating site is an organization providing educational experiences or*  
83 *educational assignments/rotations for fellows.*

84  
85 **I.B.1. The program, with approval of its Sponsoring Institution, must**  
86 **designate a primary clinical site.** <sup>(Core)</sup>

- 88 I.B.1.a) The sponsoring institution must sponsor an Accreditation Council  
 89 for Graduate Medical Education (ACGME)-accredited  
 90 anesthesiology residency. <sup>(Core)</sup> [Moved from I.A.1]  
 91
- 92 I.B.1.b) There must be interaction between the core anesthesiology  
 93 residency and the fellowship which results in coordination of  
 94 educational, clinical, and scholarly activities. <sup>(Core)</sup> [Moved from  
 95 I.A.2]  
 96
- 97 I.B.1.b).(1) The fellowship must not compromise the clinical  
 98 experience and the number of cases available to the  
 99 residents in the core anesthesiology residency. <sup>(Core)</sup>  
 100 [Moved from I.A.2.a)]  
 101
- 102 **I.B.2. There must be a program letter of agreement (PLA) between the**  
 103 **program and each participating site that governs the relationship**  
 104 **between the program and the participating site providing a required**  
 105 **assignment. <sup>(Core)</sup>**
- 106
- 107 **I.B.2.a) The PLA must:**
- 108
- 109 **I.B.2.a).(1) be renewed at least every 10 years; and, <sup>(Core)</sup>**
- 110
- 111 **I.B.2.a).(2) be approved by the designated institutional official**  
 112 **(DIO). <sup>(Core)</sup>**
- 113
- 114 **I.B.3. The program must monitor the clinical learning and working**  
 115 **environment at all participating sites. <sup>(Core)</sup>**
- 116
- 117 **I.B.3.a) At each participating site there must be one faculty member,**  
 118 **designated by the program director, who is accountable for**  
 119 **fellow education for that site, in collaboration with the**  
 120 **program director. <sup>(Core)</sup>**  
 121

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

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

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

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

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

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

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

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**I.D. Resources**

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

I.D.1.a) The program must have access to the following resources:  
[Moved from II.D.2]

I.D.1.a).(1) intensive care units for both surgical and non-surgical cardiothoracic patients; <sup>(Core)</sup> [Moved from II.D.2.a)]

I.D.1.b) an emergency department in which cardiothoracic patients are managed 24 hours a day; <sup>(Core)</sup> [Moved from II.D.2.b)]

I.D.1.c) operating rooms equipped for the management of cardiothoracic patients; <sup>(Core)</sup> [Moved from II.D.2.c)]

I.D.1.d) a post-anesthesia care area, equipped for the management of cardiothoracic patients, located near the operating room suite; <sup>(Core)</sup> [Moved from II.D.2.d)]

I.D.1.e) monitoring and advanced life support equipment representative of current levels of technology; <sup>(Core)</sup> [Moved from II.D.2.e)]

I.D.1.f) laboratories, available at all times, that provide prompt results, including blood chemistries, blood gas and acid base analysis oxygen saturation, hematocrit/hemoglobin, and coagulation

- 163 function; <sup>(Core)</sup> [Moved from II.D.2.f)]
- 164
- 165 I.D.1.g) facilities, available at all times, to provide prompt, non-invasive
- 166 and invasive diagnostic and therapeutic cardiothoracic
- 167 procedures, including echocardiography, cardiac stress testing,
- 168 cardiac catheterization, electrophysiological testing and
- 169 therapeutic intervention, cardiopulmonary scanning procedures,
- 170 and pulmonary function testing; <sup>(Core)</sup> [Moved from II.D.2.g)]
- 171
- 172 I.D.1.h) facilities and equipment for research in cardiothoracic
- 173 anesthesiology; and, <sup>(Core)</sup> [Moved from II.D.2.h)]
- 174
- 175 I.D.1.i) prompt, reliable systems for communication and interaction with
- 176 supervisory physicians. <sup>(Core)</sup> [Moved from II.D.2.i)]
- 177

178 **I.D.2. The program, in partnership with its Sponsoring Institution, must**

179 **ensure healthy and safe learning and working environments that**

180 **promote fellow well-being and provide for:** <sup>(Core)</sup>

181

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

183

184 **I.D.2.b) safe, quiet, clean, and private sleep/rest facilities available**

185 **and accessible for fellows with proximity appropriate for safe**

186 **patient care;** <sup>(Core)</sup>

187

**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.**

188

189 **I.D.2.c) clean and private facilities for lactation that have refrigeration**

190 **capabilities, with proximity appropriate for safe patient care;**

191 <sup>(Core)</sup>

**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).**

193

194 **I.D.2.d) security and safety measures appropriate to the participating**

195 **site; and,** <sup>(Core)</sup>

196

- 197 I.D.2.e) accommodations for fellows with disabilities consistent with  
198 the Sponsoring Institution's policy. <sup>(Core)</sup>  
199  
200 I.D.3. Fellows must have ready access to subspecialty-specific and other  
201 appropriate reference material in print or electronic format. This  
202 must include access to electronic medical literature databases with  
203 full text capabilities. <sup>(Core)</sup>  
204  
205 I.D.4. The program's educational and clinical resources must be adequate  
206 to support the number of fellows appointed to the program. <sup>(Core)</sup>  
207  
208 I.D.4.a) The number and diversity of patients available to the program  
209 must support the required inpatient and outpatient experience for  
210 each fellow. <sup>(Core)</sup> [Moved from II.D.1]  
211  
212 I.E. *A fellowship program usually occurs in the context of many learners and  
213 other care providers and limited clinical resources. It should be structured  
214 to optimize education for all learners present.*  
215  
216 I.E.1. Fellows should contribute to the education of residents in core  
217 programs, if present. <sup>(Core)</sup>  
218  
219 I.E.2. The presence of other learners or staff members in the program must not  
220 interfere with the appointed fellows' education. <sup>(Core)</sup> [Moved from III.B.2]  
221

**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.**

- 222  
223 II. Personnel  
224  
225 II.A. Program Director  
226  
227 II.A.1. There must be one faculty member appointed as program director  
228 with authority and accountability for the overall program, including  
229 compliance with all applicable program requirements. <sup>(Core)</sup>  
230  
231 II.A.1.a) The Sponsoring Institution's Graduate Medical Education  
232 Committee (GMEC) must approve a change in program  
233 director. <sup>(Core)</sup>  
234  
235 II.A.1.b) Final approval of the program director resides with the  
236 Review Committee. <sup>(Core)</sup>  
237

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



dedicated time for the leadership of the fellowship, and it is this individual's responsibility to communicate with the fellows, faculty members, DIO, GMEC, and the ACGME. The program director's nomination is reviewed and approved by the GMEC. Final approval of program directors resides with the Review Committee.

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- 249 **II.A.2.**                    **The program director must be provided with support adequate for**  
250                                    **administration of the program based upon its size and configuration.**  
251                                    (Core)
- 252  
253                                    **[The Review Committee must further specify]**
- 254                                    [The Review Committee's specification will be included in an upcoming  
255                                    focused revision to the Adult Cardiothoracic Anesthesiology Program  
256                                    Requirements]
- 257  
258
- 259 **II.A.3.**                    **Qualifications of the program director:**
- 260
- 261 **II.A.3.a)**                    **must include subspecialty expertise and qualifications**  
262                                    **acceptable to the Review Committee; and,** (Core)
- 263
- 264 **II.A.3.b)**                    **must include current certification in the subspecialty for**  
265                                    **which they are the program director by the American Board**  
266                                    **of Anesthesiology ~~or by the American Osteopathic Board of~~**  
267                                    **\_\_\_\_\_, or subspecialty qualifications that are acceptable to**  
268                                    **the Review Committee.** (Core)
- 269                                    [Note that while the Common Program Requirements deem  
270                                    certification by a certifying board of the American Osteopathic  
271                                    Association (AOA) acceptable, there is no AOA board that offers  
272                                    certification in this subspecialty]
- 273
- 274 **II.A.3.c)**                    must hold current certification in anesthesiology by the American  
275                                    Board of Anesthesiology; (Core) [Moved from II.A.2.d)]
- 276
- 277 **II.A.3.d)**                    must have current appointment as a member of the  
278                                    anesthesiology faculty; (Core) [Moved from II.A.2.e)]
- 279
- 280 **II.A.3.e)**                    must demonstrate completion of a cardiothoracic anesthesiology  
281                                    fellowship, or at least three years of participation as a program  
282                                    director or faculty member in a clinical cardiothoracic  
283                                    anesthesiology fellowship, and certification in advanced peri-  
   operative transesophageal echocardiography (TEE) by the  
   National Board of Echocardiography (NBE); (Core) [Moved from  
   II.A.2.f)]
- 284
- 285 **II.A.3.f)**                    must have at least three years of post-fellowship experience in  
286                                    clinical cardiothoracic anesthesiology; and, (Core) [Moved from  
287                                    II.A.2.g)]
- 288
- 289 **II.A.3.g)**                    must demonstrated ongoing academic achievements appropriate

284 to the subspecialty, including publications, the development of  
285 educational programs, or the conduct of research. <sup>(Core)</sup> [Moved  
286 from II.A.2.h)]  
287

288 **II.A.4. Program Director Responsibilities**  
289

290 **The program director must have responsibility, authority, and**  
291 **accountability for: administration and operations; teaching and**  
292 **scholarly activity; fellow recruitment and selection, evaluation, and**  
293 **promotion of fellows, and disciplinary action; supervision of fellows;**  
294 **and fellow education in the context of patient care.** <sup>(Core)</sup>  
295

296 **II.A.4.a) The program director must:**  
297

298 **II.A.4.a).(1) be a role model of professionalism;** <sup>(Core)</sup>  
299

**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.**

300  
301 **II.A.4.a).(2) design and conduct the program in a fashion**  
302 **consistent with the needs of the community, the**  
303 **mission(s) of the Sponsoring Institution, and the**  
304 **mission(s) of the program;** <sup>(Core)</sup>  
305

**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.**

306  
307 **II.A.4.a).(3) administer and maintain a learning environment**  
308 **conducive to educating the fellows in each of the**  
309 **ACGME Competency domains;** <sup>(Core)</sup>  
310

**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.**

311  
312 **II.A.4.a).(4) develop and oversee a process to evaluate candidates**  
313 **prior to approval as program faculty members for**

- 314 participation in the fellowship program education and  
 315 at least annually thereafter, as outlined in V.B.; <sup>(Core)</sup>  
 316  
 317 **II.A.4.a).(5)** have the authority to approve program faculty  
 318 members for participation in the fellowship program  
 319 education at all sites; <sup>(Core)</sup>  
 320  
 321 **II.A.4.a).(6)** have the authority to remove program faculty  
 322 members from participation in the fellowship program  
 323 education at all sites; <sup>(Core)</sup>  
 324  
 325 **II.A.4.a).(7)** have the authority to remove fellows from supervising  
 326 interactions and/or learning environments that do not  
 327 meet the standards of the program; <sup>(Core)</sup>  
 328

**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.**

- 329  
 330 **II.A.4.a).(8)** submit accurate and complete information required  
 331 and requested by the DIO, GMEC, and ACGME; <sup>(Core)</sup>  
 332  
 333 **II.A.4.a).(9)** provide applicants who are offered an interview with  
 334 information related to the applicant’s eligibility for the  
 335 relevant subspecialty board examination(s); <sup>(Core)</sup>  
 336  
 337 **II.A.4.a).(10)** provide a learning and working environment in which  
 338 fellows have the opportunity to raise concerns and  
 339 provide feedback in a confidential manner as  
 340 appropriate, without fear of intimidation or retaliation;  
 341 <sup>(Core)</sup>  
 342  
 343 **II.A.4.a).(11)** ensure the program’s compliance with the Sponsoring  
 344 Institution’s policies and procedures related to  
 345 grievances and due process; <sup>(Core)</sup>  
 346  
 347 **II.A.4.a).(12)** ensure the program’s compliance with the Sponsoring  
 348 Institution’s policies and procedures for due process  
 349 when action is taken to suspend or dismiss, not to  
 350 promote, or not to renew the appointment of a fellow;  
 351 <sup>(Core)</sup>  
 352

**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.**

- 353  
 354 **II.A.4.a).(13)** ensure the program’s compliance with the Sponsoring  
 355 Institution’s policies and procedures on employment  
 356 and non-discrimination; <sup>(Core)</sup>  
 357  
 358 **II.A.4.a).(13).(a)** Fellows must not be required to sign a non-  
 359 competition guarantee or restrictive covenant.  
 360 <sup>(Core)</sup>  
 361  
 362 **II.A.4.a).(14)** document verification of program completion for all  
 363 graduating fellows within 30 days; <sup>(Core)</sup>  
 364  
 365 **II.A.4.a).(15)** provide verification of an individual fellow’s  
 366 completion upon the fellow’s request, within 30 days;  
 367 and, <sup>(Core)</sup>  
 368

**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.**

- 369  
 370 **II.A.4.a).(16)** obtain review and approval of the Sponsoring  
 371 Institution’s DIO before submitting information or  
 372 requests to the ACGME, as required in the Institutional  
 373 Requirements and outlined in the ACGME Program  
 374 Director’s Guide to the Common Program  
 375 Requirements. <sup>(Core)</sup>  
 376  
 377 **II.A.4.a).(17)** ~~devote at least 50 percent of his or her clinical,~~  
 378 ~~educational, administrative, and academic time to~~  
 379 ~~cardiothoracic anesthesiology; and, <sup>(Detail)</sup> [Moved from~~  
 380 ~~II.A.3.e)]~~  
 381

**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.***

396

397 *Faculty members ensure that patients receive the level of care expected*  
398 *from a specialist in the field. They recognize and respond to the needs of*  
399 *the patients, fellows, community, and institution. Faculty members provide*  
400 *appropriate levels of supervision to promote patient safety. Faculty*  
401 *members create an effective learning environment by acting in a*  
402 *professional manner and attending to the well-being of the fellows and*  
403 *themselves.*  
404

**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.**

- 405  
406 **II.B.1.** For each participating site, there must be a sufficient number of  
407 faculty members with competence to instruct and supervise all  
408 fellows at that location. <sup>(Core)</sup>  
409  
410 **II.B.1.a)** In addition to the program director, at least one faculty member  
411 must have certification in advanced peri-operative TEE by the  
412 NBE. <sup>(Core)</sup> [Moved from II.B.7]  
413  
414 **II.B.1.b)** The faculty must include individuals with expertise in other  
415 subspecialties of anesthesiology. <sup>(Core)</sup> [Moved from II.B.8]  
416  
417 **II.B.2.** Faculty members must:  
418  
419 **II.B.2.a)** be role models of professionalism; <sup>(Core)</sup>  
420  
421 **II.B.2.b)** demonstrate commitment to the delivery of safe, quality,  
422 cost-effective, patient-centered care; <sup>(Core)</sup>  
423
- 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.**
- 424  
425 **II.B.2.c)** demonstrate a strong interest in the education of fellows; <sup>(Core)</sup>  
426  
427 **II.B.2.d)** devote sufficient time to the educational program to fulfill  
428 their supervisory and teaching responsibilities; <sup>(Core)</sup>  
429  
430 **II.B.2.e)** administer and maintain an educational environment  
431 conducive to educating fellows; <sup>(Core)</sup>  
432  
433 **II.B.2.f)** regularly participate in organized clinical discussions,  
434 rounds, journal clubs, and conferences; and, <sup>(Core)</sup>  
435  
436 **II.B.2.g)** pursue faculty development designed to enhance their skills  
437 at least annually. <sup>(Core)</sup>  
438  
439 **II.B.2.h)** Faculty members must maintain an active role in scholarly

440 pursuits pertaining to cardiothoracic anesthesiology, as evidenced  
441 by involvement in education and scholarship that pertains to the  
442 care of adult cardiothoracic patients. <sup>(Core)</sup> [Moved from II.B.9]  
443

**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.**

444  
445 **II.B.3. Faculty Qualifications**  
446

447 **II.B.3.a) Faculty members must have appropriate qualifications in**  
448 **their field and hold appropriate institutional appointments.**  
449 <sup>(Core)</sup>

450  
451 **II.B.3.b) Subspecialty physician faculty members must:**

452  
453 **II.B.3.b).(1) have current certification in the subspecialty by the**  
454 **American Board of Anesthesiology ~~or the American~~**  
455 **Osteopathic Board of \_\_\_\_\_, or possess qualifications**  
456 **judged acceptable to the Review Committee. <sup>(Core)</sup>**

457  
458 [Note that while the Common Program Requirements  
459 deem certification by a certifying board of the American  
460 Osteopathic Association (AOA) acceptable, there is no  
461 AOA board that offers certification in this subspecialty]

462  
463 **II.B.3.b).(2) Full-time faculty members must devote all professional**  
464 **time to the program. <sup>(Core)</sup> [Moved from II.B.1.a)]**

465  
466 **II.B.3.b).(3) Faculty members must have education and experience in**  
467 **the care of adult cardiothoracic patients that meets or**  
468 **exceeds completion of a one-year adult cardiothoracic**  
469 **anesthesiology program. <sup>(Core)</sup> [Moved from II.B.6]**

470  
471 **II.B.3.c) Any non-physician faculty members who participate in**  
472 **fellowship program education must be approved by the**  
473 **program director. <sup>(Core)</sup>**  
474

**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.**

475  
476 **II.B.3.d)** Any other specialty physician faculty members must have  
477 current certification in their specialty by the appropriate  
478 American Board of Medical Specialties (ABMS) member  
479 board or American Osteopathic Association (AOA) certifying  
480 board, or possess qualifications judged acceptable to the  
481 Review Committee. <sup>(Core)</sup>

482  
483 **II.B.4. Core Faculty**

484  
485 Core faculty members must have a significant role in the education  
486 and supervision of fellows and must devote a significant portion of  
487 their entire effort to fellow education and/or administration, and  
488 must, as a component of their activities, teach, evaluate, and provide  
489 formative feedback to fellows. <sup>(Core)</sup>  
490

**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.**

491  
492 **II.B.4.a)** Core faculty members must be designated by the program  
493 director. <sup>(Core)</sup>  
494

495 **II.B.4.b)** Core faculty members must complete the annual ACGME  
496 Faculty Survey. <sup>(Core)</sup>  
497

498 **II.B.4.c)** There must be at least three core program faculty members, equal  
499 to or greater than two FTE, including the program director. <sup>(Core)</sup>  
500 [Moved from II.B.5]  
501

502 **II.B.4.c).(1)** For programs with two or more fellows, a ratio of at least  
503 one FTE faculty member to one fellow must be maintained.  
504 <sup>(Core)</sup> [Moved from II.B.5.a]  
505

506 **II.C. Program Coordinator**

507  
508 **II.C.1.** There must be a program coordinator. <sup>(Core)</sup>  
509

510 **II.C.2.** The program coordinator must be provided with support adequate  
511 for administration of the program based upon its size and  
512 configuration. <sup>(Core)</sup>  
513

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

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

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

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**II.D. Other Program Personnel**

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

II.D.1. Physicians with special training and/or experience in cardiovascular disease, clinical cardiac electrophysiology, cardiac and non-cardiac thoracic surgery, general vascular surgery, congenital heart disease, pulmonary diseases, and critical care medicine must be available. <sup>(Detail)†</sup>  
[Moved from II.C.1]

II.D.2. Allied health staff members and other support personnel who have experience and expertise in the care of cardiothoracic patients must be available. <sup>(Detail)</sup> [Moved from II.C.2]

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

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**III. Fellow Appointments**

**III.A. Eligibility Criteria**

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

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



**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).**

- 547  
548 **III.A.1.a)** Fellowship programs must receive verification of each  
549 entering fellow’s level of competence in the required field,  
550 upon matriculation, using ACGME, ACGME-I, or CanMEDS  
551 Milestones evaluations from the core residency program. <sup>(Core)</sup>  
552
- 553 **III.A.1.b)** Prior to appointment in the program, fellows must have  
554 successfully completed an ~~ACGME~~ or RCPSC-accredited  
555 residency in anesthesiology that satisfies the requirements in  
556 III.A.1. <sup>(Core)</sup> [Moved from III.A.]  
557
- 558 **III.A.1.c)** **Fellow Eligibility Exception**  
559  
560 **The Review Committee for Anesthesiology will allow the**  
561 **following exception to the fellowship eligibility requirements:**  
562
- 563 **III.A.1.c).(1)** **An ACGME-accredited fellowship program may accept**  
564 **an exceptionally qualified international graduate**  
565 **applicant who does not satisfy the eligibility**  
566 **requirements listed in III.A.1., but who does meet all of**  
567 **the following additional qualifications and conditions:**  
568 <sup>(Core)</sup>
- 569
- 570 **III.A.1.c).(1).(a)** **evaluation by the program director and**  
571 **fellowship selection committee of the**  
572 **applicant’s suitability to enter the program,**  
573 **based on prior training and review of the**  
574 **summative evaluations of training in the core**  
575 **specialty; and,** <sup>(Core)</sup>  
576
- 577 **III.A.1.c).(1).(b)** **review and approval of the applicant’s**  
578 **exceptional qualifications by the GMEC; and,**  
579 <sup>(Core)</sup>  
580
- 581 **III.A.1.c).(1).(c)** **verification of Educational Commission for**  
582 **Foreign Medical Graduates (ECFMG)**  
583 **certification.** <sup>(Core)</sup>  
584
- 585 **III.A.1.c).(2)** **Applicants accepted through this exception must have**  
586 **an evaluation of their performance by the Clinical**  
587 **Competency Committee within 12 weeks of**  
588 **matriculation.** <sup>(Core)</sup>  
589

**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.

590  
591 **III.B. The program director must not appoint more fellows than approved by the**  
592 **Review Committee. (Core)**  
593

594 **III.B.1. All complement increases must be approved by the Review**  
595 **Committee. (Core)**  
596

597 **III.C. Fellow Transfers**  
598

599 **The program must obtain verification of previous educational experiences**  
600 **and a summative competency-based performance evaluation prior to**  
601 **acceptance of a transferring fellow, and Milestones evaluations upon**  
602 **matriculation. (Core)**  
603

604 **IV. Educational Program**  
605

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

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

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

624 **IV.A. The curriculum must contain the following educational components: (Core)**  
625

626 **IV.A.1. a set of program aims consistent with the Sponsoring Institution's**  
627 **mission, the needs of the community it serves, and the desired**  
628 **distinctive capabilities of its graduates; (Core)**  
629

630 IV.A.1.a) The program's aims must be made available to program  
631 applicants, fellows, and faculty members. (Core)  
632

633 IV.A.2. competency-based goals and objectives for each educational  
634 experience designed to promote progress on a trajectory to  
635 autonomous practice in their subspecialty. These must be  
636 distributed, reviewed, and available to fellows and faculty members;  
637 (Core)  
638

639 IV.A.3. delineation of fellow responsibilities for patient care, progressive  
640 responsibility for patient management, and graded supervision in  
641 their subspecialty; (Core)  
642

**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.

643 IV.A.4. structured educational activities beyond direct patient care; and,  
644 (Core)  
645  
646

**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.

647 IV.A.5. advancement of fellows' knowledge of ethical principles  
648 foundational to medical professionalism. (Core)  
649  
650

651 IV.B. ACGME Competencies  
652

**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.

653 IV.B.1. The program must integrate the following ACGME Competencies  
654 into the curriculum: (Core)  
655  
656

657 IV.B.1.a) Professionalism  
658

659 Fellows must demonstrate a commitment to professionalism  
660 and an adherence to ethical principles. (Core)

661  
662  
663

IV.B.1.b)

Patient Care and Procedural Skills

**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.**

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IV.B.1.b).(1)

**Fellows must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.** <sup>(Core)</sup>

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>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(a)]

IV.B.1.b).(1).(b)

Fellows must demonstrate competence in: <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b)]

IV.B.1.b).(1).(b).(i)

pre-operative patient evaluation and optimization of clinical status prior to the cardiothoracic procedure; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b).(i)]

IV.B.1.b).(1).(b).(ii)

interpretation of cardiovascular and pulmonary diagnostic test data; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b).(ii)]

IV.B.1.b).(1).(b).(iii)

hemodynamic and respiratory monitoring; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b).(iii)]

IV.B.1.b).(1).(b).(iv)

pharmacological and mechanical hemodynamic support; and, <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b).(iv)]

IV.B.1.b).(1).(b).(v)

peri-operative critical care, including ventilatory support and peri-operative pain management. <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(b).(v)]

701	IV.B.1.b).(1).(c)	<u>Fellows</u> must maintain current certification in advanced cardiac life support. <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(1).(c)]
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705	<b>IV.B.1.b).(2)</b>	<b>Fellows must be able to perform all medical, diagnostic, and surgical procedures considered essential for the area of practice.</b> <sup>(Core)</sup>
706		
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709	IV.B.1.b).(2).(a)	<u>Fellows</u> must demonstrate competence in providing anesthesia care for patients undergoing cardiac surgery with and without extracorporeal circulation; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(2).(a)]
710		
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714	IV.B.1.b).(2).(b)	<u>Fellows</u> must demonstrate competence in providing anesthesia care for patients undergoing thoracic surgery, including operations on the lung, esophagus, and thoracic aorta; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(2).(b)]
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720	IV.B.1.b).(2).(c)	<u>Fellows</u> must demonstrate competence in advanced-level peri-operative TEE; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(2).(c)]
721		
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724	IV.B.1.b).(2).(d)	<u>Fellows</u> must be able to independently manage intra-aortic balloon counterpulsation and be actively involved in the management of other extracorporeal circulatory assist devices; and, <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(2).(d)]
725		
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730	IV.B.1.b).(2).(e)	<u>Fellows</u> must demonstrate competence in management of cardiopulmonary bypass (CPB). <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.a).(2).(e)]
731		
732		
733		
734	<b>IV.B.1.c)</b>	<b>Medical Knowledge</b>
735		
736		<b>Fellows must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.</b> <sup>(Core)</sup>
737		
738		
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740		
741	IV.B.1.c).(1)	<u>Fellows</u> must demonstrate knowledge of how cardiothoracic diseases affect the administration of anesthesia and life support to adult cardiothoracic patients, including: <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1)]
742		
743		
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745		
746	IV.B.1.c).(1).(a)	embryological development of the cardiothoracic structures; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(a)]
747		
748		
749		
750	IV.B.1.c).(1).(b)	pathophysiology, pharmacology, and clinical management of patients with cardiac disease, to
751		

752		include cardiomyopathy, heart failure, cardiac
753		tamponade, ischemic heart disease, acquired and
754		congenital valvular heart disease, congenital heart
755		disease, electrophysiologic disturbances, and
756		neoplastic and infectious cardiac diseases;
757		(Outcome)(Core) [Moved from IV.A.2.b).(1).(b)]
758		
759	IV.B.1.c).(1).(c)	pathophysiology, pharmacology, and clinical
760		management of patients with respiratory disease, to
761		include pleural, bronchopulmonary, neoplastic,
762		infectious, and inflammatory diseases; (Outcome)(Core)
763		[Moved from IV.A.2.b).(1).(c)]
764		
765	IV.B.1.c).(1).(d)	pathophysiology, pharmacology, and clinical
766		management of patients with thoracic vascular,
767		tracheal, esophageal, and mediastinal diseases, to
768		include infectious, neoplastic, and inflammatory
769		processes; (Outcome)(Core) [Moved from
770		IV.A.2.b).(1).(d)]
771		
772	IV.B.1.c).(1).(e)	non-invasive cardiovascular evaluation, to include
773		electrocardiography, transthoracic
774		echocardiography, TEE, stress testing, and
775		cardiovascular imaging; (Outcome)(Core) [Moved from
776		IV.A.2.b).(1).(e)]
777		
778	IV.B.1.c).(1).(f)	cardiac catheterization procedures and diagnostic
779		interpretation, to include invasive cardiac
780		catheterization procedures, including angioplasty,
781		stenting, and transcatheter laser and mechanical
782		ablations; (Outcome)(Core) [Moved from IV.A.2.b).(1).(f)]
783		
784	IV.B.1.c).(1).(g)	non-invasive pulmonary evaluation, to include
785		pulmonary function tests, blood gas and acid-base
786		analysis, oximetry, capnography, and pulmonary
787		imaging; (Outcome)(Core) [Moved from IV.A.2.b).(1).(g)]
788		
789	IV.B.1.c).(1).(h)	pre-anesthetic evaluation and preparation of adult
790		cardiothoracic patients; (Outcome)(Core) [Moved from
791		IV.A.2.b).(1).(h)]
792		
793	IV.B.1.c).(1).(i)	peri-anesthetic monitoring, both non-invasive and
794		invasive (intra-arterial, central venous, pulmonary
795		artery, mixed venous saturation, cardiac output);
796		(Outcome)(Core) [Moved from IV.A.2.b).(1).(i)]
797		
798	IV.B.1.c).(1).(j)	pharmacokinetics and pharmacodynamics of
799		medications prescribed for medical management of
800		adult cardiothoracic patients; (Outcome)(Core) [Moved
801		from IV.A.2.b).(1).(j)]
802		

803	IV.B.1.c).(1).(k)	pharmacokinetics and pharmacodynamics of
804		anesthetic medications prescribed for
805		cardiothoracic patients; <sup>(Outcome)(Core)</sup> [Moved from
806		IV.A.2.b).(1).(k)]
807		
808	IV.B.1.c).(1).(l)	pharmacokinetics and pharmacodynamics of
809		medications prescribed for management of
810		hemodynamic instability; <sup>(Outcome)(Core)</sup> [Moved from
811		IV.A.2.b).(1).(l)]
812		
813	IV.B.1.c).(1).(m)	extracorporeal circulation, to include: myocardial
814		preservation; effects of CPB on pharmacokinetics
815		and pharmacodynamics; cardiothoracic,
816		respiratory, neurological, metabolic, endocrine,
817		hematological, renal, and thermoregulatory effects
818		of CPB; and coagulation/anticoagulation before,
819		during, and after CPB; <sup>(Outcome)(Core)</sup> [Moved from
820		IV.A.2.b).(1)]
821		
822	IV.B.1.c).(1).(n)	inotropes, chromotropes, vasoconstrictors, and
823		vasodilators; <sup>(Outcome)(Core)</sup> [Moved from
824		IV.A.2.b).(1).(n)]
825		
826	IV.B.1.c).(1).(o)	circulatory assist devices, to include intra-aortic
827		balloon pumps, left and right ventricular assist
828		devices, and extracorporeal membrane
829		oxygenation (ECMO); <sup>(Outcome)(Core)</sup> [Moved from
830		IV.A.2.b).(1).(o)]
831		
832	IV.B.1.c).(1).(p)	pacemaker insertion and modes of action;
833		<sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(p)]
834		
835	IV.B.1.c).(1).(q)	cardiac surgical procedures, to include: minimally
836		invasive myocardial revascularization; valve repair
837		and replacement; pericardial, neoplastic
838		procedures; and heart and lung transplantation;
839		<sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(q)]
840		
841	IV.B.1.c).(1).(r)	thoracic aortic surgery, to include: ascending,
842		transverse, and descending aortic surgery with
843		circulatory arrest; CPB employing low flow and or
844		retrograde perfusion; lumbar drain indications and
845		management; and spinal cord protection, including
846		cerebral spinal fluid (CSF) drainage; <sup>(Outcome)(Core)</sup>
847		[Moved from IV.A.2.b).(1).(r)]
848		
849	IV.B.1.c).(1).(s)	esophageal surgery, to include varices, neoplastic,
850		colon interposition, foreign body, stricture, and
851		tracheoesophageal fistula; <sup>(Outcome)(Core)</sup> [Moved from
852		IV.A.2.b).(1).(s)]
853		

- 854 IV.B.1.c).(1).(t) pulmonary surgery, to include segmentectomy  
 855 (open or video-assisted), thoracoscopic or open,  
 856 lung reduction, bronchopulmonary lavage, one-lung  
 857 ventilation, lobectomy, pneumonectomy and  
 858 bronchoscopy, including endoscopic, fiberoptic,  
 859 rigid, laser resection; <sup>(Outcome)(Core)</sup> [Moved from  
 860 IV.A.2.b).(1).(t)]
- 861 IV.B.1.c).(1).(u) post-anesthetic critical care of adult cardiothoracic  
 862 surgical patients; <sup>(Outcome)(Core)</sup> [Moved from  
 863 IV.A.2.b).(1).(u)]
- 864 IV.B.1.c).(1).(v) peri-operative ventilator management, to include  
 865 intra-operative anesthetics, and critical care unit  
 866 ventilators and techniques; <sup>(Outcome)(Core)</sup> [Moved from  
 867 IV.A.2.b).(1).(v)]
- 868 IV.B.1.c).(1).(w) pain management of adult cardiothoracic surgical  
 869 patients; <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(w)]
- 870 IV.B.1.c).(1).(x) research methodology/statistical analysis, the  
 871 fundamentals of research design and conduct, and  
 872 the interpretation and presentation of data;  
 873 <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(x)]
- 874 IV.B.1.c).(1).(y) quality assurance/improvement; and, <sup>(Outcome)(Core)</sup>  
 875 [Moved from IV.A.2.b).(1).(y)]
- 876 IV.B.1.c).(1).(z) ethical and legal issues, and practice management.  
 877 <sup>(Outcome)(Core)</sup> [Moved from IV.A.2.b).(1).(z)]

884 **IV.B.1.d)**

**Practice-based Learning and Improvement**

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

**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.**

892 **IV.B.1.e)**

**Interpersonal and Communication Skills**

893 **Fellows must demonstrate interpersonal and communication**  
 894 **skills that result in the effective exchange of information and**  
 895  
 896



897		<b>collaboration with patients, their families, and health</b>
898		<b>professionals.</b> <sup>(Core)</sup>
899		
900	<b>IV.B.1.f)</b>	<b>Systems-based Practice</b>
901		
902		<b>Fellows must demonstrate an awareness of and</b>
903		<b>responsiveness to the larger context and system of health</b>
904		<b>care, including the social determinants of health, as well as</b>
905		<b>the ability to call effectively on other resources to provide</b>
906		<b>optimal health care.</b> <sup>(Core)</sup>
907		
908	<b>IV.C.</b>	<b>Curriculum Organization and Fellow Experiences</b>
909		
910	<b>IV.C.1.</b>	<b>The curriculum must be structured to optimize fellow educational</b>
911		<b>experiences, the length of these experiences, and supervisory</b>
912		<b>continuity.</b> <sup>(Core)</sup>
913		
914		<b>[The Review Committee must further specify]</b>
915		[The Review Committee’s specification will be included in the upcoming
916		focused revision to the Adult Cardiothoracic Anesthesiology Program
917		Requirements]
918		
919	<b>IV.C.2.</b>	<b>The program must provide instruction and experience in pain</b>
920		<b>management if applicable for the subspecialty, including recognition</b>
921		<b>of the signs of addiction.</b> <sup>(Core)</sup>
922		
923	<b>IV.C.3.</b>	<b>The curriculum must include at least six months of clinical anesthesia</b>
924		<b>experience, to include:</b> <sup>(Core)</sup> [Moved from IV.A.3.a)]
925		
926	<b>IV.C.3.a)</b>	<b>cardiac experience, including:</b> <sup>(Core)</sup> [Moved from IV.A.3.a).(1)]
927		
928	<b>IV.C.3.a).(1)</b>	<b>a minimum of 100 cardiac surgical procedures with at least</b>
929		<b>50 requiring CPB;</b> <sup>(Core)</sup> [Moved from IV.A.3.a).(1).(a)]
930		
931	<b>IV.C.3.a).(2)</b>	<b>a minimum of 25 aortic and/or mitral valve repairs or</b>
932		<b>replacements, to include at least five mitral repairs or</b>
933		<b>replacements and five aortic repairs or replacements</b>
934		<b>requiring CPB;</b> <sup>(Core)</sup> [Moved from IV.A.3.a).(1).(b)]
935		
936	<b>IV.C.3.a).(3)</b>	<b>a minimum of 25 myocardial revascularization procedures</b>
937		<b>with or without CPB;</b> <sup>(Core)</sup> [Moved from IV.A.3.a).(1).(c)]
938		
939	<b>IV.C.3.a).(4)</b>	<b>management of patients undergoing procedures in each of</b>
940		<b>two or more of the following categories:</b> <sup>(Core)</sup> [Moved from
941		<b>IV.A.3.a).(1).(d)]</b>
942		
943	<b>IV.C.3.a).(4).(a)</b>	<b>adult correction/revision of congenital cardiac</b>
944		<b>lesions;</b> <sup>(Core)</sup> [Moved from IV.A.3.a).(1).(d).(i)]
945		

946	IV.C.3.a).(4).(b)	cardiac and lung transplantation; <sup>(Core)</sup> [Moved from
947		IV.A.3.a).(1).(d).(ii)]
948		
949	IV.C.3.a).(4).(c)	placement of circulatory assist devices including left
950		heart bypass, ventricular assist devices, intra-aortic
951		balloon pumps, and ECMO; and, <sup>(Core)</sup> [Moved from
952		IV.A.3.a).(1).(d).(iii)]
953		
954	IV.C.3.a).(4).(d)	electrophysiology procedures requiring general
955		anesthesia. <sup>(Core)</sup> [Moved from IV.A.3.a).(1).(d).(iv)]
956		
957	IV.C.3.b)	thoracic experience, including: <sup>(Core)</sup> [Moved from IV.A.3.a).(2)
958		
959	IV.C.3.b).(1)	anesthetic management of at least 15 patients undergoing
960		non-cardiac thoracic surgery, including procedures
961		involving airway/lung repair, lung resection (open and/or
962		video-assisted segmentectomy, lobectomy, and
963		pneumonectomy), and esophageal resection/repair; and,
964		<sup>(Core)</sup> [Moved from IV.A.3.a).(2).(a)]
965		
966	IV.C.3.b).(2)	anesthetic management of patients undergoing
967		endovascular and/or open repair of the thoracic aorta, to
968		include the management of CSF drainage. <sup>(Core)</sup> [Moved
969		from IV.A.3.a).(2).(b)]
970		
971	IV.C.4.	Each fellow is required to have at least a one-month experience
972		managing adult cardiothoracic surgical patients in a critical care (intensive
973		care unit (ICU)) setting. <sup>(Core)</sup> [Moved from IV.A.3.b]
974		
975	IV.C.5.	Each fellow must have two months of clinical elective rotations related to
976		the care of the cardiac patient, such as inpatient cardiology, invasive
977		cardiology, medical (cardiology) critical care, pediatric cardiac
978		anesthesiology, and extracorporeal perfusion. <sup>(Core)</sup> [Moved from IV.A.3.c)]
979		
980	IV.C.5.a)	Elective rotations should be at least two weeks in duration. <sup>(Detail)</sup>
981		[Moved from IV.A.3.c).(1)]
982		
983	IV.C.5.b)	A research project in cardiothoracic anesthesiology may be
984		substituted for one or two months of clinical elective rotations.
985		<sup>(Detail)</sup> [Moved from IV.A.3.c).(2)]
986		
987	IV.C.6.	Fellows must perform and interpret TEE examinations such that they
988		meet NBE requirements for certification in advanced peri-operative TEE.
989		<sup>(Core)</sup> [Moved from IV.A.3.d)]
990		
991	IV.C.7.	<u>The curriculum must be designed in order for fellows to</u> <del>Fellows must</del>
992		demonstrate: [Moved from IV.A.2.d)]
993		
994	IV.C.7.a)	effective communication skills, including: <sup>(Outcome)‡</sup> [Moved from
995		IV.A.2.d).(1)]
996		

997	IV.C.7.b)	obtaining informed consent; <sup>(Outcome)</sup> [Moved from IV.A.2.d).(1).(a)]
998		
999	IV.C.7.c)	communicating the patient care and management plan; and,
1000		<sup>(Outcome)</sup> [Moved from IV.A.2.d).(1).(b)]
1001		
1002	IV.C.7.d)	explaining complications/errors and their management to patients
1003		and families. <sup>(Outcome)</sup> [Moved from IV.A.2.d).(1).(c)]
1004		
1005	IV.C.7.e)	skills in preparing and presenting educational material for medical
1006		students, graduate medical education staff members, and allied
1007		health personnel; and, <sup>(Outcome)</sup> [Moved from IV.A.2.d).(2)]
1008		
1009	IV.C.7.f)	competence in providing clinical consultations. <sup>(Outcome)</sup> [Moved
1010		from IV.A.2.d).(3)]
1011		
1012	IV.C.8.	<u>The curriculum must be designed in order for fellows to</u> <del>Fellows must</del>
1013		demonstrate: [Moved from IV.A.2.e]
1014		
1015	IV.C.8.a)	compassion, integrity, and respect for others; <sup>(Outcome)</sup> [Moved from
1016		IV.A.2.e).(1)]
1017		
1018	IV.C.8.b)	responsiveness to patient needs; <sup>(Outcome)</sup> [Moved from
1019		IV.A.2.e).(2)]
1020		
1021	IV.C.8.c)	respect for patient privacy and autonomy; <sup>(Outcome)</sup> [Moved from
1022		IV.A.2.e).(3)]
1023		
1024	IV.C.8.d)	accountability to patients, society, and the profession; <sup>(Outcome)</sup>
1025		[Moved from IV.A.2.e).(4)]
1026		
1027	IV.C.8.e)	sensitivity and responsiveness to a diverse patient population,
1028		including diversity in gender, age, culture, race, religion,
1029		disabilities, and sexual orientation; and, <sup>(Outcome)</sup> [Moved from
1030		IV.A.2.e).(5)]
1031		
1032	IV.C.8.f)	compliance with institutional, departmental, and program policies.
1033		<sup>(Outcome)</sup> [Moved from IV.A.2.e).(6)]
1034		
1035	IV.C.9.	<u>The curriculum must be designed in order for fellows to</u> <del>Fellows must:</del>
1036		[Moved from IV.A.2.f)]
1037		
1038	IV.C.9.a)	work in interprofessional teams to enhance patient safety and
1039		improve patient care quality; and, <sup>(Outcome)</sup> [Moved from IV.A.2.f).(1)]
1040		
1041	IV.C.9.b)	participate in identifying system errors and implementing potential
1042		system solutions. <sup>(Outcome)</sup> [Moved from IV.A.2.f).(2)]
1043		
1044	IV.C.10.	Clinical Components [Moved from IV.A.4]
1045		
1046	IV.C.10.a)	Clinical experience must include direct clinical care of patients and
1047		supervisory experience. <sup>(Core)</sup> [Moved from IV.A.4.a)]

1048		
1049	IV.C.10.a).(1)	At a minimum, 35 cases must be performed by each fellow as the primary anesthesia provider under the supervision of a faculty anesthesiologist. <sup>(Core)</sup> [Moved from IV.A.4.a).(1)]
1050		
1051		
1052		
1053		
1054	IV.C.10.a).(1).(a)	For these 35 cases, the fellow should not be supervising a resident or student. <sup>(Core)</sup> [Moved from IV.A.4.a).(1).(a)]
1055		
1056		
1057		
1058	IV.C.10.a).(1).(b)	A resident or second fellow may perform a TEE examination under faculty member supervision, but all other aspects of care must be the responsibility of the fellow. <sup>(Core)</sup> [Moved from IV.A.4.a).(1).(b)]
1059		
1060		
1061		
1062		
1063	IV.C.10.a).(1).(c)	Supervision of residents and other anesthesia providers by fellows must be under the direct supervision of a faculty anesthesiologist. <sup>(Core)</sup> [Moved from IV.A.4.a).(1).(c)]
1064		
1065		
1066		
1067		
1068	IV.C.10.a).(1).(d)	Faculty members must provide feedback to help fellows develop skills in supervision. <sup>(Core)</sup> [Moved from IV.A.4.a).(1).(d)]
1069		
1070		
1071		
1072	IV.C.10.a).(2)	Fellows must have experience with anesthetic management of adult patients for cardiac pacemaker and automatic implantable cardiac defibrillator placement, surgical treatment of cardiac arrhythmias, cardiac catheterization, and cardiac electrophysiologic diagnostic/therapeutic procedures. <sup>(Core)</sup> [Moved from IV.A.4.a).(2)]
1073		
1074		
1075		
1076		
1077		
1078		
1079		
1080	IV.C.10.a).(2).(a)	The majority of this experience should be obtained in non-operating room environments to encourage multidisciplinary interaction. <sup>(Detail)</sup> [Moved from IV.A.4.a).(2).(a)]
1081		
1082		
1083		
1084		
1085	IV.C.10.b)	Fellows must successfully complete advanced peri-operative echocardiography education. <sup>(Core)</sup> [Moved from IV.A.4.b)]
1086		
1087		
1088	IV.C.10.c)	Fellows should be involved in continuing quality improvement and risk management. <sup>(Core)</sup> [Moved from IV.A.4.c)]
1089		
1090		
1091	IV.C.11.	<u>The program director must</u> ensure that all fellows maintain accurate procedure logs. <sup>(Core)</sup> [Moved from II.A.3.f)]
1092		
1093		
1094	IV.C.12.	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. <sup>(Core)</sup> [Moved from IV.A.5]
1095		
1096		
1097		
1098		

- 1099 IV.C.12.a) Subspecialty conferences, including review of all current  
 1100 complications and deaths, seminars, and clinical and basic  
 1101 science instruction, must be regularly conducted. <sup>(Detail)</sup> [Moved  
 1102 from IV.A.5.a)]  
 1103  
 1104 IV.C.12.b) Fellows must actively participate in the planning and production of  
 1105 these meetings. <sup>(Detail)</sup> [Moved from IV.A.5.b)]  
 1106  
 1107 IV.C.12.c) Fellows and faculty members should regularly attend all lectures,  
 1108 conferences, seminars, and workshops. <sup>(Core)</sup> [Moved from  
 1109 IV.A.5.c)]  
 1110  
 1111 IV.C.12.c).(1) Faculty members should be the leaders in the majority of  
 1112 the sessions. <sup>(Detail)</sup> [Moved from IV.A.5.c).(1)]  
 1113  
 1114 IV.C.12.d) Multidisciplinary conferences should include participation from  
 1115 faculty members from cardiology, cardiothoracic surgery, critical  
 1116 care, pediatrics, and pulmonary medicine. <sup>(Core)</sup> [Moved from  
 1117 IV.A.5.d)]  
 1118  
 1119 IV.C.13. Fellows must attend a minimum of 10 multidisciplinary conferences that  
 1120 are relevant to cardiothoracic anesthesiology, especially in cardiothoracic  
 1121 surgery, cardiovascular medicine, critical care, pediatrics, pulmonary  
 1122 medicine, and vascular surgery, <sup>(Core)</sup> [Moved from IV.A.5.d).(1)]  
 1123

#### 1124 IV.D. Scholarship

1125  
 1126 ***Medicine is both an art and a science. The physician is a humanistic***  
 1127 ***scientist who cares for patients. This requires the ability to think critically,***  
 1128 ***evaluate the literature, appropriately assimilate new knowledge, and***  
 1129 ***practice lifelong learning. The program and faculty must create an***  
 1130 ***environment that fosters the acquisition of such skills through fellow***  
 1131 ***participation in scholarly activities as defined in the subspecialty-specific***  
 1132 ***Program Requirements. Scholarly activities may include discovery,***  
 1133 ***integration, application, and teaching.***  
 1134

1135  
 1136 ***The ACGME recognizes the diversity of fellowships and anticipates that***  
 1137 ***programs prepare physicians for a variety of roles, including clinicians,***  
 1138 ***scientists, and educators. It is expected that the program's scholarship will***  
 1139 ***reflect its mission(s) and aims, and the needs of the community it serves.***  
 1140 ***For example, some programs may concentrate their scholarly activity on***  
 1141 ***quality improvement, population health, and/or teaching, while other***  
 1142 ***programs might choose to utilize more classic forms of biomedical***  
 1143 ***research as the focus for scholarship.***

#### 1144 IV.D.4. Program Responsibilities

- 1145  
 1146 IV.D.4.a) The program must demonstrate evidence of scholarly  
 1147 activities, consistent with its mission(s) and aims. <sup>(Core)</sup>  
 1148

1149 **IV.D.4.b)**                                    **The program in partnership with its Sponsoring Institution,**  
1150 **must allocate adequate resources to facilitate fellow and**  
1151 **faculty involvement in scholarly activities.** (Core)

1152  
1153 **IV.D.5.**                                    **Faculty Scholarly Activity**

1154  
1155 **IV.D.5.a)**                                    **Among their scholarly activity, programs must demonstrate**  
1156 **accomplishments in at least three of the following domains:**  
1157 (Core)

- **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**
- **Creation of curricula, evaluation tools, didactic educational activities, or electronic educational materials**
- **Contribution to professional committees, educational organizations, or editorial boards**
- **Innovations in education**

1168  
1169  
1170  
1171  
1172 **IV.D.5.b)**                                    **The program must demonstrate dissemination of scholarly**  
1173 **activity within and external to the program by the following**  
1174 **methods:**  
1175

**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.**

1176  
1177 **IV.D.5.b).(1)**                                    **faculty participation in grand rounds, posters,**  
1178 **workshops, quality improvement presentations,**  
1179 **podium presentations, grant leadership, non-peer-**  
1180 **reviewed print/electronic resources, articles or**  
1181 **publications, book chapters, textbooks, webinars,**  
1182 **service on professional committees, or serving as a**  
1183 **journal reviewer, journal editorial board member, or**  
1184 **editor;** (Outcome)

1185  
1186 **IV.D.5.b).(2)**                                    **peer-reviewed publication.** (Outcome)

1187  
1188 **IV.D.6.**                                    **Fellow Scholarly Activity**  
1189

1190 IV.D.6.a) All fellows must complete a scholarly project. <sup>(Core)</sup> [Moved from  
 1191 IV.B.1]  
 1192  
 1193 IV.D.6.a).(1) The results of such projects must be disseminated through  
 1194 a variety of means, including publication or presentation at  
 1195 local, regional, national, or international meetings. <sup>(Core)</sup>  
 1196 [Moved from IV.B.1.a)]  
 1197

1198 **V. Evaluation**

1199  
 1200 **V.A. Fellow Evaluation**

1201  
 1202 **V.A.1. Feedback and Evaluation**  
 1203

**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.**

1204  
 1205 **V.A.1.a) Faculty members must directly observe, evaluate, and**  
 1206 **frequently provide feedback on fellow performance during**  
 1207 **each rotation or similar educational assignment. <sup>(Core)</sup>**  
 1208

1209 V.A.1.a).(1) Faculty members responsible for teaching must provide  
 1210 critical evaluations of each fellow’s progress and  
 1211 competence to the program director at the end of six and  
 1212 12 months of education. <sup>(Core)</sup> [Moved from V.A.2.a).(1)]  
 1213

- 1214 V.A.1.a).(1).(a) Assessment should include essential character  
 1215 attributes, acquired character attributes, fund of  
 1216 knowledge, clinical judgment, and clinical  
 1217 psychomotor skills, as well as specific tasks and  
 1218 skills for patient management and critical analysis  
 1219 of clinical situations. <sup>(Detail)</sup> [Moved from  
 1220 V.A.2.a).(1).(a)]  
 1221  
 1222 V.A.1.a).(2) There must be periodic evaluation of patient care (quality  
 1223 assurance). <sup>(Core)</sup> [Moved from V.A.2.a).(2)]  
 1224  
 1225 V.A.1.a).(3) The program must review fellow procedure logs to ensure  
 1226 each fellow's progress in achieving the required breadth  
 1227 and depth of experience. <sup>(Detail)</sup> [Moved from V.A.2.b).(4)]  
 1228

**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.**

- 1229  
 1230 V.A.1.b) Evaluation must be documented at the completion of the  
 1231 assignment. <sup>(Core)</sup>  
 1232  
 1233 V.A.1.b).(1) For block rotations of greater than three months in  
 1234 duration, evaluation must be documented at least  
 1235 every three months. <sup>(Core)</sup>  
 1236  
 1237 V.A.1.b).(2) Longitudinal experiences such as continuity clinic in  
 1238 the context of other clinical responsibilities must be  
 1239 evaluated at least every three months and at  
 1240 completion. <sup>(Core)</sup>  
 1241  
 1242 V.A.1.c) The program must provide an objective performance  
 1243 evaluation based on the Competencies and the subspecialty-  
 1244 specific Milestones, and must: <sup>(Core)</sup>  
 1245  
 1246 V.A.1.c).(1) use multiple evaluators (e.g., faculty members, peers,  
 1247 patients, self, and other professional staff members);  
 1248 and, <sup>(Core)</sup>  
 1249  
 1250 V.A.1.c).(2) provide that information to the Clinical Competency  
 1251 Committee for its synthesis of progressive fellow  
 1252 performance and improvement toward unsupervised  
 1253 practice. <sup>(Core)</sup>  
 1254

**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.

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

**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.

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

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1284	<b>V.A.2.a).(1)</b>	<b>The subspecialty-specific Milestones, and when applicable the subspecialty-specific Case Logs, must be used as tools to ensure fellows are able to engage in autonomous practice upon completion of the program. (Core)</b>
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1290	<b>V.A.2.a).(2)</b>	<b>The final evaluation must:</b>
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1292	<b>V.A.2.a).(2).(a)</b>	<b>become part of the fellow’s permanent record maintained by the institution, and must be accessible for review by the fellow in accordance with institutional policy; (Core)</b>
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1297	<b>V.A.2.a).(2).(b)</b>	<b>verify that the fellow has demonstrated the knowledge, skills, and behaviors necessary to enter autonomous practice; (Core)</b>
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1301	<b>V.A.2.a).(2).(c)</b>	<b>consider recommendations from the Clinical Competency Committee; and, (Core)</b>
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1304	<b>V.A.2.a).(2).(d)</b>	<b>be shared with the fellow upon completion of the program. (Core)</b>
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1307	<b>V.A.3.</b>	<b>A Clinical Competency Committee must be appointed by the program director. (Core)</b>
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1310	<b>V.A.3.a)</b>	<b>At a minimum the Clinical Competency Committee must include three members, at least one of whom is a core faculty member. Members must be faculty members from the same program or other programs, or other health professionals who have extensive contact and experience with the program’s fellows. (Core)</b>
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1317	<b>V.A.3.b)</b>	<b>The Clinical Competency Committee must:</b>
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1319	<b>V.A.3.b).(1)</b>	<b>review all fellow evaluations at least semi-annually; (Core)</b>
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1322	<b>V.A.3.b).(2)</b>	<b>determine each fellow’s progress on achievement of the subspecialty-specific Milestones; and, (Core)</b>
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1325	<b>V.A.3.b).(3)</b>	<b>meet prior to the fellows’ semi-annual evaluations and advise the program director regarding each fellow’s progress. (Core)</b>
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1329	<b>V.B.</b>	<b>Faculty Evaluation</b>
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1331	<b>V.B.1.</b>	<b>The program must have a process to evaluate each faculty member’s performance as it relates to the educational program at least annually. (Core)</b>
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**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.

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- V.B.1.a)** This evaluation must include a review of the faculty member's clinical teaching abilities, engagement with the educational program, participation in faculty development related to their skills as an educator, clinical performance, professionalism, and scholarly activities. *(Core)*
- V.B.1.b)** This evaluation must include written, confidential evaluations by the fellows. *(Core)*
- V.B.2.** Faculty members must receive feedback on their evaluations at least annually. *(Core)*
- V.B.3.** Results of the faculty educational evaluations should be incorporated into program-wide faculty development plans. *(Core)*

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

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

- 1359 **V.C.1.a)** **The Program Evaluation Committee must be composed of at**  
 1360 **least two program faculty members, at least one of whom is a**  
 1361 **core faculty member, and at least one fellow.** *(Core)*  
 1362
- 1363 **V.C.1.b)** **Program Evaluation Committee responsibilities must include:**  
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- 1365 **V.C.1.b).(1)** **acting as an advisor to the program director, through**  
 1366 **program oversight;** *(Core)*  
 1367
- 1368 **V.C.1.b).(2)** **review of the program’s self-determined goals and**  
 1369 **progress toward meeting them;** *(Core)*  
 1370
- 1371 **V.C.1.b).(3)** **guiding ongoing program improvement, including**  
 1372 **development of new goals, based upon outcomes;**  
 1373 **and,** *(Core)*  
 1374
- 1375 **V.C.1.b).(4)** **review of the current operating environment to identify**  
 1376 **strengths, challenges, opportunities, and threats as**  
 1377 **related to the program’s mission and aims.** *(Core)*  
 1378

**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.**

- 1379
- 1380 **V.C.1.c)** **The Program Evaluation Committee should consider the**  
 1381 **following elements in its assessment of the program:**  
 1382
- 1383 **V.C.1.c).(1)** **curriculum;** *(Core)*  
 1384
- 1385 **V.C.1.c).(2)** **outcomes from prior Annual Program Evaluation(s);**  
 1386 *(Core)*  
 1387
- 1388 **V.C.1.c).(3)** **ACGME letters of notification, including citations,**  
 1389 **Areas for Improvement, and comments;** *(Core)*  
 1390
- 1391 **V.C.1.c).(4)** **quality and safety of patient care;** *(Core)*  
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- 1393 **V.C.1.c).(5)** **aggregate fellow and faculty:**  
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- 1395 **V.C.1.c).(5).(a)** **well-being;** *(Core)*  
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- 1397 **V.C.1.c).(5).(b)** **recruitment and retention;** *(Core)*  
 1398
- 1399 **V.C.1.c).(5).(c)** **workforce diversity;** *(Core)*  
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- 1401 **V.C.1.c).(5).(d)** **engagement in quality improvement and patient**  
 1402 **safety;** *(Core)*  
 1403

1404	V.C.1.c).(5).(e)	scholarly activity; <sup>(Core)</sup>
1405		
1406	V.C.1.c).(5).(f)	ACGME Resident/Fellow and Faculty Surveys
1407		(where applicable); and, <sup>(Core)</sup>
1408		
1409	V.C.1.c).(5).(g)	written evaluations of the program. <sup>(Core)</sup>
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1411	V.C.1.c).(6)	aggregate fellow:
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1413	V.C.1.c).(6).(a)	achievement of the Milestones; <sup>(Core)</sup>
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1415	V.C.1.c).(6).(b)	in-training examinations (where applicable);
1416		<sup>(Core)</sup>
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1418	V.C.1.c).(6).(c)	board pass and certification rates; and, <sup>(Core)</sup>
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1420	V.C.1.c).(6).(d)	graduate performance. <sup>(Core)</sup>
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1422	V.C.1.c).(7)	aggregate faculty:
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1424	V.C.1.c).(7).(a)	evaluation; and, <sup>(Core)</sup>
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1426	V.C.1.c).(7).(b)	professional development <sup>(Core)</sup>
1427		
1428	V.C.1.d)	The Program Evaluation Committee must evaluate the
1429		program's mission and aims, strengths, areas for
1430		improvement, and threats. <sup>(Core)</sup>
1431		
1432	V.C.1.e)	The annual review, including the action plan, must:
1433		
1434	V.C.1.e).(1)	be distributed to and discussed with the members of
1435		the teaching faculty and the fellows; and, <sup>(Core)</sup>
1436		
1437	V.C.1.e).(2)	be submitted to the DIO. <sup>(Core)</sup>
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1439	V.C.2.	The program must participate in a Self-Study prior to its 10-Year
1440		Accreditation Site Visit. <sup>(Core)</sup>
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1442	V.C.2.a)	A summary of the Self-Study must be submitted to the DIO.
1443		<sup>(Core)</sup>
1444		
1445	V.C.2.b)	<del>twice-yearly documented meetings to review program goals and</del>
1446		<del>objectives, as well as program effectiveness in achieving them.</del>
1447		<sup>(Core)</sup> [Moved from V.C.2.d)]
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**Background and Intent: Outcomes of the documented Annual Program Evaluation can be integrated into the 10-year Self-Study process. The Self-Study is an objective, comprehensive evaluation of the fellowship program, with the aim of improving it. Underlying the Self-Study is this longitudinal evaluation of the program and its learning environment, facilitated through sequential Annual Program Evaluations that focus on the required components, with an emphasis on program strengths and self-**

identified areas for improvement. Details regarding the timing and expectations for the Self-Study and the 10-Year Accreditation Site Visit are provided in the *ACGME Manual of Policies and Procedures*. Additionally, a description of the [Self-Study process](#), as well as information on how to prepare for the [10-Year Accreditation Site Visit](#), is available on the ACGME website.

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

**Background and Intent: Setting a single standard for pass rate that works across subspecialties is not supportable based on the heterogeneity of the psychometrics of**

different examinations. By using a percentile rank, the performance of the lower five percent (fifth percentile) of programs can be identified and set on a path to curricular and test preparation reform.

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

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

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

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

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

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## VI. The Learning and Working Environment

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

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

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

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

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

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

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

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

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

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

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



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1549 ***A culture of safety requires continuous identification***  
1550 ***of vulnerabilities and a willingness to transparently***  
1551 ***deal with them. An effective organization has formal***  
1552 ***mechanisms to assess the knowledge, skills, and***  
1553 ***attitudes of its personnel toward safety in order to***  
1554 ***identify areas for improvement.***

1556 **VI.A.1.a).(1).(a)** **The program, its faculty, residents, and fellows**  
1557 **must actively participate in patient safety**  
1558 **systems and contribute to a culture of safety.**  
1559 **(Core)**

1561 **VI.A.1.a).(1).(b)** **The program must have a structure that**  
1562 **promotes safe, interprofessional, team-based**  
1563 **care. (Core)**

1565 **VI.A.1.a).(2)** **Education on Patient Safety**  
1566  
1567 **Programs must provide formal educational activities**  
1568 **that promote patient safety-related goals, tools, and**  
1569 **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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1572 **VI.A.1.a).(3)** **Patient Safety Events**  
1573  
1574 ***Reporting, investigation, and follow-up of adverse***  
1575 ***events, near misses, and unsafe conditions are pivotal***  
1576 ***mechanisms for improving patient safety, and are***  
1577 ***essential for the success of any patient safety***  
1578 ***program. Feedback and experiential learning are***  
1579 ***essential to developing true competence in the ability***  
1580 ***to identify causes and institute sustainable systems-***  
1581 ***based changes to ameliorate patient safety***  
1582 ***vulnerabilities.***

1584 **VI.A.1.a).(3).(a)** **Residents, fellows, faculty members, and other**  
1585 **clinical staff members must:**

1587 **VI.A.1.a).(3).(a).(i)** **know their responsibilities in reporting**  
1588 **patient safety events at the clinical site;**  
1589 **(Core)**

1591 **VI.A.1.a).(3).(a).(ii)** **know how to report patient safety**  
1592 **events, including near misses, at the**  
1593 **clinical site; and, (Core)**  
1594

1595	VI.A.1.a).(3).(a).(iii)	be provided with summary information
1596		of their institution's patient safety
1597		reports. <sup>(Core)</sup>
1598		
1599	VI.A.1.a).(3).(b)	Fellows must participate as team members in
1600		real and/or simulated interprofessional clinical
1601		patient safety activities, such as root cause
1602		analyses or other activities that include
1603		analysis, as well as formulation and
1604		implementation of actions. <sup>(Core)</sup>
1605		
1606	VI.A.1.a).(4)	<b>Fellow Education and Experience in Disclosure of</b>
1607		<b>Adverse Events</b>
1608		
1609		<i>Patient-centered care requires patients, and when</i>
1610		<i>appropriate families, to be apprised of clinical</i>
1611		<i>situations that affect them, including adverse events.</i>
1612		<i>This is an important skill for faculty physicians to</i>
1613		<i>model, and for fellows to develop and apply.</i>
1614		
1615	VI.A.1.a).(4).(a)	All fellows must receive training in how to
1616		disclose adverse events to patients and
1617		families. <sup>(Core)</sup>
1618		
1619	VI.A.1.a).(4).(b)	Fellows should have the opportunity to
1620		participate in the disclosure of patient safety
1621		events, real or simulated. <sup>(Detail)</sup>
1622		
1623	VI.A.1.b)	<b>Quality Improvement</b>
1624		
1625	VI.A.1.b).(1)	<b>Education in Quality Improvement</b>
1626		
1627		<i>A cohesive model of health care includes quality-</i>
1628		<i>related goals, tools, and techniques that are necessary</i>
1629		<i>in order for health care professionals to achieve</i>
1630		<i>quality improvement goals.</i>
1631		
1632	VI.A.1.b).(1).(a)	Fellows must receive training and experience in
1633		quality improvement processes, including an
1634		understanding of health care disparities. <sup>(Core)</sup>
1635		
1636	VI.A.1.b).(2)	<b>Quality Metrics</b>
1637		
1638		<i>Access to data is essential to prioritizing activities for</i>
1639		<i>care improvement and evaluating success of</i>
1640		<i>improvement efforts.</i>
1641		
1642	VI.A.1.b).(2).(a)	Fellows and faculty members must receive data
1643		on quality metrics and benchmarks related to
1644		their patient populations. <sup>(Core)</sup>
1645		

1646	VI.A.1.b).(3)	<b>Engagement in Quality Improvement Activities</b>
1647		
1648		<i>Experiential learning is essential to developing the</i>
1649		<i>ability to identify and institute sustainable systems-</i>
1650		<i>based changes to improve patient care.</i>
1651		
1652	VI.A.1.b).(3).(a)	<b>Fellows must have the opportunity to</b>
1653		<b>participate in interprofessional quality</b>
1654		<b>improvement activities. <sup>(Core)</sup></b>
1655		
1656	VI.A.1.b).(3).(a).(i)	<b>This should include activities aimed at</b>
1657		<b>reducing health care disparities. <sup>(Detail)</sup></b>
1658		
1659	VI.A.2.	<b>Supervision and Accountability</b>
1660		
1661	VI.A.2.a)	<i>Although the attending physician is ultimately responsible for</i>
1662		<i>the care of the patient, every physician shares in the</i>
1663		<i>responsibility and accountability for their efforts in the</i>
1664		<i>provision of care. Effective programs, in partnership with</i>
1665		<i>their Sponsoring Institutions, define, widely communicate,</i>
1666		<i>and monitor a structured chain of responsibility and</i>
1667		<i>accountability as it relates to the supervision of all patient</i>
1668		<i>care.</i>
1669		
1670		<i>Supervision in the setting of graduate medical education</i>
1671		<i>provides safe and effective care to patients; ensures each</i>
1672		<i>fellow’s development of the skills, knowledge, and attitudes</i>
1673		<i>required to enter the unsupervised practice of medicine; and</i>
1674		<i>establishes a foundation for continued professional growth.</i>
1675		
1676	VI.A.2.a).(1)	<b>Each patient must have an identifiable and</b>
1677		<b>appropriately-credentialed and privileged attending</b>
1678		<b>physician (or licensed independent practitioner as</b>
1679		<b>specified by the applicable Review Committee) who is</b>
1680		<b>responsible and accountable for the patient’s care.</b>
1681		<sup>(Core)</sup>
1682		
1683	VI.A.2.a).(1).(a)	<b>This information must be available to fellows,</b>
1684		<b>faculty members, other members of the health</b>
1685		<b>care team, and patients. <sup>(Core)</sup></b>
1686		
1687	VI.A.2.a).(1).(b)	<b>Fellows and faculty members must inform each</b>
1688		<b>patient of their respective roles in that patient’s</b>
1689		<b>care when providing direct patient care. <sup>(Core)</sup></b>
1690		
1691	VI.A.2.b)	<i>Supervision may be exercised through a variety of methods.</i>
1692		<i>For many aspects of patient care, the supervising physician</i>
1693		<i>may be a more advanced fellow. Other portions of care</i>
1694		<i>provided by the fellow can be adequately supervised by the</i>
1695		<i>immediate availability of the supervising faculty member or</i>
1696		<i>fellow, either on site or by means of telephonic and/or</i>

1697		<i>electronic modalities. Some activities require the physical presence of the supervising faculty member. In some circumstances, supervision may include post-hoc review of fellow-delivered care with feedback.</i>
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1702	<b>VI.A.2.b).(1)</b>	<b>The program must demonstrate that the appropriate level of supervision in place for all fellows is based on each fellow’s level of training and ability, as well as patient complexity and acuity. Supervision may be exercised through a variety of methods, as appropriate to the situation. (Core)</b>
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1709	<b>VI.A.2.c)</b>	<b>Levels of Supervision</b>
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1711		<b>To promote oversight of fellow supervision while providing for graded authority and responsibility, the program must use the following classification of supervision: (Core)</b>
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1715	<b>VI.A.2.c).(1)</b>	<b>Direct Supervision – the supervising physician is physically present with the fellow and patient. (Core)</b>
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1718	<b>VI.A.2.c).(2)</b>	<b>Indirect Supervision:</b>
1719		
1720	<b>VI.A.2.c).(2).(a)</b>	<b>with Direct Supervision immediately available – the supervising physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision. (Core)</b>
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1726	<b>VI.A.2.c).(2).(b)</b>	<b>with Direct Supervision available – the supervising physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision. (Core)</b>
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1733	<b>VI.A.2.c).(3)</b>	<b>Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. (Core)</b>
1734		
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1737	<b>VI.A.2.d)</b>	<b>The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each fellow must be assigned by the program director and faculty members. (Core)</b>
1738		
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1742	<b>VI.A.2.d).(1)</b>	<b>The program director must evaluate each fellow’s abilities based on specific criteria, guided by the Milestones. (Core)</b>
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1746	<b>VI.A.2.d).(2)</b>	<b>Faculty members functioning as supervising physicians must delegate portions of care to fellows</b>
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1748 based on the needs of the patient and the skills of  
1749 each fellow. <sup>(Core)</sup>

1750  
1751 VI.A.2.d).(3) Fellows should serve in a supervisory role to junior  
1752 fellows and residents in recognition of their progress  
1753 toward independence, based on the needs of each  
1754 patient and the skills of the individual resident or  
1755 fellow. <sup>(Detail)</sup>

1756  
1757 VI.A.2.e) Programs must set guidelines for circumstances and events  
1758 in which fellows must communicate with the supervising  
1759 faculty member(s). <sup>(Core)</sup>

1760  
1761 VI.A.2.e).(1) Each fellow must know the limits of their scope of  
1762 authority, and the circumstances under which the  
1763 fellow is permitted to act with conditional  
1764 independence. <sup>(Outcome)</sup>

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

1766  
1767 VI.A.2.f) Faculty supervision assignments must be of sufficient  
1768 duration to assess the knowledge and skills of each fellow  
1769 and to delegate to the fellow the appropriate level of patient  
1770 care authority and responsibility. <sup>(Core)</sup>

1771  
1772 VI.B. Professionalism

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1774 VI.B.1. Programs, in partnership with their Sponsoring Institutions, must  
1775 educate fellows and faculty members concerning the professional  
1776 responsibilities of physicians, including their obligation to be  
1777 appropriately rested and fit to provide the care required by their  
1778 patients. <sup>(Core)</sup>

1779  
1780 VI.B.2. The learning objectives of the program must:

1781  
1782 VI.B.2.a) be accomplished through an appropriate blend of supervised  
1783 patient care responsibilities, clinical teaching, and didactic  
1784 educational events; <sup>(Core)</sup>

1785  
1786 VI.B.2.b) be accomplished without excessive reliance on fellows to  
1787 fulfill non-physician obligations; and, <sup>(Core)</sup>

1788

**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)

- 1819 VI.B.4.e) monitoring of their patient care performance improvement  
 1820 indicators; and, <sup>(Outcome)</sup>  
 1821
- 1822 VI.B.4.f) accurate reporting of clinical and educational work hours,  
 1823 patient outcomes, and clinical experience data. <sup>(Outcome)</sup>  
 1824
- 1825 VI.B.5. All fellows and faculty members must demonstrate responsiveness  
 1826 to patient needs that supersedes self-interest. This includes the  
 1827 recognition that under certain circumstances, the best interests of  
 1828 the patient may be served by transitioning that patient's care to  
 1829 another qualified and rested provider. <sup>(Outcome)</sup>  
 1830
- 1831 VI.B.6. Programs, in partnership with their Sponsoring Institutions, must  
 1832 provide a professional, equitable, respectful, and civil environment  
 1833 that is free from discrimination, sexual and other forms of  
 1834 harassment, mistreatment, abuse, or coercion of students, fellows,  
 1835 faculty, and staff. <sup>(Core)</sup>  
 1836
- 1837 VI.B.7. Programs, in partnership with their Sponsoring Institutions, should  
 1838 have a process for education of fellows and faculty regarding  
 1839 unprofessional behavior and a confidential process for reporting,  
 1840 investigating, and addressing such concerns. <sup>(Core)</sup>  
 1841
- 1842 VI.C. Well-Being  
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- 1844 *Psychological, emotional, and physical well-being are critical in the*  
 1845 *development of the competent, caring, and resilient physician and require*  
 1846 *proactive attention to life inside and outside of medicine. Well-being*  
 1847 *requires that physicians retain the joy in medicine while managing their*  
 1848 *own real life stresses. Self-care and responsibility to support other*  
 1849 *members of the health care team are important components of*  
 1850 *professionalism; they are also skills that must be modeled, learned, and*  
 1851 *nurtured in the context of other aspects of fellowship training.*  
 1852
- 1853 *Fellows and faculty members are at risk for burnout and depression.*  
 1854 *Programs, in partnership with their Sponsoring Institutions, have the same*  
 1855 *responsibility to address well-being as other aspects of resident*  
 1856 *competence. Physicians and all members of the health care team share*  
 1857 *responsibility for the well-being of each other. For example, a culture which*  
 1858 *encourages covering for colleagues after an illness without the expectation*  
 1859 *of reciprocity reflects the ideal of professionalism. A positive culture in a*  
 1860 *clinical learning environment models constructive behaviors, and prepares*  
 1861 *fellows with the skills and attitudes needed to thrive throughout their*  
 1862 *careers.*  
 1863

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

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

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

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

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

**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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1892 VI.C.1.e) attention to fellow and faculty member burnout, depression,  
1893 and substance abuse. The program, in partnership with its  
1894 Sponsoring Institution, must educate faculty members and  
1895 fellows in identification of the symptoms of burnout,  
1896 depression, and substance abuse, including means to assist  
1897 those who experience these conditions. Fellows and faculty  
1898 members must also be educated to recognize those  
1899 symptoms in themselves and how to seek appropriate care.  
1900 The program, in partnership with its Sponsoring Institution,  
1901 must: <sup>(Core)</sup>  
1902

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

1903  
1904 VI.C.1.e).(1) encourage fellows and faculty members to alert the  
1905 program director or other designated personnel or  
1906 programs when they are concerned that another  
1907 fellow, resident, or faculty member may be displaying  
1908 signs of burnout, depression, substance abuse,  
1909 suicidal ideation, or potential for violence; <sup>(Core)</sup>  
1910

**Background and Intent: Individuals experiencing burnout, depression, substance abuse, and/or suicidal ideation are often reluctant to reach out for help due to the stigma associated with these conditions, and are concerned that seeking help may have a negative impact on their career. Recognizing that physicians are at increased risk in these areas, it is essential that fellows and faculty members are able to report their concerns when another fellow or faculty member displays signs of any of these conditions, so that the program director or other designated personnel, such as the department chair, may assess the situation and intervene as necessary to facilitate access to appropriate care. Fellows and faculty members must know which personnel, in addition to the program director, have been designated with this responsibility; those personnel and the program director should be familiar with the institution's impaired physician policy and any employee health, employee assistance, and/or wellness programs within the institution. In cases of physician impairment, the program director or designated personnel should follow the policies of their institution for reporting.**

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1912 VI.C.1.e).(2) provide access to appropriate tools for self-screening;  
1913 and, <sup>(Core)</sup>

1914  
1915 VI.C.1.e).(3) provide access to confidential, affordable mental  
1916 health assessment, counseling, and treatment,  
1917 including access to urgent and emergent care 24  
1918 hours a day, seven days a week. <sup>(Core)</sup>  
1919

**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 may include non-physician health care professionals, such as medical assistants, specialized nurses, and technicians. <sup>(Detail)</sup> [Moved from VI.E.2.a)]
- 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>

1986	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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1991	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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1995	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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1999	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>
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2005	VI.F.	<p><b>Clinical Experience and Education</b></p> <p><i>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.</i></p>
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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.

2012	VI.F.1.	<p><b>Maximum Hours of Clinical and Educational Work per Week</b></p> <p>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></p>
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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.

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- VI.F.4.c)**                      **A Review Committee may grant rotation-specific exceptions for up to 10 percent or a maximum of 88 clinical and educational work hours to individual programs based on a sound educational rationale.**
- The Review Committee for Anesthesiology will not consider requests for exceptions to the 80-hour limit to the residents' work week.
- VI.F.4.c).(1)**                      **In preparing a request for an exception, the program director must follow the clinical and educational work hour exception policy from the *ACGME Manual of Policies and Procedures*. (Core)**
- VI.F.4.c).(2)**                      **Prior to submitting the request to the Review Committee, the program director must obtain approval from the Sponsoring Institution's GMEC and DIO. (Core)**

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

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

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

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



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Night float must occur within the context of the 80-hour and one-day-off-in-seven requirements. <sup>(Core)</sup>

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

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

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

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

**VI.F.8.a) Time spent on patient care activities by fellows on at-home call must count toward the 80-hour maximum weekly limit. The frequency of at-home call is not subject to the every-third-night limitation, but must satisfy the requirement for one day in seven free of clinical work and education, when averaged over four weeks. <sup>(Core)</sup>**

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

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

**Background and Intent: This requirement has been modified to specify that clinical work done from home when a fellow is taking at-home call must count toward the 80-hour maximum weekly limit. This change acknowledges the often significant amount of time fellows devote to clinical activities when taking at-home call, and ensures that taking at-home call does not result in fellows routinely working more than 80 hours per week. At-home call activities that must be counted include responding to phone calls and other forms of communication, as well as documentation, such as entering notes in an electronic health record. Activities such as reading about the next day's case, studying, or research activities do not count toward the 80-hour weekly limit.**

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

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

**†Detail Requirements:** Statements that describe a specific structure, resource, or process, for achieving compliance with a Core Requirement. Programs and sponsoring institutions in

2150 substantial compliance with the Outcome Requirements may utilize alternative or innovative  
2151 approaches to meet Core Requirements.  
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2153 ‡**Outcome Requirements:** Statements that specify expected measurable or observable  
2154 attributes (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their  
2155 graduate medical education.  
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2157 **Osteopathic Recognition**  
2158 For programs with or applying for Osteopathic Recognition, the Osteopathic Recognition  
2159 Requirements also apply ([www.acgme.org/OsteopathicRecognition](http://www.acgme.org/OsteopathicRecognition)).  
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