



Accreditation Council for
Graduate Medical Education

**ACGME Program Requirements for
Graduate Medical Education
in Clinical Informatics
(Subspecialty of Anesthesiology,
Emergency Medicine, Medical Genetics, Pathology,
Pediatrics, or Preventive Medicine)**

1 **ACGME Program Requirements for Graduate Medical Education**
2 **in Clinical Informatics**

3
4 **Introduction**

5
6 **Int.A. Residency is an essential dimension of the transformation of the medical**
7 **student to the independent practitioner along the continuum of medical**
8 **education. It is physically, emotionally, and intellectually demanding, and**
9 **requires longitudinally-concentrated effort on the part of the resident.**

10
11 **The specialty education of physicians to practice independently is**
12 **experiential, and necessarily occurs within the context of the health care**
13 **delivery system. Developing the skills, knowledge, and attitudes leading to**
14 **proficiency in all the domains of clinical competency requires the fellow**
15 **physician to assume personal responsibility for the care of individual**
16 **patients. For the fellow, the essential learning activity is interaction with**
17 **patients under the guidance and supervision of faculty members who give**
18 **value, context, and meaning to those interactions. As fellows gain**
19 **experience and demonstrate growth in their ability to care for patients, they**
20 **assume roles that permit them to exercise those skills with greater**
21 **independence. This concept--graded responsibility and progressive**
22 **responsibility--is one of the core tenets of American graduate medical**
23 **education. Supervision in the setting of graduate medical education has**
24 **the goals of assuring the provision of safe and effective care to the**
25 **individual patient; assuring each resident's development of the skills,**
26 **knowledge, and attitudes required to enter the unsupervised practice of**
27 **medicine; and establishing a foundation for continued professional growth.**

28
29 **Int.B. Clinical informatics is the subspecialty of all medical specialties that transforms**
30 **health care by analyzing, designing, implementing, and evaluating information**
31 **and communication systems to improve patient care, enhance access to care,**
32 **advance individual and population health outcomes, and strengthen the clinician-**
33 **patient relationship.**

34
35 **Physicians who practice clinical informatics draw from the broader field of**
36 **biomedical and health informatics as they apply informatics methods, concepts,**
37 **and tools to the practice of medicine. Thus, they must understand the culture,**
38 **boundaries, and complexities of the field. Further, the stakeholders, structures,**
39 **and processes that constitute the health system affect the information and**
40 **knowledge needs of health care professionals and influence the selection and**
41 **implementation of clinical information processes and systems.**

42
43 **Physicians who practice clinical informatics collaborate with other health care**
44 **and information technology professionals and provide consultative services that**
45 **use their knowledge of patient care combined with their understanding of**
46 **informatics concepts, methods, and tools to improve clinical practice by:**

47
48 **Int.B.1. leading initiatives designed to enhance health care quality and access**
49 **through the procurement, customization, development, implementation,**
50 **management, evaluation, and continuous improvement of clinical**
51 **information systems;**

- 52
 53 Int.B.2. securing the legal and ethical use of clinical information;
 54
 55 Int.B.3. assessing information and knowledge needs of health care professionals
 56 and patients;
 57
 58 Int.B.4. characterizing, evaluating, and refining clinical processes;
 59
 60 Int.B.5. analyzing, developing, implementing, and refining clinical decision
 61 support systems; and,
 62
 63 Int.B.6. participating in projects designed to use technology to promote patient
 64 care that is safe, efficient, effective, timely patient-centered and equitable.
 65
 66 Int.C. The educational program in clinical informatics must be 24 months in length. ^(Core)
 67
 68 Int.C.1. Fellows must complete the program within 48 months of matriculation.
 69 ^(Core)
 70

71 **I. Institutions**

72
 73 **I.A. Sponsoring Institution**

74
 75 **One sponsoring institution must assume ultimate responsibility for the**
 76 **program, as described in the Institutional Requirements, and this**
 77 **responsibility extends to fellow assignments at all participating sites.** ^{(Core)*}
 78

79 **The sponsoring institution and the program must ensure that the program**
 80 **director has sufficient protected time and financial support for his or her**
 81 **educational and administrative responsibilities to the program.** ^(Core)
 82

83 I.A.1. A clinical informatics fellowship must function as an integral part of an
 84 Accreditation Council for Graduate Medical Education (ACGME)-
 85 accredited residency program in anesthesiology, emergency medicine,
 86 medical genetics, pathology, pediatrics, or preventive medicine. ^(Core)
 87

88 I.A.2. There must be an institutional policy governing the educational resources
 89 committed to the fellowship that ensures collaboration among multiple
 90 disciplines and professions involved in educating fellows. ^(Core)
 91

92 I.A.3. There may be only one ACGME-accredited clinical informatics program
 93 within a sponsoring institution. ^(Detail)
 94

95 **I.B. Participating Sites**

96
 97 **I.B.1. There must be a program letter of agreement (PLA) between the**
 98 **program and each participating site providing a required**
 99 **assignment. The PLA must be renewed at least every five years.**
 100 ^(Detail)

101
 102 **The PLA should:**

- 103
104 **I.B.1.a)** identify the faculty who will assume both educational and
105 supervisory responsibilities for fellows; ^(Detail)
106
107 **I.B.1.b)** specify their responsibilities for teaching, supervision, and
108 formal evaluation of fellows, as specified later in this
109 document; ^(Detail)
110
111 **I.B.1.c)** specify the duration and content of the educational
112 experience; and, ^(Detail)
113
114 **I.B.1.d)** state the policies and procedures that will govern fellow
115 education during the assignment. ^(Detail)
116
117 **I.B.2.** The program director must submit any additions or deletions of
118 participating sites routinely providing an educational experience,
119 required for all fellows, of one month full time equivalent (FTE) or
120 more through the Accreditation Council for Graduate Medical
121 Education (ACGME) Accreditation Data System (ADS). ^(Core)
122
123 **II. Program Personnel and Resources**
124
125 **II.A. Program Director**
126
127 **II.A.1.** There must be a single program director with authority and
128 accountability for the operation of the program. The sponsoring
129 institution's GMEC must approve a change in program director. ^(Core)
130
131 **II.A.1.a)** The program director must submit this change to the ACGME
132 via the ADS. ^(Core)
133
134 **II.A.2.** The program director should continue in his or her position for a
135 length of time adequate to maintain continuity of leadership and
136 program stability. ^(Detail)
137
138 **II.A.3.** Qualifications of the program director must include:
139
140 **II.A.3.a)** requisite specialty expertise and documented educational
141 and administrative experience acceptable to the Review
142 Committee; ^(Core)
143
144 **II.A.3.b)** current certification in the subspecialty of clinical informatics
145 by a member board of the American Board of Medical
146 Specialties, or subspecialty qualifications that are acceptable
147 to the Review Committee; ^(Core)
148
149 **II.A.3.c)** current medical licensure and appropriate medical staff
150 appointment; and, ^(Core)
151
152 **II.A.3.d)** at least five years of experience in clinical informatics. ^(Detail)
153

- 154 **II.A.4.** **The program director must administer and maintain an educational**
155 **environment conducive to educating the fellows in each of the**
156 **ACGME competency areas.** ^(Core)
157
158 **The program director must:**
159
160 **II.A.4.a)** **oversee and ensure the quality of didactic and clinical**
161 **education in all sites that participate in the program;** ^(Core)
162
163 **II.A.4.b)** **approve a local director at each participating site who is**
164 **accountable for fellow education;** ^(Core)
165
166 **II.A.4.c)** **approve the selection of program faculty as appropriate;** ^(Core)
167
168 **II.A.4.d)** **evaluate program faculty;** ^(Core)
169
170 **II.A.4.e)** **approve the continued participation of program faculty based**
171 **on evaluation;** ^(Core)
172
173 **II.A.4.f)** **monitor fellow supervision at all participating sites;** ^(Core)
174
175 **II.A.4.g)** **prepare and submit all information required and requested by**
176 **the ACGME;** ^(Core)
177
178 **II.A.4.g).(1)** **This includes but is not limited to the program**
179 **information forms and annual program fellow updates**
180 **to the ADS, and ensure that the information submitted**
181 **is accurate and complete.** ^(Core)
182
183 **II.A.4.h)** **ensure compliance with grievance and due process**
184 **procedures as set forth in the Institutional Requirements and**
185 **implemented by the sponsoring institution;** ^(Detail)
186
187 **II.A.4.i)** **provide verification of fellowship education for all fellows,**
188 **including those who leave the program prior to completion;**
189 ^(Detail)
190
191 **II.A.4.j)** **implement policies and procedures consistent with the**
192 **institutional and program requirements for fellow duty hours**
193 **and the working environment, including moonlighting,** ^(Core)
194
195 **II.A.4.j).(1)** **and, to that end, must:**
196
197 **II.A.4.j).(2)** **distribute these policies and procedures to the fellows**
198 **and faculty;** ^(Detail)
199
200 **II.A.4.j).(3)** **monitor fellow duty hours, according to sponsoring**
201 **institutional policies, with a frequency sufficient to**
202 **ensure compliance with ACGME requirements;** ^(Core)
203
204 **II.A.4.j).(4)** **adjust schedules as necessary to mitigate excessive**

205		service demands and/or fatigue; and, ^(Detail)
206		
207	II.A.4.j).(5)	if applicable, monitor the demands of at-home call and
208		adjust schedules as necessary to mitigate excessive
209		service demands and/or fatigue. ^(Detail)
210		
211	II.A.4.k)	monitor the need for and ensure the provision of back up
212		support systems when patient care responsibilities are
213		unusually difficult or prolonged; ^(Detail)
214		
215	II.A.4.l)	comply with the sponsoring institution’s written policies and
216		procedures, including those specified in the Institutional
217		Requirements, for selection, evaluation and promotion of
218		fellows, disciplinary action, and supervision of fellows; ^(Detail)
219		
220	II.A.4.m)	be familiar with and comply with ACGME and Review
221		Committee policies and procedures as outlined in the ACGME
222		Manual of Policies and Procedures; ^(Detail)
223		
224	II.A.4.n)	obtain review and approval of the sponsoring institution’s
225		GMEC/DIO before submitting information or requests to the
226		ACGME, including: ^(Core)
227		
228	II.A.4.n).(1)	all applications for ACGME accreditation of new
229		programs; ^(Detail)
230		
231	II.A.4.n).(2)	changes in fellow complement; ^(Detail)
232		
233	II.A.4.n).(3)	major changes in program structure or length of
234		training; ^(Detail)
235		
236	II.A.4.n).(4)	progress reports requested by the Review Committee;
237		^(Detail)
238		
239	II.A.4.n).(5)	responses to all proposed adverse actions; ^(Detail)
240		
241	II.A.4.n).(6)	requests for increases or any change to fellow duty
242		hours; ^(Detail)
243		
244	II.A.4.n).(7)	voluntary withdrawals of ACGME-accredited
245		programs; ^(Detail)
246		
247	II.A.4.n).(8)	requests for appeal of an adverse action; ^(Detail)
248		
249	II.A.4.n).(9)	appeal presentations to a Board of Appeal or the
250		ACGME; and, ^(Detail)
251		
252	II.A.4.n).(10)	proposals to ACGME for approval of innovative
253		educational approaches. ^(Detail)
254		
255	II.A.4.o)	obtain DIO review and co-signature on all program

- 256 information forms, as well as any correspondence or
 257 document submitted to the ACGME that addresses: ^(Detail)
 258
- 259 **II.A.4.o).(1)** program citations, and/or, ^(Detail)
 260
- 261 **II.A.4.o).(2)** request for changes in the program that would have
 262 significant impact, including financial, on the program
 263 or institution. ^(Detail)
 264
- 265 **II.B. Faculty**
 266
- 267 **II.B.1. At each participating site, there must be a sufficient number of**
 268 **faculty with documented qualifications to instruct and supervise all**
 269 **fellows at that location.** ^(Core)
 270
- 271 **II.B.1.a)** In addition to the program director, there must be at least two
 272 faculty members. ^(Core)
 273
- 274 **II.B.1.a).(1)** The faculty members and program director should equal at
 275 least two FTE. ^(Detail)
 276
- 277 **The faculty must:**
 278
- 279 **II.B.1.b) devote sufficient time to the educational program to fulfill**
 280 **their supervisory and teaching responsibilities; and to**
 281 **demonstrate a strong interest in the education of fellows, and**
 282 ^(Core)
 283
- 284 **II.B.1.c) administer and maintain an educational environment**
 285 **conducive to educating fellows in each of the ACGME**
 286 **competency areas.** ^(Core)
 287
- 288 **II.B.2. The physician faculty must have current certification in the**
 289 **subspecialty of clinical informatics by a member board of the American**
 290 **Board of Medical Specialties (ABMS), or possess qualifications**
 291 **judged acceptable to the Review Committee.** ^(Core)
 292
- 293 **II.B.2.a).(1)** At least one of the physician faculty members must be
 294 certified in clinical informatics by a member board of the
 295 ABMS. ^(Core)
 296
- 297 **II.B.3. The physician faculty must possess current medical licensure and**
 298 **appropriate medical staff appointment.** ^(Core)
 299
- 300 **II.B.4. The nonphysician faculty must have appropriate qualifications in**
 301 **their field and hold appropriate institutional appointments.** ^(Core)
 302
- 303 **II.B.5. The faculty must establish and maintain an environment of inquiry**
 304 **and scholarship with an active research component.** ^(Core)
 305
- 306 **II.B.5.a) The faculty must regularly participate in organized clinical**

- 307 **discussions, rounds, journal clubs, and conferences.** ^(Detail)
308
309 **II.B.5.b) Some members of the faculty should also demonstrate**
310 **scholarship by one or more of the following:**
311
312 **II.B.5.b).(1) peer-reviewed funding;** ^(Detail)
313
314 **II.B.5.b).(2) publication of original research or review articles in**
315 **peer-reviewed journals, or chapters in textbooks;** ^(Detail)
316
317 **II.B.5.b).(3) publication or presentation of case reports or clinical**
318 **series at local, regional, or national professional and**
319 **scientific society meetings; or,** ^(Detail)
320
321 **II.B.5.b).(4) participation in national committees or educational**
322 **organizations.** ^(Detail)
323
324 **II.B.5.c) Faculty should encourage and support fellows in scholarly**
325 **activities.** ^(Core)
326
327 **II.C. Other Program Personnel**
328
329 **The institution and the program must jointly ensure the availability of all**
330 **necessary professional, technical, and clerical personnel for the effective**
331 **administration of the program.** ^(Core)
332
333 **II.C.1. Administrative support must include a program coordinator to provide**
334 **adequate administrative and technological support to the fellowship.** ^(Detail)
335
336 **II.D. Resources**
337
338 **The institution and the program must jointly ensure the availability of**
339 **adequate resources for fellow education, as defined in the specialty**
340 **program requirements.** ^(Core)
341
342 **II.D.1. There must be space and equipment for the educational program,**
343 **including meeting rooms, classrooms, computers, Internet access, visual**
344 **and other educational aids, and work/study space.** ^(Detail)
345
346 **II.D.2. The primary clinical site must operate a clinical information system that is**
347 **able to:** ^(Core)
348
349 **II.D.2.a) collect, store, retrieve, and manage health and wellness data and**
350 **information;** ^(Core)
351
352 **II.D.2.b) provide clinical decision support; and,** ^(Core)
353
354 **II.D.2.c) support ambulatory, inpatient, and remote care settings, as**
355 **needed.** ^(Core)
356
357 **II.E. Medical Information Access**

358
359 **Fellows must have ready access to specialty-specific and other appropriate**
360 **reference material in print or electronic format. Electronic medical literature**
361 **databases with search capabilities should be available.** ^(Detail)
362

363 **III. Fellow Appointments**

364
365 **III.A. Eligibility Criteria**

366
367 **The program director must comply with the criteria for fellow eligibility as**
368 **specified in the Institutional Requirements.** ^(Core)
369

370 **III.A.1. Prior to appointment in the program, each fellow must have successfully**
371 **completed an ACGME-accredited residency program.** ^(Core)
372

373 **III.B. Number of Fellows**

374
375 **The program's educational resources must be adequate to support the**
376 **number of fellows appointed to the program.** ^(Core)
377

378 **III.B.1. The program director may not appoint more fellows than approved**
379 **by the Review Committee, unless otherwise stated in the specialty-**
380 **specific requirements.** ^(Core)
381

382 **III.C. Fellow Transfers**

383
384 **III.C.1. Before accepting a fellow who is transferring from another program,**
385 **the program director must obtain written or electronic verification of**
386 **previous educational experiences and a summative competency-**
387 **based performance evaluation of the transferring fellow.** ^(Detail)
388

389 **III.C.2. A program director must provide timely verification of fellowship**
390 **education and summative performance evaluations for fellows who**
391 **may leave the program prior to completion.** ^(Detail)
392

393 **III.D. Appointment of Fellows and Other Learners**

394
395 **The presence of other learners (including, but not limited to, residents from**
396 **other specialties, subspecialty fellows, PhD students, and nurse**
397 **practitioners) in the program must not interfere with the appointed fellows'**
398 **education.** ^(Core)
399

400 **III.D.1. The program director must report the presence of other learners to**
401 **the DIO and GMEC in accordance with sponsoring institution**
402 **guidelines.** ^(Detail)
403

404 **IV. Educational Program**

405
406 **IV.A. The curriculum must contain the following educational components:**

407
408 **IV.A.1. Overall educational goals for the program, which the program must**

409		make available to fellows and faculty; ^(Core)
410		
411	IV.A.2.	Competency-based goals and objectives for each assignment at
412		each educational level, which the program must distribute to fellows
413		and faculty at least annually, in either written or electronic form; ^(Core)
414		
415	IV.A.3.	Regularly scheduled didactic sessions; ^(Core)
416		
417	IV.A.4.	Delineation of fellow responsibilities for patient care, progressive
418		responsibility for patient management, and supervision of fellows
419		over the continuum of the program; and, ^(Core)
420		
421	IV.A.5.	ACGME Competencies
422		
423		The program must integrate the following ACGME competencies
424		into the curriculum: ^(Core)
425		
426	IV.A.5.a)	Patient Care and Procedural Skills
427		
428	IV.A.5.a).(1)	Fellows must be able to provide patient care that is
429		compassionate, appropriate, and effective for the
430		treatment of health problems and the promotion of
431		health. Fellows must: ^(Outcome)
432		
433	IV.A.5.a).(1).(a)	demonstrate competence in the leverage of
434		information and communication technology to:
435		^(Outcome)
436		
437	IV.A.5.a).(1).(a).(i)	use informatics across the dimensions of
438		health care: health promotion, disease
439		prevention, diagnosis, and treatment of
440		individuals and their families across the
441		lifespan;
442		
443	IV.A.5.a).(1).(a).(ii)	use informatics tools to improve
444		assessment, interdisciplinary care planning,
445		management, coordination, and follow-up of
446		patients;
447		
448	IV.A.5.a).(1).(a).(iii)	use informatics tools, such as electronic
449		health records or personal health records, to
450		facilitate the coordination and
451		documentation of key events in patient care,
452		such as family communication, consultation
453		around goals of care, immunizations,
454		advance directive completion, and
455		involvement of multiple team members as
456		appropriate; and,
457		
458	IV.A.5.a).(1).(a).(iv)	use informatics tools to promote
459		confidentiality and security of patient data.

460		(Outcome)
461		
462	IV.A.5.a).(1).(b)	demonstrate skill in fundamental programming, data base design, and user interface design; (Outcome)
463		
464		
465		
466	IV.A.5.a).(1).(c)	demonstrate competence in the identification of changes needed in organizational processes and clinician practices to optimize health system operational effectiveness; (Outcome)
467		
468		
469		
470		
471	IV.A.5.a).(1).(d)	demonstrate competence in the analysis of patient care workflow and processes to identify information system features that will support improved quality, efficiency, effectiveness, and safety of clinical services; (Outcome)
472		
473		
474		
475		
476		
477	IV.A.5.a).(1).(e)	demonstrate competence in the assessment of user needs for a clinical information or telecommunication system or application; (Outcome)
478		
479		
480		
481	IV.A.5.a).(1).(f)	combine an understanding of informatics concepts, methods, and tools to develop, implement, and refine clinical decision support systems; and, (Outcome)
482		
483		
484		
485		
486	IV.A.5.a).(1).(g)	evaluate the impact of information system implementation and use on patient care and users. (Outcome)
487		
488		
489		
490	IV.A.5.a).(2)	Fellows must be able to competently perform all medical, diagnostic, and surgical procedures considered essential for the area of practice. (Outcome)
491		
492		
493		
494	IV.A.5.b)	Medical Knowledge
495		
496		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. Fellows: (Outcome)
497		
498		
499		
500		
501		must demonstrate knowledge of:
502		
503	IV.A.5.b).(1)	fundamental informatics vocabulary, concepts, models, and theories; (Outcome)
504		
505		
506	IV.A.5.b).(2)	the health care environment, to include how business processes and financial considerations, including resourcing information technology, influence health care delivery and the flow of data among the major domains of the health system; (Outcome)
507		
508		
509		
510		

511		
512	IV.A.5.b).(3)	how information systems and processes enhance or
513		compromise the decision making and actions of health
514		care team members; ^(Outcome)
515		
516	IV.A.5.b).(4)	process improvement or change management for health
517		care processes; ^(Outcome)
518		
519	IV.A.5.b).(5)	fundamental information system concepts, including
520		project management, the life cycle of information systems,
521		the constantly evolving capabilities of information
522		technology and health care, and the technical and non-
523		technical issues surrounding system implementation;
524		^(Outcome)
525		
526	IV.A.5.b).(6)	the impact of clinical information systems on users and
527		patients; ^(Outcome)
528		
529	IV.A.5.b).(7)	strategies to support clinician users and promote clinician
530		adoption of systems; ^(Outcome)
531		
532	IV.A.5.b).(8)	clinical decision support, use, and implementation; ^(Outcome)
533		
534	IV.A.5.b).(9)	evaluation of information systems to provide feedback for
535		system improvement; ^(Outcome)
536		
537	IV.A.5.b).(10)	leadership in organizational change, fostering
538		collaboration, communicating effectively, and managing
539		large scale projects related to clinical information systems;
540		and, ^(Outcome)
541		
542	IV.A.5.b).(11)	risk management and mitigation related to patient safety
543		and privacy. ^(Outcome)
544		
545	IV.A.5.c)	Practice-based Learning and Improvement
546		
547		Fellows must demonstrate the ability to investigate and
548		evaluate their care of patients, to appraise and assimilate
549		scientific evidence, and to continuously improve patient care
550		based on constant self-evaluation and life-long learning.
551		^(Outcome)
552		
553		Fellows are expected to develop skills and habits to be able
554		to meet the following goals:
555		
556	IV.A.5.c).(1)	identify strengths, deficiencies, and limits in one's
557		knowledge and expertise; ^(Outcome)
558		
559	IV.A.5.c).(2)	set learning and improvement goals; ^(Outcome)
560		
561	IV.A.5.c).(3)	identify and perform appropriate learning activities;

562		(Outcome)
563		
564	IV.A.5.c).(4)	systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement; (Outcome)
565		
566		
567		
568	IV.A.5.c).(5)	incorporate formative evaluation feedback into daily practice; (Outcome)
569		
570		
571	IV.A.5.c).(6)	locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems; (Outcome)
572		
573		
574		
575	IV.A.5.c).(7)	use information technology to optimize learning; and, (Outcome)
576		
577		
578	IV.A.5.c).(8)	participate in the education of patients, families, students, fellows and other health professionals. (Outcome)
579		
580		
581		
582	IV.A.5.d)	Interpersonal and Communication Skills
583		
584		
585		Fellows must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals. (Outcome)
586		
587		
588		
589		Fellows are expected to:
590		
591	IV.A.5.d).(1)	communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds; (Outcome)
592		
593		
594		
595	IV.A.5.d).(2)	communicate effectively with physicians, other health professionals and health related agencies; (Outcome)
596		
597		
598	IV.A.5.d).(2).(a)	Fellows must demonstrate the ability to serve as a liaison between information technology professionals, administrators, and clinicians. (Outcome)
599		
600		
601		
602	IV.A.5.d).(3)	work effectively as a member or leader of a health care team or other professional group; (Outcome)
603		
604		
605	IV.A.5.d).(4)	act in a consultative role to other physicians and health professionals; and, (Outcome)
606		
607		
608	IV.A.5.d).(5)	maintain comprehensive, timely, and legible medical records, if applicable. (Outcome)
609		
610		
611	IV.A.5.e)	Professionalism
612		

613 **Fellows must demonstrate a commitment to carrying out**
614 **professional responsibilities and an adherence to ethical**
615 **principles.** ^(Outcome)

616
617 **Fellows are expected to demonstrate:**

618
619 **IV.A.5.e).(1)** **compassion, integrity, and respect for others;** ^(Outcome)

620
621 **IV.A.5.e).(2)** **responsiveness to patient needs that supersedes self-**
622 **interest;** ^(Outcome)

623
624 **IV.A.5.e).(3)** **respect for patient privacy and autonomy;** ^(Outcome)

625
626 **IV.A.5.e).(4)** **accountability to patients, society and the profession;**
627 ^(Outcome)

628
629 **IV.A.5.e).(4).(a)** **Fellows must demonstrate the ability to recognize**
630 **the causes and prevention of security breaches and**
631 **their consequences to the individual, system,**
632 **organization, and society at large.** ^(Outcome)

633
634 **IV.A.5.e).(5)** **sensitivity and responsiveness to a diverse patient**
635 **population, including but not limited to diversity in**
636 **gender, age, culture, race, religion, disabilities, and**
637 **sexual orientation; and,** ^(Outcome)

638
639 **IV.A.5.e).(6)** **sensitivity to the impact information system changes have**
640 **on practice patterns and physician-patient relations.** ^(Outcome)

641
642 **IV.A.5.f)** **Systems-based Practice**

643
644 **Fellows must demonstrate an awareness of and**
645 **responsiveness to the larger context and system of health**
646 **care, as well as the ability to call effectively on other**
647 **resources in the system to provide optimal health care.**
648 ^(Outcome)

649
650 **Fellows are expected to:**

651
652 **IV.A.5.f).(1)** **work effectively in various health care delivery**
653 **settings and systems relevant to their clinical**
654 **specialty;** ^(Outcome)

655
656 **IV.A.5.f).(2)** **coordinate patient care within the health care system**
657 **relevant to their clinical specialty;** ^(Outcome)

658
659 **IV.A.5.f).(3)** **incorporate considerations of cost awareness and**
660 **risk-benefit analysis in patient and/or population-**
661 **based care as appropriate;** ^(Outcome)

662
663 **IV.A.5.f).(4)** **advocate for quality patient care and optimal patient**

664		care systems; ^(Outcome)
665		
666	IV.A.5.f).(5)	work in interprofessional teams to enhance patient safety and improve patient care quality; ^(Outcome)
667		
668		
669	IV.A.5.f).(6)	participate in identifying system errors and implementing potential systems solutions; ^(Outcome)
670		
671		
672	IV.A.5.f).(6).(a)	Fellows must demonstrate the ability to recognize one's own role and the role of systems in prevention and disclosure of medical error. ^(Outcome)
673		
674		
675		
676	IV.A.5.f).(7)	identify, evaluate, and implement systems improvement based on clinical practice or patient and family satisfaction data in personal practice, in team practice, and within institutional settings; ^(Outcome)
677		
678		
679		
680		
681	IV.A.5.f).(8)	demonstrate knowledge of the various settings and related structures for organizing, regulating, and financing care for patients; ^(Outcome)
682		
683		
684		
685	IV.A.5.f).(9)	analyze the impact of business strategies on information technology; ^(Outcome)
686		
687		
688	IV.A.5.f).(10)	analyze patient care workflow and processes; ^(Outcome)
689		
690	IV.A.5.f).(11)	identify information system features that will support improved quality, efficiency, effectiveness, and safety of clinical services; ^(Outcome)
691		
692		
693		
694	IV.A.5.f).(12)	analyze systems for potential unintended consequences of changes; and, ^(Outcome)
695		
696		
697	IV.A.5.f).(13)	demonstrate awareness of issues related to patient privacy. ^(Outcome)
698		
699		
700	IV.A.6.	Curriculum Organization and Fellow Experiences
701		
702	IV.A.6.a)	Fellows must participate in planning and in conducting conferences. ^(Detail)
703		
704		
705	IV.A.6.b)	Fellows must have clearly defined, written descriptions of responsibilities and a reporting structure for all educational assignments. ^(Core)
706		
707		
708		
709	IV.A.6.c)	Educational assignments must be designed to provide fellows with exposure to different types of clinical and health information systems. ^(Core)
710		
711		
712		
713	IV.A.6.d)	Educational assignments should have a particular focus (or foci), such as: ^(Detail)
714		

715		
716	IV.A.6.d).(1)	bioinformatics/computational biology; ^(Detail)
717		
718	IV.A.6.d).(2)	laboratory information systems/pathology informatics; ^(Detail)
719		
720	IV.A.6.d).(3)	remote systems/telemedicine; ^(Detail)
721		
722	IV.A.6.d).(4)	algorithm development; ^(Detail)
723		
724	IV.A.6.d).(5)	diagnostics; ^(Detail)
725		
726	IV.A.6.d).(6)	imaging; ^(Detail)
727		
728	IV.A.6.d).(7)	public health informatics; ^(Detail)
729		
730	IV.A.6.d).(8)	clinical translational research; ^(Detail)
731		
732	IV.A.6.d).(9)	regulatory informatics; ^(Detail)
733		
734	IV.A.6.d).(10)	information technology business strategy and management; ^(Detail)
735		
736		
737	IV.A.6.d).(11)	data organization/user interface; and, ^(Detail)
738		
739	IV.A.6.d).(12)	specialty-specific focus. ^(Detail)
740		
741	IV.A.6.e)	Educational assignments should be conducted within at least three of the following settings: inpatient, ambulatory, remote applications, government agencies, industry, health record banking, or consulting firms. ^(Detail)
742		
743		
744		
745		
746	IV.A.6.f)	Each fellow must have an individualized learning plan that is specific to his or her primary specialty. ^(Core)
747		
748		
749	IV.A.6.g)	Fellows should have long-term assignments to integrate their knowledge and prior experience in a clinical setting that poses real-world clinical informatics challenges. ^(Core)
750		
751		
752		
753	IV.A.6.g).(1)	Each fellow must participate as a member of at least one interdisciplinary team that is addressing clinical informatics needs for the health system. ^(Core)
754		
755		
756		
757	IV.A.6.g).(1).(a)	This experience must include analyzing issues, planning, and implementing recommendations from the team. ^(Detail)
758		
759		
760		
761	IV.A.6.g).(1).(b)	The interdisciplinary team should include physicians, nurses, other health care professionals, administrators, and information technology/system personnel. ^(Detail)
762		
763		
764		
765		

766	IV.A.6.g).(1).(c)	Each fellow should be an active participant in a team or teams for at least 12 months. ^(Detail)
767		
768		
769	IV.A.6.h)	Fellows should spend at least one half-day per week maintaining their skills in their primary specialty areas. ^(Detail)
770		
771		
772	IV.A.6.h).(1)	The program should not require that the fellows provide more than, on average, 12 hours per week in clinical practice outside the requirements of the clinical informatics program. ^(Detail)
773		
774		
775		
776		
777	IV.B.	Fellows' Scholarly Activities
778		
779	IV.B.1.	The curriculum must advance fellows' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care. ^(Core)
780		
781		
782		
783	IV.B.2.	Fellows should participate in scholarly activity. ^(Core)
784		
785	IV.B.3.	The sponsoring institution and program should allocate adequate educational resources to facilitate fellow involvement in scholarly activities. ^(Detail)
786		
787		
788		
789	V.	Evaluation
790		
791	V.A.	Fellow Evaluation
792		
793	V.A.1.	The program director must appoint the Clinical Competency Committee. ^(Core)
794		
795		
796	V.A.1.a)	At a minimum the Clinical Competency Committee must be composed of three members of the program faculty. ^(Core)
797		
798		
799	V.A.1.a).(1)	Others eligible for appointment to the committee include faculty from other programs and non-physician members of the health care team. ^(Detail)
800		
801		
802		
803	V.A.1.b)	There must be a written description of the responsibilities of the Clinical Competency Committee. ^(Core)
804		
805		
806	V.A.1.b).(1)	The Clinical Competency Committee should:
807		
808	V.A.1.b).(1).(a)	review all resident evaluations semi-annually; ^(Core)
809		
810		
811	V.A.1.b).(1).(b)	prepare and assure the reporting of Milestones evaluations of each resident semi-annually to ACGME; and, ^(Core)
812		
813		
814		

815	V.A.1.b).(1).(c)	advise the program director regarding resident progress, including promotion, remediation, and dismissal. ^(Detail)
816		
817		
818		
819	V.A.2.	Formative Evaluation
820		
821	V.A.2.a)	The faculty must evaluate fellow performance in a timely manner during each rotation or similar educational assignment, and document this evaluation at completion of the assignment. ^(Core)
822		
823		
824		
825		
826	V.A.2.b)	The program must:
827		
828	V.A.2.b).(1)	provide objective assessments of competence in patient care and procedural skills, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice based on the specialty-specific Milestones; ^(Core)
829		
830		
831		
832		
833		
834		
835	V.A.2.b).(2)	use multiple evaluators (e.g., faculty, peers, patients, self, and other professional staff); ^(Detail)
836		
837		
838	V.A.2.b).(3)	document progressive fellow performance improvement appropriate to educational level; and, ^(Core)
839		
840		
841		
842	V.A.2.b).(4)	provide each fellow with documented semiannual evaluation of performance with feedback. ^(Core)
843		
844		
845	V.A.2.b).(4).(a)	The semiannual evaluation should include review of an individualized learning e-portfolio, which may include IT applications used, projects participated in, presentations given, team/committee work, courses taken, externships, or other educational product. ^(Detail)
846		
847		
848		
849		
850		
851		
852	V.A.2.c)	The evaluations of fellow performance must be accessible for review by the fellow, in accordance with institutional policy. ^(Detail)
853		
854		
855		
856	V.A.3.	Summative Evaluation
857		
858	V.A.3.a)	The specialty-specific Milestones must be used as one of the tools to ensure fellows are able to practice core professional activities without supervision upon completion of the program. ^(Core)
859		
860		
861		
862		
863	V.A.3.b)	The program director must provide a summative evaluation for each fellow upon completion of the program. ^(Core)
864		
865		

- 866 **This evaluation must:**
- 867
- 868 **V.A.3.b).(1)** **become part of the fellow’s permanent record**
- 869 **maintained by the institution, and must be accessible**
- 870 **for review by the fellow in accordance with**
- 871 **institutional policy;** ^(Detail)
- 872
- 873 **V.A.3.b).(2)** **document the fellow’s performance during the final**
- 874 **period of education; and,** ^(Detail)
- 875
- 876 **V.A.3.b).(3)** **verify that the fellow has demonstrated sufficient**
- 877 **competence to enter practice without direct**
- 878 **supervision.** ^(Detail)
- 879
- 880 **V.B. Faculty Evaluation**
- 881
- 882 **V.B.1.** **At least annually, the program must evaluate faculty performance as**
- 883 **it relates to the educational program.** ^(Core)
- 884
- 885 **V.B.2.** **These evaluations should include a review of the faculty’s clinical**
- 886 **teaching abilities, commitment to the educational program, clinical**
- 887 **knowledge, professionalism, and scholarly activities.** ^(Detail)
- 888
- 889 **V.B.3.** **This evaluation must include at least annual written confidential**
- 890 **evaluations by the fellows.** ^(Detail)
- 891
- 892 **V.C. Program Evaluation and Improvement**
- 893
- 894 **V.C.1.** **The program director must appoint the Program Evaluation**
- 895 **Committee (PEC).** ^(Core)
- 896
- 897 **V.C.1.a) The Program Evaluation Committee:**
- 898
- 899 **V.C.1.a).(1)** **must be composed of at least two program faculty**
- 900 **members and should include at least one resident;**
- 901 ^(Core)
- 902
- 903 **V.C.1.a).(2)** **must have a written description of its responsibilities;**
- 904 **and,** ^(Core)
- 905
- 906 **V.C.1.a).(3)** **should participate actively in:**
- 907
- 908 **V.C.1.a).(3).(a)** **planning, developing, implementing, and**
- 909 **evaluating educational activities of the**
- 910 **program;** ^(Detail)
- 911
- 912 **V.C.1.a).(3).(b)** **reviewing and making recommendations for**
- 913 **revision of competency-based curriculum goals**
- 914 **and objectives;** ^(Detail)
- 915
- 916 **V.C.1.a).(3).(c)** **addressing areas of non-compliance with**

917		ACGME standards; and, ^(Detail)
918		
919	V.C.1.a).(3).(d)	reviewing the program annually using
920		evaluations of faculty, residents, and others, as
921		specified below. ^(Detail)
922		
923	V.C.2.	The program, through the PEC, must document formal, systematic
924		evaluation of the curriculum at least annually, and is responsible for
925		rendering a written and Annual Program Evaluation (APE). ^(Core)
926		
927		The program must monitor and track each of the following areas:
928		
929	V.C.2.a)	resident performance; ^(Core)
930		
931	V.C.2.b)	faculty development; ^(Core)
932		
933	V.C.2.c)	graduate performance, including performance of program
934		graduates on the certification examination; ^(Core)
935		
936	V.C.2.d)	program quality; and, ^(Core)
937		
938	V.C.2.d).(1)	Residents and faculty must have the opportunity to
939		evaluate the program confidentially and in writing at
940		least annually, and ^(Detail)
941		
942	V.C.2.d).(2)	The program must use the results of residents' and
943		faculty members' assessments of the program
944		together with other program evaluation results to
945		improve the program. ^(Detail)
946		
947	V.C.2.e)	progress on the previous year's action plan(s). ^(Core)
948		
949	V.C.3.	The PEC must prepare a written plan of action to document
950		initiatives to improve performance in one or more of the areas listed
951		in section V.C.2., as well as delineate how they will be measured and
952		monitored. ^(Core)
953		
954	V.C.3.a)	The action plan should be reviewed and approved by the
955		teaching faculty and documented in meeting minutes. ^(Detail)
956		
957	VI.	Fellow Duty Hours in the Learning and Working Environment
958		
959	VI.A.	Professionalism, Personal Responsibility, and Patient Safety
960		
961	VI.A.1.	Programs and sponsoring institutions must educate fellows and
962		faculty members concerning the professional responsibilities of
963		physicians to appear for duty appropriately rested and fit to provide
964		the services required by their patients. ^(Core)
965		
966	VI.A.2.	The program must be committed to and responsible for promoting
967		patient safety and fellow well-being in a supportive educational

968		environment. ^(Core)
969		
970	VI.A.3.	The program director must ensure that fellows are integrated and actively participate in interdisciplinary clinical quality improvement and patient safety programs. ^(Core)
971		
972		
973		
974	VI.A.4.	The learning objectives of the program must:
975		
976	VI.A.4.a)	be accomplished through an appropriate blend of supervised patient care responsibilities, clinical teaching, and didactic educational events; and, ^(Core)
977		
978		
979		
980	VI.A.4.b)	not be compromised by excessive reliance on fellows to fulfill non-physician service obligations. ^(Core)
981		
982		
983	VI.A.5.	The program director and institution must ensure a culture of professionalism that supports patient safety and personal responsibility. ^(Core)
984		
985		
986		
987	VI.A.6.	Fellows and faculty members must demonstrate an understanding and acceptance of their personal role in the following:
988		
989		
990	VI.A.6.a)	assurance of the safety and welfare of patients entrusted to their care; ^(Outcome)
991		
992		
993	VI.A.6.b)	provision of patient- and family-centered care; ^(Outcome)
994		
995	VI.A.6.c)	assurance of their fitness for duty; ^(Outcome)
996		
997	VI.A.6.d)	management of their time before, during, and after clinical assignments; ^(Outcome)
998		
999		
1000	VI.A.6.e)	recognition of impairment, including illness and fatigue, in themselves and in their peers; ^(Outcome)
1001		
1002		
1003	VI.A.6.f)	attention to lifelong learning; ^(Outcome)
1004		
1005	VI.A.6.g)	the monitoring of their patient care performance improvement indicators; and, ^(Outcome)
1006		
1007		
1008	VI.A.6.h)	honest and accurate reporting of duty hours, patient outcomes, and clinical experience data. ^(Outcome)
1009		
1010		
1011	VI.A.7.	All fellows and faculty members must demonstrate responsiveness to patient needs that supersedes self-interest. They must recognize that under certain circumstances, the best interests of the patient may be served by transitioning that patient's care to another qualified and rested provider. ^(Outcome)
1012		
1013		
1014		
1015		
1016		
1017	VI.B.	Transitions of Care
1018		

- 1019 **VI.B.1.** Programs must design clinical assignments to minimize the number
 1020 of transitions in patient care. ^(Core)
 1021
- 1022 **VI.B.2.** Sponsoring institutions and programs must ensure and monitor
 1023 effective, structured hand-over processes to facilitate both
 1024 continuity of care and patient safety. ^(Core)
 1025
- 1026 **VI.B.3.** Programs must ensure that fellows are competent in communicating
 1027 with team members in the hand-over process. ^(Outcome)
 1028
- 1029 **VI.B.4.** The sponsoring institution must ensure the availability of schedules
 1030 that inform all members of the health care team of attending
 1031 physicians and fellows currently responsible for each patient's care.
 1032 ^(Detail)
 1033
- 1034 **VI.C.** Alertness Management/Fatigue Mitigation
 1035
- 1036 **VI.C.1.** The program must:
 1037
- 1038 **VI.C.1.a)** educate all faculty members and fellows to recognize the
 1039 signs of fatigue and sleep deprivation; ^(Core)
 1040
- 1041 **VI.C.1.b)** educate all faculty members and fellows in alertness
 1042 management and fatigue mitigation processes; and, ^(Core)
 1043
- 1044 **VI.C.1.c)** adopt fatigue mitigation processes to manage the potential
 1045 negative effects of fatigue on patient care and learning, such
 1046 as naps or back-up call schedules. ^(Detail)
 1047
- 1048 **VI.C.2.** Each program must have a process to ensure continuity of patient
 1049 care in the event that a fellow may be unable to perform his/her
 1050 patient care duties. ^(Core)
 1051
- 1052 **VI.C.3.** The sponsoring institution must provide adequate sleep facilities
 1053 and/or safe transportation options for fellows who may be too
 1054 fatigued to safely return home. ^(Core)
 1055
- 1056 **VI.D.** Supervision of Fellows
 1057
- 1058 **VI.D.1.** In the clinical learning environment, each patient must have an
 1059 identifiable, appropriately-credentialed and privileged attending
 1060 physician (or licensed independent practitioner as approved by each
 1061 Review Committee) who is ultimately responsible for that patient's
 1062 care. ^(Core)
 1063
- 1064 **VI.D.1.a)** This information should be available to fellows, faculty
 1065 members, and patients. ^(Detail)
 1066
- 1067 **VI.D.1.b)** Fellows and faculty members should inform patients of their
 1068 respective roles in each patient's care. ^(Detail)
 1069

- 1070 **VI.D.2.** **The program must demonstrate that the appropriate level of**
- 1071 **supervision is in place for all fellows who care for patients.** ^(Core)
- 1072
- 1073 **Supervision may be exercised through a variety of methods. Some**
- 1074 **activities require the physical presence of the supervising faculty**
- 1075 **member. For many aspects of patient care, the supervising**
- 1076 **physician may be a more advanced resident or fellow. Other**
- 1077 **portions of care provided by the fellow can be adequately**
- 1078 **supervised by the immediate availability of the supervising faculty**
- 1079 **member or fellow physician, either in the institution, or by means of**
- 1080 **telephonic and/or electronic modalities. In some circumstances,**
- 1081 **supervision may include post-hoc review of fellow-delivered care**
- 1082 **with feedback as to the appropriateness of that care.** ^(Detail)
- 1083
- 1084 **VI.D.3.** **Levels of Supervision**
- 1085
- 1086 **To ensure oversight of fellow supervision and graded authority and**
- 1087 **responsibility, the program must use the following classification of**
- 1088 **supervision:** ^(Core)
- 1089
- 1090 **VI.D.3.a)** **Direct Supervision – the supervising physician is physically**
- 1091 **present with the fellow and patient.** ^(Core)
- 1092
- 1093 **VI.D.3.b)** **Indirect Supervision:**
- 1094
- 1095 **VI.D.3.b).(1)** **with direct supervision immediately available – the**
- 1096 **supervising physician is physically within the hospital**
- 1097 **or other site of patient care, and is immediately**
- 1098 **available to provide Direct Supervision.** ^(Core)
- 1099
- 1100 **VI.D.3.b).(2)** **with direct supervision available – the supervising**
- 1101 **physician is not physically present within the hospital**
- 1102 **or other site of patient care, but is immediately**
- 1103 **available by means of telephonic and/or electronic**
- 1104 **modalities, and is available to provide Direct**
- 1105 **Supervision.** ^(Core)
- 1106
- 1107 **VI.D.3.c)** **Oversight – the supervising physician is available to provide**
- 1108 **review of procedures/encounters with feedback provided**
- 1109 **after care is delivered.** ^(Core)
- 1110
- 1111 **VI.D.4.** **The privilege of progressive authority and responsibility, conditional**
- 1112 **independence, and a supervisory role in patient care delegated to**
- 1113 **each fellow must be assigned by the program director and faculty**
- 1114 **members.** ^(Core)
- 1115
- 1116 **VI.D.4.a)** **The program director must evaluate each fellow’s abilities**
- 1117 **based on specific criteria. When available, evaluation should**
- 1118 **be guided by specific national standards-based criteria.** ^(Core)
- 1119
- 1120 **VI.D.4.b)** **Faculty members functioning as supervising physicians**

1121		should delegate portions of care to fellows, based on the
1122		needs of the patient and the skills of the fellows. ^(Detail)
1123		
1124	VI.D.4.c)	Fellows should serve in a supervisory role of junior residents
1125		in recognition of their progress toward independence, based
1126		on the needs of each patient and the skills of the individual
1127		resident or fellow. ^(Detail)
1128		
1129	VI.D.5.	Programs must set guidelines for circumstances and events in
1130		which fellows must communicate with appropriate supervising
1131		faculty members, such as the transfer of a patient to an intensive
1132		care unit, or end-of-life decisions. ^(Core)
1133		
1134	VI.D.5.a)	Each fellow must know the limits of his/her scope of
1135		authority, and the circumstances under which he/she is
1136		permitted to act with conditional independence. ^(Outcome)
1137		
1138	VI.D.5.a).(1)	In particular, PGY-1 residents should be supervised
1139		either directly or indirectly with direct supervision
1140		immediately available. ^(Core)
1141		
1142	VI.D.6.	Faculty supervision assignments should be of sufficient duration to
1143		assess the knowledge and skills of each fellow and delegate to
1144		him/her the appropriate level of patient care authority and
1145		responsibility. ^(Detail)
1146		
1147	VI.E.	Clinical Responsibilities
1148		
1149		The clinical responsibilities for each fellow must be based on PGY-level,
1150		patient safety, fellow education, severity and complexity of patient
1151		illness/condition and available support services. ^(Core)
1152		
1153	VI.F.	Teamwork
1154		
1155		Fellows must care for patients in an environment that maximizes effective
1156		communication. This must include the opportunity to work as a member of
1157		effective interprofessional teams that are appropriate to the delivery of care
1158		in the specialty. ^(Core)
1159		
1160	VI.G.	Fellow Duty Hours
1161		
1162	VI.G.1.	Maximum Hours of Work per Week
1163		
1164		Duty hours must be limited to 80 hours per week, averaged over a
1165		four-week period, inclusive of all in-house call activities and all
1166		moonlighting. ^(Core)
1167		
1168	VI.G.1.a)	Duty Hour Exceptions
1169		
1170	VI.G.1.a).(1)	A Review Committee may grant exceptions for up to 10
1171		percent or a maximum of 88 hours to individual

1172		programs based on a sound educational rationale.
1173		(Detail)
1174		
1175	VI.G.1.a).(2)	In preparing a request for an exception the program
1176		director must follow the duty hour exception policy
1177		from the ACGME Manual on Policies and Procedures.
1178		(Detail)
1179		
1180	VI.G.1.a).(3)	Prior to submitting the request to the Review
1181		Committee, the program director must obtain approval
1182		of the institution's GMEC and DIO. (Detail)
1183		
1184	VI.G.2.	Moonlighting
1185		
1186	VI.G.2.a)	Moonlighting must not interfere with the ability of the fellow
1187		to achieve the goals and objectives of the educational
1188		program. (Core)
1189		
1190	VI.G.2.b)	Time spent by fellows in Internal and External Moonlighting
1191		(as defined in the ACGME Glossary of Terms) must be
1192		counted towards the 80-hour Maximum Weekly Hour Limit.
1193		(Core)
1194		
1195	VI.G.2.c)	PGY-1 residents are not permitted to moonlight. (Core)
1196		
1197	VI.G.3.	Mandatory Time Free of Duty
1198		
1199		Fellows must be scheduled for a minimum of one day free of duty
1200		every week (when averaged over four weeks). At-home call cannot
1201		be assigned on these free days. (Core)
1202		
1203	VI.G.4.	Maximum Duty Period Length
1204		
1205	VI.G.4.a)	Duty periods of PGY-1 residents must not exceed 16 hours in
1206		duration. (Core)
1207		
1208	VI.G.4.b)	Duty periods of PGY-2 residents and above may be
1209		scheduled to a maximum of 24 hours of continuous duty in
1210		the hospital. (Core)
1211		
1212	VI.G.4.b).(1)	Programs must encourage fellows to use alertness
1213		management strategies in the context of patient care
1214		responsibilities. Strategic napping, especially after 16
1215		hours of continuous duty and between the hours of
1216		10:00 p.m. and 8:00 a.m., is strongly suggested. (Detail)
1217		
1218	VI.G.4.b).(2)	It is essential for patient safety and fellow education
1219		that effective transitions in care occur. Fellows may be
1220		allowed to remain on-site in order to accomplish these
1221		tasks; however, this period of time must be no longer
1222		than an additional four hours. (Core)

1223		
1224	VI.G.4.b).(3)	Fellows must not be assigned additional clinical responsibilities after 24 hours of continuous in-house duty. ^(Core)
1225		
1226		
1227		
1228	VI.G.4.b).(4)	In unusual circumstances, fellows, on their own initiative, may remain beyond their scheduled period of duty to continue to provide care to a single patient. Justifications for such extensions of duty are limited to reasons of required continuity for a severely ill or unstable patient, academic importance of the events transpiring, or humanistic attention to the needs of a patient or family. ^(Detail)
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1236		
1237	VI.G.4.b).(4).(a)	Under those circumstances, the fellow must:
1238		
1239	VI.G.4.b).(4).(a).(i)	appropriately hand over the care of all other patients to the team responsible for their continuing care; and, ^(Detail)
1240		
1241		
1242		
1243	VI.G.4.b).(4).(a).(ii)	document the reasons for remaining to care for the patient in question and submit that documentation in every circumstance to the program director. ^(Detail)
1244		
1245		
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1249	VI.G.4.b).(4).(b)	The program director must review each submission of additional service, and track both individual fellow and program-wide episodes of additional duty. ^(Detail)
1250		
1251		
1252		
1253		
1254	VI.G.5.	Minimum Time Off between Scheduled Duty Periods
1255		
1256	VI.G.5.a)	PGY-1 residents should have 10 hours, and must have eight hours, free of duty between scheduled duty periods. ^(Core)
1257		
1258		
1259	VI.G.5.b)	Intermediate-level residents should have 10 hours free of duty, and must have eight hours between scheduled duty periods. They must have at least 14 hours free of duty after 24 hours of in-house duty. ^(Core)
1260		
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1264	VI.G.5.c)	Residents in the final years of education must be prepared to enter the unsupervised practice of medicine and care for patients over irregular or extended periods. ^(Outcome)
1265		
1266		
1267		
1268		Clinical informatics fellows are considered to be in the final years of education.
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1271	VI.G.5.c).(1)	This preparation must occur within the context of the 80-hour, maximum duty period length, and one-day-off-in-seven standards. While it is desirable that
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1273		

1274 residents in their final years of education have eight
1275 hours free of duty between scheduled duty periods,
1276 there may be circumstances when these fellows must
1277 stay on duty to care for their patients or return to the
1278 hospital with fewer than eight hours free of duty. ^(Detail)

1279
1280 **VI.G.5.c).(1).(a)** Circumstances of return-to-hospital activities
1281 with fewer than eight hours away from the
1282 hospital by residents in their final years of
1283 education must be monitored by the program
1284 director. ^(Detail)

1285
1286 **VI.G.6.** Maximum Frequency of In-House Night Float
1287
1288 Fellows must not be scheduled for more than six consecutive nights
1289 of night float. ^(Core)

1290
1291 **VI.G.7.** Maximum In-House On-Call Frequency
1292
1293 PGY-2 residents and above must be scheduled for in-house call no
1294 more frequently than every-third-night (when averaged over a four-
1295 week period). ^(Core)

1296
1297 **VI.G.8.** At-Home Call

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1299 **VI.G.8.a)** Time spent in the hospital by fellows on at-home call must
1300 count towards the 80-hour maximum weekly hour limit. The
1301 frequency of at-home call is not subject to the every-third-
1302 night limitation, but must satisfy the requirement for one-day-
1303 in-seven free of duty, when averaged over four weeks. ^(Core)

1304
1305 **VI.G.8.a).(1)** At-home call must not be so frequent or taxing as to
1306 preclude rest or reasonable personal time for each
1307 fellow. ^(Core)

1308
1309 **VI.G.8.b)** Fellows are permitted to return to the hospital while on at-
1310 home call to care for new or established patients. Each
1311 episode of this type of care, while it must be included in the
1312 80-hour weekly maximum, will not initiate a new “off-duty
1313 period”. ^(Detail)

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1315 ***

1316
1317 ***Core Requirements:** Statements that define structure, resource, or process elements essential to every
1318 graduate medical educational program.

1319 **Detail Requirements:** Statements that describe a specific structure, resource, or process, for achieving
1320 compliance with a Core Requirement. Programs in substantial compliance with the Outcome
1321 Requirements may utilize alternative or innovative approaches to meet Core Requirements.

1322 **Outcome Requirements:** Statements that specify expected measurable or observable attributes
1323 (knowledge, abilities, skills, or attitudes) of residents or fellows at key stages of their graduate medical
1324 education.