

1 **ACGME Program Requirements for Graduate Medical Education**
2 **in Interventional Cardiology (Internal Medicine)**
3

4 **One-year Common Program Requirements are in BOLD**
5 *General Subspecialty Requirements are ITALICIZED*
6

7 Effective: July 1, 2012
8

9 **Introduction**
10

11 **Int.A. Residency and fellowship programs are essential dimensions of the**
12 **transformation of the medical student to the independent practitioner along**
13 **the continuum of medical education. They are physically, emotionally, and**
14 **intellectually demanding, and require longitudinally-concentrated effort on**
15 **the part of the resident or fellow.**
16

17 **The specialty education of physicians to practice independently is**
18 **experiential, and necessarily occurs within the context of the health care**
19 **delivery system. Developing the skills, knowledge, and attitudes leading to**
20 **proficiency in all the domains of clinical competency requires the resident**
21 **and fellow physician to assume personal responsibility for the care of**
22 **individual patients. For the resident and fellow, the essential learning**
23 **activity is interaction with patients under the guidance and supervision of**
24 **faculty members who give value, context, and meaning to those**
25 **interactions. As residents and fellows gain experience and demonstrate**
26 **growth in their ability to care for patients, they assume roles that permit**
27 **them to exercise those skills with greater independence. This concept—**
28 **graded and progressive responsibility—is one of the core tenets of**
29 **American graduate medical education. Supervision in the setting of**
30 **graduate medical education has the goals of assuring the provision of safe**
31 **and effective care to the individual patient; assuring each resident's and**
32 **fellow's development of the skills, knowledge, and attitudes required to**
33 **enter the unsupervised practice of medicine; and establishing a foundation**
34 **for continued professional growth.**
35

36 **Int.B. Interventional cardiology is the practice of techniques that improve coronary**
37 **circulation, and alleviate valvular stenosis and regurgitation, and treat other**
38 **valvular and structural heart disease. A subspecialty educational program in**
39 **Interventional cardiology fellowships must function as an integral component of**
40 **an ACGME-accredited subspecialty fellowship in cardiovascular disease and be**
41 **organized to provide advanced cardiology training education and experience at a**
42 **to allow a fellow to acquire competency in the subspecialty with sufficient**
43 **expertise to act as a provider of interventional procedures and as an independent**
44 **consultant. level for fellows to acquire the competency of a specialist in the field.**
45

46 **Int.C. An ACGME-accredited fellowship The educational program in interventional**
47 **cardiology must provide be 12 months of supervised graduate medical education**
48 **in length.**
49

50 **I. Institutions**
51

- 52 I.A. Sponsoring Institution
53
54 One sponsoring institution must assume ultimate responsibility for the
55 program, as described in the Institutional Requirements, and this
56 responsibility extends to fellow assignments at all participating sites.
57
58 The sponsoring institution and the program must ensure that the program
59 director has sufficient protected time and financial support for his or her
60 educational and administrative responsibilities to the program.
61
- 62 I.A.1. An interventional cardiology fellowship program must function as an
63 integral part of an ACGME-accredited fellowship program in
64 cardiovascular disease.
65
- 66 I.A.2. *The sponsoring institution must:*
67
- 68 I.A.2.a) ~~provide~~ *ensure* ~~the program director with adequate support for the~~
69 ~~administrative activities of the internal medicine subspecialty~~
70 ~~program-fellowship.~~
71
- 72 I.A.2.a).(1) *The program director must not be required to generate*
73 *clinical or other income to provide this administrative*
74 *support.*
75
- 76 I.A.2.a).(2) *It is suggested this support be 25-50% of the program*
77 *director's salary, or protected time, depending on the size*
78 *of the program.*
79
- 80 I.A.3. *The sponsoring institution and participating sites must:*
81
- 82 I.A.3.a) *demonstrate that there is a culture of continuous quality*
83 *improvement in the areas of patient care, patient safety, and*
84 *education;*
85
- 86 I.A.3.b) *demonstrate a commitment to quality patient-centered care and*
87 *safety, education, ~~research~~ and scholarship sufficient to support*
88 *the fellowship-program;and,*
89
- 90 I.A.3.c) *share appropriate inpatient and outpatient faculty performance*
91 *data with the program director.*
92
- 93 I.A.3.d) ~~*provide fellow compensation, and benefits, faculty, facilities, and*~~
94 ~~*resources for education, clinical care, and research required for*~~
95 ~~*accreditation;*~~
96
- 97 I.A.3.e) ~~*notify the Review Committee within 60 days of changes in*~~
98 ~~*institutional governance, affiliation, or resources that affect the*~~
99 ~~*educational program as outlined in the Institutional Requirements;*~~
100
- 101 I.A.3.f) ~~*provide fellowship positions in the one-year, interventional*~~
102 ~~*cardiology fellowship with no less than one fellow per year; and*~~

- 103
104 **I.B. Participating Sites**
105
106 **I.B.1. There must be a program letter of agreement (PLA) between the**
107 **program and each participating site providing a required**
108 **assignment. The PLA must be renewed at least every five years.**
109
110 **The PLA should:**
111
112 **I.B.1.a) identify the faculty who will assume both educational and**
113 **supervisory responsibilities for fellows;**
114
115 **I.B.1.b) specify their responsibilities for teaching, supervision, and**
116 **formal evaluation of fellows, as specified later in this**
117 **document;**
118
119 **I.B.1.c) specify the duration and content of the educational**
120 **experience; and,**
121
122 **I.B.1.d) state the policies and procedures that will govern fellow**
123 **education during the assignment.**
124
125 **I.B.2. The program director must submit any additions or deletions of**
126 **participating sites routinely providing an educational experience,**
127 **required for all fellows, of one month full time equivalent (FTE) or**
128 **more through the Accreditation Council for Graduate Medical**
129 **Education (ACGME) Accreditation Data System (ADS).**
130
131 **II. Program Personnel and Resources**
132
133 **II.A. Program Director**
134
135 **II.A.1. There must be a single program director with authority and**
136 **accountability for the operation of the program. The sponsoring**
137 **institution's GMEC must approve a change in program director.**
138 **After approval, the program director must submit this change to the**
139 **ACGME via the ADS.**
140
141 **II.A.2. Qualifications of the program director must include:**
142
143 **II.A.2.a) requisite specialty expertise and documented educational**
144 **and administrative experience acceptable to the Review**
145 **Committee;**
146
147 **II.A.2.a).(1) The program director must have at least five years of**
148 **participation as an active faculty member in an ACGME-**
149 **accredited internal medicine cardiovascular disease**
150 **fellowship or interventional cardiology fellowship.**
151
152 **II.A.2.b) current certification in the subspecialty by the American**
153 **Board of Internal Medicine (ABIM), or subspecialty**

154 **qualifications that are acceptable to the Review Committee;**
155 **and,**
156
157 II.A.2.b).(1) The Review Committee only accepts current ABIM
158 certification in interventional cardiology.
159
160 **II.A.2.c) current medical licensure and appropriate medical staff**
161 **appointment.**
162
163 **II.A.3. The program director must administer and maintain an educational**
164 **environment conducive to educating the fellows in each of the**
165 **ACGME competency areas. The program director must:**
166
167 **II.A.3.a) prepare and submit all information required and requested by**
168 **the ACGME;**
169
170 **II.A.3.b) be familiar with and oversee compliance with ACGME and**
171 **Review Committee policies and procedures as outlined in the**
172 **ACGME Manual of Policies and Procedures;**
173
174 **II.A.3.c) obtain review and approval of the sponsoring institution’s**
175 **GMEC/DIO before submitting to the ACGME information or**
176 **requests for the following:**
177
178 **II.A.3.c).(1) all applications for ACGME accreditation of new**
179 **programs;**
180
181 **II.A.3.c).(2) changes in fellow complement;**
182
183 **II.A.3.c).(3) major changes in program structure or length of**
184 **training;**
185
186 **II.A.3.c).(4) progress reports requested by the Review Committee;**
187
188 **II.A.3.c).(5) responses to all proposed adverse actions;**
189
190 **II.A.3.c).(6) requests for increases or any change to fellow duty**
191 **hours;**
192
193 **II.A.3.c).(7) voluntary withdrawals of ACGME-accredited**
194 **programs;**
195
196 **II.A.3.c).(8) requests for appeal of an adverse action; and,**
197
198 **II.A.3.c).(9) appeal presentations to a Board of Appeal or the**
199 **ACGME.**
200
201 **II.A.3.d) obtain DIO review and co-signature on all program**
202 **information forms, as well as any correspondence or**
203 **document submitted to the ACGME that addresses:**
204

- 205 **II.A.3.d).(1)** program citations; and/or
- 206
- 207 **II.A.3.d).(2)** requests for changes in the program that would have
- 208 significant impact, including financial, on the program
- 209 or institution.
- 210
- 211 *II.A.3.e)* ensure that fellows' service responsibilities are limited to patients
- 212 for whom the teaching service has diagnostic and therapeutic
- 213 responsibility.
- 214
- 215 *II.A.3.f)* dedicate an average of 20 hours per week of his or her
- 216 professional effort to the ~~internal medicine subspecialty program~~
- 217 fellowship, including with sufficient time for administration of the
- 218 program; ~~and receive institutional support for that administrative~~
- 219 ~~time.~~
- 220
- 221 *II.A.3.g)* have a reporting relationship with the program director of the
- 222 cardiovascular disease program to ensure compliance with ~~the~~
- 223 ACGME accreditation standards; and,
- 224
- 225 *II.A.3.h)* be available ~~located~~ at the primary principal clinical site.
- 226
- 227 **II.B. Faculty**
- 228
- 229 **II.B.1.** There must be a sufficient number of faculty with documented
- 230 qualifications to instruct and supervise all fellows.
- 231
- 232 **II.B.2.** The faculty must devote sufficient time to the educational program
- 233 to fulfill their supervisory and teaching responsibilities and
- 234 demonstrate a strong interest in the education of fellows.
- 235
- 236 **II.B.3.** The physician faculty must have current certification in the
- 237 subspecialty by the American Board of Internal Medicine or possess
- 238 qualifications acceptable to the Review Committee.
- 239
- 240 **II.B.4.** The physician faculty must possess current medical licensure and
- 241 appropriate medical staff appointment.
- 242
- 243 *II.B.5.* *The physician faculty must meet professional standards of ethical*
- 244 *behavior.*
- 245
- 246 **II.B.6.** The faculty must establish and maintain an environment of inquiry and
- 247 scholarship with an active research component.
- 248
- 249 **II.B.6.a)** The faculty must regularly participate in organized clinical
- 250 discussions, rounds, journal clubs, and conferences.
- 251
- 252 **II.B.6.b)** Some members of the faculty should also demonstrate
- 253 scholarship by one or more of the following:
- 254
- 255 **II.B.6.b).(1)** peer-reviewed funding;

256
257 II.B.6.b).(2) publication of original research or review articles in peer-
258 reviewed journals or chapters in textbooks;
259
260 II.B.6.b).(3) publication or presentation of case reports or clinical series
261 at local, regional, or national professional and scientific
262 society meetings; or,
263
264 II.B.6.b).(4) participation in national committees or educational
265 organizations.
266
267 II.B.6.c) Faculty should encourage and support fellows in scholarly
268 activities.
269
270 II.B.7. ~~All~~Each faculty member involved in supervising fellows in the
271 performance of interventional procedures must perform a minimum of 75
272 interventions per year, with the majority at the primary clinical site.
273
274 II.B.8. Key Clinical Faculty
275
276 In addition to the program director, each program must have at least one
277 Key Clinical Faculty (KCF). KCF are attending physicians who dedicate,
278 on average, 10 hours per week throughout the year to the ~~training~~
279 program. For programs with more than two fellows, ~~in the accredited~~
280 ~~portion of the training program, a ratio of KCF to fellows of at least 1:~~
281 there must be at least one KCF for every 1.5 fellows ~~must be maintained.~~
282
283 II.B.8.a) Key Clinical Faculty Qualifications
284
285 II.B.8.a).(1) KCF must be active clinicians with ~~broad~~ knowledge of,
286 experience with, and commitment to the interventional
287 cardiology as a discipline.
288
289 II.B.8.a).(2) KCF must have current ABIM certification in interventional
290 cardiology.
291
292 *II.B.8.b) Key Clinical Faculty Responsibilities*
293
294 *II.B.8.b).(1) In addition to the responsibilities of all individual faculty*
295 *members, the KCF ~~with and~~ the program director are*
296 *responsible for the planning, implementation, monitoring,*
297 *and evaluation of the fellows' clinical and research*
298 *education-training.*
299
300 *II.B.8.b).(2) ~~The majority of~~ At least 50% of the KCF must demonstrate*
301 *evidence of productivity in ~~the~~ scholarship, specifically,*
302 *peer-reviewed funding; publication of original research,*
303 *review articles, editorials, or case reports in peer-reviewed*
304 *journals; or chapters in textbooks. ~~as defined in II.B.5.b.(1),~~*
305 *or (2) above*
306

- 307 II.B.9. ~~All~~Clinical faculty members should participate in ~~prescribed~~ faculty
308 development programs designed to enhance the effectiveness of their
309 teaching.
310
- 311 II.B.10. Access to faculty with expertise in congenital heart disease in adults,
312 hematology, pharmacology, radiation safety, and research laboratories is
313 suggested.
314
- 315 **II.C. Other Program Personnel**
316
- 317 **The institution and the program must jointly ensure the availability of all**
318 **necessary professional, technical, and clerical personnel for the effective**
319 **administration of the program.**
320
- 321 II.C.1. *There must be services available from other health care professionals,*
322 *including dietitians, language interpreters, nurses, occupational*
323 *therapists, physical therapists, and social workers.*
324
- 325 II.C.2. ~~There must be ensure the availability of~~ appropriate and timely
326 consultation from other specialties.
327
- 328 **II.D. Resources**
329
- 330 **The institution and the program must jointly ensure the availability of**
331 **adequate resources for fellow education, as defined in the specialty**
332 **program requirements.**
333
- 334 II.D.1. *Space and Equipment*
335
- 336 *There must be space and equipment for the ~~educational~~ program,*
337 *including meeting rooms, ~~classrooms,~~ examination rooms, computers,*
338 *visual and other educational aids, and work/study space.*
339
- 340 II.D.2. *Facilities*
341
- 342 II.D.2.a) Inpatient and outpatient systems must be in place to prevent
343 fellows from performing routine clerical functions, including
344 scheduling tests and appointments, and retrieving records and
345 letters.
346
- 347 II.D.2.b) The sponsoring institution must provide the broad range of
348 facilities and clinical support services required to provide
349 comprehensive care of adult patients. ~~Fellows must have clinical~~
350 experiences in efficient, effective ambulatory and inpatient care
351 settings.
352
- 353 II.D.2.c) *Fellows must have access to a lounge facility during assigned*
354 *duty hours.*
355
- 356 II.D.2.d) *When fellows are ~~assigned night duty in the hospital,~~ assigned*
357 *night duty, or called in from home, they must be provided with ~~an~~*

358 ~~call facilities that are convenient and that afford privacy, safety,~~
359 ~~and a restful environment with a secure space for their~~
360 ~~belongings.~~

361
362 II.D.3. Laboratory Services

363
364 ~~Each of the~~The following must be present at the primary training ~~clinical~~
365 ~~site:~~

366
367 ~~A equipped cardiac catheterization laboratory; is required.~~

368
369 II.D.3.a) ~~wherein a minimum of 400 interventional procedures of the heart~~
370 ~~are performed per year; cardiac catheterization laboratories, must~~
371 ~~be each equipped with cardiac fluoroscopic equipment, digital~~
372 ~~imaging, recording devices, a full complement of interventional~~
373 ~~devices, and resuscitative equipment; and,-~~

374
375 II.D.3.a).(1) The primary laboratory must perform a minimum of 400
376 interventional procedures per year, and each secondary
377 laboratory must perform a minimum of 200 interventional
378 procedures per year.

379
380 ~~Laboratories other than those located at the primary~~
381 ~~training site may participate in the educational program~~
382 ~~under the following conditions:~~

383
384 ~~The participating catheterization laboratory must~~
385 ~~perform a minimum of 400 interventional~~
386 ~~procedures.~~

387
388 ~~Fellow activities at participating sites must be~~
389 ~~supervised by a key clinical faculty member who~~
390 ~~conducts a minimum of 75 interventions annually at~~
391 ~~the participating site.~~

392
393 II.D.3.b) ~~cardiac radionuclide laboratories. must be available.~~

394
395 II.D.4. Other Facilities, Resources, or Support Services

396
397 The following must be present at the primary training ~~clinical~~ site:

398
399 II.D.4.a) an active cardiac surgery program;

400
401 II.D.4.b) a cardiac surgery intensive care unit; and,

402
403 II.D.4.c) a cardiac intensive care unit.

404
405 II.D.5. *Medical Records*

406
407 Access to an electronic health record should be provided. In the absence
408 of an existing electronic health record, institutions must demonstrate

- 409 institutional commitment to its development and progress toward its
410 implementation.
- 411
- 412 II.D.6. Patient Population
- 413
- 414 II.D.6.a) The patient population must have a variety of clinical problems
415 and stages of diseases.
- 416
- 417 II.D.6.b) *There must be patients of each gender ~~both sexes~~, with a broad*
418 *age range, including geriatric patients.*
- 419
- 420 II.D.6.c) *A sufficient number of patients must be available to enable ~~ensure~~*
421 *adequate inpatient and ambulatory experience for each fellow to*
422 *achieve the required educational outcomes.*
- 423
- 424 II.E. **Medical Information Access**
- 425
- 426 **Fellows must have ready access to specialty-specific and other appropriate**
427 **reference material in print or electronic format. Electronic medical literature**
428 **databases with search capabilities should be available.**
- 429
- 430 III. **Fellow Appointments**
- 431
- 432 III.A. **Eligibility Criteria**
- 433
- 434 **Each fellow must successfully complete an ACGME-accredited specialty**
435 **program and/or meet other eligibility criteria as specified by the Review**
436 **Committee. The program must document that each fellow has met the**
437 **eligibility criteria.**
- 438
- 439 III.A.1. Prior to appointment in the fellowship, fellows ~~entering the program~~
440 should have completed a three-year ACGME-accredited cardiovascular
441 disease program.
- 442
- 443 III.A.2. Fellows from non-ACGME-accredited ~~in education~~ programs must have
444 at least three years of cardiovascular disease education prior to starting
445 the fellowship.
- 446
- 447 III.A.3. *The program director must inform ~~non-ACGME-trained~~ applicants from*
448 *non-ACGME-accredited programs, prior to appointment and in writing, of*
449 *the ABIM policies and procedures that ~~may~~ will affect the fellow's their*
450 *eligibility for ABIM certification.*
- 451
- 452 III.A.4. When averaged over any five-year period, a minimum of 75% of fellows in
453 each ~~subspecialty training~~ program must be graduates of an ACGME-
454 accredited cardiovascular disease program.
- 455
- 456 III.B. **Number of Fellows**
- 457
- 458 **The program director may not appoint more fellows than approved by the**
459 **Review Committee, unless otherwise stated in the specialty-specific**

460 requirements. The program's educational resources must be adequate to
461 support the number of fellows appointed to the program.
462

463 ~~III.B.1. The minimum number of fellow positions in the training program~~
464 ~~fellowship must not be less than the number of accredited training years~~
465 ~~in the program~~
466

467 **IV. Educational Program**
468

469 **IV.A. The curriculum must contain the following educational components:**
470

471 **IV.A.1. Skills and competencies the fellow will be able to demonstrate at the**
472 **conclusion of the program. The program must distribute these skills**
473 **and competencies to fellow and faculty annually, in either written or**
474 **electronic form. These skills and competencies should be reviewed**
475 **by the fellow at the start of each rotation.**
476

477 **IV.A.2. ACGME Competencies**
478

479 **The program must integrate the following ACGME competencies**
480 **into the curriculum:**
481

482 **IV.A.2.a) Patient Care**
483

484 **Fellows must be able to provide patient care that is**
485 **compassionate, appropriate, and effective for the treatment of**
486 **health problems and the promotion of health. Fellows:**
487

488 *IV.A.2.a).(1) must demonstrate competence in the practice of health*
489 *promotion, disease prevention, diagnosis, care, and*
490 *treatment of ~~men and women~~ patients of each gender,*
491 *from adolescence to old age, during health and all stages*
492 *of illness;*
493

494 *IV.A.2.a).(2) have formal instruction, clinical experience, and must*
495 *demonstrate competence in the prevention, evaluation,*
496 *and management of both inpatients and outpatients with*
497 *the following disorders:*
498

499 *IV.A.2.a).(2).(a) acute ischemic syndromes;*
500

501 *IV.A.2.a).(2).(b) bleeding disorders or complications associated with*
502 *percutaneous intervention or drugs, which may*
503 *include ing but not limited to:*
504

505 *IV.A.2.a).(2).(b).(i) bleeding after thrombolytic usage;*
506

507 *IV.A.2.a).(2).(b).(ii) direct or indirect thrombin inhibitor usage;*
508

509 *IV.A.2.a).(2).(b).(iii) glycoprotein IIb/IIIa inhibitor usage; and,*
510

511	IV.A.2.a).(2).(b).(iv)	thienopyridine or other antiplatelet usage.
512		
513	IV.A.2.a).(2).(c)	chronic ischemic heart disease; and,
514		
515	IV.A.2.a).(2).(d)	valvular and structural heart disease.
516		
517	IV.A.2.a).(3)	must demonstrate competence in:
518		
519	IV.A.2.a).(3).(a)	care of the patients before and after interventional procedures;
520		
521		
522	IV.A.2.a).(3).(b)	care of patients in the cardiac care unit, emergency department, or other intensive care settings;
523		
524		
525	IV.A.2.a).(3).(c)	outpatient follow-up of patients treated with drugs, interventions, devices, or surgery;
526		
527		
528	IV.A.2.a).(3).(d)	use of antiarrhythmic drugs;
529		
530	IV.A.2.a).(3).(e)	use and limitations of intra-aortic balloon counterpulsation (IABP) and other hemodynamic support devices (as available);
531		
532		
533		
534	IV.A.2.a).(3).(f)	use of thrombolytic and antithrombolytic, antiplatelet, and antithrombin agents; and,
535		
536		
537	IV.A.2.a).(3).(g)	use of vasoactive agents for epicardial and microvascular spasm.
538		
539		
540	IV.A.2.a).(4)	must have formal instruction, clinical experience, and must demonstrate competence in the performance of the following:
541		
542		
543		
544	IV.A.2.a).(4).(a)	coronary arteriograms;
545		
546	IV.A.2.a).(4).(b)	minimum of 250 coronary interventions, (each fellow must perform a minimum of 250) including:
547		
548		
549	IV.A.2.a).(4).(b).(i)	application and usage of balloon angioplasty, stents, and other commonly used interventional devices; and,
550		
551		
552		
553	IV.A.2.a).(4).(b).(ii)	femoral and brachial/radial cannulation of normal and abnormally located coronary ostia.
554		
555		
556		
557	IV.A.2.a).(4).(c)	Doppler flow, intracoronary pressure measurement and monitoring, and coronary flow reserve;
558		
559		
560	IV.A.2.a).(4).(d)	hemodynamic measurements;
561		

562	IV.A.2.a).(4).(e)	intravascular ultrasound; and,
563		
564	IV.A.2.a).(4).(f)	ventriculography <u>and aortography.</u>
565	IV.A.2.a).(4).(g)	management of mechanical complications of
566		percutaneous intervention, including but not limited
567		to:
568		
569	IV.A.2.a).(4).(h)	coronary dissection;
570		
571	IV.A.2.a).(4).(i)	thrombosis;
572		
573	IV.A.2.a).(4).(j)	spasm;
574		
575	IV.A.2.a).(4).(k)	perforation;
576		
577	IV.A.2.a).(4).(l)	"slow reflow";
578		
579	IV.A.2.a).(4).(m)	cardiogenic shock;
580		
581	IV.A.2.a).(4).(n)	left main trunk dissection;
582		
583	IV.A.2.a).(4).(o)	cardiac tamponade including pericardiocentesis;
584		
585	IV.A.2.a).(4).(p)	peripheral vessel occlusion and retained
586		components; and pseudoaneurysm.
587		
588	IV.A.2.a).(5)	<u>must demonstrate competence in the management of</u>
589		<u>mechanical complications of percutaneous intervention,</u>
590		<u>which may include:</u>
591		
592	IV.A.2.a).(5).(a)	<u>cardiac tamponade, including pericardiocentesis;</u>
593		
594	IV.A.2.a).(5).(b)	<u>cardiogenic shock;</u>
595		
596	IV.A.2.a).(5).(c)	<u>coronary dissection;</u>
597		
598	IV.A.2.a).(5).(d)	<u>perforation;</u>
599		
600	IV.A.2.a).(5).(e)	<u>slow reflow;</u>
601		
602	IV.A.2.a).(5).(f)	<u>spasm; and,</u>
603		
604	IV.A.2.a).(5).(g)	<u>thrombosis.</u>
605		
606	IV.A.2.a).(6)	<u>must demonstrate competence in the management of</u>
607		<u>patients with vascular assessment complications, including</u>
608		<u>management of closure device complications and</u>
609		<u>pseudoaneurysm; and,</u>
610		
611	IV.A.2.a).(7)	<u>must demonstrate competence in the management of</u>
612		<u>patients with major and minor bleeding complications.</u>

613 including retroperitoneal bleeding.

614

615 **IV.A.2.b)**

Medical Knowledge

616

617

618

619

620

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:

621

622 IV.A.2.b).(1)

must demonstrate knowledge of the scientific method of problem solving and evidence-based decision making; commitment to lifelong learning, and an attitude of caring that is derived from humanistic and professional values.

623

624

625

626

627 IV.A.2.b).(2)

must ~~develop~~ demonstrate a knowledge understanding of indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline, including the appropriate indication for and use of screening tests/procedures;

628

629

630

631

632

633

634 IV.A.2.b).(3)

~~must have formal instruction for the fellows to acquire~~ demonstrate knowledge of the following content areas:

635

636

637 IV.A.2.b).(3).(a)

detailed coronary anatomy;

638

639 IV.A.2.b).(3).(b)

clinical utility and limitations of the treatment of valvular and structural heart disease;

640

641

642 IV.A.2.b).(3).(c)

pathophysiology of restenosis;

643

644 IV.A.2.b).(3).(d)

physiology of coronary flow and detection of flow-limiting conditions;

645

646

647 IV.A.2.b).(3).(e)

radiation physics, biology, and safety related to the use of x-ray imaging equipment;

648

649

650 IV.A.2.b).(3).(f)

~~strengths and limitations, both short- and long-term, of percutaneous versus surgical and medical therapy for a wide variety of clinical and anatomic situations related to cardiovascular disease;~~

651

652

653

654

655 IV.A.2.b).(3).(g)

strengths and limitations of both noninvasive and invasive coronary evaluation during the recovery phase after acute myocardial infarction;

656

657

658

659 IV.A.2.b).(3).(h)

strengths and limitations, both short- and long-term, of differing percutaneous approaches for a wide variety of anatomic situations related to cardiovascular disease;

660

661

662

663

- 664 IV.A.2.b).(3).(i) strengths and weaknesses of mechanical versus
665 lytic approaches for patients with acute myocardial
666 infarction;
667
- 668 IV.A.2.b).(3).(j) ~~understanding the~~ assessment of plaque
669 composition and response to intervention;
670
- 671 IV.A.2.b).(3).(k) the clinical importance of complete versus
672 incomplete revascularization in a wide variety of
673 clinical and anatomic situations;
674
- 675 IV.A.2.b).(3).(l) the role of emergency coronary bypass surgery in
676 the management of complications of percutaneous
677 intervention;
678
- 679 IV.A.2.b).(3).(m) the role and limitations of established and emerging
680 therapies for treatment of restenosis;
681
- 682 IV.A.2.b).(3).(n) the role of platelets and the clotting cascade in
683 response to vascular injury;
684
- 685 IV.A.2.b).(3).(o) the role of randomized clinical trials and registry
686 experiences in clinical decision making; and,
687
- 688 IV.A.2.b).(3).(p) the use of pharmacologic agents appropriate in the
689 post-intervention management of patients.
690

IV.A.2.c)

Practice-based Learning and Improvement

Fellows are expected to develop skills and habits to be able to meet the following goals:

IV.A.2.c).(1)

systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement; and,

IV.A.2.c).(2)

locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems.

IV.A.2.d)

Interpersonal and Communication Skills

Fellows must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.

IV.A.2.d).(1)

Fellows must demonstrate competence in providing consultation and obtaining informed consent.

IV.A.2.e)

Professionalism

715		
716		Fellows must demonstrate a commitment to carrying out
717		professional responsibilities and an adherence to ethical
718		principles.
719		
720	IV.A.2.e).(1)	<i>Fellows must demonstrate:</i>
721		
722	IV.A.2.e).(1).(a)	<u>high standards of ethical behavior, including</u>
723		<u>maintaining appropriate professional boundaries</u>
724		<u>and relationships with other physicians and other</u>
725		<u>health care team members, and avoiding conflicts</u>
726		<u>of interest; and,</u>
727		
728	IV.A.2.e).(1).(b)	<i>a commitment to lifelong learning, and an attitude</i>
729		<i>of caring that is derived from humanistic and</i>
730		<i>professional values.</i>
731		
732	IV.A.2.f)	Systems-based Practice
733		
734		Fellows must demonstrate an awareness of and
735		responsiveness to the larger context and system of health
736		care, as well as the ability to call effectively on other
737		resources in the system to provide optimal health care.
738		
739	IV.A.3.	<u>Curriculum Organization and Fellow Experiences</u>
740		
741	IV.A.3.a)	All 12 months must include appropriate protected, block or
742		concurrent time, for fellow's research, clinical experiences and
743		<u>appropriate protected (block or concurrent) time for research.</u>
744		
745	IV.A.3.b)	<u>Fellows must participate in training using simulation.</u>
746		
747	IV.A.3.c)	<u>The core curriculum must include a didactic program based upon</u>
748		<u>the core knowledge content in the subspecialty area.</u>
749		
750	IV.A.3.c).(1)	<u>The program must afford each fellow an opportunity to</u>
751		<u>review topics covered in conferences that he or she was</u>
752		<u>unable to attend.</u>
753		
754	IV.A.3.c).(2)	<u>Fellows must participate in clinical case conferences,</u>
755		<u>journal clubs, research conferences, and morbidity and</u>
756		<u>mortality or quality improvement conferences.</u>
757		
758	IV.A.3.c).(3)	<u>All core conferences must have at least one faculty</u>
759		<u>member present, and must be scheduled as to ensure peer-</u>
760		<u>peer and peer-faculty interaction.</u>
761		
762	IV.A.3.d)	<u>Fellows must be instructed in practice management relevant to</u>
763		<u>interventional cardiology.</u>
764		
765	IV.A.3.e)	<u>Fellows must attend an outpatient program clinic must exist to</u>

766 provide follow-up care for patients.
767
768 IV.A.3.f) Procedures and Technical Skills
769
770 IV.A.3.f).(1) Direct faculty supervision of procedures performed by each
771 fellow must occur until proficiency has been acquired and
772 documented by the program director.
773
774 IV.A.3.f).(2) ~~A skilled preceptor~~ Faculty members must be available to
775 teach and supervise the fellows in the performance and
776 interpretation of these procedures, which must be
777 documented in each fellow's record, giving including
778 indications, outcomes, diagnoses, and supervisor(s).
779
780 IV.A.3.f).(3) All fellows must:
781
782 | IV.A.3.f).(3).(a) participate in pre-procedural planning, including the
783 | indications for the procedure, and the selection of
784 | the appropriate procedure or instruments;
785
786 IV.A.3.f).(3).(b) perform the critical technical manipulations of the
787 | procedure; and,
788 |
789 | IV.A.3.f).(3).(c) demonstrate substantial involvement in post-
790 | procedure care.
791
792 **IV.B. Fellows' Scholarly Activities**
793
794 IV.B.1. ~~Fellows should participate in scholarly activity.~~ Each program must
795 provide an opportunity for fellows to participate in research or other
796 scholarly activities, including:
797
798 IV.B.1.a) a research project (with faculty mentorship); or,
799
800 IV.B.1.b) participation with the faculty in the initiation and conduct of clinical
801 trials within the department; or,
802
803 IV.B.1.c) participation in quality assurance/quality improvement or process
804 improvement projects.
805
806 **V. Evaluation**
807
808 **V.A. Fellow Evaluation**
809
810 **V.A.1. Formative Evaluation**
811
812 **V.A.1.a) The faculty must evaluate fellow performance in a timely**
813 **manner.**
814
815 V.A.1.a).(1) The faculty must discuss evaluations with each fellow at
816 least every three months. ~~The faculty must discuss this~~

817 ~~evaluation with the fellow at the completion of the~~
818 ~~assignment.~~
819
820 V.A.1.a).(1).(a) Fellow performance in an outpatient follow-up clinic
821 must be reviewed with them verbally and in writing
822 at least every three months.
823
824 V.A.1.a).(2) Assessment of procedural competence should include a
825 formal evaluation process and not be based solely on a
826 minimum number of procedures performed.
827
828 **V.A.1.b) The program must:**
829
830 **V.A.1.b).(1) provide objective assessments of competence in**
831 **patient care, medical knowledge, practice-based**
832 **learning and improvement, interpersonal and**
833 **communication skills, professionalism, and systems-**
834 **based practice;**
835
836 V.A.1.b).(1).(a) Patient Care
837
838 The program must assess the fellow in data
839 gathering, clinical reasoning, patient management,
840 and procedures in both the inpatient and outpatient
841 setting. This assessment must involve direct
842 observation of fellow-patient encounters.
843
844 Each program must define a standard criteria for
845 proficiency-competence for all required and elective
846 procedures.
847
848 V.A.1.b).(1).(a).(i) The record of evaluation must include the
849 fellow's logbook or an equivalent method to
850 demonstrate that each fellow has achieved
851 competence in the performance of required
852 procedures.
853
854 V.A.1.b).(1).(b) Medical Knowledge
855
856 The program must use an objective formative
857 assessment method. The same formative
858 assessment method must be administered at least
859 twice during the program.
860
861 V.A.1.b).(1).(c) Practice-based Learning and Improvement
862
863 The program must use performance data to assess
864 the fellow in:
865
866 V.A.1.b).(1).(c).(i) application of evidence to patient care;
867

868	V.A. 1.b).(1).(c).(ii)	<u>practice improvement;</u>
869		
870	V.A. 1.b).(1).(c).(iii)	<u>teaching skills involving peers and patients;</u>
871		<u>and,</u>
872		
873	V.A. 1.b).(1).(c).(iv)	<u>scholarship.</u>
874		
875	V.A. 1.b).(1).(d)	<u>Interpersonal and Communication Skills</u>
876		
877		<u>The program must use both direct observation and</u>
878		<u>multi-source evaluation, including patients, peers</u>
879		<u>and non-physician team members, to assess fellow</u>
880		<u>performance in:</u>
881		
882	V.A. 1.b).(1).(d).(i)	<u>communication with patient and family;</u>
883		
884	V.A. 1.b).(1).(d).(ii)	<u>teamwork;</u>
885		
886	V.A. 1.b).(1).(d).(iii)	<u>communication with peers, including</u>
887		<u>transitions in care; and,</u>
888		
889	V.A. 1.b).(1).(d).(iv)	<u>record keeping.</u>
890		
891	V.A. 1.b).(1).(e)	<u>Professionalism</u>
892		
893		<u>The program must use multi-source evaluation,</u>
894		<u>including patients, peers, and non-physician team</u>
895		<u>members, to assess each fellow:</u>
896		
897	V.A. 1.b).(1).(e).(i)	<u>honesty and integrity;</u>
898		
899	V.A. 1.b).(1).(e).(ii)	<u>ability to meet professional responsibilities;</u>
900		
901	V.A. 1.b).(1).(e).(iii)	<u>ability to maintain appropriate professional</u>
902		<u>relationships with patients and colleagues;</u>
903		<u>and,</u>
904		
905	V.A. 1.b).(1).(e).(iv)	<u>commitment to self-improvement.</u>
906		
907	V.A. 1.b).(1).(f)	<u>Systems-based Practice</u>
908		
909		<u>The program must use multi-source evaluation,</u>
910		<u>including peers, and non-physician team members,</u>
911		<u>to assess each fellow's:</u>
912		
913	V.A. 1.b).(1).(f).(i)	<u>ability to provide care coordination,</u>
914		<u>including transition of care;</u>
915		
916	V.A. 1.b).(1).(f).(ii)	<u>ability to work in interdisciplinary teams;</u>
917		
918	V.A. 1.b).(1).(f).(iii)	<u>advocacy for quality of care; and,</u>

- 919
- 920 V.A. 1.b).(1).(f).(iv) *ability to identify system problems and*
- 921 *participate in improvement activities.*
- 922
- 923 V.A.1.b).(2) use multiple evaluators (e.g., faculty, peers, patients,
- 924 self, and other professional staff); and,
- 925
- 926 V.A.1.b).(3) provide each fellow with documented semiannual
- 927 evaluation of performance with feedback.
- 928
- 929 V.A.1.c) The evaluation of fellow performance must be accessible for
- 930 review by the fellows, in accordance with institutional policy.
- 931
- 932 V.A.2. Summative Evaluation
- 933
- 934 The program director must provide a summative evaluation for each
- 935 fellow upon completion of the program. This evaluation must
- 936 become part of the fellow's permanent record maintained by the
- 937 institution, and must be accessible for review by the fellow in
- 938 accordance with institutional policy. This evaluation must:
- 939
- 940 V.A.2.a) document the fellow's performance during their education;
- 941 and,
- 942
- 943 V.A.2.b) verify that the fellow has demonstrated sufficient competence
- 944 to enter practice without direct supervision.
- 945
- 946 V.B. Faculty Evaluation
- 947
- 948 V.B.1. At least annually, the program must evaluate faculty performance as
- 949 it relates to the educational program.
- 950
- 951 V.B.2. These evaluations should include a review of the faculty's clinical
- 952 teaching abilities, commitment to the educational program, clinical
- 953 knowledge, professionalism, and scholarly activities. These
- 954 evaluations must be confidential, and must be reviewed with the
- 955 faculty members annually.
- 956
- 957 V.B.3. *Fellows must have the opportunity to provide confidential written*
- 958 *evaluations of each ~~teaching-attending-supervising~~ faculty member at the*
- 959 *end of a rotation.*
- 960
- 961 V.B.4. *~~be reviewed~~ These evaluations must be reviewed with attending each*
- 962 *faculty member annually.*
- 963
- 964 V.C. Program Evaluation and Improvement
- 965
- 966 V.C.1. The program must document formal, systematic evaluation of the
- 967 curriculum at least annually. The program must monitor and track
- 968 each of the following areas:
- 969

- 970 **V.C.1.a)** fellow performance;
- 971
- 972 **V.C.1.b)** faculty development;
- 973
- 974 V.C.1.c) graduate performance, including performance of program
- 975 graduates on the certification examination; and,
- 976
- 977 V.C.1.c).(1) *At least 80% of program's graduating fellows from those*
- 978 *eligible to take an ABIM subspecialty certifying*
- 979 *examination upon completion of their training for the most*
- 980 *recently defined five year period who are eligible should*
- 981 *must have taken an the ABIM subspecialty certifying*
- 982 *examination. (Note: Five-year rolling pass rate for first time*
- 983 *takers of the ABIM certifying examination will be examined*
- 984 *at each program review).*
- 985
- 986 V.C.1.c).(2) *At least 80% of a program's graduates taking the ABIM*
- 987 *certifying examination for the first time during the most*
- 988 *recently defined five year period should pass.*
- 989
- 990 V.C.1.c).(3) *At least 80% of the entering fellows should have*
- 991 *completed the program when averaged over a five-year*
- 992 *period.*
- 993
- 994 **V.C.2.** If deficiencies are found, the program should prepare a written plan
- 995 of action to document initiatives to improve performance in the
- 996 areas listed in section V.C.1. The action plan should be reviewed
- 997 and approved by the teaching faculty and documented in meeting
- 998 minutes.
- 999
- 1000 V.C.3. *Representative program personnel, at a minimum to include the program*
- 1001 *director, representative faculty, and one fellow, must review program*
- 1002 *goals and objectives, and the effectiveness with which they are achieved.*
- 1003
- 1004 **VI. Fellow Duty Hours in the Learning and Working Environment**
- 1005
- 1006 **VI.A. Professionalism, Personal Responsibility, and Patient Safety**
- 1007
- 1008 **VI.A.1.** Programs and sponsoring institutions must educate fellows and
- 1009 faculty members concerning the professional responsibilities of
- 1010 physicians to appear for duty appropriately rested and fit to provide
- 1011 the services required by their patients.
- 1012
- 1013 **VI.A.2.** The program must be committed to and responsible for promoting
- 1014 patient safety and fellow well-being in a supportive educational
- 1015 environment.
- 1016
- 1017 **VI.A.3.** The program director must ensure that fellows are integrated and
- 1018 actively participate in interdisciplinary clinical quality improvement
- 1019 and patient safety programs.
- 1020

- 1021 **VI.A.4.** **The learning objectives of the program must:**
1022
1023 **VI.A.4.a)** **be accomplished through an appropriate blend of supervised**
1024 **patient care responsibilities, clinical teaching, and didactic**
1025 **educational events; and,**
1026
1027 **VI.A.4.b)** **not be compromised by excessive reliance on fellows to fulfill**
1028 **non-physician service obligations.**
1029
1030 ~~VI.A.1.a).(1)~~ ~~Fellows' service responsibilities must be limited to patients~~
1031 ~~for whom the teaching service has diagnostic and~~
1032 ~~therapeutic responsibility.~~
1033
1034 **VI.A.5.** **The program director and sponsoring institution must ensure a**
1035 **culture of professionalism that supports patient safety and personal**
1036 **responsibility. Fellows and faculty members must demonstrate an**
1037 **understanding and acceptance of their personal role in the**
1038 **following:**
1039
1040 **VI.A.5.a)** **assurance of the safety and welfare of patients entrusted to**
1041 **their care;**
1042
1043 **VI.A.5.b)** **provision of patient- and family-centered care;**
1044
1045 **VI.A.5.c)** **assurance of their fitness for duty;**
1046
1047 **VI.A.5.d)** **management of their time before, during, and after clinical**
1048 **assignments;**
1049
1050 **VI.A.5.e)** **recognition of impairment, including illness and fatigue, in**
1051 **themselves and in their peers;**
1052
1053 **VI.A.5.f)** **attention to lifelong learning;**
1054
1055 **VI.A.5.g)** **the monitoring of their patient care performance improvement**
1056 **indicators; and,**
1057
1058 **VI.A.5.h)** **honest and accurate reporting of duty hours, patient**
1059 **outcomes, and clinical experience data.**
1060
1061 **VI.A.6.** **All fellows and faculty members must demonstrate responsiveness**
1062 **to patient needs that supersedes self-interest. Physicians must**
1063 **recognize that under certain circumstances, the best interests of the**
1064 **patient may be served by transitioning that patient's care to another**
1065 **qualified and rested provider.**
1066
1067 **VI.B.** **Transitions of Care**
1068
1069 **VI.B.1.** **Programs must design clinical assignments to minimize the number**
1070 **of transitions in patient care.**
1071

- 1072 **VI.B.2.** Sponsoring institutions and programs must ensure and monitor
1073 effective, structured hand-over processes to facilitate both
1074 continuity of care and patient safety.
1075
- 1076 **VI.B.3.** Programs must ensure that fellows are competent in communicating
1077 with team members in the hand-over process.
1078
- 1079 **VI.B.4.** The sponsoring institution must ensure the availability of schedules
1080 that inform all members of the health care team of attending
1081 physicians and fellows currently responsible for each patient's care.
1082
- 1083 **VI.C.** Alertness Management/Fatigue Mitigation
1084
- 1085 **VI.C.1.** The program must:
1086
- 1087 **VI.C.1.a)** educate all faculty members and fellows to recognize the
1088 signs of fatigue and sleep deprivation;
1089
- 1090 **VI.C.1.b)** educate all faculty members and fellows in alertness
1091 management and fatigue mitigation processes; and,
1092
- 1093 **VI.C.1.c)** adopt fatigue mitigation processes to manage the potential
1094 negative effects of fatigue on patient care and learning, such
1095 as naps or back-up call schedules.
1096
- 1097 **VI.C.2.** Each program must have a process to ensure continuity of patient
1098 care in the event that a fellow may be unable to perform his/her
1099 patient care duties.
1100
- 1101 **VI.C.3.** The sponsoring institution must provide adequate sleep facilities
1102 and/or safe transportation options for fellows who may be too
1103 fatigued to safely return home.
1104
- 1105 **VI.D.** Supervision of Fellows
1106
- 1107 **VI.D.1.** In the clinical learning environment, each patient must have an
1108 identifiable, appropriately-credentialed and privileged attending
1109 physician (or licensed independent practitioner as approved by each
1110 Review Committee) who is ultimately responsible for that patient's
1111 care.
1112
- 1113 **VI.D.1.a)** This information should be available to fellows, faculty
1114 members, and patients.
1115
- 1116 **VI.D.1.b)** Fellows and faculty members should inform patients of their
1117 respective roles in each patient's care.
1118
- 1119 **VI.D.2.** The program must demonstrate that the appropriate level of
1120 supervision is in place for all fellows who care for patients.
1121
1122 Supervision may be exercised through a variety of methods. Some

1123 activities require the physical presence of the supervising faculty
1124 member. For many aspects of patient care, the supervising
1125 physician may be a more advanced fellow. Other portions of care
1126 provided by the fellow can be adequately supervised by the
1127 immediate availability of the supervising faculty member or fellow
1128 physician, either in the institution, or by means of telephonic and/or
1129 electronic modalities. In some circumstances, supervision may
1130 include post-hoc review of fellow-delivered care with feedback as to
1131 the appropriateness of that care.

1132
1133 **VI.D.3. Levels of Supervision**

1134
1135 To ensure oversight of fellow supervision and graded authority and
1136 responsibility, the program must use the following classification of
1137 supervision:

1138
1139 **VI.D.3.a) Direct Supervision – the supervising physician is physically
1140 present with the fellow and patient.**

1141
1142 **VI.D.3.b) Indirect Supervision:**

1143
1144 **VI.D.3.b).(1) with direct supervision immediately available – the
1145 supervising physician is physically within the hospital
1146 or other site of patient care, and is immediately
1147 available to provide Direct Supervision.**

1148
1149 **VI.D.3.b).(2) with direct supervision available – the supervising
1150 physician is not physically present within the hospital
1151 or other site of patient care, but is immediately
1152 available by means of telephonic and/or electronic
1153 modalities, and is available to provide Direct
1154 Supervision.**

1155
1156 **VI.D.3.c) Oversight – the supervising physician is available to provide
1157 review of procedures/encounters with feedback provided
1158 after care is delivered.**

1159
1160 **VI.D.4. The privilege of progressive authority and responsibility, conditional
1161 independence, and a supervisory role in patient care delegated to
1162 each fellow must be assigned by the program director and faculty
1163 members.**

1164
1165 **VI.D.4.a) The program director must evaluate each fellow’s abilities
1166 based on specific criteria. When available, evaluation should
1167 be guided by specific national standards-based criteria.**

1168
1169 **VI.D.4.b) Faculty members functioning as supervising physicians
1170 should delegate portions of care to fellows, based on the
1171 needs of the patient and the skills of the fellows.**

1172
1173 **VI.D.4.c) Fellows should serve in a supervisory role of residents or**

1174 junior fellows in recognition of their progress toward
1175 independence, based on the needs of each patient and the
1176 skills of the individual fellow.
1177

1178 **VI.D.5.** Programs must set guidelines for circumstances and events in
1179 which fellows must communicate with appropriate supervising
1180 faculty members, such as the transfer of a patient to an intensive
1181 care unit, or end-of-life decisions.
1182

1183 **VI.D.5.a)** Each fellow must know the limits of his/her scope of
1184 authority, and the circumstances under which he/she is
1185 permitted to act with conditional independence.
1186

1187 **VI.D.6.** Faculty supervision assignments should be of sufficient duration to
1188 assess the knowledge and skills of each fellow and delegate to
1189 him/her the appropriate level of patient care authority and
1190 responsibility.
1191

1192 **VI.E. Clinical Responsibilities**

1193
1194 The clinical responsibilities for each fellow must be based on PGY-level,
1195 patient safety, fellow education, severity and complexity of patient
1196 illness/condition and available support services.
1197

1198 **VI.F. Teamwork**

1199
1200 Fellows must care for patients in an environment that maximizes effective
1201 communication. This must include the opportunity to work as a member of
1202 effective interprofessional teams that are appropriate to the delivery of care
1203 in the specialty.
1204

1205 **VI.G. Fellow Duty Hours**

1206

1207 **VI.G.1. Maximum Hours of Work per Week**

1208
1209 Duty hours must be limited to 80 hours per week, averaged over a
1210 four-week period, inclusive of all in-house call activities and all
1211 moonlighting.
1212

1213 **VI.G.1.a) Duty Hour Exceptions**

1214
1215 A Review Committee may grant exceptions for up to 10% or a
1216 maximum of 88 hours to individual programs based on a
1217 sound educational rationale.
1218
1219 *The Review Committee for Internal Medicine will not consider*
1220 *requests for exceptions to the 80-hour limit to the fellows' work*
1221 *week.*
1222

1223 **VI.G.1.a).(1) In preparing a request for an exception the program**
1224 **director must follow the duty hour exception policy**

1225 from the ACGME Manual on Policies and Procedures.
1226
1227 **VI.G.1.a).(2)** Prior to submitting the request to the Review
1228 Committee, the program director must obtain approval
1229 of the institution's GMEC and DIO.
1230
1231 **VI.G.2. Moonlighting**
1232
1233 **VI.G.2.a)** Moonlighting must not interfere with the ability of the fellow
1234 to achieve the goals and objectives of the educational
1235 program.
1236
1237 **VI.G.2.b)** Time spent by fellows in Internal and External Moonlighting
1238 (as defined in the ACGME Glossary of Terms) must be
1239 counted towards the 80-hour Maximum Weekly Hour Limit.
1240
1241 **VI.G.3. Mandatory Time Free of Duty**
1242
1243 Fellows must be scheduled for a minimum of one day free of duty
1244 every week (when averaged over four weeks). At-home call cannot
1245 be assigned on these free days.
1246
1247 **VI.G.4. Maximum Duty Period Length**
1248
1249 Duty periods of fellows may be scheduled to a maximum of 24 hours
1250 of continuous duty in the hospital. Programs must encourage
1251 fellows to use alertness management strategies in the context of
1252 patient care responsibilities. Strategic napping, especially after 16
1253 hours of continuous duty and between the hours of 10:00 p.m. and
1254 8:00 a.m., is strongly suggested.
1255
1256 **VI.G.4.a)** It is essential for patient safety and fellow education that
1257 effective transitions in care occur. Fellows may be allowed to
1258 remain on-site in order to accomplish these tasks; however,
1259 this period of time must be no longer than an additional four
1260 hours.
1261
1262 **VI.G.4.b)** Fellows must not be assigned additional clinical
1263 responsibilities after 24 hours of continuous in-house duty.
1264
1265 **VI.G.4.c)** In unusual circumstances, fellows, on their own initiative,
1266 may remain beyond their scheduled period of duty to
1267 continue to provide care to a single patient. Justifications for
1268 such extensions of duty are limited to reasons of required
1269 continuity for a severely ill or unstable patient, academic
1270 importance of the events transpiring, or humanistic attention
1271 to the needs of a patient or family.
1272
1273 **VI.G.4.c).(1)** Under those circumstances, the fellow must:
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1275 **VI.G.4.c).(1).(a)** appropriately hand over the care of all other

1276		patients to the team responsible for their continuing care; and,
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1278		
1279	VI.G.4.c).(1).(b)	document the reasons for remaining to care for the patient in question and submit that documentation in every circumstance to the program director.
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1284	VI.G.4.c).(2)	The program director must review each submission of additional service, and track both individual fellow and program-wide episodes of additional duty.
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1288	VI.G.5.	Minimum Time Off between Scheduled Duty Periods
1289		
1290	VI.G.5.a)	Fellows must be prepared to enter the unsupervised practice of medicine and care for patients over irregular or extended periods.
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1294		<u>Internal medicine subspecialty fellows are considered to be in the final years of education.</u>
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1297	VI.G.5.a).(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 fellows have eight hours free of duty between scheduled duty periods, there may be circumstances when these fellows must stay on duty to care for their patients or return to the hospital with fewer than eight hours free of duty.
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1306	VI.G.5.a).(1).(a)	Circumstances of return-to-hospital activities with fewer than eight hours away from the hospital by fellows must be monitored by the program director.
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1311	VI.G.5.a).(1).(b)	<u>In unusual circumstances, fellows may remain beyond their scheduled period of duty or return after their scheduled period of duty to provide care to a single patient. Justifications for such extensions of duty are limited to reasons of required continuity of care for a severely ill or unstable patient, academic importance of the events transpiring, or humanistic attention to the needs of the patient or family. Such episodes should be rare, must be of the fellows' own initiative, and need not initiate a new 'off-duty period' nor require a change in the scheduled 'off-duty period.'</u>
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1325	VI.G.5.a).(1).(c)	<u>Under such circumstances, the fellow must appropriately hand over care of all other patients to</u>
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1327 the team responsible for their continuing care, and
1328 document the reasons for remaining or returning to
1329 care for the patient in question and submit that
1330 documentation to the program director.

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1332 VI.G.5.a).(1).(d) The program director must review each submission
1333 of additional service and track both individual
1334 fellows' and program-wide episodes of additional
1335 duty.

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1337 **VI.G.6. Maximum Frequency of In-House Night Float**
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1339 **Fellows must not be scheduled for more than six consecutive nights**
1340 **of night float.**

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1342 **VI.G.7. Maximum In-House On-Call Frequency**
1343
1344 **Fellows must be scheduled for in-house call no more frequently than**
1345 **every-third-night (when averaged over a four-week period).**

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1347 VI.G.7.a) *Internal Medicine ~~residency programs are~~ fellowships must not*
1348 *~~allowed to~~ average in-house call over a four-week period.*

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1350 **VI.G.8. At-Home Call**
1351
1352 **VI.G.8.a) Time spent in the hospital by fellows on at-home call must**
1353 **count towards the 80-hour maximum weekly hour limit. The**
1354 **frequency of at-home call is not subject to the every-third-**
1355 **night limitation, but must satisfy the requirement for one-day-**
1356 **in-seven free of duty, when averaged over four weeks.**

1357
1358 **VI.G.8.a).(1) At-home call must not be so frequent or taxing as to**
1359 **preclude rest or reasonable personal time for each**
1360 **fellow.**

1361
1362 **VI.G.8.b) Fellows are permitted to return to the hospital while on at-**
1363 **home call to care for new or established patients. Each**
1364 **episode of this type of care, while it must be included in the**
1365 **80-hour weekly maximum, will not initiate a new “off-duty**
1366 **period”.**

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1370 ACGME Approved: February 5, 2011 Effective: July 1, 2012