

# ACGME Program Requirements for Graduate Medical Education in Interventional Cardiology (Internal Medicine)

ACGME-approved: February 5, 2011; effective: July 1, 2012

ACGME approved categorization: September 30, 2012; effective: July 1, 2013

Revised Common Program Requirements effective: July 1, 2015 Revised Common Program Requirements effective: July 1, 2016 Revised Common Program Requirements effective: July 1, 2017

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#### One-year Common Program Requirements are in BOLD

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

#### Introduction

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

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

- Int.B. Interventional cardiology is the practice of techniques that improve coronary circulation, alleviate valvular stenosis and regurgitation, and treat other structural heart disease. Interventional cardiology fellowships provide advanced cardiology education to allow a fellow to acquire competency in the subspecialty with sufficient expertise to act as a provider of interventional procedures and as an independent consultant.
- Int.C. The educational program in interventional cardiology must be 12 months in length. (Core)\*

#### I. Institutions

#### I.A. Sponsoring Institution

One sponsoring institution must assume ultimate responsibility for the

program, as described in the Institutional Requirements, and this responsibility extends to fellow assignments at all participating sites. (Core)

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

I.A.1.	An interventional cardiology fellowship program must function as an
	integral part of an ACGME-accredited fellowship program in
	cardiovascular disease. (Core)

- I.A.2. The sponsoring institution must provide the program director with adequate support for the administrative activities of the fellowship. (Core)
- I.A.2.a) The program director must not be required to generate clinical or other income to provide this administrative support. (Core)
- I.A.2.b) It is suggested this support be 25-50% of the program director's salary, or protected time, depending on the size of the program.
- I.A.3. The sponsoring institution and participating sites must share appropriate inpatient and outpatient faculty performance data with the program director. (Core)

#### I.B. Participating Sites

I.B.1. There must be a program letter of agreement (PLA) between the program and each participating site providing a required assignment. The PLA must be renewed at least every five years. (Core)

#### The PLA should:

- I.B.1.a) identify the faculty who will assume both educational and supervisory responsibilities for fellows; (Detail)
- I.B.1.b) specify their responsibilities for teaching, supervision, and formal evaluation of fellows, as specified later in this document; (Detail)
- I.B.1.c) specify the duration and content of the educational experience; and, (Detail)
- I.B.1.d) state the policies and procedures that will govern fellow education during the assignment. (Detail)
- I.B.2. The program director must submit any additions or deletions of participating sites routinely providing an educational experience, required for all fellows, of one month full time equivalent (FTE) or more through the Accreditation Council for Graduate Medical Education (ACGME) Accreditation Data System (ADS). (Core)

II.	Program Personnel and Resources
II.A.	Program Director
II.A.1.	There must be a single program director with authority and accountability for the operation of the program. The sponsoring institution's GMEC must approve a change in program director. (Core)
II.A.1.	The program director must submit this change to the ACGME via the ADS. (Core)
II.A.2.	Qualifications of the program director must include:
II.A.2.	requisite specialty expertise and documented educational and administrative experience acceptable to the Review Committee; (Core)
II.A.2.	The program director must have at least five years of participation as an active faculty member in an ACGME-accredited internal medicine cardiovascular disease fellowship or interventional cardiology fellowship. (Detail)
II.A.2.	current certification in the subspecialty by the American Board of Internal Medicine (ABIM), or subspecialty qualifications that are acceptable to the Review Committee; and, (Core)
II.A.2.	o).(1) The Review Committee only accepts current ABIM certification in interventional cardiology. (Core)
II.A.2.	current medical licensure and appropriate medical staff appointment. (Core)
II.A.3.	The program director must administer and maintain an educational environment conducive to educating the fellows in each of the ACGME competency areas. (Core)
	The program director must:
II.A.3.	prepare and submit all information required and requested by the ACGME; (Core)
II.A.3.	be familiar with and oversee compliance with ACGME and Review Committee policies and procedures as outlined in the ACGME Manual of Policies and Procedures; (Detail)
II.A.3.	obtain review and approval of the sponsoring institution's GMEC/DIO before submitting information or requests to the ACGME, including: (Core)

II.A.3.c).(1)	all applications for ACGME accreditation of new programs; (Detail)
II.A.3.c).(2)	changes in fellow complement; (Detail)
II.A.3.c).(3)	major changes in program structure or length of training; (Detail)
II.A.3.c).(4)	progress reports requested by the Review Committee;
II.A.3.c).(5)	requests for increases or any change to fellow duty hours; (Detail)
II.A.3.c).(6)	voluntary withdrawals of ACGME-accredited programs; (Detail)
II.A.3.c).(7)	requests for appeal of an adverse action; and, (Detail)
II.A.3.c).(8)	appeal presentations to a Board of Appeal or the ACGME. (Detail)
II.A.3.d)	obtain DIO review and co-signature on all program application forms, as well as any correspondence or document submitted to the ACGME that addresses: (Detail)
II.A.3.d).(1)	program citations; and/or, (Detail)
II.A.3.d).(2)	request for changes in the program that would have significant impact, including financial, on the program or institution. (Detail)
II.A.3.e)	ensure that fellows' service responsibilities are limited to patients for whom the teaching service has diagnostic and therapeutic responsibility; (Core)
II.A.3.f)	dedicate an average of 20 hours per week of his or her professional effort to the fellowship, including time for administration of the program; (Detail)
II.A.3.g)	have a reporting relationship with the program director of the cardiovascular disease program to ensure compliance with ACGME accreditation standards; and, (Core)
II.A.3.h)	be available at the primary clinical site. (Detail)
II.B.	Faculty
II.B.1.	There must be a sufficient number of faculty with documented qualifications to instruct and supervise all fellows. (Core)

II.B.2.	The faculty must devote sufficient time to the educational program to fulfill their supervisory and teaching responsibilities and demonstrate a strong interest in the education of fellows. (Core)
II.B.3.	The physician faculty must have current certification in the subspecialty by the American Board of Internal Medicine or possess qualifications judged acceptable to the Review Committee. (Core)
II.B.4.	The physician faculty must possess current medical licensure and appropriate medical staff appointment. (Core)
II.B.5.	The physician faculty must meet professional standards of ethical behavior. (Core)
II.B.6.	The faculty must establish and maintain an environment of inquiry and scholarship with an active research component. (Core)
II.B.6.a)	The faculty must regularly participate in organized clinical discussions, rounds, journal clubs, and conferences. (Detail)
II.B.6.b)	Some members of the faculty should also demonstrate scholarship by one or more of the following: (Detail)
II.B.6.b).(1)	peer-reviewed funding; (Detail)
II.B.6.b).(2)	publication of original research or review articles in peer-reviewed journals or chapters in textbooks; (Detail)
II.B.6.b).(3)	publication or presentation of case reports or clinical series at local, regional, or national professional and scientific society meetings; or, (Detail)
II.B.6.b).(4)	participation in national committees or educational organizations. (Detail)
II.B.6.c)	Faculty should encourage and support fellows in scholarly activities. (Core)
II.B.7.	Each faculty member involved in supervising fellows in the performance of interventional procedures must perform a minimum of 75 interventions per year, with the majority at the primary clinical site. (Detail)
II.B.8.	Key Clinical Faculty
II.B.8.a)	In addition to the program director, each program must have at least one Key Clinical Faculty (KCF). (Core)
II.B.8.b)	KCF are attending physicians who dedicate, on average, 10 hours per week throughout the year to the program. (Core)
II.B.8.c)	For programs with more than two fellows, there must be at least

one KCF for every 1.5 fellows. (Core)

II.B.8.d) Key Clinical Faculty Qualifications

II.B.8.d).(1) KCF must be active clinicians with knowledge of,

experience with, and commitment to the interventional

cardiology as a discipline. (Core)

II.B.8.d).(2) KCF must have current ABIM certification in interventional

cardiology. (Core)

II.B.8.e) Key Clinical Faculty Responsibilities

II.B.8.e).(1) In addition to the responsibilities of all individual faculty

members, the KCF and the program director are responsible for the planning, implementation, monitoring, and evaluation of the fellows' clinical and research

education. (Core)

II.B.8.e).(2) At least 50% of the KCF must demonstrate evidence of

productivity in scholarship, specifically, peer-reviewed funding; publication of original research, review articles, editorials, or case reports in peer-reviewed journals; or

chapters in textbooks. (Detail)

II.B.9. Access to faculty with expertise in congenital heart disease in adults,

hematology, pharmacology, radiation safety, and research is suggested.

(Detail)

#### II.C. Other Program Personnel

The institution and the program must jointly ensure the availability of all necessary professional, technical, and clerical personnel for the effective administration of the program. (Core)

II.C.1. There must be services available from other health care professionals,

including dietitians, language interpreters, nurses, occupational

therapists, physical therapists, and social workers. (Detail)

II.C.2. There must be appropriate and timely consultation from other specialties.

(Detail)

#### II.D. Resources

The institution and the program must jointly ensure the availability of adequate resources for fellow education, as defined in the specialty program requirements. (Core)

II.D.1. Space and Equipment

There must be space and equipment for the program, including meeting

	rooms, examination rooms, computers, visual and other educational aids, and work/study space. (Core)
II.D.2.	Facilities
II.D.2.a)	Inpatient and outpatient systems must be in place to prevent fellows from performing routine clerical functions, such as scheduling tests and appointments, and retrieving records and letters. (Detail)
II.D.2.b)	The sponsoring institution must provide the broad range of facilities and clinical support services required to provide comprehensive care of adult patients. (Core)
II.D.2.c)	Fellows must have access to a lounge facility during assigned duty hours. (Detail)
II.D.2.d)	When fellows are in the hospital, assigned night duty, or called in from home, they must be provided with a secure space for their belongings. (Detail)
II.D.3.	Laboratory Services
	Each of the following must be present at the primary clinical site:
II.D.3.a)	cardiac catheterization laboratories, each equipped with cardiac fluoroscopic equipment, digital imaging, recording devices, a full complement of interventional devices, and resuscitative equipment; and, (Core)
II.D.3.a).(1)	The primary laboratory must perform a minimum of 400 interventional procedures per year, and each secondary laboratory must perform a minimum of 200 interventional procedures per year. (Core)
II.D.3.b)	cardiac radionuclide laboratories. (Detail)
II.D.4.	Other Support Services
	The following must be present at the primary clinical site:
II.D.4.a)	an active cardiac surgery program; (Core)
II.D.4.b)	a cardiac surgery intensive care unit; and, (Core)
II.D.4.c)	a cardiac intensive care unit. (Core)
II.D.5.	Medical Records
	Access to an electronic health record should be provided. In the absence of an existing electronic health record, institutions must demonstrate

institutional commitment to its development and progress toward its implementation. (Core)

II.D.6. Patient Population

II.D.6.a) The patient population must have a variety of clinical problems

and stages of diseases. (Core)

II.D.6.b) There must be patients of each gender, with a broad age range,

including geriatric patients. (Core)

II.D.6.c) A sufficient number of patients must be available to enable each

fellow to achieve the required educational outcomes. (Core)

#### II.E. Medical Information Access

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

#### III. Fellow Appointments

#### III.A. Eligibility Requirements – Fellowship Programs

All required clinical education for entry into ACGME-accredited fellowship programs must be completed in an ACGME-accredited residency program, or in an RCPSC-accredited or CFPC-accredited residency program located in Canada. (Core)

Prior to appointment in the fellowship, fellows should have completed a three-year ACGME- or RCPSC-accredited cardiovascular disease program. (Core)

III.A.1. Fellowship programs must receive verification of each entering fellow's level of competency in the required field using ACGME or CanMEDS Milestones assessments from the core residency program. (Core)

#### III.A.2. Fellow Eligibility Exception

A Review Committee may grant the following exception to the fellowship eligibility requirements:

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

III.A.2.a) Assessment by the program director and fellowship selection committee of the applicant's suitability to enter the program,

based on prior training and review of the summative evaluations of training in the core specialty; and, (Core)

III.A.2.b) Review and approval of the applicant's exceptional

qualifications by the GMEC or a subcommittee of the GMEC;

and, (Core)

III.A.2.c) Satisfactory completion of the United States Medical

Licensing Examination (USMLE) Steps 1, 2, and, if the

applicant is eligible, 3; and, (Core)

III.A.2.d) For an international graduate, verification of Educational

Commission for Foreign Medical Graduates (ECFMG)

certification; and, (Core)

III.A.2.e) Applicants accepted by this exception must complete

fellowship Milestones evaluation (for the purposes of establishment of baseline performance by the Clinical Competency Committee), conducted by the receiving fellowship program within six weeks of matriculation. This evaluation may be waived for an applicant who has

completed an ACGME International-accredited residency based on the applicant's Milestones evaluation conducted at

the conclusion of the residency program; and, (Core)

III.A.2.e).(1) If the trainee does not meet the expected level of

Milestones competency following entry into the fellowship program, the trainee must undergo a period of remediation, overseen by the Clinical Competency

Committee and monitored by the GMEC or a

subcommittee of the GMEC. This period of remediation must not count toward time in fellowship training. (Core)

\*\* An exceptionally qualified applicant has (1) completed a non-ACGME-accredited residency program in the core specialty, and (2) demonstrated clinical excellence, in comparison to peers, throughout training. Additional evidence of exceptional qualifications is required, which may include one of the following: (a) participation in additional clinical or research training in the specialty or subspecialty; (b) demonstrated scholarship in the specialty or subspecialty; (c) demonstrated leadership during or after residency training; (d) completion of an ACGME-International-accredited residency program.

III.A.2.f) Fellows from non-ACGME- or RCPSC-accredited programs must have completed at least three years of cardiovascular disease

education prior to starting the fellowship. (Core)

III.A.2.f).(1)

The program director must inform applicants from non-ACGME-accredited programs, prior to appointment and in writing, of the ABIM policies and procedures that will affect

their eligibility for ABIM certification. (Detail)

III.A.3. The Review Committee for Internal Medicine does allow exceptions to the Eligibility Requirements for Fellowship Programs in Section III.A.

#### III.B. Number of Fellows

The program's educational resources must be adequate to support the number of fellows appointed to the program. (Core)

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

#### IV. Educational Program

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

IV.A.1. Skills and competencies the fellow will be able to demonstrate at the conclusion of the program. The program must distribute these skills and competencies to fellows and faculty at least annually, in either written or electronic form. (Core)

IV.A.2. ACGME Competencies

The program must integrate the following ACGME competencies into the curriculum: (Core)

IV.A.2.a) Patient Care and Procedural Skills

IV.A.2.a).(1)

Fellows must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Fellows: (Outcome)

IV.A.2.a).(1).(a)

must demonstrate competence in the practice of health promotion, disease prevention, diagnosis, care, and treatment of patients of each gender, from adolescence to old age, during health and all stages of illness; (Outcome)

IV.A.2.a).(1).(b) must demonstrate competence in the prevention, evaluation, and management of both inpatients and outpatients with:

IV.A.2.a).(1).(b).(i) acute ischemic syndromes; (Outcome)

IV.A.2.a).(1).(b).(ii) bleeding disorders or complications associated with percutaneous intervention or drugs, which may include: (Outcome)

IV.A.2.a).(1).(b).(ii).(a)	bleeding after thrombolytic usage;
IV.A.2.a).(1).(b).(ii).(b)	direct or indirect thrombin inhibitor usage; (Detail)
IV.A.2.a).(1).(b).(ii).(c)	glycoprotein IIb/IIIa inhibitor usage; and, (Detail)
IV.A.2.a).(1).(b).(ii).(d)	thienopyridine or other antiplatelet usage. (Detail)
IV.A.2.a).(1).(b).(iii)	chronic ischemic heart disease; and, (Outcome)
IV.A.2.a).(1).(b).(iv)	valvular and structural heart disease. (Outcome)
IV.A.2.a).(1).(c)	must demonstrate competence in:
IV.A.2.a).(1).(c).(i)	care of patients before and after interventional procedures; (Outcome)
IV.A.2.a).(1).(c).(ii)	care of patients in the cardiac care unit, emergency department, or other intensive care settings; (Outcome)
IV.A.2.a).(1).(c).(iii)	outpatient follow-up of patients treated with drugs, interventions, devices, or surgery;
IV.A.2.a).(1).(c).(iv)	use of antiarrhythmic drugs; (Outcome)
IV.A.2.a).(1).(c).(v)	use and limitations of intra-aortic balloon counterpulsation (IABP) and other hemodynamic support devices (as available); (Outcome)
IV.A.2.a).(1).(c).(vi)	use of thrombolytic and antithrombolytic, antiplatelet, and antithrombin agents; and, (Outcome)
IV.A.2.a).(1).(c).(vii)	use of vasoactive agents for epicardial and microvascular spasm. (Outcome)
IV.A.2.a).(1).(d)	must demonstrate competence in the management of mechanical complications of percutaneous intervention, which may include: (Outcome)
IV.A.2.a).(1).(d).(i)	cardiac tamponade, including pericardiocentesis; (Detail)

IV.A.2.a).(1).(d).(ii)	cardiogenic shock; (Detail)
IV.A.2.a).(1).(d).(iii)	coronary dissection; (Detail)
IV.A.2.a).(1).(d).(iv)	perforation; (Detail)
IV.A.2.a).(1).(d).(v)	slow reflow; (Detail)
IV.A.2.a).(1).(d).(vi)	spasm; and, (Detail)
IV.A.2.a).(1).(d).(vii)	thrombosis. (Detail)
IV.A.2.a).(1).(e)	must demonstrate competence in the management of patients with vascular assessment complications, including management of closure device complications and pseudoaneurysm; and, (Outcome)
IV.A.2.a).(1).(f)	must demonstrate competence in the management of patients with major and minor bleeding complications, including retroperitoneal bleeding.
IV.A.2.a).(2)	Fellows must be able to competently perform all
	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:
	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:
IV.A.2.a).(2).(a)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:
IV.A.2.a).(2).(a) IV.A.2.a).(2).(b)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:  (Outcome)  must demonstrate competence in the performance of:
	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:  (Outcome)  must demonstrate competence in the performance of:  coronary arteriograms; (Outcome)
IV.A.2.a).(2).(b)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows: (Outcome)  must demonstrate competence in the performance of:  coronary arteriograms; (Outcome)  coronary interventions; including: (Outcome)  application and usage of balloon angioplasty, stents, and other commonly
IV.A.2.a).(2).(b) IV.A.2.a).(2).(b).(i)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:  (Outcome)  must demonstrate competence in the performance of:  coronary arteriograms; (Outcome)  coronary interventions; including: (Outcome)  application and usage of balloon angioplasty, stents, and other commonly used interventional devices; and, (Detail)  femoral and brachial/radial cannulation of normal and abnormally located coronary
IV.A.2.a).(2).(b) IV.A.2.a).(2).(b).(i) IV.A.2.a).(2).(b).(ii)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:  (Outcome)  must demonstrate competence in the performance of:  coronary arteriograms; (Outcome)  coronary interventions; including: (Outcome)  application and usage of balloon angioplasty, stents, and other commonly used interventional devices; and, (Detail)  femoral and brachial/radial cannulation of normal and abnormally located coronary ostia. (Detail)  Each fellow must perform a minimum of
IV.A.2.a).(2).(b) IV.A.2.a).(2).(b).(i) IV.A.2.a).(2).(b).(ii) IV.A.2.a).(2).(b).(iii)	medical, diagnostic, and surgical procedures considered essential for the area of practice. Fellows:  (Outcome)  must demonstrate competence in the performance of:  coronary arteriograms; (Outcome)  coronary interventions; including: (Outcome)  application and usage of balloon angioplasty, stents, and other commonly used interventional devices; and, (Detail)  femoral and brachial/radial cannulation of normal and abnormally located coronary ostia. (Detail)  Each fellow must perform a minimum of 250. (Detail)  Doppler flow, intracoronary pressure measurement

IV.A.2.a).(2).(f)	ventriculography and aortography. (Outcome)
IV.A.2.b)	Medical Knowledge
	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)
IV.A.2.b).(1)	must demonstrate knowledge of the scientific method of problem solving and evidence-based decision making; (Outcome)
IV.A.2.b).(2)	must demonstrate a knowledge 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; (Outcome)
IV.A.2.b).(3)	must demonstrate knowledge of:
IV.A.2.b).(3).(a)	detailed coronary anatomy; (Outcome)
IV.A.2.b).(3).(b)	clinical utility and limitations of the treatment of valvular and structural heart disease; (Outcome)
IV.A.2.b).(3).(c)	pathophysiology of restenosis; (Outcome)
IV.A.2.b).(3).(d)	physiology of coronary flow and detection of flow-limiting conditions; (Outcome)
IV.A.2.b).(3).(e)	radiation physics, biology, and safety related to the use of x-ray imaging equipment; (Outcome)
IV.A.2.b).(3).(f)	strengths and limitations of both noninvasive and invasive coronary evaluation during the recovery phase after acute myocardial infarction; (Outcome)
IV.A.2.b).(3).(g)	strengths and limitations, both short- and long-term, of differing percutaneous approaches for a wide variety of anatomic situations related to cardiovascular disease; (Outcome)
IV.A.2.b).(3).(h)	strengths and weaknesses of mechanical versus lytic approaches for patients with acute myocardial infarction; (Outcome)
IV.A.2.b).(3).(i)	the assessment of plaque composition and response to intervention; (Outcome)

IV.A.2.b).(3).(j)	the clinical importance of complete versus incomplete revascularization in a wide variety of clinical and anatomic situations; (Outcome)
IV.A.2.b).(3).(k)	the role of emergency coronary bypass surgery in the management of complications of percutaneous intervention; (Outcome)
IV.A.2.b).(3).(I)	the role and limitations of established and emerging therapies for treatment of restenosis; (Outcome)
IV.A.2.b).(3).(m)	the role of platelets and the clotting cascade in response to vascular injury; (Outcome)
IV.A.2.b).(3).(n)	the role of randomized clinical trials and registry experiences in clinical decision making; and, (Outcome)
IV.A.2.b).(3).(0)	the use of pharmacologic agents appropriate in the post-intervention management of patients. (Outcome)
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, (Outcome)
IV.A.2.c).(2)	locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems. (Outcome)
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. (Outcome)
IV.A.2.d).(1)	Fellows must demonstrate competence in providing consultation and obtaining informed consent. (Outcome)
IV.A.2.d).(1)  IV.A.2.e)	Fellows must demonstrate competence in providing
,	Fellows must demonstrate competence in providing consultation and obtaining informed consent. (Outcome)

boundaries and relationships with other physicians and other health care team members, and avoiding conflicts of interest.  $^{(\text{Outcome})}$ 

IV.A.2.f)	Systems-based Practice
	Fellows must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. (Outcome)
IV.A.3.	Curriculum Organization and Fellow Experiences
IV.A.3.a)	All 12 months must include clinical experiences and appropriate protected time for research. (Core)
IV.A.3.b)	Fellows must participate in training using simulation. (Detail)
IV.A.3.c)	The core curriculum must include a didactic program based upon the core knowledge content in the subspecialty area. (Core)
IV.A.3.c).(1)	The program must afford each fellow an opportunity to review topics covered in conferences that he or she was unable to attend. (Detail)
IV.A.3.c).(2)	Fellows must participate in clinical case conferences, journal clubs, research conferences, and morbidity and mortality or quality improvement conferences. (Detail)
IV.A.3.c).(3)	All core conferences must have at least one faculty member preset, and must be scheduled as to ensure peer peer and peer-faculty interaction. (Detail)
IV.A.3.d)	Fellows must be instructed in practice management relevant to interventional cardiology. (Detail)
IV.A.3.e)	Fellows must attend an outpatient clinic to provide follow-up care for patients. (Core)
IV.A.3.f)	Procedures and Technical Skills
IV.A.3.f).(1)	Direct supervision of procedures performed by each fellow must occur until proficiency has been acquired and documented by the program director. (Core)
IV.A.3.f).(2)	Faculty members must teach and supervise the fellows in the performance and interpretation of procedures, which must be documented in each fellow's record, including indications, outcomes, diagnoses, and supervisor(s). (Core)
IV.A.3.f).(3)	All fellows must:

IV.A.3.f).(3).(a)

participate in pre-procedural planning, including the indications for the procedure, and the selection of the appropriate procedure or instruments; (Core)

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

perform the critical technical manipulations of the procedure; and, (Core)

IV.A.3.f).(3).(c)

demonstrate substantial involvement in post-procedure care. (Core)

#### IV.B. Fellows' Scholarly Activities

IV.B.1. Each program must provide an opportunity for fellows to participate in research or other scholarly activities, including: (Core)

IV.B.1.a) a research project (with faculty mentorship); or, (Detail)

IV.B.1.b) participation with the faculty in the initiation and conduct of clinical

trials within the department; or, (Detail)

IV.B.1.c) participation in quality assurance/quality improvement or process

improvement projects. (Detail)

#### V. Evaluation

#### V.A. Fellow Evaluation

V.A.1. The program director must appoint the Clinical Competency Committee. (Core)

V.A.1.a) At a minimum the Clinical Competency Committee must be composed of three members of the program faculty. (Core)

V.A.1.a).(1) The program director may appoint additional members of the Clinical Competency Committee.

V.A.1.a).(1).(a) These additional members must be physician faculty members from the same program or

other programs, or other health professionals who have extensive contact and experience with the program's fellows in patient care and

other health care settings. (Core)

V.A.1.a).(1).(b) Chief residents who have completed core

residency programs in their specialty and are eligible for specialty board certification may be

members of the Clinical Competency

Committee. (Core)

V.A.1.b) There must be a written description of the responsibilities of

### the Clinical Competency Committee. (Core)

V.A.1.b).(1)	The Clinical Competency Committee should:
V.A.1.b).(1).(a)	review all fellow evaluations semi-annually; (Core)
V.A.1.b).(1).(b)	prepare and ensure the reporting of Milestones evaluations of each fellow semi-annually to ACGME; and, (Core)
V.A.1.b).(1).(c)	advise the program director regarding fellow progress, including promotion, remediation, and dismissal. (Detail)
V.A.2.	Formative Evaluation
V.A.2.a)	The faculty must evaluate fellow performance in a timely manner. (Core)
V.A.2.a).(1)	The faculty must discuss evaluations with each fellow at least every three months. (Core)
V.A.2.a).(2)	Assessment of procedural competence should include a formal evaluation process and not be based solely on a minimum number of procedures performed. (Detail)
V.A.2.b)	The program must:
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)
V.A.2.b).(1).(a)	Patient Care
	The program must assess the fellow in data gathering, clinical reasoning, patient management, and procedures in both the inpatient and outpatient setting. (Core)
V.A.1.b).(1).(a).(i)	This assessment must involve direct observation of fellow-patient encounters.
V.A.1.b).(1).(a).(ii)	Each program must define criteria for
	competence for all required and elective procedures. (Detail)

fellow's logbook or an equivalent method to demonstrate that each fellow has achieved competence in the performance of required procedures. (Detail)

V.A.2.b).(1).(b)	Medical Knowledge
	The program must use an objective formative assessment method. The same formative assessment method must be administered at least twice during the program. (Detail)
V.A.2.b).(1).(c)	Practice-based Learning and Improvement
	The program must use performance data to assess the fellow in:
V.A.2.b).(1).(c).(i)	application of evidence to patient care; (Detail)
V.A.2.b).(1).(c).(ii)	practice improvement; (Detail)
V.A.2.b).(1).(c).(iii)	teaching skills involving peers and patients; and, $^{\left( \text{Detail}\right) }$
V.A.2.b).(1).(c).(iv)	scholarship. (Detail)
V.A.2.b).(1).(d)	Interpersonal and Communication Skills
	<del></del>
	The program must use both direct observation and multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:
V.A.2.b).(1).(d).(i)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow
V.A.2.b).(1).(d).(i) V.A.2.b).(1).(d).(ii)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:
	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:  communication with patient and family; (Detail)
V.A.2.b).(1).(d).(ii)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:  communication with patient and family; (Detail) teamwork; (Detail)  communication with peers, including
V.A.2.b).(1).(d).(ii) V.A.2.b).(1).(d).(iii)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:  communication with patient and family; (Detail)  teamwork; (Detail)  communication with peers, including transitions in care; and, (Detail)
V.A.2.b).(1).(d).(ii) V.A.2.b).(1).(d).(iii) V.A.2.b).(1).(d).(iv)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:  communication with patient and family; (Detail)  teamwork; (Detail)  communication with peers, including transitions in care; and, (Detail)  record keeping. (Detail)
V.A.2.b).(1).(d).(ii) V.A.2.b).(1).(d).(iii) V.A.2.b).(1).(d).(iv)	multi-source evaluation, including patients, peers and non-physician team members, to assess fellow performance in:  communication with patient and family; (Detail)  teamwork; (Detail)  communication with peers, including transitions in care; and, (Detail)  record keeping. (Detail)  Professionalism  The program must use multi-source evaluation, including patients, peers, and non-physician team

(Detail)

V.A.2.b).(1).(e).(iii) ability to maintain appropriate professional relationships with patients and colleagues; and. (Detail) V.A.2.b).(1).(e).(iv) commitment to self-improvement. (Detail) V.A.2.b).(1).(f) Systems-based Practice The program must use multi-source evaluation, including peers, and non-physician team members, to assess each fellow's: V.A.2.b).(1).(f).(i) ability to provide care coordination, including transition of care; (Detail) ability to work in interdisciplinary teams; V.A.2.b).(1).(f).(ii) advocacy for quality of care; and, (Detail) V.A.2.b).(1).(f).(iii) V.A.2.b).(1).(f).(iv) ability to identify system problems and participate in improvement activities. (Detail) use multiple evaluators (e.g., faculty, peers, patients, V.A.2.b).(2) self, and other professional staff); and, (Detail) provide each fellow with documented semiannual V.A.2.b).(3) evaluation of performance with feedback. (Core) V.A.2.c) The evaluations of fellow performance must be accessible for review by the fellow, in accordance with institutional policy. (Detail) V.A.3. **Summative Evaluation** 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) V.A.3.b) The program director must provide a summative evaluation for each fellow upon completion of the program. (Core) This evaluation must: V.A.3.b).(1) become part of the fellow's permanent record maintained by the institution, and must be accessible for review by the fellow in accordance with

institutional policy: (Detail)

V.A.3.b).(2)	document the fellow's performance during their education; and, (Detail)	
V.A.3.b).(3)	verify that the fellow has demonstrated sufficient competence to enter practice without direct supervision. (Detail)	
V.B. Facu	Ity Evaluation	
V.B.1.	At least annually, the program must evaluate faculty performance as it relates to the educational program. $^{(Core)}$	
V.B.2.	These evaluations should include a review of the faculty's clinical teaching abilities, commitment to the educational program, clinical knowledge, professionalism, and scholarly activities. (Detail)	
V.B.3.	Fellows must have the opportunity to provide confidential written evaluations of each supervising faculty member at the end of each rotation. (Detail)	
V.B.4.	These evaluations must be reviewed with each faculty member annually. (Detail)	
V.C. Program Evaluation and Improvement		
V 0 4		
V.C.1.	The program director must appoint the Program Evaluation Committee (PEC). (Core)	
V.C.1. V.C.1.a)		
	Committee (PEC). (Core)	
V.C.1.a)	Committee (PEC). (Core)  The Program Evaluation Committee:  must be composed of at least two program faculty	
V.C.1.a) V.C.1.a).(1)	Committee (PEC). (Core)  The Program Evaluation Committee:  must be composed of at least two program faculty members and should include at least one fellow; (Core)  must have a written description of its responsibilities;	
V.C.1.a) V.C.1.a).(1) V.C.1.a).(2)	Committee (PEC). (Core)  The Program Evaluation Committee:  must be composed of at least two program faculty members and should include at least one fellow; (Core)  must have a written description of its responsibilities; and, (Core)	
V.C.1.a) V.C.1.a).(1) V.C.1.a).(2) V.C.1.a).(3)	Committee (PEC). (Core)  The Program Evaluation Committee:  must be composed of at least two program faculty members and should include at least one fellow; (Core)  must have a written description of its responsibilities; and, (Core)  should participate actively in:  planning, developing, implementing, and evaluating educational activities of the	
V.C.1.a) V.C.1.a).(1) V.C.1.a).(2) V.C.1.a).(3) V.C.1.a).(3)	Committee (PEC). (Core)  The Program Evaluation Committee:  must be composed of at least two program faculty members and should include at least one fellow; (Core)  must have a written description of its responsibilities; and, (Core)  should participate actively in:  planning, developing, implementing, and evaluating educational activities of the program; (Detail)  reviewing and making recommendations for revision of competency-based curriculum goals	

evaluations of faculty, fellows, and others, as specified below. (Detail)

V.C.2. The program, through the PEC, must document formal, systematic evaluation of the curriculum at least annually, and is responsible for rendering a written, annual program evaluation. (Core)

The program must monitor and track each of the following areas:

V.C.2.a)	fellow performance; (Core)
V.C.2.b)	faculty development; (Core)
V.C.2.c)	progress on the previous year's action plan(s); and, (Core)
V.C.2.d)	graduate performance, including performance of program graduates on the certification examination. (Core)
V.C.2.d).(1)	At least 80% of the program's graduating fellows from the most recently defined five year period who are eligible should take the ABIM certifying examination. (Outcome)
V.C.2.d).(2)	At least 80% of a program's graduates taking the ABIM certifying examination for the first time during the most recently defined five year period should pass. (Outcome)
V.C.2.d).(3)	At least 80% of the entering fellows should have completed the program when averaged over a five-year period. (Outcome)
V.C.3.	The PEC must prepare a written plan of action to document initiatives to improve performance in one or more of the areas listed in section V.C.2., as well as delineate how they will be measured and

- in section V.C.2., as well as delineate how they will be measured and monitored. (Core)
- V.C.3.a) The action plan should be reviewed and approved by the teaching faculty and documented in meeting minutes. (Detail)
- V.C.4. Representative program personnel, at a minimum to include the program director, representative faculty, and one fellow, must review program goals and objectives, and the effectiveness with which they are achieved. (Detail)

#### VI. The Learning and Working Environment

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

Excellence in the safety and quality of care rendered to patients by fellows today

- Excellence in the safety and quality of care rendered to patients by today's fellows in their future practice
- Excellence in professionalism through faculty modeling of:
  - the effacement of self-interest in a humanistic environment that supports the professional development of physicians
  - o the joy of curiosity, problem-solving, intellectual rigor, and discovery
- Commitment to the well-being of the students, residents/fellows, faculty members, and all members of the health care team
- VI.A. Patient Safety, Quality Improvement, Supervision, and Accountability
- VI.A.1. Patient Safety and Quality Improvement

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

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

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

VI.A.1.a) Patient Safety

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

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

VI.A.1.a).(1).(a)

The program, its faculty, residents, and fellows must actively participate in patient safety systems and contribute to a culture of safety.

(Core)

VI.A.1.a).(1).(b)

The program must have a structure that promotes safe, interprofessional, team-based care. (Core)

VI.A.1.a).(2)

**Education on Patient Safety** 

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

VI.A.1.a).(3)

**Patient Safety Events** 

Reporting, investigation, and follow-up of adverse events, near misses, and unsafe conditions are pivotal mechanisms for improving patient safety, and are essential for the success of any patient safety program. Feedback and experiential learning are essential to developing true competence in the ability to identify causes and institute sustainable systems-based changes to ameliorate patient safety vulnerabilities.

VI.A.1.a).(3).(a)

Residents, fellows, faculty members, and other clinical staff members must:

VI.A.1.a).(3).(a).(i)

know their responsibilities in reporting patient safety events at the clinical site;

VI.A.1.a).(3).(a).(ii)

know how to report patient safety events, including near misses, at the clinical site; and, (Core)

VI.A.1.a).(3).(a).(iii)

be provided with summary information of their institution's patient safety reports. (Core)

VI.A.1.a).(3).(b)

Fellows must participate as team members in real and/or simulated interprofessional clinical patient safety activities, such as root cause analyses or other activities that include analysis, as well as formulation and implementation of actions. (Core)

VI.A.1.a).(4)

Fellow Education and Experience in Disclosure of Adverse Events

Patient-centered care requires patients, and when appropriate families, to be apprised of clinical

model, and for fellows to develop and apply. VI.A.1.a).(4).(a) All fellows must receive training in how to disclose adverse events to patients and families. (Core) VI.A.1.a).(4).(b) Fellows should have the opportunity to participate in the disclosure of patient safety events, real or simulated, (Detail) VI.A.1.b) **Quality Improvement** VI.A.1.b).(1) **Education in Quality Improvement** A cohesive model of health care includes qualityrelated goals, tools, and techniques that are necessary in order for health care professionals to achieve quality improvement goals. VI.A.1.b).(1).(a) Fellows must receive training and experience in quality improvement processes, including an understanding of health care disparities. (Core) VI.A.1.b).(2) **Quality Metrics** Access to data is essential to prioritizing activities for care improvement and evaluating success of improvement efforts. Fellows and faculty members must receive data VI.A.1.b).(2).(a) on quality metrics and benchmarks related to their patient populations. (Core) VI.A.1.b).(3) **Engagement in Quality Improvement Activities** Experiential learning is essential to developing the ability to identify and institute sustainable systemsbased changes to improve patient care. VI.A.1.b).(3).(a) Fellows must have the opportunity to participate in interprofessional quality improvement activities. (Core) This should include activities aimed at VI.A.1.b).(3).(a).(i) reducing health care disparities. (Detail) VI.A.2. **Supervision and Accountability** 

Although the attending physician is ultimately responsible for

situations that affect them, including adverse events. This is an important skill for faculty physicians to

VI.A.2.a)

the care of the patient, every physician shares in the responsibility and accountability for their efforts in the provision of care. Effective programs, in partnership with their Sponsoring Institutions, define, widely communicate, and monitor a structured chain of responsibility and accountability as it relates to the supervision of all patient care.

Supervision in the setting of graduate medical education provides safe and effective care to patients; ensures each fellow's development of the skills, knowledge, and attitudes required to enter the unsupervised practice of medicine; and establishes a foundation for continued professional growth.

VI.A.2.a).(1)

Each patient must have an identifiable and appropriately-credentialed and privileged attending physician (or licensed independent practitioner as specified by the applicable Review Committee) who is responsible and accountable for the patient's care.

VI.A.2.a).(1).(a)

This information must be available to fellows, faculty members, other members of the health care team, and patients. (Core)

VI.A.2.a).(1).(b)

Fellows and faculty members must inform each patient of their respective roles in that patient's care when providing direct patient care. (Core)

VI.A.2.b)

Supervision may be exercised through a variety of methods. For many aspects of patient care, the supervising physician may be a more advanced fellow. Other portions of care provided by the fellow can be adequately supervised by the immediate availability of the supervising faculty member or fellow physician, either on site or by means of telephonic and/or electronic modalities. Some activities require the physical presence of the supervising faculty member. In some circumstances, supervision may include post-hoc review of fellow-delivered care with feedback.

VI.A.2.b).(1)

The program must demonstrate that the appropriate level of supervision in place for all fellows is based on each fellow's level of training and ability, as well as patient complexity and acuity. Supervision may be exercised through a variety of methods, as appropriate to the situation. (Core)

VI.A.2.c)

**Levels of Supervision** 

To promote oversight of fellow supervision while providing for graded authority and responsibility, the program must use

the following classification of supervision: (Core)

	<b>3</b>
VI.A.2.c).(1)	Direct Supervision – the supervising physician is physically present with the fellow and patient. (Core)
VI.A.2.c).(2)	Indirect Supervision:
VI.A.2.c).(2).(a)	with Direct Supervision immediately available – the supervising physician is physically within the hospital or other site of patient care, and is immediately available to provide Direct Supervision. (Core)
VI.A.2.c).(2).(b)	with Direct Supervision available – the supervising physician is not physically present within the hospital or other site of patient care, but is immediately available by means of telephonic and/or electronic modalities, and is available to provide Direct Supervision. (Core)
VI.A.2.c).(3)	Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. (Core)
VI.A.2.d)	The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each fellow must be assigned by the program director and faculty members. (Core)
VI.A.2.d).(1)	The program director must evaluate each fellow's abilities based on specific criteria, guided by the Milestones. (Core)
VI.A.2.d).(2)	Faculty members functioning as supervising physicians must delegate portions of care to fellows based on the needs of the patient and the skills of each fellow. (Core)
VI.A.2.d).(3)	Fellows should serve in a supervisory role to residents or junior fellows in recognition of their progress toward independence, based on the needs of each patient and the skills of the individual resident or fellow. (Detail)
VI.A.2.e)	Programs must set guidelines for circumstances and events in which fellows must communicate with the supervising faculty member(s). (Core)
VI.A.2.e).(1)	Each fellow must know the limits of their scope of authority, and the circumstances under which the

fellow is permitted to act with conditional independence. (Outcome)

VI.A.2.f)	Faculty supervision assignments must be of sufficient duration to assess the knowledge and skills of each fellow and to delegate to the fellow the appropriate level of patient care authority and responsibility. (Core)
VI.B. P	Professionalism
VI.B.1.	Programs, in partnership with their Sponsoring Institutions, must educate fellows and faculty members concerning the professional responsibilities of physicians, including their obligation to be appropriately rested and fit to provide the care required by their patients. (Core)
VI.B.2.	The learning objectives of the program must:
VI.B.2.a)	be accomplished through an appropriate blend of supervised patient care responsibilities, clinical teaching, and didactic educational events; (Core)
VI.B.2.b)	be accomplished without excessive reliance on fellows to fulfill non-physician obligations; and, (Core)
VI.B.2.c)	ensure manageable patient care responsibilities. (Core)
VI.B.3.	The program director, in partnership with the Sponsoring Institution, must provide a culture of professionalism that supports patient safety and personal responsibility. (Core)
VI.B.4.	Fellows and faculty members must demonstrate an understanding of their personal role in the:
VI.B.4.a)	provision of patient- and family-centered care; (Outcome)
VI.B.4.b)	safety and welfare of patients entrusted to their care, including the ability to report unsafe conditions and adverse events; (Outcome)
VI.B.4.c)	assurance of their fitness for work, including: (Outcome)
VI.B.4.c).(1)	management of their time before, during, and after clinical assignments; and, (Outcome)
VI.B.4.c).(2)	recognition of impairment, including from illness, fatigue, and substance use, in themselves, their peers, and other members of the health care team. (Outcome)
VI.B.4.d)	commitment to lifelong learning; (Outcome)

VI.B.4.e) monitoring of their patient care performance improvement indicators: and. (Outcome)

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

VI.B.5. All fellows and faculty members must demonstrate responsiveness to patient needs that supersedes self-interest. This includes the recognition 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)

VI.B.6. Programs must provide a professional, respectful, and civil environment that is free from mistreatment, abuse, or coercion of students, residents/fellows, faculty, and staff. Programs, in partnership with their Sponsoring Institutions, should have a process for education of fellows and faculty regarding unprofessional behavior and a confidential process for reporting, investigating, and addressing such concerns. (Core)

#### VI.C. Well-Being

In the current health care environment, fellows and faculty members are at increased risk for burnout and depression. Psychological, emotional, and physical well-being are critical in the development of the competent, caring, and resilient physician. Self-care is an important component of professionalism; it is also a skill that must be learned and nurtured in the context of other aspects of fellowship training. Programs, in partnership with their Sponsoring Institutions, have the same responsibility to address well-being as they do to evaluate other aspects of fellow competence.

#### VI.C.1. This responsibility must include:

VI.C.1.a)

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

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

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

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

VI.C.1.d).(1) Fellows must be given the opportunity to attend medical, mental health, and dental care appointments,

including those scheduled during their working hours. (Core)

VI.C.1.e)

attention to fellow and faculty member burnout, depression, and substance abuse. The program, in partnership with its Sponsoring Institution, must educate faculty members and fellows in identification of the symptoms of burnout, depression, and substance abuse, including means to assist those who experience these conditions. Fellows and faculty members must also be educated to recognize those symptoms in themselves and how to seek appropriate care. The program, in partnership with its Sponsoring Institution, must: (Core)

VI.C.1.e).(1)

encourage fellows and faculty members to alert the program director or other designated personnel or programs when they are concerned that another resident, fellow, or faculty member may be displaying signs of burnout, depression, substance abuse, suicidal ideation, or potential for violence; (Core)

VI.C.1.e).(2)

provide access to appropriate tools for self-screening;

and. (Core)

VI.C.1.e).(3)

provide access to confidential, affordable mental health assessment, counseling, and treatment, including access to urgent and emergent care 24 hours a day, seven days a week. (Core)

VI.C.2.

There are circumstances in which fellows may be unable to attend work, including but not limited to fatigue, illness, and family emergencies. Each program must have policies and procedures in place that ensure coverage of patient care in the event that a fellow may be unable to perform their patient care responsibilities. These policies must be implemented without fear of negative consequences for the fellow who is unable to provide the clinical work. (Core)

#### VI.D. Fatigue Mitigation

#### VI.D.1. Programs must:

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

VI.D.2. Each program must ensure continuity of patient care, consistent with the program's policies and procedures referenced in VI.C.2, in the event that a fellow may be unable to perform their patient care responsibilities due to excessive fatique. (Core)

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

VI.E. Clinical Responsibilities, Teamwork, and Transitions of Care

VI.E.1. Clinical Responsibilities

The clinical responsibilities for each fellow must be based on PGY level, patient safety, fellow ability, severity and complexity of patient illness/condition, and available support services. (Core)

VI.E.2. Teamwork

Fellows must care for patients in an environment that maximizes communication. This must include the opportunity to work as a member of effective interprofessional teams that are appropriate to the delivery of care in the specialty and larger health system. (Core)

VI.E.3. Transitions of Care

VI.E.3.a) Programs must design clinical assignments to optimize transitions in patient care, including their safety, frequency, and structure. (Core)

VI.E.3.b)

Programs, in partnership with their Sponsoring Institutions, must ensure and monitor effective, structured hand-over processes to facilitate both continuity of care and patient safety. (Core)

VI.E.3.c) Programs must ensure that fellows are competent in communicating with team members in the hand-over process.

VI.E.3.d) Programs and clinical sites must maintain and communicate schedules of attending physicians and fellows currently responsible for care. (Core)

VI.E.3.e)

Each program must ensure continuity of patient care, consistent with the program's policies and procedures referenced in VI.C.2, in the event that a fellow may be unable to perform their patient care responsibilities due to excessive fatigue or illness, or family emergency. (Core)

VI.F. Clinical Experience and Education

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

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

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

- VI.F.2. Mandatory Time Free of Clinical Work and Education
- VI.F.2.a) The program must design an effective program structure that is configured to provide fellows with educational opportunities, as well as reasonable opportunities for rest and personal well-being. (Core)
- VI.F.2.b) Fellows should have eight hours off between scheduled clinical work and education periods. (Detail)
- VI.F.2.b).(1)

  There may be circumstances when fellows choose to stay to care for their patients or return to the hospital with fewer than eight hours free of clinical experience and education. This must occur within the context of the 80-hour and the one-day-off-in-seven requirements. (Detail)
- VI.F.2.c) Fellows must have at least 14 hours free of clinical work and education after 24 hours of in-house call. (Core)
- VI.F.2.d)

  Fellows must be scheduled for a minimum of one day in seven free of clinical work and required education (when averaged over four weeks). At-home call cannot be assigned on these free days. (Core)
- VI.F.3. Maximum Clinical Work and Education Period Length
- VI.F.3.a) Clinical and educational work periods for fellows must not exceed 24 hours of continuous scheduled clinical assignments. (Core)
- VI.F.3.a).(1)

  Up to four hours of additional time may be used for activities related to patient safety, such as providing effective transitions of care, and/or fellow education.

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

VI.F.4.	Clinical and Educational Work Hour Exceptions
VI.F.4.a)	In rare circumstances, after handing off all other responsibilities, a fellow, on their own initiative, may elect to remain or return to the clinical site in the following circumstances:
VI.F.4.a).(1)	to continue to provide care to a single severely ill or unstable patient; (Detail)
VI.F.4.a).(2)	humanistic attention to the needs of a patient or family; or, (Detail)
VI.F.4.a).(3)	to attend unique educational events. (Detail)
VI.F.4.b)	These additional hours of care or education will be counted toward the 80-hour weekly limit. (Detail)
VI.F.4.c)	A Review Committee may grant rotation-specific exceptions for up to 10 percent or a maximum of 88 clinical and educational work hours to individual programs based on a sound educational rationale.
	The Review Committee for Internal Medicine will not consider requests for exceptions to the 80-hour limit to the fellows' work week.
VI.F.4.c).(1)	In preparing a request for an exception, the program director must follow the clinical and educational work hour exception policy from the ACGME Manual of Policies and Procedures. (Core)
VI.F.4.c).(2)	Prior to submitting the request to the Review Committee, the program director must obtain approval from the Sponsoring Institution's GMEC and DIO. (Core)
VI.F.5.	Moonlighting
VI.F.5.a)	Moonlighting must not interfere with the ability of the fellow to achieve the goals and objectives of the educational program, and must not interfere with the fellow's fitness for work nor compromise patient safety. (Core)
VI.F.5.b)	Time spent by fellows in internal and external moonlighting (as defined in the ACGME Glossary of Terms) must be counted toward the 80-hour maximum weekly limit. (Core)
VI.F.6.	In-House Night Float
	Night float must occur within the context of the 80-hour and one-

day-off-in-seven requirements. (Core)

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

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

VI.F.7.a) Internal Medicine fellowships must not average in-house call over a four-week period. (Core)

At-Home Call

**VI.F.8.** 

VI.F.8.a) Time spent on patient care activities by fellows on at-home

call must count toward the 80-hour maximum weekly limit. The frequency of at-home call is not subject to the everythird-night limitation, but must satisfy the requirement for one day in seven free of clinical work and education, when

averaged over four weeks. (Core)

VI.F.8.a).(1) At-home call must not be so frequent or taxing as to

preclude rest or reasonable personal time for each

fellow. (Core)

VI.F.8.b) Fellows are permitted to return to the hospital while on at-

home call to provide direct care for new or established patients. These hours of inpatient patient care must be included in the 80-hour maximum weekly limit. (Detail)

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

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

#### **Osteopathic Recognition**

For programs seeking Osteopathic Recognition for the entire program, or for a track within the program, the Osteopathic Recognition Requirements are also applicable.

(http://www.acgme.org/Portals/0/PFAssets/ProgramRequirements/Osteopathic Recogniton Requirement s.pdf)

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