

Accreditation Council for Graduate Medical Education

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

1 2 3 4	Introduction	ACGME P ACGME P ACGME appears to make no difference between residencies and fellowships. Nothing could be farther from the truth. Does this mean the ACGME is out of touch with reality?
34567890112341567890122342567890123345678904123445678901223455678901233455678901123456789012334556789011234456789051	Int.A.	Residency is an essential dimension of the transformation of the medical student to the independent practitioner along the continuum of medical education. It is physically, emotionally, and intellectually demanding, and requires longitudinally-concentrated effort on the part of the resident. 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 fellow physician to assume personal responsibility for the care of individual patients. For the 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 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 conceptgraded responsibility and progressive responsibilityis 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 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.	Clinical informatics is the subspecialty of all medical specialties that transforms health care by analyzing, designing, implementing, and evaluating information and communication systems to improve patient care, enhance access to care, advance individual and population health outcomes, and strengthen the clinician-patient relationship. Physicians who practice clinical informatics draw from the broader field of biomedical and health informatics as they apply informatics methods, concepts, and tools to the practice of medicine. Thus, they must understand the culture, boundaries, and complexities of the field. Further, the stakeholders, structures, and processes that constitute the health system affect the information and knowledge needs of health care professionals and influence the selection and implementation of clinical informatics collaborate with other health care and information technology professionals and provide consultative services that use their knowledge of patient care combined with their understanding of informatics concepts, methods, and tools to improve clinical practice by:
	Int.B.1.	leading initiatives designed to enhance health care quality and access through the procurement, customization, development, implementation, management, evaluation, and continuous improvement of clinical information systems;

There is nothing here about supporting/facilitating care coordination and transitions of care. As important as those are to quality care and reducing unnecessary costs, those should be added.

52		
53	Int.B.2	securing the legal and ethical use of clinical information;
54		
55	Int.B.3	assessing information and knowledge needs of health care professionals
56		and patients;
57		
58	Int.B.4	characterizing, evaluating, and refining clinical processes;
59		
60	Int.B.5	analyzing, developing, implementing, and refining clinical decision
61		support systems; and,
62		
63	Int.B.6	participating in projects designed to use technology to promote patient
64		care that is safe, efficient, effective, timely patient-centered and equitable.
65		
66	Int.C.	The educational program in clinical informatics must be 24 months in length. (Core)
67		
68	Int.C.1	
69		(Core)
70		
71	Ι.	Institutions
72		
73	I.A.	Sponsoring Institution
74		
75		One sponsoring institution must assume ultimate responsibility for the
76		program, as described in the Institutional Requirements, and this
77		responsibility extends to fellow assignments at all participating sites. <sup>(Core)</sup> *
78		The energy in effection and the preserves much energy that the preserves
CI Fellows	hips	The sponsoring institution and the program must ensure that the program
should not		director has sufficient protected time and financial support for his or her educational and administrative responsibilities to the program. <sup>(Core)</sup>
restricted t	-	educational and administrative responsibilities to the program.
these spec		A clinical informatics fellowship must function as an integral part of an
While ABP		Accreditation Council for Graduate Medical Education (ACGME)-
sponsoring	-	accredited residency program in anesthesiology, emergency medicine,
the majorit	-	medical genetics, pathology, pediatrics, or preventive medicine. <sup>(Core)</sup>
current CN		
from the p	-	There must be an institutional policy governing the educational resources
specialties and Pediat	-	committed to the fellowship that ensures collaboration among multiple
	ncsj.	disciplines and professions involved in educating fellows. (Core)
91		
92	I.A.3.	There may be only one ACGME-accredited clinical informatics program
93		within a sponsoring institution. (Detail)
94		
95	I.B.	Participating Sites
96		
97	I.B.1.	There must be a program letter of agreement (PLA) between the
98		program and each participating site providing a required
99		assignment. The PLA must be renewed at least every five years.
100		(Detail)
101		
102		The PLA should:

103		
104	I.B.1.a)	identify the faculty who will assume both educational and
105		supervisory responsibilities for fellows; <sup>(Detail)</sup>
106		
107	I.B.1.b)	specify their responsibilities for teaching, supervision, and
108	,	formal evaluation of fellows, as specified later in this
109		document; <sup>(Detail)</sup>
110		
111	I.B.1.c)	specify the duration and content of the educational
112		experience; and, <sup>(Detail)</sup>
113		
114	I.B.1.d)	state the policies and procedures that will govern fellow
115	ii Bi ii a)	education during the assignment. <sup>(Detail)</sup>
116		cuddaton danng tile assignment.
117	I.B.2.	The program director must submit any additions or deletions of
118	1.0.2.	participating sites routinely providing an educational experience,
119		required for all fellows, of one month full time equivalent (FTE) or
120		more through the Accreditation Council for Graduate Medical
120		Education (ACGME) Accreditation Data System (ADS). (Core)
122		
122	ll. Prog	ram Personnel and Resources
123	n. rog	
124	II.A.	Program Director
125		r rogram Director
120	II.A.1.	There must be a single program director with authority and
128		accountability for the operation of the program. The sponsoring
120		institution's GMEC must approve a change in program director. <sup>(Core)</sup>
123		institution's dime of must approve a change in program director.
130	II.A.1.a)	The program director must submit this change to the ACGME
132	п.д.т.ај	via the ADS. <sup>(Core)</sup>
133		via tile ADS.
134	II.A.2.	The program director should continue in his or her position for a
135	11.7.2.	length of time adequate to maintain continuity of leadership and
136		program stability. <sup>(Detail)</sup>
130		program stability.
	II.A.3.	Qualifications of the program director must include:
	ot read well.	Qualifications of the program director must include.
No one is cu		requisite specialty expertise and documented educational
	fied, so there	and administrative experience acceptable to the Review
	date specified	
	s would be in	Committee,
full effecteither here or		current certification in the subspecialty of clinical informatics
via the RRC guidance		by a member board of <b>the American Board</b> of Medical
separate from this		Specialties, or subspecialty qualifications that are acceptable
document. What does the		to the Review Committee; (Core)
last phrase, "or		
subspecialty", mean?		current medical licensure and appropriate medical staff
-	at odds with	appointment; and, <sup>(Core)</sup>
what the ABPM is putting		
out.		at least five years of experience in clinical informatics. (Detail)
153		

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

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

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

307		discussions, rounds, journal clubs, and conferences. <sup>(Detail)</sup>
308 309 310 311	II.B.5.b)	Some members of the faculty should also demonstrate scholarship by one or more of the following:
312 313	II.B.5.b).(1)	peer-reviewed funding; (Detail)
314 315 316	II.B.5.b).(2)	publication of original research or review articles in peer-reviewed journals, or chapters in textbooks; <sup>(Detail)</sup>
317 318 319 320	II.B.5.b).(3)	publication or presentation of case reports or clinical series at local, regional, or national professional and scientific society meetings; or, <sup>(Detail)</sup>
321 322 323	II.B.5.b).(4)	participation in national committees or educational organizations. <sup>(Detail)</sup>
323 324 325 326	II.B.5.c)	Faculty should encourage and support fellows in scholarly activities. <sup>(Core)</sup>
What is the		Other Program Personnel
recommended FTE for this program coordinator? For small programs, there is not		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. <sup>(Core)</sup>
likely to be e for a full FTE that the ACC	-	Administrative support must include a program coordinator to provide adequate administrative and technological support to the fellowship. (Detail)
indicate a m	inimal FTE	Resources
coordinator, like 0.5 FTE for programs with two fellows per year group or less.		The institution and the program must jointly ensure the availability of adequate resources for fellow education, as defined in the specialty program requirements. <sup>(Core)</sup>
342 343 344 345	II.D.1.	There must be space and equipment for the educational program, including meeting rooms, classrooms, computers, Internet access, visual and other educational aids, and work/study space. <sup>(Detail)</sup>
346 347 348	II.D.2.	The primary clinical site must operate a clinical information system that is able to: <sup>(Core)</sup>
349 350 351	II.D.2.a)	collect, store, retrieve, and manage health and wellness data and information; <sup>(Core)</sup>
352 353	II.D.2.b)	provide clinical decision support; and, <sup>(Core)</sup>
353 354 355	II.D.2.c)	support ambulatory, inpatient, and remote care settings, as needed. <sup>(Core)</sup>
356		needed.

358 359 360 361 362		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. <sup>(Detail)</sup>
363 364	III.	Fellow Appointments
365	III.A.	Eligibility Criteria
366 367 368 369		The program director must comply with the criteria for fellow eligibility as specified in the Institutional Requirements. <sup>(Core)</sup>
370 371 372	III.A.1.	Prior to appointment in the program, each fellow must have successfully completed an ACGME-accredited residency program. (Core)
372 373 374	III.B.	Number of Fellows
375 376		The program's educational resources must be adequate to support the number of fellows appointed to the program. <sup>(Core)</sup>
377 378 379 380 381	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. <sup>(Core)</sup>
382 383	III.C.	Fellow Transfers
384 385 386 387 388 389 390 391	III.C.1.	Before accepting a fellow who is transferring from another program, the program director must obtain written or electronic verification of previous educational experiences and a summative competency- based performance evaluation of the transferring fellow. <sup>(Detail)</sup>
	III.C.2.	A program director must provide timely verification of fellowship education and summative performance evaluations for fellows who may leave the program prior to completion. <sup>(Detail)</sup>
392 393 304	III.D.	Appointment of Fellows and Other Learners
<ul> <li>394</li> <li>395</li> <li>396</li> <li>397</li> <li>398</li> <li>399</li> <li>400</li> <li>401</li> <li>402</li> </ul>		The presence of other learners (including, but not limited to, residents from other specialties, subspecialty fellows, PhD students, and nurse practitioners) in the program must not interfere with the appointed fellows' education. <sup>(Core)</sup>
	III.D.1.	The program director must report the presence of other learners to the DIO and GMEC in accordance with sponsoring institution guidelines. <sup>(Detail)</sup>
403 404 405	IV.	Educational Program
403 406 407	IV.A.	The curriculum must contain the following educational components:
408	IV.A.1	Overall educational goals for the program, which the program must

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

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

511		
512	IV.A.5.b).(3)	how information systems and processes enhance or
513		compromise the decision making and actions of health
514		care team members; (Outcome)
515	N/ A F b) / 4)	
516	IV.A.5.b).(4)	process improvement or change management for health care processes; <sup>(Outcome)</sup>
517 518		care processes, *
510	IV.A.5.b).(5)	fundamental information system concepts, including
520	10.A.3.6).(3)	project management, the life cycle of information systems,
521		the constantly evolving capabilities of information
522		technology and health care, and the technical and non-
523		technical issues surrounding system implementation;
524		(Outcome)
525		
526	IV.A.5.b).(6)	the impact of clinical information systems on users and
527	, , ,	patients; <sup>(Outcome)</sup>
528		•
529	IV.A.5.b).(7)	strategies to support clinician users and promote clinician
530		adoption of systems; (Outcome)
531		
532	IV.A.5.b).(8)	clinical decision support, use, and implementation; <sup>(Outcome)</sup>
533		
534	IV.A.5.b).(9)	evaluation of information systems to provide feedback for
535		system improvement; (Outcome)
536 537	$1/(\Lambda = h) (10)$	loodorphin in organizational change, factoring
538	IV.A.5.b).(10)	leadership in organizational change, fostering collaboration, communicating effectively, and managing
539		large scale projects related to clinical information systems;
540		and, <sup>(Outcome)</sup>
541		
542	IV.A.5.b).(11)	risk management and mitigation related to patient safety
543		and privacy. (Outcome)
544		
545	IV.A.5.c)	Practice-based Learning and Improvement
546		
547		Fellows must demonstrate the ability to investigate and
548		evaluate their care of patients, to appraise and assimilate
549		scientific evidence, and to continuously improve patient care
550		based on constant self-evaluation and life-long learning.
551		
552 553		Fellows are expected to develop skills and habits to be able
555 554		to meet the following goals:
555		to meet the following goals.
556	IV.A.5.c).(1)	identify strengths, deficiencies, and limits in one's
557		knowledge and expertise; <sup>(Outcome)</sup>
558		
559	IV.A.5.c).(2)	set learning and improvement goals; <sup>(Outcome)</sup>
560		
561	IV.A.5.c).(3)	identify and perform appropriate learning activities;

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

613 614 615 616		Fellows must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. <sup>(Outcome)</sup>
617 618		Fellows are expected to demonstrate:
619 620	IV.A.5.e).(1)	compassion, integrity, and respect for others; <sup>(Outcome)</sup>
621 622 623	IV.A.5.e).(2)	responsiveness to patient needs that supersedes self- interest; <sup>(Outcome)</sup>
624 625	IV.A.5.e).(3)	respect for patient privacy and autonomy; <sup>(Outcome)</sup>
626 627 628	IV.A.5.e).(4)	accountability to patients, society and the profession; (Outcome)
629 630 631 632 633	IV.A.5.e).(4).(a)	Fellows must demonstrate the ability to recognize the causes and prevention of security breaches and their consequences to the individual, system, organization, and society at large. <sup>(Outcome)</sup>
634 635 636 637 638	IV.A.5.e).(5)	sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation; and, <sup>(Outcome)</sup>
639 640 641	IV.A.5.e).(6)	sensitivity to the impact information system changes have on practice patterns and physician-patient relations. <sup>(Outcome)</sup>
642 643	IV.A.5.f)	Systems-based Practice
644 645 646 647 648 649		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)
650 651		Fellows are expected to:
652 653 654 655	IV.A.5.f).(1)	work effectively in various health care delivery settings and systems relevant to their clinical specialty; <sup>(Outcome)</sup>
656 657 658	IV.A.5.f).(2)	coordinate patient care within the health care system relevant to their clinical specialty; <sup>(Outcome)</sup>
659 660 661 662	IV.A.5.f).(3)	incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care as appropriate; <sup>(Outcome)</sup>
663	IV.A.5.f).(4)	advocate for quality patient care and optimal patient

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

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

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

815 816 817 818	V.A.1.b).(1).(c)	advise the program director regarding resident progress, including promotion, remediation, and dismissal. <sup>(Detail)</sup>
819 820	V.A.2.	Formative Evaluation
821 822 823 824 825	V.A.2.a)	The faculty must evaluate fellow performance in a timely manner during each rotation or similar educational assignment, and document this evaluation at completion of the assignment. <sup>(Core)</sup>
826 827	V.A.2.b)	The program must:
828 829 830 831 832 833 834	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; <sup>(Core)</sup>
835 836 837	V.A.2.b).(2)	use multiple evaluators (e.g., faculty, peers, patients, self, and other professional staff); <sup>(Detail)</sup>
838 839 840 841	V.A.2.b).(3)	document progressive fellow performance improvement appropriate to educational level; and, (Core)
842 843 844	V.A.2.b).(4)	provide each fellow with documented semiannual evaluation of performance with feedback. <sup>(Core)</sup>
845 846 847 848 849 850 851	V.A.2.b).(4).(a)	The semiannual evaluation should include review of an individualized learning e-portfolio, which may include IT applications used, projects participated in, presentations given, team/committee work, courses taken, externships, or other educational product. <sup>(Detail)</sup>
852 853 854 855	V.A.2.c)	The evaluations of fellow performance must be accessible for review by the fellow, in accordance with institutional policy.
856 857	V.A.3.	Summative Evaluation
858 859 860 861 862	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. <sup>(Core)</sup>
863 864 865	V.A.3.b)	The program director must provide a summative evaluation for each fellow upon completion of the program. <sup>(Core)</sup>

866		This eva	aluation must:
867 868 869 870 871 872	V.A.3.b).(1)	n fe	become part of the fellow's permanent record naintained by the institution, and must be accessible or review by the fellow in accordance with Institutional policy; <sup>(Detail)</sup>
873 874 875	V.A.3.b).(2)	d p	ocument the fellow's performance during the final period of education; and, <sup>(Detail)</sup>
876 877 878 879	V.A.3.b).(3)	С	erify that the fellow has demonstrated sufficient competence to enter practice without direct upervision. <sup>(Detail)</sup>
880 881	V.B.	Faculty Evaluation	
882 883 884	V.B.1.	At least annual it relates to the	ly, the program must evaluate faculty performance as educational program. <sup>(Core)</sup>
885 886 887 888	V.B.2.	teaching abiliti	ons should include a review of the faculty's clinical es, commitment to the educational program, clinical ofessionalism, and scholarly activities. <sup>(Detail)</sup>
889 890 891	V.B.3.		n must include at least annual written confidential the fellows. <sup>(Detail)</sup>
892 893	V.C.	Program Evaluation a	nd Improvement
894 895 896	V.C.1.	The program d Committee (PE	irector must appoint the Program Evaluation
897 898	V.C.1.a)	The Pro	gram Evaluation Committee:
899 900 901 902	V.C.1.a).(1)	n	nust be composed of at least two program faculty nembers and should include at least one resident; Core)
903 904 905	V.C.1.a).(2)	n a	nust have a written description of its responsibilities; nd, <sup>(Core)</sup>
906 907	V.C.1.a).(3)	s	hould participate actively in:
908 909 910 911	V.C.1.a).(3).(a)	)	planning, developing, implementing, and evaluating educational activities of the program; <sup>(Detail)</sup>
912 913 914 915	V.C.1.a).(3).(b	)	reviewing and making recommendations for revision of competency-based curriculum goals and objectives; <sup>(Detail)</sup>
916	V.C.1.a).(3).(c)	)	addressing areas of non-compliance with

917		ACGME standards; and, (Detail)
918 919 920 921	V.C.1.a).(3).(d)	reviewing the program annually using evaluations of faculty, residents, and others, as specified below. <sup>(Detail)</sup>
These are not residents. They are fellows. Wording is inconsistent		The program, through the PEC, must document formal, systematic evaluation of the curriculum at least annually, and is responsible for rendering a written and Annual Program Evaluation (APE). <sup>(Core)</sup>
throughout.	. In some areas of tent, the term	The program must monitor and track each of the following areas:
locations, it	used. In other is as if someone	resident performance; (Core)
from a resid	•	faculty development; (Core)
document without regard to the target of this document. It is either sloppy work,		graduate performance, including performance of program graduates on the certification examination; <sup>(Core)</sup>
laziness or organization	an out of touch n.	program quality; and, <sup>(Core)</sup>
938 939 940	V.C.2.d).(1)	Residents and faculty must have the opportunity to evaluate the program confidentially and in writing at least annually, and <sup>(Detail)</sup>
941 942 943 944 945	V.C.2.d).(2)	The program must use the results of residents' and faculty members' assessments of the program together with other program evaluation results to improve the program. <sup>(Detail)</sup>
946 947 948	V.C.2.e)	progress on the previous year's action plan(s). <sup>(Core)</sup>
948 949 950 951 952 953	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 monitored. <sup>(Core)</sup>
954 955 956	V.C.3.a)	The action plan should be reviewed and approved by the teaching faculty and documented in meeting minutes. <sup>(Detail)</sup>
950 957 958	VI. Fellow	Duty Hours in the Learning and Working Environment
959 960	VI.A. I	Professionalism, Personal Responsibility, and Patient Safety
961 962 963 964 965	VI.A.1.	Programs and sponsoring institutions must educate fellows and faculty members concerning the professional responsibilities of physicians to appear for duty appropriately rested and fit to provide the services required by their patients. <sup>(Core)</sup>
966 967	VI.A.2.	The program must be committed to and responsible for promoting patient safety and fellow well-being in a supportive educational

968		environment. <sup>(Core)</sup>
969		
970	VI.A.3.	The program director must ensure that fellows are integrated and
971		actively participate in interdisciplinary clinical quality improvement
972		and patient safety programs. (Core)
973		
974	VI.A.4.	The learning objectives of the program must:
975		
976	VI.A.4.a)	be accomplished through an appropriate blend of supervised
977		patient care responsibilities, clinical teaching, and didactic
978		educational events; and, <sup>(Coré)</sup>
979		
980	VI.A.4.b)	not be compromised by excessive reliance on fellows to fulfill
981		non-physician service obligations. (Core)
982		non physician control congationer
983	VI.A.5.	The program director and institution must ensure a culture of
984	VI.A.J.	professionalism that supports patient safety and personal
985 985		responsibility. <sup>(Core)</sup>
986 986		responsibility.
	VI.A.6.	Follows and faculty members must demonstrate an understanding
987	VI.A.0.	Fellows and faculty members must demonstrate an understanding
988		and acceptance of their personal role in the following:
989		
990	VI.A.6.a)	assurance of the safety and welfare of patients entrusted to
991		their care; <sup>(Outcome)</sup>
992		(Outerse)
993	VI.A.6.b)	provision of patient- and family-centered care; <sup>(Outcome)</sup>
994		
995	VI.A.6.c)	assurance of their fitness for duty; <sup>(Outcome)</sup>
996		
997	VI.A.6.d)	management of their time before, during, and after clinical
998		assignments; <sup>(Outcome)</sup>
999		-
1000	VI.A.6.e)	recognition of impairment, including illness and fatigue, in
1001		themselves and in their peers; (Outcome)
1002		
1003	VI.A.6.f)	attention to lifelong learning; (Outcome)
1004	,	
1005	VI.A.6.g)	the monitoring of their patient care performance improvement
1006	tin along)	indicators; and, <sup>(Outcome)</sup>
1007		
1008	VI.A.6.h)	honest and accurate reporting of duty hours, patient
1009	VI.A.0.11	outcomes, and clinical experience data. <sup>(Outcome)</sup>
1009		outcomes, and chinical experience data.
		All follows and faculty members must demonstrate responses
1011	VI.A.7.	All fellows and faculty members must demonstrate responsiveness
1012		to patient needs that supersedes self-interest. They must recognize
1013		that under certain circumstances, the best interests of the patient
1014		may be served by transitioning that patient's care to another
1015		qualified and rested provider. <sup>(Outcome)</sup>
1016		
1017	VI.B.	Transitions of Care
1018		

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

1070 1071 1072	VI.D.2.	The program must demonstrate that the appropriate level of supervision is in place for all fellows who care for patients. <sup>(Core)</sup>
1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082		Supervision may be exercised through a variety of methods. Some activities require the physical presence of the supervising faculty member. For many aspects of patient care, the supervising physician may be a more advanced resident or 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 in the institution, or by means of telephonic and/or electronic modalities. In some circumstances, supervision may include post-hoc review of fellow-delivered care with feedback as to the appropriateness of that care. <sup>(Detail)</sup>
1083 1084 1085	VI.D.3.	Levels of Supervision
1085 1086 1087 1088 1089		To ensure oversight of fellow supervision and graded authority and responsibility, the program must use the following classification of supervision: <sup>(Core)</sup>
1099 1090 1091 1092	VI.D.3.a)	Direct Supervision – the supervising physician is physically present with the fellow and patient. <sup>(Core)</sup>
1092 1093 1094	VI.D.3.b)	Indirect Supervision:
1095 1096 1097 1098 1099	VI.D.3.b).(1)	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. <sup>(Core)</sup>
1100 1101 1102 1103 1104 1105 1106	VI.D.3.b).(2)	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. <sup>(Core)</sup>
1107 1108 1109 1110	VI.D.3.c)	Oversight – the supervising physician is available to provide review of procedures/encounters with feedback provided after care is delivered. <sup>(Core)</sup>
1111 1112 1113 1114 1115	VI.D.4.	The privilege of progressive authority and responsibility, conditional independence, and a supervisory role in patient care delegated to each fellow must be assigned by the program director and faculty members. <sup>(Core)</sup>
1116 1117 1118 1119	VI.D.4.a)	The program director must evaluate each fellow's abilities based on specific criteria. When available, evaluation should be guided by specific national standards-based criteria. <sup>(Core)</sup>
1120	VI.D.4.b)	Faculty members functioning as supervising physicians

	1121
	1122
	1123
VI.D.4.c)	1124
	1125
	1126
	1127
	1128
VI.D.5.	1129
	1130
	1131

While this is "Core", it needs some "Detailed" notation about how much time (aggregate/monthly) the CI fellows should spend in direct patient 1) care/direct resident teaching. Given that this is a 2-year fellowship, and most will be associated with a Master's degree, a 0.1 FTE dedicated to direct patient care seems reasonable with flexibility in how that 0.1 is allocated for specialties with procedural or inpatient requirements. It is stated previously that the normal clinical time commitment for the fellows is 1/2 day per week, which is equivalent to 0.1 FTE. Again, wording needs to be consistent throughout the document.

1160	VI.G.	Fellow Duty Hours
1161		
1162	VI.G.1.	Maximum Hours of Work per Week
1163		
1164		Duty hours must be limited to 80 hours per week, averaged over a
1165		four-week period, inclusive of all in-house call activities and all
1166		moonlighting. <sup>(Core)</sup>
1167		
1168	VI.G.1.a)	Duty Hour Exceptions
1169		
1170	VI.G.1.a).(1	<ol> <li>A Review Committee may grant exceptions for up to 10</li> </ol>
1171		percent or a maximum of 88 hours to individual

should delegate portions of care to fellows, based on the needs of the patient and the skills of the fellows. <sup>(Detail)</sup>

Fellows should serve in a supervisory role of junior residents in recognition of their progress toward independence, based on the needs of each patient and the skills of the individual resident or fellow. <sup>(Detail)</sup>

Programs must set guidelines for circumstances and events in which fellows must communicate with appropriate supervising faculty members, such as the transfer of a patient to an intensive care unit, or end-of-life decisions. <sup>(Core)</sup>

Each fellow must know the limits of his/her scope of authority, and the circumstances under which he/she is permitted to act with conditional independence. <sup>(Outcome)</sup>

In particular, PGY-1 residents should be supervised either directly or indirectly with direct supervision immediately available. <sup>(Core)</sup>

Faculty supervision assignments should be of sufficient duration to assess the knowledge and skills of each fellow and delegate to him/her the appropriate level of patient care authority and responsibility. <sup>(Detail)</sup>

**Clinical Responsibilities** 

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

## Teamwork

Fellows must care for patients in an environment that maximizes effective 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. <sup>(Core)</sup>

1172 1173		programs based on a sound educational rationale.
1174		
1175	VI.G.1.a).(2)	In preparing a request for an exception the program
1176		director must follow the duty hour exception policy
1177		from the ACGME Manual on Policies and Procedures.
1178		
1179	$\lambda = 0$	Drive to automitting the request to the Deview
1180	VI.G.1.a).(3)	Prior to submitting the request to the Review
1181 1182		Committee, the program director must obtain approval of the institution's GMEC and DIO. <sup>(Detail)</sup>
1183		of the institution's GMEC and DIO.
1184	VI.G.2.	Moonlighting
1185	VI.O.Z.	wooningnung
1186	VI.G.2.a)	Moonlighting must not interfere with the ability of the fellow
1187	theizia,	to achieve the goals and objectives of the educational
1188		program. <sup>(Core)</sup>
1189		P 9
1190	VI.G.2.b)	Time spent by fellows in Internal and External Moonlighting
1191	,	(as defined in the ACGME Glossary of Terms) must be
1192		counted towards the 80-hour Maximum Weekly Hour Limit.
1193		(Core)
1194		
This appear		PGY-1 residents are not permitted to moonlight. <sup>(Core)</sup>
boiler-plat		
general AC		Mandatory Time Free of Duty
documents on residency		Follows must be acheduled for a minimum of and day free of duty
education vice content specific to fellowship		Fellows must be scheduled for a minimum of one day free of duty every week (when averaged over four weeks). At-home call cannot
-	t should be	be assigned on these free days. <sup>(Core)</sup>
	deal with this	be assigned on mese nee days.
program, which is a		———→ Maximum Duty Period Length
fellowship.		
		Duty periods of PGY-1 residents must not exceed 16 hours in
Again, cons	sistent	duration. <sup>(Core)</sup>
terminology	/ throughout	
	ent vice some	Duty periods of PGY-2 residents and above may be
"fellows" content and		scheduled to a maximum of 24 hours of continuous duty in
	lency" copy/	the hospital. <sup>(Core)</sup>
paste mater		
1212	VI.G.4.D).(1)	Programs must encourage fellows to use alertness
1213		management strategies in the context of patient care
1214		responsibilities. Strategic napping, especially after 16
1215 1216		hours of continuous duty and between the hours of 10:00 p.m. and 8:00 a.m., is strongly suggested. <sup>(Detail)</sup>
1216		iv.vv p.iii. and o.vv a.iii., is strongly suggested.
1217	VI.G.4.b).(2)	It is essential for patient safety and fellow education
1210	······································	that effective transitions in care occur. Fellows may be
1220		allowed to remain on-site in order to accomplish these
1221		tasks; however, this period of time must be no longer
1222		than an additional four hours. (Core)

1223		
1224	VI.G.4.b).(3)	Fellows must not be assigned additional clinical
1225		responsibilities after 24 hours of continuous in-house
1226		duty. <sup>(Core)</sup>
1227		
1228	VI.G.4.b).(4)	In unusual circumstances, fellows, on their own
1229		initiative, may remain beyond their scheduled period
1230		of duty to continue to provide care to a single patient.
1231		Justifications for such extensions of duty are limited
1232		to reasons of required continuity for a severely ill or
1233		unstable patient, academic importance of the events
1234		transpiring, or humanistic attention to the needs of a
1235		patient or family. (Detail)
1236		
1237	VI.G.4.b).(4).(a)	Under those circumstances, the fellow must:
1238		
1239	VI.G.4.b).(4).(a).(i)	appropriately hand over the care of all
1240		other patients to the team responsible
1241		for their continuing care; and, <sup>(Detail)</sup>
1242		
1243	VI.G.4.b).(4).(a).(ii)	document the reasons for remaining to
1244		care for the patient in question and
1245		submit that documentation in every
1246		circumstance to the program director.
1247		(Detail)
1248		
1249	VI.G.4.b).(4).(b)	The program director must review each
1250		submission of additional service, and track
1251		both individual fellow and program-wide
1252		episodes of additional duty. (Detail)
1253		
<u>1254</u>	VIG5	Minimum Time Off between Scheduled Duty Periods
_	lighted areas	
here cou	ed. They do	PGY-1 residents should have 10 hours, and must have eight
not appl		hours, free of duty between scheduled duty periods. (Core)
	ip or the	
fellows.		Intermediate-level residents should have 10 hours free of
		duty, and must have eight hours between scheduled duty
<b>1261</b>		periods. They must have at least 14 hours free of duty after 24
1262		hours of in-house duty. (Core)
1263		Desidents in the final vacue of advection much be meaned to
1264	VI.G.5.c)	Residents in the final years of education must be prepared to
1265		enter the unsupervised practice of medicine and care for
1266		patients over irregular or extended periods. (Outcome)
1267 1268		Clinical informatics fellows are considered to be in the final
1268		years of education.
1209		years of education.
1270	VI.G.5.c).(1)	This preparation must occur within the context of the
1271	•	80-hour, maximum duty period length, and one-day-
1272		off-in-seven standards. While it is desirable that
0		

1274 1275 1276 1277 1278 1279		residents in their final years of education 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. <sup>(Detail)</sup>
1279 1280 1281 1282 1283 1284 1285	VI.G.5.c).(1).(a)	Circumstances of return-to-hospital activities with fewer than eight hours away from the hospital by residents in their final years of education must be monitored by the program director. <sup>(Detail)</sup>
1286 1287	VI.G.6.	Maximum Frequency of In-House Night Float
1288 1289 1290		Fellows must not be scheduled for more than six consecutive nights of night float. <sup>(Core)</sup>
1291 1292	VI.G.7.	Maximum In-House On-Call Frequency
1293 1294 1295 1296		PGY-2 residents and above must be scheduled for in-house call no more frequently than every-third-night (when averaged over a four-week period). <sup>(Core)</sup>
1297 1298	VI.G.8.	At-Home Call
1299 1300 1301 1302 1303 1304	VI.G.8.a)	Time spent in the hospital by fellows on at-home call must count towards the 80-hour maximum weekly hour limit. The frequency of at-home call is not subject to the every-third- night limitation, but must satisfy the requirement for one-day- in-seven free of duty, when averaged over four weeks. <sup>(Core)</sup>
1305 1306 1307 1308	VI.G.8.a).(1)	At-home call must not be so frequent or taxing as to preclude rest or reasonable personal time for each fellow. <sup>(Core)</sup>
1309 1310 1311 1312 1313	VI.G.8.b)	Fellows are permitted to return to the hospital while on at- home call to care for new or established patients. Each episode of this type of care, while it must be included in the 80-hour weekly maximum, will not initiate a new "off-duty period". <sup>(Detail)</sup>
1314 1315		***
1316 1317 1318 1319 1320 1321 1322 1323 1324	graduate medical educ Detail Requirements: compliance with a Core Requirements may utili Outcome Requirement	Statements that define structure, resource, or process elements essential to every ational program. Statements that describe a specific structure, resource, or process, for achieving e Requirement. Programs in substantial compliance with the Outcome ze alternative or innovative approaches to meet Core Requirements. hts: Statements that specify expected measurable or observable attributes kills, or attitudes) of residents or fellows at key stages of their graduate medical