



**ACGME International**

**Advanced Specialty Program Requirements for  
Graduate Medical Education in  
General Surgery**

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**ACGME International Specialty Program Requirements for  
Graduate Medical Education  
in General Surgery**

**Int. Introduction**

*Background and Intent: Programs must achieve and maintain Foundational Accreditation according to the ACGME-I Foundational Requirements prior to receiving Advanced Specialty Accreditation. The Advanced Specialty Requirements noted below complement the ACGME-I Foundational Requirements. For each section, the Advanced Specialty Requirements should be considered together with the Foundational Requirements.*

**Int. I. Definition and Scope of the Specialty**

The practice of surgery encompasses the provision of comprehensive care to the patient with surgical disorders of the abdomen and its contents; the alimentary tract; skin; soft tissues; breast; and endocrine organs; and trauma. The practice of surgery also encompasses surgical evaluation and management of patients with oncologic, vascular, pediatric, and intensive care disorders; and surgical stabilization and management of severe conditions of the cardiothoracic, urologic, gynecologic, neurologic, and otolaryngologic systems and indications for specialty consultations. Surgeons ~~possess~~ exercise surgical judgement, which includes knowledge and technical skills, and the ability to integrate the acquired knowledge into the clinical situation to provide comprehensive care. Comprehensive surgical care includes the evaluation, diagnosis, operative, and non-operative treatment of surgical disorders and the appropriate disposition and follow-up of patients.

**Int. II. Duration of Education**

Int. II.A. The educational program in general surgery must be 60 or 72 months in length.

**I. Institution**

**I.A. Sponsoring Institution**

See International Foundational Requirements, Section I.A.

**I.B. Participating Sites**

See International Foundational Requirements, Section I.B.

**II. Program Personnel and Resources**

**II.A. Program Director**

II.A.1. For programs with more than 20 residents, there should be at least one associate program director with an aggregate minimum of 10 percent full-time equivalent (FTE) support.

**II.B. Faculty**

See International Foundational Requirements, Section II.B.

**II.C. Other Program Personnel**

- II.C.1. Staff members must be available from a variety of services that provide a critical role in the care of patients with surgical conditions, such as radiology and pathology.

**II.D. Resources**

- II.D.1. An ACGME-I-accredited surgery program must be conducted in an institution that can document a sufficient volume and variety ~~breadth~~ of patient care.

- II.D.1.a) At a minimum, the institution must routinely care for patients with a broad spectrum of surgical diseases and conditions.

- II.D.2. The institutional volume and variety of operative experience must be adequate to ensure a sufficient number and distribution of complex cases (as determined by the Review Committee-International) for each resident in the program.

- II.D.3. The Sponsoring Institution and program must jointly ensure the availability of adequate resources for resident education, including:

- II.D.3.a) clinical experiences in a resource-limited environment;

- II.D.3.b) online radiographic and laboratory reporting systems at the primary clinical site; and,

- II.D.3.c) opportunities for simulation and skills-building experiences.  
~~laboratories~~

**III. Resident Appointment**

**III.A. Eligibility Criteria**

See International Foundational Requirements, Section III.A.

**III.B. Number of Residents**

- III.B.1. The program's educational resources must be adequate to support the number of residents appointed to the program.

- III.B.2. The program director must not appoint more residents than approved by the Review Committee-International.

- III.B.3. Residency positions must be allocated to either ~~one of two groups~~: categorical or preliminary positions.

102	III.B.3.a)	Residents who have satisfactorily completed a preliminary <del>training</del> year must not be appointed to additional years as preliminary residents.
103		
104		
105		
106	III.B.3.b)	The number of preliminary positions must not exceed the total number of approved post-graduate year one (PGY-1) categorical positions.
107		
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109		
110	III.B.3.c)	Documentation of continuation in graduate medical education for preliminary residents must be provided at the time of each accreditation site visit.
111		
112		
113		
114	III.B.3.d)	The program director must counsel and assist preliminary residents in obtaining future positions.
115		
116		
117	<b>III.C. Resident Transfers</b>	
118		
119	III.C.1.	<u>Residents must spend the final two years of their educational program</u>
120		<del>education must be spent in the same residency program.</del>
121		
122	<b>III.D. Appointment of Fellows and Other Learners</b>	
123		
124		See International Foundational Requirements, Section III.D.
125		
126	<b>IV. Specialty-Specific Educational Program</b>	
127		
128	<b>IV.A. ACGME-I Competencies</b>	
129		
130	IV.A.1.	The program must integrate the following ACGME-I Competencies into the curriculum.
131		
132		
133	IV.A.1.a)	Professionalism
134		
135	IV.A.1.a).(1)	Residents must demonstrate a commitment to professionalism and an adherence to ethical principles.
136		Residents must demonstrate:
137		
138		
139	IV.A.1.a).(1).(a)	compassion, integrity, and respect for others;
140		
141	IV.A.1.a).(1).(b)	responsiveness to patient needs that supersedes self-interest;
142		
143		
144	IV.A.1.a).(1).(c)	respect for patient privacy and autonomy;
145		
146	IV.A.1.a).(1).(d)	accountability to patients, society, and the profession;
147		
148		
149	IV.A.1.a).(1).(e)	sensitivity and responsiveness to a diverse patient population, including to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation;
150		
151		
152		

153	IV.A.1.a).(1).(f)	high standards of ethical behavior; and,
154		
155	IV.A.1.a).(1).(g)	a commitment to continuous patient care.
156		
157	IV.A.1.b)	Patient Care and Procedural Skills
158		
159	IV.A.1.b).(1)	Residents must provide patient care that is compassionate,
160		appropriate, and effective for the treatment of health
161		problems and the promotion of health. Residents must
162		demonstrate competence <u>in:</u>
163		
164	IV.A.1.b).(1).(a)	<del>manual dexterity appropriate for their level;</del> <u>continuity of</u>
165		<u>comprehensive patient care;</u>
166		
167	IV.A.1.b).(1).(b)	<u>evaluation, diagnosis, and operative and non-</u>
168		<u>operative treatment across the five phases of care</u>
169		<u>(pre-habilitation, pre-operative, operative, immediate</u>
170		<u>recovery, and long-term recovery/follow-up) across</u>
171		<u>the spectrum of ages for elective, urgent, and</u>
172		<u>emergent conditions;</u>
173		
174	<del>IV.A.1.b).(1).(b)</del>	<del>developing and executing patient care plans-</del>
175		<del>appropriate for their level, including management of</del>
176		<del>pain;</del>
177		
178	IV.A.1.b).(1).(c)	<u>diagnosing and</u> managing patients with
179		severe and complex illnesses and with major
180		injuries, <u>including providing appropriate</u>
181		<u>consultations and requesting referrals as</u>
182		<u>needed;</u>
183		
184	IV.A.1.b).(1).(d)	essential content areas, <del>of</del> <u>including:</u> the abdomen
185		and its contents; the alimentary tract; skin, soft
186		tissues, and breast; endocrine surgery; head and
187		neck surgery; pediatric surgery; surgical critical care;
188		surgical oncology; trauma and non-operative trauma;
189		and the vascular system; and,
190		
191	IV.A.1.b).(1).(e)	managing general surgical conditions arising in
192		transplant patients.
193		
194	IV.A.1.b).(2)	<u>Residents must demonstrate competence in emerging</u>
195		<u>surgical and minimally invasive technologies as</u>
196		<u>relevant to their setting.</u>
197		
198	IV.A.1.c)	Medical Knowledge
199		
200	IV.A.1.c).(1)	Residents must demonstrate knowledge of established
201		and evolving biomedical clinical, epidemiological, and
202		social-behavioral sciences, as well as the application of
203		this knowledge to patient care. Residents must

204		demonstrate knowledge <u>of applied scientific principles</u>
205		<u>for general surgery practice, including:</u>
206		
207	IV.A.1.c).(1).(a)	applied surgical anatomy and surgical pathology;
208		
209	IV.A.1.c).(1).(b)	burn physiology and initial burn management;
210		
211	IV.A.1.c).(1).(c)	critical evaluation of pertinent scientific information;
212		
213	IV.A.1.c).(1).(d)	hematologic disorders;
214		
215	IV.A.1.c).(1).(e)	homeostasis, shock, and circulatory physiology;
216		
217	IV.A.1.c).(1).(f)	immunobiology and transplantation;
218		
219	IV.A.1.c).(1).(g)	metabolic response to injury;
220		
221	IV.A.1.c).(1).(h)	oncology;
222		
223	IV.A.1.c).(1).(i)	surgical endocrinology;
224		
225	IV.A.1.c).(1).(j)	surgical nutrition, and fluid and electrolyte balance;
226		
227	IV.A.1.c).(1).(k)	the elements of wound healing;
228		
229	IV.A.1.c).(1).(l)	the fundamentals of basic science as applied to
230		clinical surgery; and,
231		
232	IV.A.1.c).(1).(m)	<u>surgical technology.</u>
233		
234	IV.A.1.c).(2)	<u>Residents must demonstrate appropriate knowledge of</u>
235		<u>principles of ethics, palliative care, communication, and</u>
236		<u>health care disparities as these apply to surgical care.</u>
237		
238	IV.A.1.d)	Practice-Based Learning and Improvement
239		
240	IV.A.1.d).(1)	Residents must demonstrate the ability to investigate and
241		evaluate their care of patients, to appraise and assimilate
242		scientific evidence, and to continuously improve patient
243		care based on constant self-evaluation and lifelong
244		learning. Residents are expected to develop skills and
245		habits to be able to meet the following goals:
246		
247	IV.A.1.d).(1).(a)	identify and perform appropriate learning activities;
248		
249	IV.A.1.d).(1).(b)	identify strengths, deficiencies, and limits in one's
250		knowledge and expertise;
251		
252	IV.A.1.d).(1).(c)	incorporate formative evaluation feedback into daily
253		practice;
254		
255	IV.A.1.d).(1).(d)	locate, appraise, and assimilate evidence from

256		scientific studies related to their patients' health
257		problems;
258		
259	IV.A.1.d).(1).(e)	participate in the education of patients, patients'
260		families, students, other residents, and other health
261		professionals;
262		
263	IV.A.1.d).(1).(f)	<u>regularly participate in quality improvement</u>
264		<u>activities, and morbidity and mortality conferences</u>
265		that evaluate and analyze patient care outcomes;
266		
267	IV.A.1.d).(1).(g)	set learning and improvement goals, <u>and</u>
268		<u>regularly assess their strengths, weaknesses, and</u>
269		<u>progress in achieving those learning goals;</u>
270		
271	IV.A.1.d).(1).(h)	systematically analyze practice using quality
272		improvement methods, and implement changes
273		with the goal of practice improvement;
274		
275	IV.A.1.d).(1).(i)	use information technology to optimize learning;
276		and,
277		
278	IV.A.1.d).(1).(j)	<del>utilize</del> <u>use</u> an evidence-based approach to patient
279		care.
280		
281	IV.A.1.e)	Interpersonal and Communication Skills
282		
283	IV.A.1.e).(1)	Residents must demonstrate interpersonal and
284		communication skills that result in the effective exchange
285		of information and collaboration with patients, <del>their</del>
286		<u>patients'</u> families, and health professionals. Residents
287		must <u>demonstrate competence in:</u>
288		
289	IV.A.1.e).(1).(a)	communicating effectively with patients,
290		patients' families, and the public, as appropriate,
291		across a broad range of socioeconomic and
292		cultural backgrounds;
293		
294	IV.A.1.e).(1).(b)	communicating effectively with physicians, other
295		health professionals, and health-related agencies;
296		
297	IV.A.1.e).(1).(c)	working effectively as a member or leader of a
298		health care team or other professional group;
299		
300	IV.A.1.e).(1).(d)	acting in a consultative role to other physicians
301		and health professionals;
302		
303	IV.A.1.e).(1).(e)	maintaining comprehensive, timely, and
304		legible medical records, if applicable;
305		
306	IV.A.1.e).(1).(f)	counselling and educating patients and <del>their</del>
307		<u>patients'</u> families; and,

308		
309	IV.A.1.e).(1).(g)	effectively documenting practice activities.
310		
311	IV.A.1.f)	Systems-Based Practice
312		
313	IV.A.1.f).(1)	Residents must demonstrate an awareness of and
314		responsiveness to the larger context and system of health
315		care, as well as the ability to call effectively on other
316		resources in the system to provide optimal health care.
317		Residents must:
318		
319	IV.A.1.f).(1).(a)	work effectively in various health care delivery
320		settings and systems relevant to their clinical
321		specialty;
322		
323	IV.A.1.f).(1).(b)	coordinate patient care within the health care
324		system relevant to their clinical specialty;
325		
326	IV.A.1.f).(1).(c)	incorporate considerations of cost awareness and
327		risk-benefit analysis in patient and/or population-
328		based care as appropriate;
329		
330	IV.A.1.f).(1).(d)	advocate for quality patient care and optimal patient
331		care systems;
332		
333	IV.A.1.f).(1).(e)	work in interprofessional teams to enhance patient
334		safety and improve patient care quality;
335		
336	IV.A.1.f).(1).(f)	participate in identifying system errors and
337		implementing potential systems solutions;
338		
339	IV.A.1.f).(1).(g)	practice high-quality, cost-effective patient care;
340		
341	IV.A.1.f).(1).(h)	demonstrate knowledge of risk-benefit analysis;
342		and,
343		
344	IV.A.1.f).(1).(i)	demonstrate an understanding of the roles of
345		different specialists and other health care
346		professionals in overall patient management.
347		
348	<b>IV.B.</b>	<b>Regularly Scheduled Educational Activities</b>
349		
350	IV.B.1.	The core curriculum must include a didactic program based on the core
351		knowledge content of general surgery.
352		
353	IV.B.2.	The educational program should include the fundamentals of basic
354		science as applied to clinical surgery, including:
355		
356	IV.B.2.a)	applied surgical anatomy and surgical pathology;
357		
358	IV.B.2.b)	fluid and electrolyte balance;
359		



360	IV.B.2.c)	hematologic disorders;
361		
362	IV.B.2.d)	homeostasis, shock, and circulatory physiology;
363		
364	IV.B.2.e)	immunobiology and transplantation;
365		
366	IV.B.2.f)	oncology;
367		
368	IV.B.2.g)	surgical endocrinology;
369		
370	IV.B.2.h)	surgical nutrition;
371		
372	IV.B.2.i)	the elements of wound healing; and,
373		
374	IV.B.2.j)	the metabolic response to injury, to include to burns.
375		
376	IV.B.3.	The following types of conferences must exist within a program:
377		
378	IV.B.3.a)	a course or a structured series of lectures that ensures education
379		in the basic and clinical sciences fundamental to surgery, including
380		technological advances that relate to surgery and the care of
381		patients with surgical diseases, as well as education in critical
382		thinking, design of experiments, and evaluation of data; and,
383	IV.B.3.b)	regular organized clinical teaching, such as grand rounds, ward
384		rounds, and clinical conferences.
385		
386	IV.B.4.	<del>a weekly</del> Morbidity and mortality or quality improvement
387		conferences <u>must be scheduled at least monthly.</u>
388		
389	IV.B.5.	The program must document a clinical curriculum that is sequential,
390		comprehensive, and organized from basic to complex.
391		
392	IV.B.6.	Conferences should be scheduled to permit resident attendance on a
393		regular basis, and resident time must be protected from interruption by
394		routine clinical duties.
395		
396	IV.B.7.	Documentation of attendance by 75 percent of residents at the core
397		conferences must be achieved.
398	<b>IV.C.</b>	<b>Clinical Experiences</b>
399		
400	IV.C.1.	<u>Assignment of rotations must be structured to minimize the frequency of</u>
401		<u>rotational transitions, and rotations must be of sufficient length to provide a</u>
402		<u>quality educational experience, defined by continuity of patient care,</u>
403		<u>ongoing supervision, longitudinal relationships with faculty members, and</u>
404		<u>meaningful assessment and feedback.</u>
405		
406	IV.C.1.a)	<u>Core rotations in the essential content areas of surgery must be at</u>
407		<u>least four contiguous weeks in duration.</u>
408		
409	IV.C.2.	The clinical program should be organized as follows:

410		
411	IV.C.2.a)	At least 54 months must be spent on clinical assignments in
412		surgery, with documented experience in emergency care and
413		surgical critical care.
414		
415	IV.C.1.a).(1)	At least 42 of the 54 months must be spent on clinical
416		assignments in the essential content areas of surgery,
417		including:
418		
419	IV.C.1.a).(1).(a)	the abdomen and its contents;
420		
421	IV.C.1.a).(1).(b)	the alimentary tract;
422		
423	IV.C.1.a).(1).(c)	endocrine surgery;
424		
425	IV.C.1.a).(1).(d)	head and neck surgery;
426		
427	IV.C.1.a).(1).(e)	pediatric surgery;
428		
429	IV.C.1.a).(1).(f)	skin, soft tissues, and breast;
430		
431	IV.C.1.a).(1).(g)	surgical critical care;
432		
433	IV.C.1.a).(1).(h)	surgical oncology;
434		
435	IV.C.1.a).(1).(i)	the vascular system; and,
436		
437	IV.C.1.a).(1).(j)	trauma and non-operative trauma (burn experience
438		that includes patient management may be counted
439		toward non-operative trauma).
440		
441	IV.C.2.b)	Formal <u>clinical</u> rotations in burn care, cardiac surgery,
442		gynecology, neurological surgery, orthopaedic surgery,
443		<u>transplant care</u> , and urology are not <del>required</del> <u>mandatory</u> .
444		
445	IV.C.1.b).(1)	Clearly documented goals and objectives must be provided
446		to residents and faculty members if these components are
447		included as rotations.
448		
449	IV.C.2.c)	There must be <u>either</u> a transplant rotation or <u>a specifically</u>
450		<u>designed course</u> that includes <del>patient management and</del>
451		<del>covers</del> knowledge of the principles of immunology,
452		immunosuppression, and the management of general
453		surgical conditions arising in transplant patients.
454		
455	IV.C.1.c).(1)	Clearly documented goals and objectives must be provided
456		to residents and faculty members for this experience.
457		
458	IV.C.2.d)	No more than six months total should be allocated to research or to
459		non-surgical disciplines, such as anesthesiology, internal
460		medicine, pediatrics, or surgical pathology (gastroenterology is
461		exempt from this limit if the rotation provides endoscopic

462		experiences).
463		
464	IV.C.2.e)	No more than 12 months should be devoted to a surgical discipline
465		other than the principal components of surgery.
466		
467	IV.C.3.	Prior to graduation, each resident must perform a minimum number of
468		specific cases as defined by the Review Committee-International.
469		
470	IV.C.3.a)	Performance of this minimum number of cases must not be
471		interpreted as an equivalent to <u>achievement of</u>
472		<del>competence achievement.</del>
473		
474	IV.C.4.	Each resident must <del>have</del> <u>complete</u> a minimum of 750 major cases.
475		
476	IV.C.4.a)	A minimum of 150 major cases must occur in a resident's chief
477		year.
478		
479	IV.C.5.	Residents must have experience with a variety of endoscopic procedures,
480		including esophogastro-duodenoscopy <u>and</u> colonoscopy, <del>and</del>
481		<del>bronchoscopy</del> , as well as <del>in</del> advanced laparoscopy.
482		
483	IV.C.6.	Residents must have experience with evolving diagnostic and therapeutic
484		methods.
485		
486	IV.C.7.	The program must provide residents with an outpatient experience to
487		evaluate patients both pre-operatively, including initial evaluation, and
488		post-operatively.
489		
490	IV.C.7.a)	At least 75 percent of assignments in the essential content areas
491		must include an outpatient experience of one half-day per week.
492		(An outpatient experience is not required for assignments in the
493		secondary components of surgery or surgical critical care).
494		
495	IV.C.8.	Operative experience
496		
497	IV.C.8.a)	Prior to graduation, residents must document completion of a
498		sufficient breadth of complex procedures.
499		
500	IV.C.8.b)	All residents (categorical, designated preliminary, and non-
501		designated preliminary residents in ACGME-I-accredited positions)
502		must enter their operative experience, concurrently during each
503		year of the <del>residency</del> <u>educational program</u> , in the ACGME-I Case
504		Log System.
505		
506	IV.C.8.c)	A chief resident and a fellow (whether or not the fellow is in an
507		ACGME-I-accredited <del>position</del> <u>program</u> ) must not have primary
508		responsibility for the same patient, except that general surgeons
509		and surgical critical care fellows may co-manage the non-
510		operative care of the same patient.
511		
512	IV.C.8.d)	The role of surgeon must include significant resident involvement
513		in the following aspects of management: determination or

514		confirmation of the diagnosis; provision of pre-operative care;
515		selection and accomplishment of the appropriate operative
516		procedure; and direction of post-operative care.
517		
518	IV.C.9.	Chief residents' clinical assignments should be scheduled in the final year
519		of the program.
520		
521	IV.C.9.a)	These assignments must be scheduled at the primary clinical site,
522		or at a participating site that meets all the following criteria:
523		
524	IV.C.9.a).(1)	The program director must appoint the members of the
525		teaching staff and the local program director at the
526		participating site.
527		
528	IV.C.9.a).(2)	The members of the faculty at the participating site must
529		demonstrate a commitment to scholarly pursuits.
530		
531	IV.C.9.a).(3)	Clinical experiences in the essential content areas should
532		be able to be obtained at the participating site.
533		
534	IV.C.9.a).(4)	The participating site should be in geographic proximity to
535		allow all residents to attend core conferences at the
536		primary clinical site.
537		
538	IV.C.9.a).(4).(a)	If the participating site is geographically remote and
539		joint conferences cannot be held, an equivalent
540		educational program of lectures and conferences
541		must occur at the participating site and must be fully
542		documented.
543		
544	IV.C.9.a).(4).(b)	Morbidity and mortality reviews must occur at the
545		participating site or at a combined central location.
546		
547	IV.C.9.a).(4).(c)	The participating site cannot be the primary site of
548		another accredited general surgery residency.
549		
550	IV.C.9.a).(5)	These assignments must include educational experiences
551		in the essential content areas of general surgery.
552		
553	IV.C.9.a).(6)	No more than four months of the chief year may be
554		devoted exclusively to any one essential area.
555		
556	IV.C.9.a).(6).(a)	Non-cardiac thoracic surgery and transplantation
557		rotations may be considered acceptable chief
558		resident assignments, as long as the chief resident
559		performs an appropriate number of complex cases
560		with documented participation in pre- and post-
561		operative care.
562		
563	IV.C.9.a).(7)	The chief resident may act as a teaching assistant (TA) to a
564		more junior resident with appropriate faculty member
565		supervision when justified by the experience.

- IV.C.9.a).(7).(a) No more than 50 TA cases listed must be credited toward the total requirement of 750 cases.
- IV.C.9.a).(7).(b) TA cases should not count towards the 150 minimum cases needed to fulfill the operative requirements for the chief resident year.
- IV.C.9.a).(7).(c) Junior residents performing these cases should also be credited as surgeon for these cases.
- IV.D. Scholarly Activity**
- See International Foundational Requirements, Section IV.D.
- V. Evaluation**
- V.A. Resident Evaluation**
- See International Foundational Requirements, Section V.A.
- V.B. Clinical Competency Committee**
- V.B.1. The Clinical Competency Committee must:
- V.B.1.a) conduct detailed reviews of resident case volume, breadth, and complexity;
- V.B.1.b) assess resident acquisition and maintenance of technical and non-technical skills using competency-based evaluation that begins in the PGY-1 and allows for formative resident feedback and evidence of learning and development, and provides directly observed evidence for summative judgments; and,
- V.B.1.c) specifically monitor residents' knowledge by use of a formal exam.
- V.C. Faculty Evaluation**
- See International Foundational Requirements, Section V.C.
- V.D. Program Evaluation and Improvement**
- See International Foundational Requirements, Section V.D.
- V.E. Program Evaluation Committee**
- See International Foundational Requirements, V.E
- VI. The Learning and Working Environment**
- See International Foundational Requirements, Section VI.