



**ACGME International**

**Advanced Specialty Program Requirements for  
Graduate Medical Education in  
Pulmonary Disease and Critical Care Medicine  
(Internal Medicine)**

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# ACGME International Specialty Program Requirements for Graduate Medical Education Pulmonary Disease and Critical Care Medicine (Internal Medicine)

## 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

Pulmonary disease medicine focuses on the etiology, diagnosis, prevention, and treatment of diseases affecting the ~~lungs and related organs~~ respiratory system. Critical care medicine ~~includes~~ is concerned with the diagnosis, management, and prevention of complications in patients who are severely ill and who usually require intensive monitoring and/or organ system support. Pulmonary disease and critical care medicine fellowships provide advanced education to allow the fellow to acquire competence in these areas. ~~with sufficient expertise to act as an independent consultant.~~

## Int. II. Duration of Education

Int. II.A. The educational program in pulmonary disease and critical care medicine must be 36 or 48 months in length.

## I. Institution

### I.A. Sponsoring Institution

I.A.1. A fellowship in pulmonary disease and critical care medicine must function as an integral part of an ACGME-I-accredited residency in internal medicine.

I.A.2. ~~The primary clinical site should have at least three ACGME-I accredited internal medicine subspecialty programs from the following disciplines: cardiovascular disease; gastroenterology; infectious diseases; nephrology; or pulmonary disease.~~

I.A.3. ~~The Sponsoring Institution must:~~

I.A.3.a) ~~establish the fellowship within a department of internal medicine or an administrative unit whose primary mission is the advancement of internal medicine subspecialty education and patient care; and,~~

I.A.3.b) ~~provide the program director with adequate support for the administrative activities of the fellowship.~~

I.A.4. ~~The Sponsoring Institution and participating sites must share appropriate inpatient and outpatient faculty performance data with the program director.~~

**I.B. Participating Sites**

See International Foundational Requirements, Section I.B.

**II. Program Personnel and Resources**

**II.A. Program Director**

See International Foundational Requirements, Section II.A.

~~II.A.1. The program director must:~~

~~II.A.1.a) monitor fellow stress, including mental or emotional conditions inhibiting performance or learning, and drug or alcohol related dysfunction;~~

~~II.A.1.b) provide access to timely confidential counseling and psychological support services to fellows;~~

~~II.A.1.c) evaluate and modify situations that demand excessive service or consistently produce undesirable stress on fellows;~~

~~II.A.1.d) ensure that fellows' service responsibilities are limited to patients for whom the teaching service has diagnostic and therapeutic responsibility; and,~~

~~II.A.1.e) participate in academic societies and educational programs designed to enhance educational and administrative skills.~~

**II.B. Faculty**

~~II.B.1. In addition to the program director, there must be at least three core faculty members.~~

~~II.B.1.a) For programs with more than nine fellows, there must be at least one core faculty member for every 1.5 fellows.~~

~~II.B.2. Core faculty members must be active clinicians with knowledge of, experience in, and commitment to pulmonary disease and/or critical care medicine as a specialty.~~

~~II.B.3. Core faculty members must assist the program director in planning, implementing, monitoring, and evaluating fellows' clinical and research education.~~

~~II.B.3.a) At least one core faculty member must be knowledgeable in evaluation and assessment of the ACGME I Competencies and devote significant time to evaluating fellows, including through direct observation.~~

~~II.B.2. Clinical faculty members with certification and/or expertise in cardiology, gastroenterology, hematology, infectious disease, nephrology, and~~

102		oncology must regularly participate in the program.
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104	II.B.3.	Clinical faculty members from anesthesiology, cardiovascular surgery, emergency medicine, general surgery, neurological surgery, neurology, obstetrics and gynecology, orthopaedic surgery, thoracic surgery, urology, and vascular surgery must be available to participate in the program.
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109	<b>II.C.</b>	<b>Other Program Personnel</b>
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111	<del>II.C.2.</del>	<del>There must be services available from other health care professionals, including dietitians, language interpreters, nurses, occupational therapists, physical therapists, and social workers.</del>
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115	II.C.1.	Personnel must include nurses and technicians skilled in critical care instrumentation, respiratory function, and laboratory medicine.
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117		
118	<del>II.C.2.</del>	<del>There must be appropriate and timely consultation from other specialties.</del>
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120	<b>II.D.</b>	<b>Resources</b>
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122	II.D.1.	<del>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. <u>The following must be available at the primary clinical site:</u></del>
123		
124		
125		
126	II.D.1.a)	<u>timely bedside imaging services, including portable chest x-ray(CXR), bedside ultrasound, and echocardiogram</u> for patients in the critical care units; <u>and,</u>
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128		
129	II.D.1.b)	<u>computed tomography (CT) imaging, including CT angiography.</u>
130		
131	II.D.2.	Critical care unit(s) must be located in a designated area within the hospital and be constructed and designed specifically for the care of critically ill patients.
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135	II.D.2.a)	Whether operating in separate locations or as combined facilities, the program must provide the equivalent of a medical intensive care unit (MICU), a surgical intensive care unit (SICU), and a coronary intensive care unit (CICU).
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139		
140	II.D.2.a).(1)	The MICU or its equivalent must be at the primary clinical site.
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142	II.D.2.a).(2)	The MICU should be the focus of a teaching service.
143	II.D.2.b)	<del>A sufficient number of patients of each gender and a broad range of ages must be available to allow each fellow to achieve the required educational outcomes.</del> There must be an average daily census of at least five patients per fellow during assignments to critical care units.
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149	II.D.3.	There must be facilities to care for patients with acute myocardial infarction, severe trauma, shock, recent open-heart surgery, recent major
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151		thoracic or abdominal surgery, and severe neurologic and neurosurgical
152		conditions.
153		
154	II.D.4.	Laboratory and imaging services must be available <u>at the primary clinical</u>
155		<u>site or at participating sites</u> , including:
156		
157	II.D.4.a)	a bronchoscopy suite, to include appropriate space and
158		staffing for pulmonary procedures;
159		
160	II.D.4.b)	a pulmonary function testing laboratory;
161		
162	II.D.4.c)	timely bedside imaging services for patients in the critical care
163		units; and,
164		
165	II.D.4.d)	a supporting laboratory that provides complete and prompt
166		laboratory evaluation <u>that allows for reliable and timely return of</u>
167		<u>laboratory tests, computed tomography (CT) imaging, to include</u>
168		<u>CT angiography;</u>
169		
170	II.D.5.	Support services must be available, including:
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172	II.D.5.a)	an active emergency service;
173		
174	II.D.5.b)	an active open-heart surgery program;
175		
176	II.D.5.c)	<del>general surgical support;</del>
177		
178	II.D.6.c)	nutritional support services;
179		
180	II.D.6.d)	<del>otolaryngology service;</del>
181		
182	II.D.6.d)	pathology services, to include exfoliative cytology;
183		
184	II.D.6.e)	post-operative care and respiratory care services;
185		
186	II.D.6.f)	a thoracic surgery service; and,
187		
188	II.D.6.g)	<u>equipment, expertise, and personnel to provide both continuous</u>
189		<u>and intermittent renal replacement therapy in the critical care units.</u>
190		
191	II.D.7.d)	<del>The program must provide opportunities to manage adult patients</del>
192		<del>with a wide variety of serious illnesses and injuries requiring</del>
193		<del>treatment in a critical care setting.</del>
194	II.D.7.	Other services should be available <u>for consultation and the education of</u>
195		<u>fellows</u> , including anesthesiology, immunology, laboratory medicine,
196		microbiology, occupational medicine, otolaryngology, pathology, physical
197		medicine and rehabilitation, and radiology.
198		
199	<b>III.</b>	<b>Fellow Appointment</b>
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201	<b>III.D.</b>	<b>Eligibility Criteria</b>
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III.D.1. Prior to appointment in the program, fellows should have completed an ACGME-I-accredited residency program in internal medicine, or an internal medicine residency program acceptable to the Sponsoring Institution's Graduate Medical Education Committee.

### III.E. Number of Fellows

See International Foundational Requirements, Section III.B.

## IV. Specialty-Specific Educational Program

### IV.A. ACGME-I Competencies

IV.A.1. The program must integrate the following ACGME-I Competencies into the curriculum.

IV.A.1.a) Professionalism

IV.A.1.a).(1) Fellows must demonstrate a commitment to professionalism and an adherence to ethical principles.

IV.A.1.a).(1).(a) Fellows must demonstrate high standards of ethical behavior, including maintaining appropriate professional boundaries and relationships with other physicians and other health care team members, and avoiding conflicts of interest.

IV.A.1.b) Patient Care and Procedural Skills

IV.A.1.b).(1) Fellows must provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Fellows must demonstrate competence in managing the care of patients:

IV.A.1.b).(1).(a) in a variety of health care settings, including inpatient and ambulatory settings; 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

IV.A.1.b).(1).(b) using critical thinking and evidence-based tools;

IV.A.1.b).(1).(c) using population-based data; and,

IV.A.1.b).(1).(d) with whom they have limited or no physical contact, through the use of telemedicine.

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

251	IV.A.1.b).(2).(a)	acute lung injury, including radiation,
252		inhalation, and trauma;
253		
254	IV.A.1.b).(2).(b)	acute metabolic disturbances, including
255		overdosages and intoxication syndromes;
256		
257	IV.A.1.b).(2).(c)	anaphylaxis and acute allergic reactions in the
258		critical care unit;
259		
260	IV.A.1.b).(2).(d)	cardiovascular disease in the critical care unit;
261		
262	IV.A.1.b).(2).(e)	circulatory failure;
263		
264	IV.A.1.b).(2).(f)	detection and prevention of iatrogenic and
265		nosocomial problems in critical care medicine;
266		
267	IV.A.1.b).(2).(g)	diffuse interstitial lung disease;
268		
269	IV.A.1.b).(2).(h)	disorders of the pleura and the
270		mediastinum;
271		
272	IV.A.1.b).(2).(i)	end-of-life issues and palliative care;
273		
274	IV.A.1.b).(2).(j)	hypertensive emergencies;
275		
276	IV.A.1.b).(2).(k)	iatrogenic respiratory diseases, including drug-
277		induced disease;
278		
279	IV.A.1.b).(2).(l)	immunosuppressed conditions in the critical care unit;
280		
281	IV.A.1.b).(2).(m)	metabolic, nutritional, and endocrine effects of critical
282		illness, and hematologic and coagulation disorders
283		associated with critical illness;
284		
285	IV.A.1.b).(2).(n)	multi-organ system failure;
286		
287	IV.A.1.b).(2).(o)	obstructive lung diseases, including asthma,
288		bronchitis, emphysema, and bronchiectasis;
289		
290	IV.A.1.b).(2).(p)	occupational and environmental lung diseases;
291		
292	IV.A.1.b).(2).(q)	peri-operative critically ill patients, including
293		hemodynamic and ventilator support;
294	IV.A.1.b).(2).(r)	psychosocial and emotional effects of critical illness
295		on patients and <del>their</del> <u>patients'</u> families;
296		
297	IV.A.1.b).(2).(s)	pulmonary embolism and pulmonary embolic
298		disease;
299		
300	IV.A.1.b).(2).(t)	pulmonary infections, including tuberculous, fungal,
301		and infections in the immunocompromised host, such
302		as human immunodeficiency virus( <del>HIV</del> )-infection-

303		related infections;
304		
305	IV.A.1.b).(2).(u)	pulmonary malignancy, both primary and
306		metastatic;
307		
308	IV.A.1.b).(2).(v)	pulmonary manifestations of systemic diseases,
309		including collagen vascular disease and diseases
310		that are primary in other organs;
311		
312	IV.A.1.b).(2).(w)	pulmonary vascular disease, including <del>primary-</del>
313		<del>and secondary</del> pulmonary hypertension and the
314		vasculitis and pulmonary hemorrhage
315		syndromes;
316		
317	IV.A.1.b).(2).(x)	renal disorders in the critical care unit, including
318		electrolyte and acid-base disturbance and
319		acute renal failure;
320		
321	IV.A.1.b).(2).(y)	respiratory failure, including the acute respiratory
322		distress syndrome, acute and chronic respiratory
323		failure in obstructive lung diseases, and
324		neuromuscular respiratory drive disorders;
325		
326	IV.A.1.b).(2).(z)	sepsis and <del>sepsis syndrome</del> <u>septic shock</u> ;
327		
328	IV.A.1.b).(2).(aa)	severe organ dysfunction resulting in critical illness,
329		including disorders of the gastrointestinal, neurologic,
330		endocrine, hematologic, musculoskeletal, and
331		immune systems, as well as infections and
332		malignancies;
333		
334	IV.A.1.b).(2).(bb)	shock syndromes; and,
335		
336	IV.A.1.b).(2).(cc)	sleep-disordered breathing.
337		
338	IV.A.1.b).(3)	Fellows must be able to perform all medical, diagnostic,
339		and surgical procedures considered essential to the
340		subspecialty, <u>including</u> <del>Fellows must demonstrate</del>
341		<del>competence in:</del>
342		
343	IV.A.1.b).(3).(a)	<u>procedural and technical skills, including performing</u>
344		<u>diagnostic and therapeutic procedures relevant to their</u>
345		<u>individual specific planned career path, to include:</u>
346	IV.A.1.b).(3).(a).(i)	airway management;
347	IV.A.1.b).(3).(a).(ii)	diagnostic and therapeutic procedures,
348		to include paracentesis, lumbar
349		puncture, thoracentesis, endotracheal
350		intubation, and related procedures;
351		
352	IV.A.1.b).(3).(a).(iii)	emergency cardioversion;
353		



354	IV.A.1.b).(3).(a).(iv)	flexible fiber-optic bronchoscopy
355		procedures, including those <del>where</del> <u>in which</u>
356		endobronchial and transbronchial biopsies,
357		and transbronchial needle aspiration are
358		performed;
359		
360	<del>IV.A.1.b).(2).(a).(iv).(a)</del>	<del>Each fellow must perform a</del>
361		<del>minimum of 100 such procedures.</del>
362		
363	IV.A.1.b).(3).(a).(v)	insertion of arterial, central venous, and
364		pulmonary balloon flotation catheters;
365		
366	IV.A.1.b).(3).(a).(vi)	operation of bedside hemodynamic
367		monitoring systems;
368		
369	IV.A.1.b).(3).(a).(vii)	<del>use</del> <u>placement and management</u> of
370		chest tubes and drainage systems;
371		
372	IV.A.1.b).(3).(a).(viii)	<u>those skills essential to critical care</u>
373		<u>ultrasound, including image acquisition,</u>
374		<u>image interpretation at the point of care, and</u>
375		<u>use of ultrasound to place intravascular and</u>
376		<u>intracavitary tubes and catheters;</u> <del>use of</del>
377		<del>ultrasound techniques to perform-</del>
378		<del>thoracentesis and place intravascular and-</del>
379		<del>intracavitary tubes and catheters</del>
380	IV.A.1.b).(3).(a).(ix)	<del>the</del> use of a variety of positive pressure
381		ventilator modes, including:
382		
383	IV.A.1.b).(3).(a).(ix).(a)	initiation and maintenance of
384		ventilator support;
385		
386	IV.A.1.b).(3).(a).(ix).(b)	respiratory care techniques; and,
387		
388	IV.A.1.b).(3).(a).(ix).(c)	withdrawal of mechanical ventilator
389		support.
390		
391	IV.A.1.b).(3).(a).(x)	<del>the</del> use of reservoir masks and
392		continuous positive airway pressure
393		masks for delivery of supplemental
394		oxygen, humidifiers, nebulizers, and
395		incentive spirometry.
396		
397	IV.A.1.b).(3).(b)	<u>treating their patients' conditions with practices that are</u>
398		<u>patient-centered, safe, scientifically based, effective,</u>
399		<u>timely, and cost-effective, to include use of:</u>
400	IV.A.1.b).(3).(b).(i)	nutritional support;
401	IV.A.1.b).(3).(b).(ii)	paralytic agents and sedative and analgesic
402		drugs in the critical care unit; and,

403	IV.A.1.b).(3).(b).(iii)	transcutaneous pacemakers.
404	IV.A.1.b).(3).(c)	<u>using diagnostic and/or imaging studies relevant</u>
405		<u>to the care of the patient, to include:</u>
406	IV.A.1.b).(3).(c).(i)	interpreting data derived from various bedside
407		devices commonly employed to monitor
408		patients, and from laboratory studies related
409		to sputum, bronchopulmonary secretions,
410		pleural fluid;
411	IV.A.1.b).(3).(c).(ii)	interpretation of intracranial pressure
412		monitoring; and,
413	IV.A.1.b).(3).(c).(iii)	pulmonary function tests to assess respiratory
414		mechanics and gas exchange, including
415		spirometry, flow volume studies, lung
416		volumes, diffusing capacity, arterial blood gas
417		analysis, exercise studies, and interpretation
418		of the results of bronchoprovocation testing
419		using methacholine or histamine.
420		
421	IV.A.1.c)	Medical Knowledge
422		
423	IV.A.1.c).(1)	Fellows must demonstrate knowledge of established and
424		evolving biomedical clinical, epidemiological, and social-
425		behavioral sciences, as well as the application of this
426		knowledge to patient care. Fellows must demonstrate
427		knowledge of:
428		
429	IV.A.1.c).(1).(a)	the scientific method of problem solving and
430		evidence-based decision-making;
431		
432	IV.A.1.c).(1).(b)	the indications, contraindications, and
433		complications of placement of:
434	IV.A.1.c).(1).(b).(i)	<u>arterial, central venous, and</u>
435		<u>pulmonary artery balloon flotation</u>
436		<u>catheters; and</u>
437		
438	IV.A.1.c).(1).(b).(ii)	percutaneous tracheostomies,
439	IV.A.1.c).(1).(c)	basic sciences, with particular emphasis on:
440	IV.A.1.c).(1).(c).(i)	developmental biology;
441	IV.A.1.c).(1).(c).(ii)	genetics and molecular biology as they relate
442		to pulmonary diseases; and,
443		
444	IV.A.1.c).(1).(c).(iii)	pulmonary physiology, to include cell and molecular
445		biology and immunology, as they relate to pulmonary
446		disease.

447	IV.A.1.c).(1).(d)	<u>biochemistry and physiology, including cell and</u>
448		<u>molecular biology and immunology, as they relate to</u>
449		<u>pulmonary disease;</u>
450		
451	IV.A.1.c).(1).(e)	ethical, economic, and legal aspects of critical
452		illness;
453	IV.A.1.c).(1).(f)	imaging techniques commonly employed in the evaluation of
454		patients with pulmonary disease or critical illness, including the
455		<u>use of ultrasound technical and procedural use of ultrasound</u>
456		<u>and interpretation of ultrasound images at the point of care for</u>
457		<u>medical decision-making;</u>
458	IV.A.1.c).(1).(g)	indications, complications, and outcomes of lung
459		transplantation;
460	IV.A.1.c).(1).(h)	monitoring and supervising special services,
461		including:
462	IV.A.1.c).(1).(h).(i)	proficiency standards;
463		
464	IV.A.1.c).(1).(h).(ii)	pulmonary function laboratories, to include
465		quality control, quality assurance;
466		respiratory care techniques and service;.
467		and,
468		
469	IV.A.1.c).(1).(h).(iii)	respiratory care units.
470	IV.A.1.c).(1).(i)	percutaneous needle biopsies;
471		
472	IV.A.1.c).(1).(j)	pericardiocentesis;
473		
474	IV.A.1.c).(1).(k)	pharmacokinetics, pharmacodynamics, and drug
475		metabolism and excretion in critical illness renal
476		replacement therapy;
477		
478	IV.A.1.c).(1).(l)	principles and techniques of administration and
479		management of a MICU
480		
481	IV.A.1.c).(1).(m)	recognition and management of the critically ill
482		from disasters, including those caused by
483		chemical and biological agents; and,
484		
485	IV.A.1.c).(1).(n)	the psychosocial and emotional effects of critical
486		illness on patients and <del>their</del> <u>patients'</u> families
487	IV.A.1.c).(2)	<u>Fellows must demonstrate sufficient knowledge specific to</u>
488		<u>the subspecialty of pulmonary disease and critical care</u>
489		<u>medicine, including application of technology appropriate</u>
490		<u>for the clinical context, to include evolving technologies.</u>
491	IV.A.1.c).(2).(c)	<del>indications, contraindications, limitations,</del>
492		<del>complications, techniques, and interpretation of results</del>

of those diagnostic and therapeutic procedures integral to the discipline, including the appropriate indication for and use of screening tests/procedures, including:

IV.A.1.d) Practice-Based Learning and Improvement

IV.A.1.d).(1) Fellows must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning.

~~IV.A.1.d).(1).(a) Fellows must obtain procedure-specific informed consent by competently educating patients about the rationale, techniques, and complications of procedures.~~

IV.A.1.e) Interpersonal and Communication Skills

IV.A.1.e).(1) Fellows must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, patients' families, and health professionals.

IV.A.1.f) Systems-Based Practice

IV.A.1.f).(1) Fellows must demonstrate an awareness of and responsiveness to the larger context and system of health care, including the social determinates of health, as well as the ability to call effectively on other resources in the system to produce optimal care.

**IV.B. Regularly Scheduled Educational Activities**

IV.B.1. ~~The core curriculum~~educational program must include a didactic program instruction based on the core knowledge content in pulmonary disease and critical care medicine.

IV.B.1.b) The program must ensure that ~~afford each~~ fellows have an opportunity to review topics all knowledge content ~~covered in~~ from conferences that ~~the fellow was unable to~~ they could not attend.

IV.B.2 Fellows must receive instruction in practice management relevant to pulmonary disease and critical care medicine.

~~IV.B.4. Fellows must participate in clinical case conferences, journal clubs, research conferences, and morbidity and mortality or quality improvement conferences.~~

**IV.C. Clinical Experiences**

IV.C.1. Assignment of rotations must be structured to minimize the frequency of

542		<u>rotational transitions, and rotations must be of sufficient length to provide a</u>
543		<u>quality educational experience, defined by continuity of patient care, ongoing</u>
544		<u>supervision, longitudinal relationships with faculty members, and meaningful</u>
545		<u>assessment and feedback.</u>
546	IV.C.2.	<u>Rotations must be structured to allow fellows to function as a part of an</u>
547		<u>effective interprofessional team that works together toward the shared goals</u>
548		<u>of patient safety and quality improvement.</u>
549	IV.C.3.	<u>Rotations must be structured to minimize conflicting inpatient</u>
550		<u>responsibilities.</u>
551	IV.C.4.	<u>The program must provide opportunities for fellows to manage adult</u>
552		<u>patients with a wide variety of serious illnesses and injuries requiring</u>
553		<u>treatment in a critical care setting.</u>
554		
555	IV.C.5.	Fellows must have at least 18 months of clinical experience, including:
556		
557	IV.C.5.a)	at least nine months of patient care responsibility for inpatients
558		and outpatients with a wide variety of pulmonary diseases, with an
559		educational emphasis on pulmonary physiology and its correlation
560		with clinical disorders;
561		
562	IV.C.5.b)	at least nine months in critical care medicine, of which at least six
563		months must be devoted to the care of critically ill medical patients
564		(MICU/CICU or equivalent); and,
565		
566	IV.C.5.c)	at least three months devoted to the care of critically ill non-
567		medical patients (SICU, burn unit, transplant unit, neurointensive
568		care unit, or equivalent).
569	IV.C.5.c).(1)	This experience should consist of at least one month of
570		direct patient care activity, with the remainder being fulfilled
571		<del>with</del> <u>by</u> either consultative activities or with direct care of
572		such patients.
573		
574	IV.C.6.	Programs that are 36 months in length must have no more than 15 months
575		of required intensive care unit experiences.
576		
577	IV.C.7.	Programs that are 48 months in length must have no more than 20 months
578		of required intensive care unit experiences.
579		
580	IV.C.8.	Fellows must have experience in the role of a pulmonary disease
581		consultant in both the inpatient and outpatient settings and as a critical
582		care medicine consultant in the inpatient setting.
583		
584	IV.C.9.	Fellow experiences must include:
585		
586	IV.C.9.a)	continuing responsibility for both acutely and chronically ill
587		pulmonary patients to learn both the natural history of pulmonary
588		disease and the effectiveness of therapeutic programs;
589		
590	IV.C.9.b)	managing adult patients with a wide variety of serious illnesses

591		and injuries requiring treatment in a critical care setting;
592		
593	IV.C.9.c)	clinical experience in examination and interpretation of lung tissue
594		for infectious agents, cytology, and histopathology; and,
595		
596	IV.C.9.d)	clinical experience in patient evaluation and management,
597		including for patients:
598		
599	IV.C.9.d).(1)	after discharge from the critical care unit;
600		
601	IV.C.9.d).(2)	undergoing pulmonary rehabilitation;
602		
603	IV.C.9.d).(3)	with critical obstetric and gynecologic disorders;
604		
605	IV.C.9.d).(4)	with genetic and developmental disorders of the respiratory
606		system, to include cystic fibrosis;
607		
608	IV.C.9.d).(5)	with neurosurgical emergencies; and,
609		
610	IV.C.9.d).(6)	with trauma.
611		
612	IV.C.10.	Fellows <u>must have</u> clinical experience <del>should include the</del> <u>in managing</u>
613		<u>patients with placement of percutaneous tracheostomies, including their</u>
614		<u>specific complications.</u>
615	IV.C.11.	<u>The program must provide educational experiences that allow fellows to</u>
616		<u>interact with and learn from other health care professionals.</u>
617	IV.C.12.	<u>The educational program must provide fellows with elective experiences</u>
618		<u>relevant to their future practice or to further skill/competence development.</u>
619	IV.C.13.	Fellows must participate in training using simulation.
620		
621	IV.C.14.	Fellows should have a structured continuity ambulatory clinic experience
622		<u>for the duration of the program</u> that exposes them to the breadth and
623		depth of pulmonary critical care medicine.
624	<del>IV.C.14.a)</del>	<del>This should include an appropriate distribution of patients of each</del>
625		<del>gender and a diversity of ages.</del>
626		
627	IV.C.14.a)	This experience should average one half-day each week
628		throughout the educational program.
629		
630	IV.C.14.a).(1)	Up to six months may be exempted from ambulatory
631		experiences during MICU rotations, other time-intensive
632		rotations, or vacation.
633		
634	<del>IV.C.14.a).(2)</del>	<del>Each fellow should be responsible, on average, for four to</del>
635		<del>eight patients during each half-day session.</del>
636		
637	IV.C.15.	Fellows should be informed of the status of their continuity
638		patients when such patients are hospitalized, as clinically
639		appropriate.

640		
641	<b>IV.D.</b>	<b>Scholarly Activity</b>
642		
643	IV.D.1.	Fellows' Scholarly Activity
644	IV.D.1.a)	<u>While in the program, each fellow must complete at least one of the</u>
645		<u>following scholarly activities: participation in grand rounds; poster</u>
646		<u>presentations; workshops; quality improvement presentations;</u>
647		<u>podium presentations; grant leadership; non-peer-reviewed</u>
648		<u>print/electronic resources; articles or publications; book chapters;</u>
649		<u>textbooks; webinars; service on professional committees; or service</u>
650		<u>as a journal reviewer, journal editorial board member, or editor.</u>
651		
652	IV.D.2.	Faculty Scholarly Activity
653		See International Foundational Requirements, Section V.
654		
655	<b>V.</b>	<b>Evaluation</b>
656		
657		See International Foundational Requirements, Section V.
658		
659	<b>VI.</b>	<b>The Learning and Working Environment</b>
660		
661	<b>VI.A.</b>	<b>Principles</b>
662		
663		See International Foundational Requirements, Section VI.A.
664		
665	<b>VI.B.</b>	<b>Patient Safety</b>
666		
667		See International Foundational Requirements, Section VI.B.
668		
669	<b>VI.C.</b>	<b>Quality Improvement</b>
670		
671		See International Foundational Requirements, Section VI.C.
672		
673	<b>VI.D.</b>	<b>Supervision and Accountability</b>
674	VI.D.1.	Direct supervision of procedures performed by each fellow must occur until
675		competence has been acquired and documented by the program director.
676		
677	<b>VI.E.</b>	<b>Professionalism</b>
678		
679		See International Foundational Requirements, Section VI.E.
680		
681	<b>VI.F.</b>	<b>Well-Being</b>
682		
683		See International Foundational Requirements, Section VI.F.
684		
685	<b>VI.G.</b>	<b>Fatigue</b>
686		
687		See International Foundational Requirements, Section VI.G.
688		
689	<b>VI.H.</b>	<b>Transitions of Care</b>

690		
691		See International Foundational Requirements, Section VI.H.
692		
693	<b>VI.I.</b>	<b>Clinical Experience and Education</b>
694		
695		See International Foundational Requirements, Section VI.I.
696		
697	<b>VI.J.</b>	<b>On-Call Activities</b>
698		
699		See International Foundational Requirements, Section VI.J.