**New Application:** **Respiratory Medicine (Internal Medicine)**

401 North Michigan Avenue · Chicago, Illinois 60611 · United States · +1.312.755.7042 www.acgme-i.org

**Submission for Initial Accreditation:** This Advanced Specialty Application is for programs applying for **Initial Accreditation ONLY** and is used in conjunction with the Accreditation Data System (ADS).

All sections of the form applicable to the program must be completed for the application to be accepted for review. The information provided should describe the existing program. For items that do not apply, indicate “N/A” in the space provided. Where patient numbers are requested, provide exact numbers as requested and indicate the exact dates for the data entered. If any requested information is unavailable, an explanation must be given, and it should be also indicated as unavailable in the appropriate place on the form. Once the form is complete, number the pages sequentially in the bottom center.

The program director is responsible for the accuracy of the information supplied in this form, and must sign it. It must also be signed by the designated institutional official (DIO) of the Sponsoring Institution, who will submit the application electronically in ADS.

Review the International Foundational Program Requirements for Graduate Medical Education and Advanced Specialty Program Requirements for Graduate Medical Education in Respiratory Medicine. The International Foundational, Advanced Specialty, and Institutional Requirements may be downloaded from the ACGME International website: [www.acgme-i.org](http://www.acgme-i.org/).

Email questions regarding the form’s content to acgme-i@acgme-i.org.

Email questions regarding ADS to ADS@acgme.org (type the program number in the subject line).

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| Program Name: Click here to enter text. |

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**Introduction**

**Duration and Scope of Education**

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| * + - 1. What will be the length, in months, of the educational program?

Choose a length. |

**Institutions**

**Sponsoring Institution**

1. Will the fellowship function as an integral part of an ACGME-I-accredited residency in internal medicine? [ ] YES [ ] NO

Explain if ‘NO.’ For information on independent subspecialty status, email acgme-i@acgme-i.org (Limit 250 words)

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**Program Personnel and Resources**

**Faculty**

1. Will faculty members:
2. teach fellows in the performance and interpretation of procedures? [ ] YES [ ] NO
3. supervise fellows in the performance and interpretation of procedures? [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will the performance and interpretation of procedures be documented in each fellow’s record, including indications, outcomes, diagnoses, and supervising faculty member(s)? [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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**Resources**

1. Will the following facilities and services be available to the program?
2. A bronchoscopy suite that includes appropriate space and staff for pulmonary procedures

 [ ] YES [ ] NO

1. A pulmonary function testing laboratory [ ] YES [ ] NO
2. Critical care [ ] YES [ ] NO
3. Post-operative care [ ] YES [ ] NO
4. Respiratory care [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will the following laboratory and imaging services be present at the primary clinical site?
2. A supporting laboratory that provides complete and prompt laboratory evaluation [ ] YES [ ] NO
3. Bedside imaging for patients in critical care [ ] YES [ ] NO
4. Computed tomography (CT) imaging [ ] YES [ ] NO
5. CT angiography [ ] YES [ ] NO
6. Magnetic resonance imaging (MRI) [ ] YES [ ] NO
7. Nuclear medicine imaging [ ] YES [ ] NO
8. Positron emission tomography (PET) scan imaging [ ] YES [ ] NO
9. Ultrasonography [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will the following patient services be available to the program?
2. A laboratory for sleep-related breathing disorders [ ] YES [ ] NO
3. Anesthesiology [ ] YES [ ] NO
4. Immunology [ ] YES [ ] NO
5. Laboratory medicine [ ] YES [ ] NO
6. Microbiology [ ] YES [ ] NO
7. Occupational medicine [ ] YES [ ] NO
8. Otolaryngology [ ] YES [ ] NO
9. Pathology, including exfoliate cytology [ ] YES [ ] NO
10. Physical medicine and rehabilitation [ ] YES [ ] NO
11. Radiology [ ] YES [ ] NO
12. Thoracic surgery [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will there be an average daily census of at least five patients per fellow during assignments to critical care units? [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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**Eligibility Criteria**

1. How will the program ensure all fellows have completed an ACGME-I-accredited internal medicine residency program or another internal medicine residency program acceptable to the Sponsoring Institution’s Graduate Medical Education Committee? (Limit 250 words)

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**Specialty-Specific Educational Program**

**ACGME-I Competencies**

**Professionalism**

1. How will graduating fellows demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles?

Describe how these skills will be evaluated. (Limit 300 words)

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**Patient Care and Procedural Skills**

1. How will graduating fellows demonstrate the ability to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in the practice of health promotion, disease prevention, diagnosis, care, and treatment of patients of all genders, from adolescence to old age, during health and all stages of illness?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in prevention, evaluation, and management of patients with the following?

Acute lung injury, including inhalation and trauma

Circulatory failure

Diffuse interstitial lung disease

Disorders of the pleura and the mediastinum

Iatrogenic respiratory diseases, including drug-induced disease

Obstructive lung diseases, including asthma, bronchiectasis, bronchitis, and emphysema

Occupational and environmental lung diseases

Pulmonary embolism and pulmonary embolic disease

Provide examples of how competence will be assessed in five of the eight areas listed. (Limit 500 words)

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1. How will graduating fellows demonstrate competence in prevention, evaluation, and management of patients with pulmonary infections, including tuberculous, fungal infections, atypical mycobacterial infections, and those infections in the immunocompromised host (e.g., human immunodeficiency virus (HIV)-related infections)?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in prevention, evaluation, and management of patients with the following?
	* + - 1. Primary and metastatic pulmonary malignancy
				2. Pulmonary manifestations of systemic disease, including collagen vascular disease and diseases that are primary in other organs
				3. Pulmonary vascular disease, including primary and secondary pulmonary hypertension and vasculitis and pulmonary hemorrhage syndromes
				4. Respiratory failure, including acute respiratory distress syndrome, acute and chronic respiratory failure in obstructive lung diseases, and neuromuscular respiratory drive disorders
				5. Sarcoidosis
				6. Sleep-disordered breathing

Provide examples of how competence will be assessed in four of the six areas listed. (Limit 400 words)

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1. How will graduating fellows demonstrate competence in interpreting data from various bedside devices commonly employed to monitor patients, as well as data from laboratory studies related to sputum, bronchopulmonary secretions, and pleural fluid?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in procedural and technical skills, including the following?
2. Airway management
3. Diagnostic and therapeutic procedures, to include thoracentesis, endotracheal intubation, and related procedures
4. Emergency cardioversion
5. Flexible fiber-optic bronchoscopy procedures, to include those with endobronchial and transbronchial biopsies and transbronchial needle aspiration
6. Insertion of arterial and central venous catheters
7. Operation of bedside hemodynamic monitoring systems

Provide examples of how competence will be assessed in four of the six areas listed. (Limit 400 words)

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1. How will graduating fellows demonstrate competence in participating in a multidisciplinary team approach in the management of pulmonary malignancies and complicated asthma?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in procedural and technical skills related to pulmonary function tests, including spirometry, flow volume studies, lung volume, diffusing capacity, arterial blood gas analysis, exercise studies, and interpretation of the results of bronchoprovocation testing using methacholine or histamine?

Describe how this will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in the use of a variety of positive ventilator modes, including the following?
2. Initiation and maintenance of ventilator support
3. Respiratory care techniques
4. Withdrawal of mechanical ventilator support

Describe how each of the above will be evaluated. (Limit 300 words)

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1. How will graduating fellows demonstrate competence in use of the following?
2. Chest tubes and drainage systems
3. Humidifiers
4. Incentive spirometry
5. Nebulizers
6. Reservoir masks and continuous positive airway pressure masks for delivery of supplemental oxygen
7. Ultrasound techniques to perform thoracentesis and place intravascular and intracavitary tubes and catheters

Provide examples of how competence will be assessed in four of the six areas listed. (Limit 400 words)

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**Medical Knowledge**

1. How will graduating fellows demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care?

Describe how knowledge will be evaluated? (Limit 400 words)

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1. How will graduating fellows demonstrate knowledge of the scientific method of problem solving and evidence-based decision-making? (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of indications, contraindications, and techniques for, and limitations, complications, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline, including the appropriate indications for and use of screening tests and procedures? (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of imaging techniques commonly employed in the evaluation of patients with respiratory disease or critical illness, including use of the following?
	1. PET scan changes for assessing pulmonary neoplasms
	2. Radiography and CT of the chest
	3. Ultrasound

Describe how knowledge will be assessed in each of the areas listed. (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of basic sciences, including the following?
	1. Biochemistry and physiology, including cell and molecular biology and immunology as they relate to respiratory medicine
	2. Developmental biology
	3. Genetics and molecular biology as they relate to respiratory medicine
	4. Pulmonary physiology and pathophysiology in systemic disease

Provide examples of how knowledge will be assessed in three of the four areas listed. (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of the following?
	1. Indications, complications, and outcomes of lung transplantation
	2. Insertion of pulmonary artery balloon flotation catheters
	3. Recognition and management of patients critically ill from disasters, including those disasters caused by chemical and biological agents
	4. The ethical, economic, and legal aspects of critical illness
	5. The psychosocial and emotional effects of critical illness on patients and their families

Provide examples of how knowledge will be assessed in three of the five areas listed. (Limit 300 words)

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**Practice-based Learning and Improvement**

* + - 1. How will graduating fellows demonstrate their 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?

Describe how these skills will be evaluated. (Limit 300 words)

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**Interpersonal and Communication Skills**

1. How will graduating fellows demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals?

Describe how these skills will be evaluated. (Limit 300 words)

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**Systems-based Practice**

1. How will graduating fellows 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?

Describe how these skills will be evaluated. (Limit 300 words)

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**Regularly Scheduled Educational Activities**

1. Complete Appendix A., Formal Didactic Sessions by Academic Year, and attach to submission.
2. Will fellows have didactic experiences that enable them to monitor and supervise the following?
	* + - 1. Pulmonary function laboratories, including quality control, quality assurance, and competence standards [ ] YES [ ] NO
				2. Respiratory care techniques and services [ ] YES [ ] NO
				3. Respiratory care units [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will fellows have experiences that enable them to acquire knowledge in the evaluation and management of patients with genetic and developmental disorders of the respiratory system? [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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**Clinical Experiences**

* + - 1. How will the program ensure each fellow has a minimum of 12 months devoted to clinical experiences during the educational program? (Limit 300 words)

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* + - 1. Will each fellow’s schedule include the following?
				1. At least nine months in non-critical care respiratory medicine? [ ] YES [ ] NO
				2. At least three months in a medical intensive care unit? [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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* + - 1. How will the program ensure all fellows have opportunities to assume continuing responsibility for both acutely and chronically ill patients in order to learn both the natural history of respiratory medicine and the effectiveness of therapeutic programs? (Limit 350 words)

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1. Will fellows have clinical experience in the following?
2. Examining and recognizing the histologic changes of lung tissue [ ] YES [ ] NO
3. Identifying infectious agents [ ] YES [ ] NO
4. Pulmonary cytologic changes [ ] YES [ ] NO
5. Tobacco prevention and cessation counseling [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. How will the program ensure each fellow performs a minimum of 100 flexible fiber-optic bronchoscopy procedures, including those with endobronchial and transbronchial biopsies and transbronchial needle aspiration? (Limit 350 words)

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1. Will fellows:
	* + - 1. have clinical experiences in central line placement? [ ] YES [ ] NO
				2. have clinical experiences in the role of respiratory medicine consultant in the ambulatory setting?

 [ ] YES [ ] NO

* + - * 1. have clinical experiences in the role of respiratory medicine consultant in the inpatient setting?

 [ ] YES [ ] NO

* + - * 1. participate in training using simulation? [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 250 words)

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1. Will fellows have a structured continuity ambulatory clinic experience that exposes them to the breadth and depth of respiratory medicine (pulmonary disease)? [ ] YES [ ] NO
2. Will the experience described in Question 7 above include an appropriate distribution of patients of all genders and a diversity of ages? [ ] YES [ ] NO
3. Will fellows have an average of one half-day a week in the ambulatory clinic throughout the educational program? [ ] YES [ ] NO

Explain any ‘NO’ responses to Questions 7 to9 above . (Limit 250 words)

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1. How will the program ensure that each fellow, on average, is responsible for four to eight patients during each half-day ambulatory clinic session and, on average, no more than eight to 12 patients during each half-day ambulatory clinic session? (Limit 300 words)

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1. Will fellows’ continuing patient care experience be interrupted by more than one month, excluding vacation? [ ] YES [ ] NO

Explain if ‘YES.’ (Limit 250 words)

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**The Learning and Working Environment**

**Duty Hour and Work Limitations**

How will the program ensure direct supervision of procedures performed by each fellow occurs until competence has been acquired and documented by the program director? (Limit 300 words)

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**Appendix A. Formal Didactic Sessions by Academic Year**

For each year of the fellowship, attach (Label: Appendix A.) a list of all scheduled didactic courses (including discussion groups, seminars and conferences, grand rounds, basic science, skills labs, and journal club) at all participating sites to which fellows will rotate, using the format below. If attended by fellows from multiple years, list in each year but provide a full description *only the first time a site is listed*.

Number sessions **consecutively** from the first year through the final year so that the scheduled didactic sessions can be easily referenced throughout the application. **Be brief and use the outline that follows**.

Year in the Program:

Number: Title:

a) Type of Format (e.g., seminar, conference, discussion groups)

b) Required or elective

c) Brief description (three or four sentences)

d) Frequency, length of session, and total number of sessions

**Example:**

|  |
| --- |
| Y-101. Introduction to Respiratory Medicinea) Seminarb) Required Y-1c) Survey of contemporary methods and styles of care in respiratory medicine, including approaches to clinical work with minority populationsd) Weekly, for 8 sessions02. Departmental Grand Roundsa) Discussion groupsb) Required, Y-1, Y-2, Y-3; Elective c) Clinical case presentations, sponsored by each departmental division, followed by discussion and review of contemporary state of knowledge. Format includes fellow presentations and discussions with additional faculty discussant.d) Twice monthly, 24 sessions |

If fellow attendance will be monitored, explain how this will be accomplished and how feedback will be given regarding non-attendance. (Limit 250 words)

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