**Continued Accreditation Application: Cardiovascular Disease (Internal Medicine)**

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

**Submission for Continued Accreditation:** This Advanced Specialty Application is for programs applying for **Continued 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 it 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 also be 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 Cardiovascular Disease. 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 an item.**Institution****Sponsoring Institution** |

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

Explain if ‘NO.’ (Limit 250 words)

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**Program Personnel and Resources**

**Faculty**

* + - 1. Do faculty members teach and supervise fellows in the performance and interpretation of procedures? [ ] YES [ ] NO
			2. If ‘YES’ to Question 2 above, is this documented in each fellow’s record? [ ] YES [ ] NO

Explain any ‘NO’ responses to Questions 2 and 3 above. (Limit 250 words)

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* + - 1. If ‘YES’ to Question 2 above, does each fellow’s record document indications, outcomes, diagnoses, and supervisor(s)? [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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**Other Program Personnel**

* + - 1. Do fellows have regular interaction with the following?
1. Cardiac surgeons [ ] YES [ ] NO
2. Electrophysiologists [ ] YES [ ] NO
	1. Do the interactions in Question 1 occur at catheterization conferences and in patient care planning?

 [ ] YES [ ] NO

Explain any ‘NO’ responses to Questions 1 and 2. (Limit 250 words)

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**Resources**

1. Are the following resources available at the primary clinical site?
	* + - 1. Ambulatory ECG [ ] YES [ ] NO
				2. Cardiac catheterization laboratories, including cardiac hemodynamics and a full range if interventional cardiology [ ] YES [ ] NO
				3. Cardiac intensive care unit [ ] YES [ ] NO
				4. Cardiac radiology laboratory, including magnetic resonance imaging (MRI) and computed tomography (CT) [ ] YES [ ] NO
				5. Cardiac radionuclide laboratories [ ] YES [ ] NO
				6. Electrocardiogram (ECG) laboratories [ ] YES [ ] NO
				7. Echocardiography laboratories, including Doppler and transesophageal echocardiography [ ] YES [ ] NO
				8. Electrophysiology laboratories [ ] YES [ ] NO
				9. Exercise testing laboratories [ ] YES [ ] NO
				10. Non-invasive vascular laboratory [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 300 words)

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**Fellow Appointment**

**Eligibility Criteria**

1. How does the program ensure that, prior to appointment, fellows have completed an ACGME-I-accredited internal medicine program or another internal medicine 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 do graduating fellows demonstrate a commitment to fulfilling their professional responsibilities and adhering to ethical principles?

Describe how this is evaluated. (Limit 300 words)

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**Patient Care and Procedural Skills**

1. How do 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 competence is evaluated. (Limit 300 words)

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

Describe how competence is evaluated. (Limit 300 words)

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1. How do graduating fellows demonstrate competence in the prevention, evaluation, and management of the following?
2. Arrhythmias
3. Acute myocardial infarction and other acute ischemic syndromes
4. Cardiomyopathy
5. Cardiovascular evaluation of patients undergoing non-cardiac surgery
6. Congestive heart failure
7. Coronary heart disease, including acute coronary syndromes and chronic coronary heart disease
8. Diseases of the aorta
9. Heart disease in pregnancy

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

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1. How do graduating fellows demonstrate competence in the prevention, evaluation, and management of the following?
2. Hypertension
3. Infectious and inflammatory heart disease
4. Lipid disorders and metabolic syndrome
5. Need for end-of-life (palliative) care
6. Peripheral vascular disease
7. Pericardial disease
8. Pulmonary hypertension
9. Thromboembolic disorders
10. Valvular heart disease

Provide examples of how competence is assessed in five of the nine areas listed. (Limit 500 words)

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1. How do graduating fellows demonstrate competence in the following?
2. Direct cardioversion or defibrillation
3. Echocardiography
4. Exercise stress testing (ECG tests)
5. Right and left heart catheterization, including coronary arterioigraphy
6. Placement and management of temporary pacemakers, including transvenous and transcutaneous
7. Programming and follow-up surveillance of permanent pacemakers and implantable cardioverter defibrillators (ICDs)

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

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1. How do graduating fellows demonstrate competence in interpretation of the following?
2. Ambulatory ECG recordings
3. Chest x-rays
4. Electrocardiograms
5. Nuclear cardiology, including single-photon emission computerized tomography (SPECT) myocardial perfusion imaging and ventriculograms

Provide examples of how competence is assessed in three of the four areas listed. (Limit 300 words)

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**Medical Knowledge**

* + - 1. How do 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 is evaluated. (Limit 400 words)

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1. How do 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 do graduating fellows demonstrate knowledge of the therapeutic procedures integral to the discipline, including the following?
2. Indications
3. Contraindications
4. Techniques
5. Limitations
6. Complications
7. Interpretation of results
8. The appropriate indications for and use of screening tests and procedures

Provide examples of how knowledge is assessed in four of the seven areas listed. (Limit 400 words)

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1. How do graduating fellows demonstrate knowledge of the content areas of basic science, including cardiovascular:
2. anatomy;
3. genetic causes of cardiovascular disease;
4. metabolism;
5. molecular biology
6. physiology; and,
7. pathology?

Provide examples of how knowledge is assessed in four of the six areas listed. (Limit 400 words)

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1. How do graduating fellows demonstrate knowledge of cardiovascular pharmacology, including drug metabolism, adverse effects, indication, the effects on aging, relative costs of therapy, and the effects of non-cardiovascular drugs on cardiovascular function?

Describe how knowledge is assessed. (Limit 400 words)

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1. How do graduating fellows demonstrate knowledge of primary and secondary prevention of cardiovascular disease, including the following?
2. Biostatistics
3. Cardiac rehabilitation
4. Cerebrovascular disease
5. Clinical epidemiology
6. Current and emerging risk factors

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

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1. How do graduating fellows demonstrate knowledge of evaluation and management of patients with the following?
2. Adult congenital heart disease
3. Cardiac trauma
4. Cardiac tumors
5. Cerebrovascular disease
6. Geriatric cardiology

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

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**Practice-based Learning and Improvement**

1. How do 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 this is evaluated. (Limit 300 words)

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**Interpersonal and Communication Skills**

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

Describe how this is evaluated. (Limit 300 words)

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**Systems-based Practice**

1. How do 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 this is 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.

**Clinical Experiences**

* + - 1. How does the program ensure fellows have at least 24 months of clinical experience, including inpatient and special experiences? (Limit 300 words)

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* + - 1. Does fellows’ clinical experience include at least four months in the cardiac catheterization laboratory?

 [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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* + - 1. Does fellows’ clinical experience include at least six months in non-invasive cardiac evaluation?

 [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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* + - 1. If ‘YES’ to Question 3 above, does the experience include the following?
				1. At least one month in other non-invasive cardiac evaluations, including exercise stress testing, ECG interpretation, and ambulatory ECG monitoring (these experiences can occur concurrently with other rotations) [ ] YES [ ] NO
				2. At least 80 hours of daily nuclear cardiology study interpretation during the two month nuclear cardiology experience [ ] YES [ ] NO
				3. Experience with cardiac tomography positron emission tomography (PET), cardiac magnetic resonance imaging (CMRI), and peripheral vascular imaging (these experiences can occur concurrently with other rotations) [ ] YES [ ] NO
				4. Three months of echocardiography and Doppler [ ] YES [ ] NO
				5. Two months of nuclear cardiology [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 300 words)

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* + - 1. Do fellows have at least two months devoted to electrophysiology? [ ] YES [ ] NO

Explain if ‘NO.’ (Limit 250 words)

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* + - 1. Do fellows have at least nine months of non-laboratory clinical practice activities, including the following?
				1. Cardiac care unit experiences [ ] YES [ ] NO
				2. Consultations [ ] YES [ ] NO
				3. Experience with congenital heart disease [ ] YES [ ] NO
				4. Experience with post-operative care [ ] YES [ ] NO
				5. Experience with preventive cardiology [ ] YES [ ] NO
				6. Experience with vascular medicine [ ] YES [ ] NO

Explain any ‘NO’ responses. (Limit 300 words)

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* + - 1. How does the program ensure each fellow participates in training using simulation? (Limit 300 words)

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* + - 1. Do fellows have formal instruction and clinical experience with the following procedures and technical skills?
1. Conscious sedation [ ] YES [ ] NO
2. Intra-aortic balloon counterpulsation [ ] YES [ ] NO
3. Intra-cardiac electrophysiologic studies [ ] YES [ ] NO
4. MRI [ ] YES [ ] NO
5. Percutaneous transluminal coronary angioplasty and other interventional procedures

 [ ] YES [ ] NO

1. Pericardiocentesis [ ] YES [ ] NO
2. Placement and management of temporary pacemakers, including transvenous and transcutaneous

 [ ] YES [ ] NO

1. Programming and follow-up surveillance of permanent pacemakers and ICD) [ ] YES [ ] NO

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

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* + - 1. How does the program ensure each fellow performs at least 75 echocardiogram studies, interpret a minimum of 150 studies, and observe the performance and interpretation of transesophageal cardiac studies? (Limit 400 words)

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* + - 1. How does the program ensure each fellow performs at least 50 stress ECG tests? (Limit 300 words)

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* + - 1. How does the program ensure each fellow performs right and left heart catheterization, including coronary arteriography, with participation in a minimum of 100 catheterizations? (Limit 400 words)

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* + - 1. How does the program ensure each fellow has experience interpreting ambulatory ECG recordings, a minimum of 3,500 ECGs, nuclear cardiology including a minimum of 100 radionuclide studies, to include SPECT myocardial perfusion imaging and ventriculograms, and chest x-rays? (Limit 500 words)

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* + - 1. Do fellows have a structured continuity ambulatory clinic experience that exposes them to the breadth and depth of cardiology? [ ] YES [ ] NO
			2. Does the experience described in Question 13 include an appropriate distribution of patients of all genders and a diversity of ages? [ ] YES [ ] NO
			3. Do 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 13-15 above. (Limit 250 words)

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

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* + - 1. Is the continuing patient care experience 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**

**Supervision and Accountability**

How does the program ensure that 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 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:**

|  |
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| Y-101. Introduction to Cardiovascular Diseasea) Seminarb) Required Y-1c) Survey of contemporary methods and styles of cardiology, including approaches to clinical work with minority populations.d) Weekly, for 8 sessions.02. Departmental Grand Roundsa) Discussion groupsb) Required, Y-1, Y-2, Y-3; Elective Y-4c) 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 is monitored, explain how this is accomplished and how feedback is given regarding non-attendance. (Limit 250 words)

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