**New Application: Interventional Cardiology**

**Review Committee for Internal Medicine**

**ACGME**

**Oversight**

**Participating Sites**

1. Describe the reporting relationship between the subspecialty program director and the core cardiology residency director. [PR I.B.1.b)]

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**Resources**

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| Will there be adequate facilities (e.g., exam rooms, meeting/conference room, and work area) for patient care and for the educational components of the program? [PR I.D.1.a)] | [ ]  YES [ ]  NO |
| Will clinical records that document both inpatient and ambulatory be readily available at all times? [PR I.D.1.b).(1)] | [ ]  YES [ ]  NO |
| Will fellows have access to an electronic health record? [PR I.D.1.e)] | [ ]  YES [ ]  NO |

| **Will the following facilities/laboratories/resources be available?** |  |
| --- | --- |
| Cardiac catheterization laboratory equipped with cardiac fluoroscopic equipment, digital imaging, recording devices, a full complement of interventional devices, and resuscitative equipment [PR I.D.1.c).(1)] | [ ]  YES [ ]  NO |
| Cardiac radionuclide laboratories [PR I.D.1.c).(2)]  | [ ]  YES [ ]  NO |
| Active cardiac surgery program [PR I.D.1.d).(1)] | [ ]  YES [ ]  NO |
| Cardiac surgery intensive care unit [PR I.D.1.d).(2)] | [ ]  YES [ ]  NO |
| Cardiac intensive care unit [PR I.D.1.d).(3)] | [ ]  YES [ ]  NO |
| Access to faculty with expertise in radiation safety [PR II.B.1.a)] | [ ]  YES [ ]  NO |
| Access to faculty with expertise in hematology [PR II.B.1.a)] | [ ]  YES [ ]  NO |
| Access to faculty with expertise in pharmacology [PR II.B.1.a)] | [ ]  YES [ ]  NO |
| Access to faculty with expertise in congenital heart disease in adults [PR II.B.1.a)] | [ ]  YES [ ]  NO |
| Access to faculty with expertise in research [PR II.B.1.a)] | [ ]  YES [ ]  NO |
| Access to training using simulation [PR IV.C.4.] | [ ]  YES [ ]  NO |

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| How many interventional procedures will be performed per year at the primary cardiac catheterization laboratory? [PR I.D.1.c).(1).(a)] | # |
| How many interventional procedures will be performed per year at the secondary cardiac catheterization laboratory? [PR I.D.1.c).(1).(a)] | # |

**Personnel**

**Program Director**

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| What is the percentage of Program Director support? [PR II.A.2.a)] | % |

**Program Coordinator**

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| Will there be a dedicated program coordinator to provide adequate administrative support to the program? [PR II.C.1.] | [ ]  YES [ ]  NO |

**Follow-Up/Outpatient Experiences**

Provide information for the fellows’ follow-up/outpatient experience and patient distribution for the year of training. List each experience indicating the name of the experiences, site number, duration of the experience, number of ½ day sessions per week, average number of patients seen per session, whether faculty supervision is provided for each experience, and the percent of female patients. Add rows as necessary.

| **Name of Experience** | **Site #** | **Duration** | **Sessions Per Week** | **Average # of Patients Seen Per Session** | **On-site concurrent faculty supervision present?** | **% Female Patients** |
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**Other Ambulatory Experience**

Provide information for the fellows’ other ambulatory experiences and patient distribution for the year of training. List each experience indicating the name of the experiences (e.g., Follow-Up Clinic, Other), site number, duration of the experience, number of ½ day sessions per week, average number of patients seen per session, whether faculty supervision is provided for each experience, and the percent of female patients. Add rows as necessary.

| **Name of Experience** | **Site #** | **Duration** | **Sessions Per Week** | **Average # of Patients Seen Per Session** | **On-site concurrent faculty supervision present?** | **% Female Patients** |
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**Educational Program**

**ACGME Competencies**

**Patient Care and Procedural Skills**

Provide the following information about the curriculum:

Will fellows demonstrate competence in the prevention, evaluation and management of both inpatients and outpatients with the following disorders?

|  |  |
| --- | --- |
| Acute ischemic syndromes [PR IV.B.1.b).(1).(b).(i)] | [ ]  YES [ ]  NO |
| Bleeding disorders or complications associated with percutaneous intervention or drugs [PR IV.B.1.b).(1).(b).(ii)] | [ ]  YES [ ]  NO |
| Bleeding after thrombolytic usage [PR IV.B.1.b).(1).(b).(ii).(a)] | [ ]  YES [ ]  NO |
| Direct or indirect thrombin inhibitor usage [PR IV.B.1.b).(1).(b).(ii).(b)] | [ ]  YES [ ]  NO |
| Glycoprotein IIb/IIIa inhibitor usage [PR IV.B.1.b).(1).(b).(ii).(c)] | [ ]  YES [ ]  NO |
| Thienopyridine or other antiplatelet usage [PR IV.B.1.b).(1).(b).(ii).(d)] | [ ]  YES [ ]  NO |
| Chronic ischemic heart disease [PR IV.B.1.b).(1).(b).(iii)] | [ ]  YES [ ]  NO |
| Valvular and structural heart disease [PR IV.B.1.b).(1).(b).(iv)] | [ ]  YES [ ]  NO |
| Care of patients before and after interventional procedures [PR IV.B.1.b).(1).(c).(i)] | [ ]  YES [ ]  NO |
| Care of patients in the cardiac care unit, emergency department, or other intensive care settings [PR IV.B.1.b).(1).(c).(ii)] | [ ]  YES [ ]  NO |
| Outpatient follow-up of patients treated with drugs, interventions, devices, or surgery [PR IV.B.1.b).(1).(c).(iii)] | [ ]  YES [ ]  NO |
| Use of antiarrhythmic drugs [PR IV.B.1.b).(1).(c).(iv)] | [ ]  YES [ ]  NO |
| Use and limitations of intra-aortic balloon counterpulsation (IABP) and other hemodynamic support devices (as available) [PR IV.B.1.b).(1).(c).(v)] | [ ]  YES [ ]  NO |
| Use of thrombolytic and antithrombolytic, antiplatelet, and antithrombin agents [PR IV.B.1.b).(1).(c).(vi)] | [ ]  YES [ ]  NO |
| Use of vasoactive agents for epicardial and microvascular spasm [PR IV.B.1.b).(1).(c).(vii)] |  |

1. For the procedures listed, indicate whether instruction will be provided for fellows and if proficiency will be documented in a logbook or equivalent method.

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| Cardiac tamponade including pericardiocentesis instruction provided [PR IV.B.1.b).(1).(d).(i)] | [ ]  YES [ ]  NO |
| Cardiac tamponade including pericardiocentesis proficiency documented [PR IV.B.1.b).(1).(d).(i)] | [ ]  YES [ ]  NO |
| Cardiogenic shock instruction provided [PR IV.B.1.b).(1).(d).(ii)] | [ ]  YES [ ]  NO |
| Cardiogenic shock proficiency documented [PR IV.B.1.b).(1).(d).(ii)] | [ ]  YES [ ]  NO |
| Coronary dissection instruction provided [PR IV.B.1.b).(1).(d).(iii)] | [ ]  YES [ ]  NO |
| Coronary dissection proficiency documented [PR IV.B.1.b).(1).(d).(iii)] | [ ]  YES [ ]  NO |
| Perforation instruction provided [PR IV.B.1.b).(1).(d).(iv)] | [ ]  YES [ ]  NO |
| Perforation proficiency documented [PR IV.B.1.b).(1).(d).(iv)] | [ ]  YES [ ]  NO |
| Slow reflow instruction provided [PR IV.B.1.b).(1).(d).(v)] | [ ]  YES [ ]  NO |
| Slow reflow proficiency documented [PR IV.B.1.b).(1).(d).(v)] | [ ]  YES [ ]  NO |
| Spasm instruction provided [PR IV.B.1.b).(1).(d).(vi)] | [ ]  YES [ ]  NO |
| Spasm proficiency documented [PR IV.B.1.b).(1).(d).(vi)] | [ ]  YES [ ]  NO |
| Thrombosis instruction provided [PR IV.B.1.b).(1).(d).(vii)] | [ ]  YES [ ]  NO |
| Thrombosis proficiency documented [PR IV.B.1.b).(1).(d).(vii)] | [ ]  YES [ ]  NO |
| Coronary arteriograms instruction provided [PR IV.B.1.b).(2).(a).(i)] | [ ]  YES [ ]  NO |
| Coronary arteriograms proficiency documented [PR IV.B.1.b).(2).(a).(i)] | [ ]  YES [ ]  NO |
| Coronary interventions instruction provided [PR IV.B.1.b).(2).(a).(ii)] | [ ]  YES [ ]  NO |
| Coronary interventions proficiency documented [PR IV.B.1.b).(2).(a).(ii)] | [ ]  YES [ ]  NO |
| Application and usage of balloon angioplasty, stents, and other commonly used interventional devices instruction provided [PR IV.B.1.b).(2).(a).(ii).(a)] | [ ]  YES [ ]  NO |
| Application and usage of balloon angioplasty, stents, and other commonly used interventional devices proficiency documented [PR IV.B.1.b).(2).(a).(ii).(a)] | [ ]  YES [ ]  NO |
| Femoral and brachial/radial cannulation of normal and abnormally located coronary ostia instruction provided [PR IV.B.1.b).(2).(a).(ii).(b)] | [ ]  YES [ ]  NO |
| Femoral and brachial/radial cannulation of normal and abnormally located coronary ostia proficiency documented [PR IV.B.1.b).(2).(a).(ii).(b)] | [ ]  YES [ ]  NO |
| Doppler flow, intracoronary pressure measurement and monitoring, and coronary flow reserve instruction provided [PR IV.B.1.b).(2).(a).(iii)] | [ ]  YES [ ]  NO |
| Doppler flow, intracoronary pressure measurement and monitoring, and coronary flow reserve proficiency documented [PR IV.B.1.b).(2).(a).(iii)] | [ ]  YES [ ]  NO |
| Hemodynamic measurements instruction provided [PR IV.B.1.b).(2).(a).(iv)] | [ ]  YES [ ]  NO |
| Hemodynamic measurements proficiency documented [PR IV.B.1.b).(2).(a).(iv)] | [ ]  YES [ ]  NO |
| Intravascular ultrasound instruction provided [PR IV.B.1.b).(2).(a).(v)] | [ ]  YES [ ]  NO |
| Intravascular ultrasound proficiency documented [PR IV.B.1.b).(2).(a).(v)] | [ ]  YES [ ]  NO |
| Ventriculography and aortography instruction provided [PR IV.B.1.b).(2).(a).(vi)] | [ ]  YES [ ]  NO |
| Ventriculography and aortography proficiency documented [PR IV.B.1.b).(2).(a).(vi)] | [ ]  YES [ ]  NO |
| Management of mechanical complications of percutaneous intervention instruction provided [PR IV.B.1.b).(1).(d)] | [ ]  YES [ ]  NO |
| Management of mechanical complications of percutaneous intervention proficiency documented [PR IV.B.1.b).(1).(d)] | [ ]  YES [ ]  NO |
| Management of vascular assessment complications, including management of closure device complications and pseudoaneurysm instruction provided [PR IV.B.1.b).(1).(e)] | [ ]  YES [ ]  NO |
| Management of vascular assessment complications, including management of closure device complications and pseudoaneurysm proficiency documented [PR IV.B.1.b).(1).(e)] | [ ]  YES [ ]  NO |
| Management of major and minor bleeding complications instruction provided [PR IV.B.1.b).(1).(f)] | [ ]  YES [ ]  NO |
| Management of major and minor bleeding complications proficiency documented [PR IV.B.1.b).(1).(f)] | [ ]  YES [ ]  NO |

**Medical Knowledge**

| **Will fellows demonstrate knowledge of the following content areas below?** |  |
| --- | --- |
| Detailed coronary anatomy [PR IV.B.1.c).(3).(a)] | [ ]  YES [ ]  NO |
| Clinical utility and limitations of the treatment of valvular and structural heart disease [PR IV.B.1.c).(3).(b)] | [ ]  YES [ ]  NO |
| Pathophysiology of restenosis [PR IV.B.1.c).(3).(c)] | [ ]  YES [ ]  NO |
| Physiology of coronary flow and detection of flow-limiting conditions [PR IV.B.1.c).(3).(d)] | [ ]  YES [ ]  NO |
| Radiation physics, biology, and safety related to the use of x-ray imaging equipment [PR IV.B.1.c).(3).(e)] | [ ]  YES [ ]  NO |
| Strengths and limitations of both noninvasive and invasive coronary evaluation during the recovery phase after acute myocardial infarction [PR IV.B.1.c).(3).(f)] | [ ]  YES [ ]  NO |
| Strengths and limitations, both short- and long-term of differing percutaneous approaches for a wide variety of anatomic situations related to cardiovascular disease [PR IV.B.1.c).(3).(g)] | [ ]  YES [ ]  NO |
| Strengths and weaknesses of mechanical versus lytic approaches for patients with acute myocardial infarction [PR IV.B.1.c).(3).(h)] | [ ]  YES [ ]  NO |
| The assessment of plaque composition and response to intervention [PR IV.B.1.c).(3).(i)] | [ ]  YES [ ]  NO |
| The clinical importance of complete versus incomplete revascularization in a wide variety of clinical and anatomic situations [PR IV.B.1.c).(3).(j)] | [ ]  YES [ ]  NO |
| The role of emergency coronary bypass surgery in the management of complications of percutaneous intervention [PR IV.B.1.c).(3).(k)] | [ ]  YES [ ]  NO |
| The role and limitations of established and emerging therapy for treatment of restenosis [PR IV.B.1.c).(3).(l)] | ☐ YES ☐ NO |
| The role of platelets and the clotting cascade in response to vascular injury [PR IV.B.1.c).(3).(m)] | [ ]  YES [ ]  NO |
| The role of randomized clinical trials and registry experiences in clinical decision making [PR IV.B.1.c).(3).(n)] | [ ]  YES [ ]  NO |
| The use of pharmacologic agents appropriate in the postintervention management of patients [PR IV.B.1.c).(3).(o)] | [ ]  YES [ ]  NO |

**Practice-Based Learning and Improvement**

Briefly describe how fellows will demonstrate competence in investigating and evaluating their care of patients, appraising and assimilating scientific evidence, and continuously improving their patient care based on self-evaluation and lifelong learning. [PR IV.B.1.d).] (Limit response to 400 words)

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**Interpersonal and Communication Skills**

Briefly describe how fellows will develop skills that result in the effective exchange of information and collaboration with patients, their families and health professionals. [PR IV.B.1.e)] (Limit response to 400 words)

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**Systems Based Practice**

Briefly describe how fellows will demonstrate an awareness of and responsiveness to the larger context and system of health care, including the structural and social determinants of health, as well as the ability to call effectively on other resources to provide optimal health care. [PR IV.B.1.f] (Limit response to 400 words)

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**Curriculum Organization and Fellow Experiences**

Will fellows routinely participate in the following conferences: [PR IV.C.5.b)]

|  |  |
| --- | --- |
| Core Curriculum Conference Series | [ ]  YES [ ]  NO |
| Clinical Case Conferences  | [ ]  YES [ ]  NO |
| Research Conferences | [ ]  YES [ ]  NO |
| Journal Club | [ ]  YES [ ]  NO |
| Morbidity and Mortality Conferences | [ ]  YES [ ]  NO |
| Quality Improvement Conferences | [ ]  YES [ ]  NO |

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| Will the faculty participate in required conferences? [PR IV.C.7.c)] | [ ]  YES [ ]  NO |

Describe how the program will ensure that the fellows have the opportunity to make up missed core conferences (e.g., when off-site). [PR IV.C.5.a)]

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Briefly describe the Core Curriculum Conference Series in your program. [PR IV.C.5.]

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**Evaluation**

Provide information on your methods for evaluating fellows, teaching attendings and other faculty members, your recording methods, access rules, and follow-up actions taken to remediate problems.

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| Will the program director review fellow procedure logs in order to document that each fellow has performed the minimum number and achieved competence in required procedures? [PR IV.C.8.a)] | [ ]  YES [ ]  NO |
| Will the program use multi-source evaluation, including patients, peers, and non-physician team members, to assess each fellow's ability to meet professional responsibilities? [PR V.A.1.c).(1)] | [ ]  YES [ ]  NO |

**Faculty Evaluation**

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| --- | --- |
| Will the evaluations of faculty be written and confidential? [PR V.B.1.b)] | [ ]  YES [ ]  NO |
| Will the results of these evaluations be communicated on a regular basis, at least annually, to faculty members? [PR V.B.2] | [ ]  YES [ ]  NO |

**The Learning and Working Environment**

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| Describe how faculty and residents will be educated about fatigue and its negative effects. [PR VI.D] |
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**Faculty Scholarly Activity [PR IV.D.2.]**

As evidence of a scholarly environment, the Review Committee expects the program to provide evidence of scholarly activity by documenting that at least 50% of its required minimum number of core faculty (CF) annually engage in a variety of scholarly activity. Please **list one example** of scholarly activity for your program’s core faculty during the past academic year.

*Identify academic year:*

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| Name of Core Faculty | Type of Activity | Citation/Description of Product |
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