**New Application: Aerospace Medicine**

**Review Committee for Preventive Medicine**

**ACGME**

**Oversight**

**Resources**

1. Is there a flight training program? [PR 1.8.a.] YES  NO

**Educational Program**

**ACGME Competencies**

**Professionalism**

Briefly describe the learning activity(ies), other than lecture, by which residents will demonstrate a commitment to professionalism and an adherence to ethical principles. [PRs 4.3.a.- 4.3.h.] (Limit response to 400 words)

The description should include how residents will demonstrate competence in:

* Compassion, integrity, and respect for others
* Responsiveness to patient needs that supersedes self-interest
* Cultural humility
* Respect for patient privacy and autonomy
* Accountability to patients, society, and the profession
* Respect and responsiveness to diverse patient populations, including diversity in gender, age, culture, race, religion, disabilities, national origin, socioeconomic status, and sexual orientation
* Ability to recognize and develop a plan for one’s own personal and professional well-being
* Appropriately disclosing and addressing conflict or duality of interest

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**Patient Care and Procedural Skills**

* + - 1. Will the prerequisite clinical education be integrated into a 36-month program format? *(if NO, skip to Question 4)*: [PR 4.4.a.]  YES  NO
      2. If YES, indicate how residents will demonstrate competence in: (Limit response to 250 words)
         1. Obtaining a comprehensive medical history [PR 4.4.a.1.]

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* + - * 1. Performing a comprehensive physical examination [PR 4.4.a.2.]

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* + - * 1. Assessing a patient’s medical conditions [PR 4.4.a.3.]

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* + - * 1. Making appropriate use of diagnostic studies and tests [PR 4.4.a.4.]

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* + - * 1. Integrating information to develop a differential diagnosis [PR 4.4.a.5.]

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* + - * 1. Developing, implementing, and evaluating a treatment plan [PR 4.4.a.6.]

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* + - 1. List the settings for, and provide a description of, the learning activities designed for residents to demonstrate competence in each of the followingareas. Use the site number(s) from the ACGME’s Accreditation Data System (ADS). In describing a learning activity, indicate how the resident is actively engaged in the provision of patient care and/or clinical preventive medicine services. Also indicate the method(s) used to assess competence.

| **Competency Area** | **Site #** | **Description of Learning Activity** | **Assessment Method(s)** |
| --- | --- | --- | --- |
| Assessing and responding to individual and population risks for common occupational and environmental disorders [PR 4.4.b.] | # | Click here to enter text. | Click here to enter text. |
| Conducting research for innovative solutions to health problems [PR 4.4.c.] | # | Click here to enter text. | Click here to enter text. |
| Diagnosing and investigating medical problems and medical hazards in the community [PR 4.4.d.] | # | Click here to enter text. | Click here to enter text. |
| Directing individuals to needed personal health services [PR 4.4.e.] | # | Click here to enter text. | Click here to enter text. |
| Informing and educating populations about health threats and risks [PR 4.4.f.] | # | Click here to enter text. | Click here to enter text. |
| Planning and evaluating the medical portion of emergency preparedness programs and training exercises [PR 4.4.g.] | # | Click here to enter text. | Click here to enter text. |
| Providing clinical preventive medicine services [PR 4.4.h.] | # | Click here to enter text. | Click here to enter text. |
| Diagnosing and treating medical problems and chronic conditions for both individuals and populations [PR 4.4.h.1.] | # | Click here to enter text. | Click here to enter text. |
| Applying primary, secondary, and tertiary preventive approaches to individual and population-based disease prevention and health promotion [PR 4.4.h.2.] | # | Click here to enter text. | Click here to enter text. |
| Evaluating the effectiveness of clinical preventive services for both individuals and populations [PR 4.4.h.3.] | # | Click here to enter text. | Click here to enter text. |
| Developing policies and plans to support individual and community health efforts  [PR 4.4.i.] | # | Click here to enter text. | Click here to enter text. |
| Advising in the development of air and space flight equipment, biomedical equipment, and vehicles for flight and space flight; techniques for enhancing human performance; and techniques of crew resource management [PR 4.4.j.] | # | Click here to enter text. | Click here to enter text. |
| Applying or granting exceptions to medical standards, and facilitating the prevention, early diagnosis, and treatment of health hazards [PR 4.4.k.] | # | Click here to enter text. | Click here to enter text. |
| Conducting aeromedical research into health, safety, human factors, and biomedical engineering aspects of the flight environment [PR 4.4.l.] | # | Click here to enter text. | Click here to enter text. |
| Developing and applying medical care standards and programs, evaluating the physiologic effects of aviation, spaceflight, austere environments [PR 4.4.m.] | # | Click here to enter text. | Click here to enter text. |
| Conducting longitudinal health studies on pilots, astronauts, and others who work in austere environments [PR 4.4.m.1.] | # | Click here to enter text. | Click here to enter text. |
| Developing medical standards and waiver criteria for work in austere environments [PR 4.4.m.2.] | # | Click here to enter text. | Click here to enter text. |
| Developing medical treatment protocols for illnesses and injuries in austere environments [PR 4.4.m.3.] | # | Click here to enter text. | Click here to enter text. |
| Drafting government or corporate aeromedical or spaceflight medical standards, waiver criteria, or clinical practice guidelines [PR 4.4.m.4.] | # | Click here to enter text. | Click here to enter text. |
| Conducting research on medical conditions in pilots, astronauts, and others who work in austere environments [PR 4.4.m.5.] | # | Click here to enter text. | Click here to enter text. |
| Identifying appropriate patients for aeromedical transport, and providing guidance for safe aeromedical transport of patients [PR 4.4.n.] | # | Click here to enter text. | Click here to enter text. |
| Managing aerospace and general medical problems in aerospace personnel [PR 4.4.o.] | # | Click here to enter text. | Click here to enter text. |

**Medical Knowledge**

1. Indicate how residents will demonstrate competence in their knowledge of all content areas included in the required graduate courses for completion of the program. Also indicate the method(s) that will be used to assess competence. (Limit response to 400 words) [PR 4.6.a.]

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1. Indicate the activities (lectures, conferences, journal clubs, clinical teaching rounds, etc.) in which residents will demonstrate competence in their knowledge of the following areas. Also indicate the method(s) that will be used to assess competence. [PR 4.6.b.]

| **Competency Area** | **Settings/Activities** | **Assessment Method(s)** |
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| Factors that impact the health of individuals and populations [PR 4.6.b.] | Click here to enter text. | Click here to enter text. |
| Lifestyle management [PR 4.6.b.1.] | Click here to enter text. | Click here to enter text. |
| Social determinants of health [PR 4.6.b.2.] | Click here to enter text. | Click here to enter text. |
| The use of available technology such as telemedicine to reduce health disparities [PR 4.6.c.] | Click here to enter text. | Click here to enter text. |

1. Indicate the activities (lectures, conferences, journal clubs, clinical teaching rounds, etc.) in which residents will demonstrate competence in their knowledge of principles of the following areas. Also indicate the method(s) that will be used to assess competence.

| **Competency Area** | **Settings/Activities** | **Assessment Method(s)** |
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| Accident investigation/risk management and mitigation [PR 4.6.d.] | Click here to enter text. | Click here to enter text. |
| Global health and travel medicine [PR 4.6.e.] | Click here to enter text. | Click here to enter text. |
| Identification and mitigation of workplace hazards [PR 4.6.f.] | Click here to enter text. | Click here to enter text. |
| Principles of aviation and space medicine [PR 4.6.g.] | Click here to enter text. | Click here to enter text. |
| Toxicology [PR 4.6.h.] | Click here to enter text. | Click here to enter text. |

**Practice-based Learning and Improvement**

1. Briefly describe one learning activity in which residents 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 life-long learning. [PR 4.7.] (Limit response to 400 words)

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1. Briefly describe one learning activity in which residents demonstrate competence in identifying strengths, deficiencies, and limits in their knowledge and expertise; setting learning and improvement goals; and identifying and performing appropriate learning activities. [PR 4.7.a.- 4.7.c.] (Limit response to 400 words)

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1. Briefly describe one activity or project that will allow residents to demonstrate competence in systematically analyzing practice using quality improvement methods, including activities aimed at reducing health disparities, and implementing changes with the goal of practice improvement. [PR 4.7.d.] (Limit response to 400 words)

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1. Briefly describe how residents will demonstrate competence in incorporating feedback and formative evaluation into daily practice. (If a specific tool is used to evaluate these skills, have it available for review by the site visitor.) [PR 4.7.e.] (Limit response to 400 words)

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1. Briefly describe one learning activity in which residents demonstrate competence in locating, appraising, and assimilating evidence from scientific studies related to their patients' health problems and using information technology to optimize learning. [PR 4.7.f.] (Limit response to 400 words)

The description should include:

* Locating information
* Appraising information
* Assimilating evidence information (from scientific studies)
* Applying information to patient care

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1. Briefly describe one learning activity in which residents will demonstrate competence in using information technology for reference retrieval, statistical analysis, graphic display, database management, and communication. [PR 4.7.g.] (Limit response to 400 words)

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1. Briefly describe one example of a learning activity in which residents will demonstrate competence in using epidemiologic principles and biostatistics methods. [PR 4.7.i.1.- 4.7.i.6.] (Limit response to 400 words)

The description should include:

* Characterizing the health of a community, group of workers, or population
* Conducting a virtual or actual outbreak or cluster investigation
* Evaluating a surveillance system (and interpreting, monitoring, and acting on surveillance data for prevention of disease and injury in workplaces and populations)
* Measuring, organizing, or improving a public health service
* Selecting and conducting appropriate statistical analyses
* Translating epidemiologic findings into a recommendation for a specific intervention

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1. Briefly describe one learning activity in which residents will demonstrate competence in designing and conducting an epidemiologic study. [PR 4.7.j.] (Limit response to 400 words)

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1. Briefly describe one learning activity in which residents will demonstrate competence in conducting an advanced literature search for research on a preventive medicine topic. [PR 4.7.k.] (Limit response to 400 words)

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**Interpersonal and Communication Skills**

1. Briefly describe one learning activity in which residents demonstrate competence in communicating effectively with patients and patients’ families, as appropriate, across a broad range of socioeconomic circumstances, cultural backgrounds, and language capabilities, and with physicians, other health professionals, and health-related agencies. [PR 4.8.a.- 4.8.b.] (Limit response to 400 words)

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1. Briefly describe one learning activity in which residents develop their skills to demonstrate competence in working effectively as a member or leader of a health care team or other professional group. In the example, identify the members of the team, responsibilities of the team members, and how team members communicate to accomplish responsibilities. [PR 4.8.c.] (Limit response to 400 words)

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Briefly describe how residents will demonstrate competence in educating patients, patients’ families, students, residents, and other health professionals. [PR 4.8.d.] (Limit response to 400 words)

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Briefly describe how residents will demonstrate competence in acting in a consultative role to other physicians and health professionals. [PR 4.8.e.] (Limit response to 400 words)

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1. Briefly describe how residents will demonstrate competence in maintaining comprehensive, timely, and legible health care records, if applicable. [PR 4.8.f.] (Limit response to 400 words)

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1. Briefly describe how residents will demonstrate competence in educating passengers and physicians about the medical conditions that make flight hazardous, and in serving as a passenger advocate to promote flight safety. [PR 4.8.h.] (Limit response to 400 words)

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**Systems-based Practice**

1. Briefly describe the learning activity(ies) through which residents 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 4.9.] (Limit response to 400 words)

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1. Describe the learning activity(ies) through which residents demonstrate competence in the elements of systems-based practice. [PR 4.9.a.- 4.9.g.] (Limit your response to 400 words)

The response should include:

* Working effectively in various health care delivery settings and systems
* Coordinating patient care across the health care continuum and beyond
* Advocating for quality patient care and optimal patient care systems
* Participating in identifying system errors and implementing potential systems solutions
* Incorporating considerations of value, cost awareness, delivery and payment, and risk-benefit analysis in patient and/or population-based care
* Understanding health care finances and its impact on individual patients’ health decisions
* Using tools and techniques that promote patient safety and disclosure of safety events (real or simulated)

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3. Briefly describe one learning activity in which residents will demonstrate competence in engaging with community partners to identify and solve health problems. [PR 4.9.i.] (Limit response to 400 words)

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4. Briefly describe one learning activity in which residents will demonstrate competence in conducting program and needs assessments, and prioritizing activities using objective, measurable criteria, including epidemiologic impact and cost-effectiveness. [PR 4.9.j.] (Limit response to 400 words)

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5. Briefly describe one learning activity in which residents will demonstrate competence in identifying and reviewing laws and regulations relevant to their assignments. [PR 4.9.k.] (Limit response to 400 words)

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6. Briefly describe one learning activity in which residents will demonstrate competence in identifying organizational decision-making structures, stakeholders, styles, and processes. [PR 4.9.l.] (Limit response to 400 words)

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7. Briefly describe the learning activity(ies) in which residents will demonstrate competence in management and administration, including the ability to assess data and formulate policy for a given health issue; assess the human and financial resources for the operation of a program or project; apply and use management information systems; and plan, manage, and evaluate health services to improve the health of a defined population using quality improvement and assurance systems. [PR 4.9.m.- 4.9.m.4.] (Limit response to 400 words)

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8. Briefly describe one learning activity in which residents will demonstrate competence in analyzing policy options for their health impact and economic costs. [PR 4.9.n.] (Limit response to 400 words)

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9. Briefly describe one learning activity in which residents will demonstrate competence in participating in the evaluation of applicants and the performance of staff members, and understanding the legal and ethical use of this information in decisions for hiring, managing, and discharging staff members. [PR 4.9.o.] (Limit response to 400 words)

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**Curriculum Organization and Resident Experiences**

1. Briefly describe how the PGY-1 will provide broad education in fundamental clinical skills of medicine relevant to the practice of preventive medicine. [PR 4.11.a.] (Limit response to 400 words)

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1. Briefly describe how the program director will oversee and ensure the quality of didactic and clinical education in the PGY-1. [PR 4.11.a.1.] (Limit response to 400 words)

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1. Briefly describe how the program will assess the knowledge, skills, and competence of each incoming resident as they relate to the educational goals of the program, and specify the methods used in this assessment. [PR 4.11.b.; 4.11.b.1.] (Limit response to 400 words)

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1. Will these assessments be used by the program director and faculty members to guide the development of an individualized educational plan for each resident? [PR 4.11.b.2.]

YES  NO

* 1. Will these plans direct the acquisition of a core set of competencies, skills, and knowledge appropriate to the objectives of individual residents based on their respective assessments?  
     [PR 4.11.b.2.a.]  YES  NO
  2. Will these plans denote the courses, rotations, and activities to which the residents will be assigned to achieve the designated clinical skills, knowledge, and competencies?   
     [PR 4.11.b.2.b.]  YES  NO
  3. Will these plans be reviewed as part of the semiannual evaluation? [PR 4.11.b.2.c.]

YES  NO

1. Briefly describe residents’ educational experiences within a patient care environment that will address clinical issues relevant to aerospace medicine. Include a description of residents’ progressive responsibility for direct patient care and the management of health and provision of health care for a defined population. [PR 4.11.c.; 4.11.c.1.]. (Limit response to 400 words)

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1. List in the chart below the courses and didactic sessions that residents will complete that include the five content areas of: epidemiology; biostatistics; health services management and administration; environmental health; and the behavioral aspects of health. [PR 4.11.d.1.]

| **Required Coursework** | **Graduate-Level Course**  (Complete if a graduate course is used to fulfill this requirement.) | | | **Semester Credits\*\*** | **Didactic Sessions**  (Complete if didactic sessions are used to fulfill this requirement. Complete if this is also used to complement a graduate course.) | | | **Goals and Objectives** | **Method(s) to Assess Resident Competence** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name, Course Number** | **Course Description** | **Year\*** | **Total Hours\*\*\*** | **List of Topics** | **Year\*** |
| Epidemiology | Click here to enter text. | Click here to enter text. | Year | # | # | Click here to enter text. | Year | Click here to enter text. | Click here to enter text. |
| Biostatistics | Click here to enter text. | Click here to enter text. | Year | # | # | Click here to enter text. | Year | Click here to enter text. | Click here to enter text. |
| Health services management and administration | Click here to enter text. | Click here to enter text. | Year | # | # | Click here to enter text. | Year | Click here to enter text. | Click here to enter text. |
| Environmental health | Click here to enter text. | Click here to enter text. | Year | # | # | Click here to enter text. | Year | Click here to enter text. | Click here to enter text. |
| Behavioral aspects of health | Click here to enter text. | Click here to enter text. | Year | # | # | Click here to enter text. | Year | Click here to enter text. | Click here to enter text. |

\* Indicate the year in the program when the requirement is usually fulfilled (e.g., PM-2).

\*\* Indicate total semester hours to cover the topic and fulfill the requirement. If applicable, please convert quarter hours to semester hours.

\*\*\* Indicate total didactic hours to cover the topic and fulfill the requirement.

1. Briefly describe how didactic conferences will be structured to facilitate faculty member and resident interaction. [PR 4.11.e.] (Limit response to 400 words)

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1. Briefly describe the setting(s) for resident education in which operational aeromedical problems will be routinely encountered, and aerospace operations and human life support systems are under active study and development. [PR 4.11.f.] (Limit response to 400 words)

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1. Indicate the minimum number of months of direct patient care experience residents will have in each year of the program. [PR 4.11.f.1.]

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| Year 1 | # |
| Year 2 | # |

1. Briefly describe resident experiences in each of the following: [PR 4.11.f.3.]
2. Pilot medical certification (Limit response to 250 words)

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1. Operational flight medical support (Limit response to 250 words)

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1. Disability assessment of pilots (Limit response to 250 words)

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1. Aircraft and/or spacecraft accident investigation of problems directly applicable to the specialty and the aviation/space environment (Limit response to 250 words)

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**Scholarly Activity – Program Responsibilities**

1. Does the Sponsoring Institution provide funds for each resident to attend at least one national professional meeting with the opportunity to present original scholarship? [PR 4.13.a.1.]  
     YES  NO