**New Application: Anesthesiology Critical Care Medicine**

**Review Committee for Anesthesiology**

**ACGME**

**Oversight**

**Participating** **Sites**

Does the sponsoring institution also sponsor ACGME-accredited residency programs in: [PR 1.2.a.]

1. Anesthesiology [ ] YES [ ]  NO
2. Internal medicine [ ]  YES [ ]  NO
3. Surgery [ ]  YES [ ]  NO

**Resources**

1. Patient Population Data

All of the data on this page pertain to the critical care units: admissions, percent of admissions requiring interventions and percent of admissions to the various critical care units (as listed above). [PR 1.8.f.]

|  |  |  |
| --- | --- | --- |
| Reporting for one-year period | From: Click or tap to enter a date. | To: Click or tap to enter a date. |

|  |  |  |  |
| --- | --- | --- | --- |
| Admissions for Reporting Period | # | Average Daily Census [PR I.D.1.h)] | # |

|  |  |
| --- | --- |
| **Percent of patients requiring the following:** | **Percentages** |
| Mechanical ventilation | # % |
| Hemodialysis | # % |
| Pulmonary artery catheters | # % |

| **Percent of admissions for:** | **Percentages** |
| --- | --- |
| Burns | # % |
| Cardiac surgery | # % |
| Cardiology | # % |
| General medicine | # % |
| General surgery | # % |
| Neonatology | # % |
| Neurology or neurological surgery | # % |
| Obstetrics | # % |
| Pediatrics | # % |
| Pulmonary | # % |
| Transplant surgery | # % |
| Trauma | # % |
| Vascular surgery | # % |
| Other | # % |
| Other | # % |

2. Describe the availability of the following facilities to support the educational needs of the fellows: [PR 1.8.a.]

1. Meeting space

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| --- |
| Click or tap here to enter text. |

b) Conference facilities

|  |
| --- |
| Click or tap here to enter text. |

c) Space for academic activities

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| Click or tap here to enter text. |

d) Access to computers

|  |
| --- |
| Click or tap here to enter text. |

3. Indicate where the following tests are performed. If these tests are not available, check N/A. [PR 1.8.c.1.]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **In ICU** | **In Hospital** | **Outside Lab** | **N/A** |
| Blood chemistry tests |[ ] [ ] [ ] [ ]
| Blood gases and pH |[ ] [ ] [ ] [ ]
| Culture and sensitivity |[ ] [ ] [ ] [ ]
| Toxicology |[ ] [ ] [ ] [ ]
| Plasma drug concentrations |[ ] [ ] [ ] [ ]

4. Briefly describe how fellows will have access to all radiologic studies and their interpretation within the ICU environment, utilizing electronic data systems such as Picture Archiving and Communication Systems. [PR 1.8.e.]

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| Click or tap here to enter text. |

5. Indicate whether ultrasound equipment to perform diagnostic assessment for the following procedures is available at each ICU used in the program. [PR 1.8.e.1.]

|  | **Site #1** | **Site #2** | **Site #3** | **Site #4** |
| --- | --- | --- | --- | --- |
| Thoracentesis |[ ] [ ] [ ] [ ]
| Paracentesis |[ ] [ ] [ ] [ ]
| Vascular access (i.e., peripherally-inserted central catheters, central catheter placement, and arterial cannulation) |[ ] [ ] [ ] [ ]
| Comprehensive ultrasound evaluation, including echocardiography and focused assessment with sonography examinations (i.e., fast scans) |[ ] [ ] [ ] [ ]

**Critical Care Unit Data (for each unit)**

Duplicate this page as needed. Provide for each unit: name, location, and proximity to OR. The Critical Care Unit Data should be provided **for each unit that is used in the program**. It is not necessary to list or provide data for any of the other units in the hospital if they are not used as part of the critical care program. Duplicate tables as necessary.

|  |  |
| --- | --- |
| Name of Unit: Click or tap here to enter text. | Site #: Click or tap here to enter text. |
| Physical Relationship to OR(s): Click or tap here to enter text. |
| Medical Director (if not the CCM program Director): Click or tap here to enter text. |
| Name: Click or tap here to enter text. |
| Primary Specialty Board Certification: Click or tap here to enter text. |
| Specialty: Click or tap here to enter text. | Date: Click or tap to enter a date. |
| Critical Care Certification: [ ] YES [ ]  NO | Date: Click or tap to enter a date. |
| Certifying Board: Click or tap here to enter text. |

|  |  |
| --- | --- |
| Name of Unit: Click or tap here to enter text. | Site #: Click or tap here to enter text. |
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| Specialty: Click or tap here to enter text. | Date: Click or tap to enter a date. |
| Critical Care Certification: [ ] YES [ ]  NO | Date: Click or tap to enter a date. |
| Certifying Board: Click or tap here to enter text. |

|  |  |
| --- | --- |
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| Name: Click or tap here to enter text. |
| Primary Specialty Board Certification: Click or tap here to enter text. |
| Specialty: Click or tap here to enter text. | Date: Click or tap to enter a date. |
| Critical Care Certification: [ ] YES [ ]  NO | Date: Click or tap to enter a date. |
| Certifying Board: Click or tap here to enter text. |

**Personnel**

**Program Director**

1. Describe how the fellowship program director will collaborate with the anesthesiology residency program director to clearly define and differentiate the lines of responsibility and clinical competencies expected of the anesthesiology residents and the fellows. [PR 1.11.a.] (Limit response to 400 words)

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| Click or tap here to enter text. |

1. Describe how the program director will ensure that the fellowship is coordinated with and does not compromise any of the requirements of the core residency. [PR 1.11.b.] (Limit response to 400 words)

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| Click or tap here to enter text. |

**Other Program Personnel**

Will the following health care personnel participate in the care of patients to optimize the multidisciplinary nature of the program? [PR 2.12.a.]

a) Nurses with qualifications and experience in critical care medicine [ ]  YES [ ]  NO

b) Advanced practice providers [ ]  YES [ ]  NO

c) Pharmacists [ ]  YES [ ]  NO

d) Respiratory therapists [ ]  YES [ ]  NO

c) Nutritionists [ ]  YES [ ]  NO

d) Case managers [ ]  YES [ ]  NO

**Educational Program**

**ACGME Competencies**

**Patient Care and Procedural Skills**

1. Indicate the settings and activities in which fellows will demonstrate competence in evaluating and treating patients in each of the categories listed below. Also indicate the method(s) that will be used to assess competence.

| **Competency Area** | **Settings/Activities** | **Assessment Method(s)** |
| --- | --- | --- |
| Providing clinical care and consultation, under the direction and supervision of faculty members, in evaluating a patient’s medical condition, determining the need for critical care services, and, as appropriate, formulating a plan of care[PR 4.4.a.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Incorporation of ethical aspects of critical care medicine into practice[PR 4.4.a.1.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and management of cardiovascular dysfunction[PR 4.4.a.2.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and management of pulmonary dysfunction[PR 4.4.a.3.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and management of sepsis and septic shock[PR 4.4.a.4.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and management of renal dysfunction, to include techniques for renal replacement therapies[PR 4.4.a.5.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and management of hematologic disorders, to include coagulopathies[PR 4.4.a.6.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and treatment of hepatic dysfunction[PR 4.4.a.7.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Evaluation and management of central and peripheral nervous system dysfunction[PR 4.4.a.8.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Management of life-threatening medical illness, to include oncologic, dermatologic, and endocrinologic illnesses[PR 4.4.a.9.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Indications for and interpretation of laboratory results[PR 4.4.a.10.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Psychiatric implications of critical illness[PR 4.4.a.11.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Palliative and end-of-life care[PR 4.4.a.12.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Routine incorporation of standards of care and established guidelines or procedures for patient safety and error reduction[PR 4.4.a.13.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Demonstration of patient management and psychomotor (procedural) skills required for the practice of the subspecialty[PR 4.4.a.14.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Coordinating care across medical specialties, as appropriate, to communicate patient status, plans of care, and the long-term needs of each patient to other health care practitioners, and to collaborate in the management of the critically ill patient[PR 4.4.b.] | Click or tap here to enter text. | Click or tap here to enter text. |

1. Indicate the settings and activities in which fellows will demonstrate proficiency in procedural skills and sound clinical judgment in the care of patients with complex medical and surgical conditions. Also indicate the method(s) that will be used to assess competence.

| **Proficiency Area** | **Settings/Activities** | **Assessment Method(s)** |
| --- | --- | --- |
| Airway maintenance and management, to include flexible bronchoscopic approaches to the airway for both diagnostic and therapeutic purposes[PR 4.5.a.1.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Indications for and performance of bronchoscopic procedures, such as bronchoalveolar lavage and pulmonary toilet [PR 4.5.a.2.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Indications for and placement of emergency front-of-neck airway access [PR 4.5.a.3.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Invasive and non-invasive ventilatory support[PR 4.5.a.4.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Techniques for and therapeutic treatment of conditions requiring thoracentesis and/or tube thoracotomy when indicated[PR 4.5.a.5.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Diagnosis and indications for mechanical support of the circulation or respiratory system, to include extracorporeal membrane oxygenation (ECMO), [PR 4.5.a.6.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Cardiopulmonary resuscitation (CPR)[PR 4.5.a.7.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Placement and management of arterial, central venous, and pulmonary arterial catheters[PR 4.5.a.8.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Emergent and therapeutic placement of pacemakers[PR 4.5.a.9.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Fluid resuscitation and management of massive blood loss[PR 4.5.a.10.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Prescribing enteral and total parenteral nutrition[PR 4.5.a.11.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Ultrasonography (to include image acquisition, interpretation, and calculations) for (TTE) and (TEE), lung ultrasonography, abdominal ultrasonography [PR 4.5.a.12.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Facilitation of invasive catheter placement, diagnostic studies, and therapeutic interventions (e.g., paracentesis, thoracentesis) relevant to the critically ill patient[PR 4.5.a.13.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Pain management, sedation, and anxiolysis for the critically ill patient[PR 4.5.a.14.] | Click or tap here to enter text. | Click or tap here to enter text. |

**Medical Knowledge**

Indicate the activity(ies) (lectures, conferences, journal clubs, clinical teaching rounds, etc.) in which fellows will demonstrate knowledge in those areas appropriate for a subspecialist in anesthesiology critical care medicine. Also indicate the method(s) that will be used to assess competence.

| **Area of Knowledge** | **Settings/Activities** | **Assessment Method(s)** |
| --- | --- | --- |
| Resuscitation [PR 4.6.a.1.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Cardiovascular physiology, pathology, pathophysiology, and therapy[PR 4.6.a.2.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Respiratory physiology, pathology, pathophysiology, and therapy[PR 4.6.a.3.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Renal physiology, pathology, pathophysiology, and therapy[PR 4.6.a.4.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Central and peripheral nervous system physiology, pathology, pathophysiology, and therapy[PR 4.6.a.5.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Pain management, sedation, and anxiolysis for critically ill patients[PR 4.6.a.6.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Recognition and management of altered states of consciousness, to include delirium[PR 4.6.a.7.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Metabolic and endocrine effects of critical illness[PR 4.6.a.8.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Infectious disease physiology, pathology, pathophysiology, and therapy[PR 4.6.a.9.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Primary hematologic disorders and hematologic disorders secondary to critical illness[PR 4.6.a.10.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Transfusion therapy[PR 4.6.a.11.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Gastrointestinal, genitourinary, obstetric, and gynecologic disorders[PR 4.6.a.12.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Trauma, to include burn management[PR 4.6.a.13.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Monitoring equipment for the care of critically ill patients and basic concepts of bioengineering, to include the principles of ultrasound, Doppler, and other medical imaging techniques relevant to critical care medicine[PR 4.6.a.14.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Palliative and end-of-life care[PR 4.6.a.15.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Pharmacokinetics and dynamics, to include drug metabolism and excretion in critical illness[PR 4.6.a.16.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Coordination of transport and triage of critically ill patients[PR 4.6.a.17.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Coordination of care for the patient with multisystem failure requiring evaluation and management by a diverse group of practitioners[PR 4.6.a.18.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Administrative and management principles, to include triage, resource utilization, and rationing of limited resources[PR 4.6.a.19.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Understanding about the value and use of critical care electronic health records and integration with other medical record systems[PR 4.6.a.20.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Understanding medical informatics, biostatistics. and the use of artificial intelligence and machine learning relevant to critical care medicine[PR 4.6.a.21.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Understanding the use of tele-critical care services[PR 4.6.a.22.] |  |  |
| Cost-effective care[PR 4.6.a.23.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Ethicaland legal issues related to the care of critically ill patients, to include surrogate decision-making, advance directives, and management of disagreements between practitioners and patients regarding resource use[PR 4.6.a.24.] | Click or tap here to enter text. | Click or tap here to enter text. |
| Psychiatric implications of critical illness[PR 4.6.a.25.] | Click or tap here to enter text. | Click or tap here to enter text. |
| ICU management, to include: [PR 4.6.a.26.] |
| Development and implementation of policies and procedures related to ICU administration (admission, discharge, etc.)[PR 4.6.a.26.a] | Click or tap here to enter text. | Click or tap here to enter text. |
| Development and implementation of evidence-based approaches to clinical care and clinical guidelines to optimize patient outcomes and minimize needless variations in care delivery[PR 4.6.a.26.b] | Click or tap here to enter text. | Click or tap here to enter text. |
| Regulatory requirements that apply to critical care units, including those of The Joint Commission and other regulatory agencies[PR 4.6.a.26.c] | Click or tap here to enter text. | Click or tap here to enter text. |
| Financial aspects of ICU management and the implications for allocation of institutional resources and overall costs of care[PR 4.6.a.26.d] | Click or tap here to enter text. | Click or tap here to enter text. |
| Resource utilization, including personnel management and staffing patterns[PR IV.B.1.c).(1).(z).(v)] | Click or tap here to enter text. | Click or tap here to enter text. |
| Patient triage and coordination of care with other hospital units (acute care, transitional care, post-anesthesia care unit, etc.)[PR 4.6.a.26.e] | Click or tap here to enter text. | Click or tap here to enter text. |
| Quality of care, patient safety initiatives, and patient and family satisfaction[PR 4.6.a.26.g] | Click or tap here to enter text. | Click or tap here to enter text. |
| Risk stratification and outcome measurement, such as Acute Physiology and Chronic Health Evaluation (APACHE) and other scoring systems[PR 4.6.a.26.h] | Click or tap here to enter text. | Click or tap here to enter text. |

**Practice-based Learning and Improvement**

1. Briefly describe one planned quality improvement activity or project that will allow fellows to develop skills and habits 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 planning, implementation, evaluation, and provisions of faculty member support and supervision that will guide these processes. [PR 4.7. (Limit response to 400 words)

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| Click or tap here to enter text. |

**Interpersonal and Communication Skills**

1. Briefly describe one learning activity in which fellows demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals. [PR 4.8.] (Limit response to 400 words)

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|  |

**Systems-based Practice**

1. Briefly describe the learning activity(ies) through which fellows develop 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 in the system to provide optimal health care. [PR 4.9.] (Limit response to 400 words)

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| Click or tap here to enter text. |

**Curriculum Organization and Fellow Experiences**

1. Describe the educational programs and direct experience fellows will have in research methodology and interpretation of findings in published literature. [PR I4.11.b.]

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| --- |
| Click or tap here to enter text. |

2. Provide a list of the program’s planned didactic exercises. List the exercise, date, title, and whether the instructor/presenter was a faculty member, fellow, or guest lecturer. Add rows as necessary. [PR 4.11.c.]

| **Didactic Exercises** | **Date** | **Title** | **Instructor/Presenter** |
| --- | --- | --- | --- |
|  |  |  | **Anesthesia Faculty** | **Fellow** | **Guest Lecturer** |
| Subspecialty Conferences | Click or tap to enter a date. | Click or tap here to enter text. |[ ] [ ] [ ]
| Clinical Science Instruction | Click or tap to enter a date. | Click or tap here to enter text. |[ ] [ ] [ ]
| Basic Science Instruction | Click or tap to enter a date. | Click or tap here to enter text. |[ ] [ ] [ ]
| Morbidity and Mortality Conferences | Click or tap to enter a date. | Click or tap here to enter text. |[ ] [ ] [ ]
| Multidisciplinary Conferences | Click or tap to enter a date. | Click or tap here to enter text. |[ ] [ ] [ ]

Specify the conferences in which fellows are involved and describe the role of the fellow in planning, developing, and executing each conference category. [PR 4.11.c.2.]

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| Click or tap here to enter text. |

**Scholarship**

Describe the research opportunities for fellows related to critical care medicine. [PR 4.13.a.]

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| Click or tap here to enter text. |