**New Application:** **Hematology (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 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 Hematology. 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](mailto:acgme-i@acgme-i.org).

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

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| Program Name: Click here to enter text. |

**Table of Contents**

When the forms are completed, **number each page sequentially in the bottom center**. Report this pagination in the Table of Contents and submit this cover page with the completed application.

|  |  |
| --- | --- |
| **Advanced Specialty New Application** | **Page(s)** |
| **Int. Introduction** | # |
| Duration of Education | # |
| **I. Institution** | # |
| I.A. Sponsoring Institution | # |
| I.B. Participating Sites | NA |
| **II. Program Personnel and Resources** | # |
| II.A. Program Director | NA |
| II.B. Faculty | # |
| II.C. Other Program Personnel | # |
| II.D. Resources | # |
| **III. Fellow Appointment** | # |
| III.A. Eligibility Criteria | # |
| III.B. Number of Fellows | NA |
| **IV. Specialty-Specific Educational Program** | # |
| IV.A. ACGME-I Competencies | # |
| IV.B. Regularly Scheduled Educational Activities | # |
| IV.C. Clinical Experiences | # |
| IV.D. Scholarly Activity | NA |
| **V. Evaluation** | NA |
| **VI. The Learning and Working Environment** | # |
| ​​​​VI.A. Principles | NA |
| ​​​​VI.B. Patient Safety | NA |
| ​​​​VI.C. Quality Improvement | NA |
| ​​​​VI.D. Supervision and Accountability | ​​​​ # |
| ​​​​VI.E. Professionalism | NA |
| ​​​​VI.F. Well-Being | NA |
| ​​​​VI.G. Fatigue | NA |
| ​​​​VI.H. Transitions of Care | NA |
| ​​​​VI.I. Clinical Experience and Education | NA |
| VI.J. On-Call Activities | NA |
| Appendix A. Formal Didactic Sessions by Academic Year | # |

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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](mailto: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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**Other Program Personnel**

1. Will the program have access to physicians specializing in the following?
2. Dermatology YES NO
3. General surgery YES NO
4. Neurological surgery YES NO
5. Neurology YES NO
6. Obstetrics and gynecology YES NO
7. Orthopaedic surgery YES NO
8. Other surgical specialties, including oncology YES NO
9. Otolaryngology YES NO
10. Urology YES NO

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

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1. Will expertise in the following disciplines be available to the program to provide multidisciplinary patient care and fellow education?
2. Genetic counseling YES NO
3. Hospice and palliative care YES NO
4. Oncological nursing YES NO
5. Pain management YES NO
6. Psychiatry YES NO
7. Rehabilitation medicine YES NO

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

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**Resources**

1. Will radiation oncology facilities be available to the program? YES NO

Explain if ‘NO.’ (Limit 250 words)

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1. Will the following laboratory and imaging services be present and available to the program at the primary clinical site or at participating sites?
2. Blood banking YES NO
3. Cross sectional imaging, including computed tomography (CT) and magnetic resonance imaging (MRI) YES NO
4. Hematology laboratory YES NO
5. Immunopathology YES NO
6. Nuclear medicine imaging YES NO
7. Positron emission tomography (PET) scan imaging YES NO
8. Specialized coagulation laboratory YES NO
9. Transfusion and apheresis services YES NO

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

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1. Will there be a medical oncology clinical program with which the fellows can interact? YES NO

Explain if ‘NO.’ (Limit 250 words)

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1. What is the makeup of the patient population that will be available to the program, including patient numbers, ages, genders, and types of hematological disorders? (Limit 350 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 the following?

Assessing hematologic disorders by CT, MRI, PET scanning, and nuclear imaging techniques

Care and management of geriatric patients with hematologic disorders

Care and management of venous access devices

Care of patients with human immunodeficiency virus (HIV)-related malignancies

Correlation of clinical information with cytology, histology, and immunodiagnostic imaging techniques

Providing consultations

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 evaluation and management of diagnosis, pathology, staging, and management of neoplastic disorders of the lymphoid organs and hematopoietic system?

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

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1. How will graduating fellows demonstrate competence in the following?
   * + - 1. Indications and application of imaging techniques in patients with neoplastic and blood disorders
         2. Intrathecal administration of chemotherapeutic agents
         3. Management and care of indwelling catheters
         4. Management of neutropenic and the immunocompromised patient
         5. Management of pain, anxiety, and depression in patients with hematologic disorders
         6. Multidisciplinary management of hematologic malignancies
         7. Palliative care, including hospice and home care

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

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1. How will graduating fellows demonstrate competence in the following?
2. Performance and interpretation of bone marrow aspiration and biopsy
3. Performance and interpretation of lumbar puncture and interpretation of cerebrospinal fluid
4. Performance of assessment and interpretation of complete blood count, including platelet and white call differential, by means of automated or manual techniques with appropriate quality control
5. Preparation staining and interpretation of blood smears, bone marrow aspirates, and touch preparations, as well as interpretation of bone marrow biopsies

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

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1. How will graduating fellows demonstrate competence in the following?
2. Rehabilitation and psychosocial care of patients with hematologic disorders
3. The role and use of hematologic, infectious disease, and nutrition support
4. Tests of hemostasis and thrombosis for both congenital and acquired disorders and regulation of antithrombotic therapy
5. Treatment and diagnosis of paraneoplastic disorders
6. Treatment of patients with acquired and congenital disorders of hemostasis and thrombosis, including the biochemistry and pharmacology of coagulation factor replacement therapy and use of antithrombotic therapy

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

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1. How will graduating fellows demonstrate competence in the following?
2. Use of chemotherapeutic agents and biological products through all therapeutic routes
3. Use of chemotherapeutic drugs, biologic products, and growth factors, as well as their mechanisms of action, pharmacokinetics, clinical indications, and limitations, including their effects, toxicity, and interactions
4. Use of multiagent chemotherapeutic protocols and combined modality therapy of hematologic malignancies

Describe how competence will be assessed in each of the areas listed. (Limit 300 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/procedures? (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of pathogenesis, diagnosis, and treatment of disease, including the following?
   1. Basic molecular and pathophysiologic mechanisms, diagnosis, and therapy of diseases of the blood, to include anemias, diseases of white blood cells, and stem cells
   2. Disorders of hemostasis and thrombosis for both congenital and acquired disorders and regulation of antithrombotic therapy

Describe how knowledge will be assessed in each of the areas listed. (Limit 250 words)

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1. How will graduating fellows demonstrate knowledge of genetics and developmental biology, including the following?
   1. Cytogenetics and the nature of oncogenes and their products
   2. Prenatal diagnosis where appropriate

Describe how knowledge will be assessed in each of the areas listed. (Limit 250 words)

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1. How will graduating fellows demonstrate knowledge of physiology and pathophysiology, including the following?
   1. Hematopoiesis
   2. Molecular mechanisms of hematopoietic and lymphopoietic malignancies
   3. Principles of oncogenesis
   4. Tumor immunology

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. Clinical epidemiology and biostatistics
   2. Clinical study and experimental protocol design, data collection, and analysis
   3. Basic principles of laboratory and clinical testing, as well as quality control, quality assurance, and competence standards
   4. Immune markers, immunophenotyping, flow cytometry, cytochemical studies, and cytogenetic and DNA analysis of neoplastic disorders
   5. Malignant and hematologic complications of organ transplantation
   6. Gene therapy

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

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1. How will graduating fellows demonstrate knowledge of the following?
   1. Effects of systemic disorders and drugs on the blood, blood-forming organs, and lymphatic tissues
   2. Indications for and complications of autologous and allogenic bone marrow or peripheral blood stem cell transplantation
   3. Principles of, indications for, and complications of peripheral stem cell harvests
   4. Principles of, indications for, and limitations of radiation therapy in the treatment of cancer
   5. Transfusion medicine, including the evaluation of antibodies, blood compatibility, and the indications for complications of blood component therapy and apheresis procedures

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

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1. How will graduating fellows demonstrate knowledge of the mechanisms of action, pharmacokinetics, clinical indications for, and limitations of chemotherapeutic drugs, biologic products, and growth factors, including their effects, toxicity, and interactions? (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 participate in the following?
   * + - 1. Multidisciplinary case management or tumor board conferences YES NO
         2. Protocol studies YES NO

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

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| Click here to enter text. |

1. Will fellows receive instruction in performance and interpretation of the following?
   * + - 1. Bleeding time YES NO
         2. Partial thromboplastin time YES NO
         3. Platelet aggregation YES NO
         4. Prothrombin time YES NO
         5. Tests of hemostasis YES NO

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

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1. List any other standard and specialized coagulation assays in which fellows will receive instruction.

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**Clinical Experiences**

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

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* + - 1. Will each fellow have one month of clinical experience in the following?
         1. Allogenic bone marrow transplantation YES NO
         2. Autologous bone marrow transplantation YES NO

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

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* + - 1. How will the program ensure that inpatient assignments are of sufficient duration to permit fellows’ continuing care of a majority of patients throughout their hospitalization? (Limit 350 words)

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1. How will the program ensure that fellows assume continuing responsibility for acutely and chronically ill patients in order to observe and manage both inpatients and outpatients with a wide variety of blood and neoplastic disorders, as well as the benefits and adverse effects of therapy? (Limit 400 words)

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1. Will fellows have experience in the following?
   * + - 1. Apheresis procedures YES NO
         2. Bone marrow or peripheral stem cell harvest for transplantation YES NO
         3. The role of the hematology consultant in inpatient settings YES NO
         4. The role of the hematology consultant in outpatient settings YES NO
         5. Training using simulation YES NO

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

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1. Will fellows have experience with performance and interpretation of the following?
   * + - 1. Bleeding time YES NO
         2. Partial thromboplastin time YES NO
         3. Platelet aggregation YES NO
         4. Prothrombin time YES NO
         5. Tests of hemostasis YES NO

Explain any ‘NO’ responses and list any other standard and specialized coagulation assays with which fellows will have experience. (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 hematology? 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 within hematology? 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 8-10. (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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| Click here to enter text. |

**The Learning and Working Environment**

**Duty Hour and Work Limitations**

How will 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 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 it 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-1  01. Introduction to Hematology  a) Seminar  b) Required Y-1  c) Survey of contemporary methods and styles of hematology, including approaches to clinical work with minority populations  d) Weekly, for 8 sessions  02. Departmental Grand Rounds  a) Discussion groups  b) 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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