**New Application: Renal Medicine (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 Renal Medicine. 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. |

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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. Will the renal medicine 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 teach and supervise fellows in the performance and interpretation of procedures? YES NO
      2. If ‘YES’ to Question 1 above, will this be documented in each fellow’s record? YES NO

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

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* + - 1. If ‘YES’ to Question 2 above, will 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. Will there be a close working relationship with the following services?

1. Diagnostic radiology YES NO
2. Dietary and/or nutrition services YES NO
3. General surgery YES NO
4. Obstetrics and gynecology YES NO
5. Pathology YES NO
6. Psychiatry YES NO
7. Social services YES NO
8. Urology YES NO
9. Vascular surgery YES NO

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

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**Resources**

1. Using site numbers as assigned in ADS, indicate the resources that will be provided at each participating site. *Note that Site #1 is the primary clinical site and therefore is not included here.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resource** | **Site #1** | | **Site #2** | | **Site #3** | | **Site #4** | |
| YES | NO | YES | NO | YES | NO | YES | NO |
| Acute and chronic hemodialysis services |  |  |  |  |  |  |  |  |
| Biochemistry laboratory |  |  |  |  |  |  |  |  |
| Continuous renal replacement therapy service |  |  |  |  |  |  |  |  |
| Electron and immunofluorescence microscopy, and other special studies for the preparation and evaluation of renal biopsy material |  |  |  |  |  |  |  |  |
| Imaging services - computed tomography (CT) |  |  |  |  |  |  |  |  |
| Imaging services - diagnostic radionuclide laboratory |  |  |  |  |  |  |  |  |
| Imaging services - magnetic resonance imaging (MRI) |  |  |  |  |  |  |  |  |
| Imaging services - ultrasound |  |  |  |  |  |  |  |  |
| Peritoneal dialysis service |  |  |  |  |  |  |  |  |
| Renal biopsy service |  |  |  |  |  |  |  |  |
| Serologic laboratory |  |  |  |  |  |  |  |  |
| Surgical and pathological support for the modern practice of renal medicine (nephrology), including an active renal transplant service |  |  |  |  |  |  |  |  |
| Surgery for vascular and peritoneal dialysis access |  |  |  |  |  |  |  |  |

Explain if ‘NO’ for any resource at all sites. (Limit 300 words)

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1. Using site numbers as assigned in ADS, indicate the number of patients seen for the noted conditions and procedures during the last 12-month period for each site to which fellows will rotate. *Note that Site #1 is the primary clinical site.*

The patient numbers are for the period Click here to enter date. to Click here to enter date..

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| --- | --- | --- | --- | --- | --- |
| **Site Number** | **Acute Kidney Injury** | **End-Stage Renal Disease** | **Chronic Hemodialysis** | **Peritoneal Dialysis** | **Kidney Transplant** |
| Site #1 | # | # | # | # | # |
| Site #2 | # | # | # | # | # |
| Site #3 | # | # | # | # | # |
| Site #4 | # | # | # | # | # |
| Site #5 | # | # | # | # | # |
| Site #6 | # | # | # | # | # |
| Site #7 | # | # | # | # | # |
| Site #8 | # | # | # | # | # |

Describe any additional sites not indicated above, as well as patient numbers for the noted conditions and procedures. (Limit 300 words)

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**Fellow Appointment**

**Eligibility Criteria**

1. How will the program ensure that, prior to appointment, 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 fulfilling their professional responsibilities and adhering 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 in health promotion, disease prevention, diagnosis, care, and treatment 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 evaluation and management of the following?
2. Acute kidney injury
3. Chronic kidney disease
4. Disorders of fluid, electrolyte, and acid-base regulation
5. Disorders of mineral metabolism, including nephrolithiasis and renal osteodystrophy
6. Drug dosing adjustments and nephrotoxicity associated with alterations in drug metabolism and pharmacokinetics in renal disease
7. End-stage renal disease
8. Genetic and inherited renal disorders, including inherited diseases of transport, cystic diseases, and other congenital disorders
9. Geriatric aspects of renal medicine (nephrology)
10. Glomerular and vascular diseases, including the glomerulonephritides, diabetic nephropathy, and atheroembolic renal disease
11. Hypertensive disorders
12. Renal disorders of pregnancy
13. Renal transplant patients
14. Tubulointerstitial renal diseases
15. Urinary tract infections

Provide examples of how competence will be assessed in eight of the 14 areas listed. (Limit 800 words)

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1. How will graduating fellows demonstrate competence in the evaluation and management of the following?
2. Continuous renal replacement therapy
3. Dialysis therapy
4. Performance of acute and chronic hemodialysis
5. Peritoneal dialysis
6. Placement of temporary vascular access for hemodialysis and related procedures
7. Urinalysis

Provide examples of how competence will be assessed in four of the six areas listed. (Limit 400 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 these 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 the therapeutic procedures integral to the discipline, including the following?
2. Complications
3. Contraindications
4. Indications
5. Interpretation of results
6. Limitations
7. Techniques

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?
2. Appropriate indications for and use of screening tests and procedures
3. Clinical pharmacology, including drug metabolism, pharmacokinetics, and the effects of drugs on renal structure and function

Describe how knowledge will be assessed in each of the above. (Limit 300 words)

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1. How will graduating fellows demonstrate knowledge of dialysis and extracorporeal therapy, including the following?
2. Dialysis modes and their relation to metabolism
3. Dialysis water treatment, delivery systems, and reuse of artificial kidneys
4. The artificial membranes used in hemodialysis and biocompatibility
5. The indication for each mode of dialysis
6. The kinetic principles of hemodialysis and peritoneal dialysis
7. The principles of dialysis access (acute and chronic vascular and peritoneal), to include indications, techniques, and complications
8. The short- and long-term complications of each mode of dialysis and its management
9. Urea kinetics and protein catabolic rate

Provide examples of how knowledge will be assessed in five of the eight areas listed. (Limit 500 words)

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1. How will graduating fellows demonstrate knowledge of the following?
2. Immunologic aspects of renal disease
3. Indications for and interpretations of radiologic tests of the kidney and urinary tract
4. Normal and abnormal blood pressure regulation
5. Normal and disordered fluid, electrolyte, and acid-base metabolism
6. Normal mineral metabolism and its alteration in renal diseases, metabolic bone disease, and nephrolithiasis
7. Nutritional aspects of renal disorders
8. Pathogenesis, natural history, and management of congenital and acquired diseases of the kidney and urinary tract, and renal diseases associated with systemic disorders
9. Renal anatomy, physiology, and pathology

Provide examples of how knowledge will be assessed in five of the eight areas listed. (Limit 500 words)

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1. How will graduating fellows demonstrate knowledge of renal transplantation, including the following?
2. Biology of transplantation rejection
3. Indications and contraindications for renal transplantation
4. Principles of evaluation of transplant donors, both living and cadaveric, including histocompatibility testing
5. Principles of organ harvesting, preservation, and sharing
6. Principles of transplant recipient evaluation and selection
7. Psychosocial aspects of organ donation and transplantation
8. The pathogenesis and management of acute renal allograft dysfunction

Provide examples of how knowledge will be assessed in five of the seven areas listed. (Limit 500 words)

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1. How will graduating fellows demonstrate knowledge of the following?
2. Management of renal disorders in non-renal organ transplantation
3. Pharmacology of commonly used medications and their kinetic and dosage alteration with hemodialysis and peritoneal dialysis
4. Principles and practice of hemodialysis and peritoneal dialysis
5. Psychosocial and ethical issues of dialysis
6. Technology of hemodialysis and peritoneal dialysis

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 geriatric medicine, including the following?
2. Drug dosing and renal toxicity in elderly patients
3. Physiology and pathology of the aging kidney

Describe how knowledge in each area will be assessed. (Limit 300 words)

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**Practice-based Learning and Improvement**

1. How will graduating fellows 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 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 other 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 have formal instruction in indications for and interpretations of reports related to the following?
3. Balloon angioplasty of vascular access YES NO
4. Management of peritoneal catheters YES NO
5. Other procedures to maintain chronic vascular access patency YES NO
6. Radiology of vascular access YES NO
7. Renal imaging YES NO
8. Therapeutic plasmapheresis YES NO

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

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**Clinical Experiences**

* + - 1. How will the program ensure fellows have at least 12 months of clinical experience during the educational program? (Limit 300 words)

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* + - 1. Will fellows have at least four months of supervised experience in dialysis therapy during the educational program? YES NO

Explain if ‘NO.’ (Limit 250 words)

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* + - 1. If ‘YES’ to Question 2 above, will the experience include the following?
         1. Assessing dialysis adequacy YES NO
         2. Assessing hemodialysis efficiency YES NO
         3. Assessing peritoneal dialysis efficiency YES NO
         4. Determining special nutritional requirements of patients undergoing hemodialysis and peritoneal dialysis YES NO
         5. Evaluating and managing medical complications in patients during and between hemodialysis  
             YES NO
         6. Evaluating and managing medical complications in patients during and between peritoneal dialysis YES NO
         7. Evaluating and selecting patients for acute hemodialysis or continuous renal replacement  
             YES NO
         8. Evaluating end-stage renal disease patients for hemodialysis YES NO
         9. Evaluating end-stage renal disease patients for peritoneal dialysis YES NO
         10. Instructing patients regarding treatment options YES NO
         11. Long-term follow-up of patients undergoing hemodialysis therapy YES NO
         12. Long-term follow-up of patients undergoing peritoneal dialysis YES NO
         13. Managing end-of-life care and pain management YES NO
         14. Modification of drug dosing during hemodialysis and peritoneal dialysis YES NO
         15. Treating complications of hemodialysis YES NO
         16. Treating complications of peritoneal dialysis YES NO
         17. Writing a hemodialysis prescription YES NO
         18. Writing a peritoneal dialysis prescription YES NO

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

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* + - 1. Will fellows have at least two months of clinical experience on an active renal transplant service, including involvement in pre- and post-transplant care? YES NO

Explain if ‘NO.’ (Limit 250 words)

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| Click here to enter text. |

* + - 1. If ‘YES’ to Question 4 above, will the experience include the following?
         1. Clinical and laboratory diagnosis of all forms of rejection YES NO
         2. Evaluation and selection of transplant candidates YES NO
         3. Immediate post-operative management of transplant recipients, including administration of immunosuppressants to a minimum of 10 new renal transplant patients YES NO
         4. Management in the ambulatory setting for at least three months of at least 20 patients per fellow YES NO
         5. Medical management of rejection including immunosuppressive drugs and other agents

YES NO

* + - * 1. Pre-operative evaluation and preparation of transplant recipients and donors YES NO
        2. Psychosocial and ethical issues of renal transplantation YES NO
        3. Recognition and medical management of the surgical and non-surgical complications of transplants YES NO

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

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* + - 1. How will the program ensure each fellow sees at least 10 new renal transplant patients during the fellowship? (Limit 300 words)

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* + - 1. Will fellows’ clinical experiences include the following?
         1. Management of patients with renal disorders in the intensive care unit YES NO
         2. Simulation YES NO
         3. The role of renal medicine consultant in both inpatient and outpatient settings YES NO

Explain any ‘NO’ responses. (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 renal medicine? YES NO
      2. Will the experience described in Question 8 above include an appropriate distribution of patients of all genders and a diversity of ages? 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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**The Learning and Working Environment**

**Duty Hour and Work Limitations**

How will the program ensure 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 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:**

|  |
| --- |
| Y-1  01. Introduction to Renal Medicine  a) Seminar  b) Required Y-1  c) Survey of contemporary methods and styles of renal medicine, 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 Y-4  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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