



Nephrology Curriculum

NGMC- Family Medicine Residency Program
Gainesville, Ga

PGY: 2-3

Description of Rotation:

This is a 2-week block or elective nephrology experience with direct supervision by board certified Nephrologist. Supplemental longitudinal learning in the FMP supervised by Family Physician Faculty is also expected. Residents will attend consults in the hospital as well as see patients in nephrology clinic.

Overall Goals of Nephrology Rotation:

Renal disorders are commonly evaluated by family physicians. Disorders may be primarily renal in origin or systemic diseases that have profound secondary effects on the kidney, such as diabetes, vasculitides and atherosclerosis. Family physicians must be able to recognize, evaluate and initiate treatment for common renal disorders as well as understand the relationship between systemic processes and the kidney. Prevention of renal disease assumes paramount importance in decreasing the burden of chronic kidney disease. Occupational exposures in the dialysis unit to blood-borne pathogens such as Hepatitis B and C and HIV are discussed. The socioeconomic aspect of chronic kidney disease on overall health care spending is important for the resident to understand. Environmental, nosocomial iatrogenic causes of renal disease are considered including the use of contrast dye, drug induced renal disease and medication induced changes in initiating renal hemodynamics and drug disposition. The difficult ethical issues of withholding renal replacement therapy and discontinuing renal replacement therapy are encountered.

Patient Care Objectives and Competencies

- PC-1: Cares for Acutely ill or injured patients in urgent and emergent situations in all settings.
- PC-2: Cares for patients with chronic conditions.
- PC-3: Partners with the patient, family, and community to improve health through disease prevention and health promotion.
- PC-4: Partners with the patient to address issues of ongoing signs, symptoms, or health concerns that remain over time without clear diagnosis despite evaluation and treatment, in a patient-centered, cost-effective manner.

Objectives:

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families
- Gather essential and accurate information about their patients
- Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- Develop and carry out patient management plans
- Counsel and educate patients and their families
- Use information technology to support patient care decisions and patient education



- Perform competently all medical and invasive procedures considered essential for the area of practice
- Provide health care services aimed at preventing health problems or maintaining health
- Work with health care professionals, including those from other disciplines, to provide patient-focused care

Medical Knowledge Objectives and Competencies

- MK-1: Demonstrate medical knowledge of sufficient breadth and depth to practice family medicine.
- MK-2: Applies critical thinking skills in patient care.

Objectives:

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care. Residents are expected to

- Expand clinically applicable knowledge base of the basic and clinical sciences underlying the care of Cardiac patients.

Obtain comprehensive grasp of:

- Glomerulonephritis
 - Interstitial nephritis
 - Hereditary and congenital renal diseases-systemic diseases
 - Systemic diseases and their effect on the kidney
 - Preventive renal dysfunction by optimal treatment of systemic disorders
 - Acute renal failure
 - Chronic kidney disease
 - Kidney stones
 - Renal transplantation
 - Electrolyte and body fluid disorders
 - Acid base disorders
 - Hypertension and associated renal complications including their prevention
 - Hematuria
 - Proteinuria and the nephrotic syndrome
- Demonstrate an investigatory and analytic thinking approach to clinical situations
 - Know and apply the basic and clinically supportive sciences which are appropriate to their discipline

Interpersonal and Communication Skills Objectives and Competencies

- C-1: Develop meaningful, therapeutic relationships with patients and families.
- C-2: Communicates effectively with patients, families, and the public.
- C-3: Develops relationships and effectively communicates with physicians, other health professionals, and health care teams.
- C-4: Utilizes technology to optimize communication



Objectives:

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. Residents are expected to:

- Analyze practice experience and perform practice-based improvement activities using a systematic methodology
- Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems
- Obtain and use information about their own population of patients and the larger population from which their patients are drawn
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness
- Use information technology to manage information, access on-line medical information; and support their own education
- Facilitate the learning of students and other health care professionals

Practice Based Learning and Improvement Objectives and Competencies:

- PBLI-1: Locates, appraises, and simulates evidence from scientific studies related to the patients' health problems
- PBLI-2: Demonstrates self-directed learning
- PGLI-3: Improves systems in which the physician provides care

Objectives:

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value. Residents are expected to:

- Understand how their patient care and other professional practices affect other health care professionals, the health care organization, and the larger society and how these elements of the system affect their own practice
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources
- Practice cost-effective health care and resource allocation that does not compromise quality of care
- Advocate for quality patient care and assist patients in dealing with system complexities
- Know how to partner with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance

Professionalism Objectives and Competencies:

- PROF-1: Completes a process of professionalization
- PROF-2: Demonstrates professional conduct and accountability
- PROF-3: Improves systems in which the physician provides care

Objectives:

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Residents are expected to:

- Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that



supersedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development

- Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices
- Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities

Systems Based Practice Objectives and Competencies

- SBP-1: Provides cost-conscious medical care
- SBP-2: Emphasizes patient safety
- SBP-3: Advocates for individual and community health
- SBP-4: Coordinates team-based care

Objectives:

- Understand and utilize the multidisciplinary resources necessary to care optimally for the patients.
- Use evidence-based, cost-conscious strategies in the care of the patients.
- Understanding when to ask for help and advice from supervising physicians.
- Learning by participation in teaching conferences, and other educational activities.
- Effective collaboration with other members of the health care team
- Consideration of the cost-effectiveness of diagnostic and treatment strategies.