



Nephrology PGY: 2-3

NGMC- Family Medicine Residency Program Gainesville, Ga

Description of Rotation:

This is a 4-week block 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 Goal of Nephrology PGY2 /PGY3 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 bloodborne 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, and 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. Ethical issues of withholding renal replacement therapy and discontinuing renal replacement therapy will be discussed/encountered.

Rotation Location(s): Kidney Care Center NGMC - Gainesville

663 Lanier Park Dr 743 Spring St

Gainesville, GA 30501 Gainesville, GA 30501

Preceptor(s): Khaled Nass, MD Sohail Saleem, MD

Lalitha Bandi, MD Miriam P. Gentin, MD

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Montish Singla, MD

Sunitha Kalyanam, MD

Sample PGY 2-3 Rotation Schedule

M	Т	W	TH	F	Sat	Sun
Outpt/Inpt	FM clinic	FM Clinic	Outpt/Inpt	Outpt/Inpt	Call two	Call two
Nephrology			Nephrology	Nephrology	weekend/	weekend/
					month	month
Outpt/Inpt	FM Clinic	Didactic Half	Outpt/Inpt	Outpt/Inpt	Call two	Call two
Nephrology		Day	Nephrology	Nephrology	weekend/	weekend/
					month	month





Patient Ca	Patient Care:		
PGY level	By the end of the rotation:		
2-3	Identifies screening and prevention guidelines by various organizations (PC-1)		
2-3	Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment. (PC-1)		
2-3	Develop and carry out patient management plans for acute conditions (PC-2)		
2-3	Prioritize the differential diagnosis for acute presentations (PC-2)		
2-3	Identifies variability in presentation and progression of chronic diseases (PC-3)		
2-3	Identifies and accesses appropriate clinical guidelines to develop and implement plans for management of chronic conditions (PC-3)		
2-3	Identifies the impact of chronic conditions on individual patients and others involved in their care (PC-3)		
2-3	Develops a differential diagnosis for patients with undifferentiated illness (PC-4)		

Medical Kr	nowledge Objectives and Competencies		
PGY level	By the end of the rotation:		
2-3	Evaluate and Manage: (MK-1)		
	a. Glomerulonephritis		
	b. Interstitial nephritis		
	c. Hereditary and congenital renal diseases-systemic diseases		
	d. Systemic diseases and their effect on the kidney		
	e. Preventive renal dysfunction by optimal treatment of systemic disorders		
	f. Acute renal failure		
	g. Chronic kidney disease		
	h. Kidney stones		
	i. Renal transplantation		
	j. Electrolyte and body fluid disorders		
	k. Acid base disorders		
	 Hypertension and associated renal complications including their prevention 		
	m. Hematuria		
	n. Proteinuria and the nephrotic syndrome		
2-3	Identifies how behavior impact health. (MK-1)		
2-3	Use serum creatinine concentration to estimate Glomerular Filtration Rate (GFR); explain the		
	assumption of steady-state concentration; and discuss shortcomings of creatinine-based methods		
	of estimating GFR. Discuss the physiological concept of clearance; apply this to GFR, principles		
	governing solute clearance by dialysis, and handling of medications by the kidney. (MK-3)		
2-3	Identify the fundamental renal mechanisms underlying regulation of Na+, K+, H+, and H2-3O. (MK-		
	3)		
2-3	Identify the role of the kidney in blood pressure regulation and identify the relationships between		
	hypertension and renovascular disease. (MK-2)		
2-3	Identify chronic kidney disease as an indication for aggressive cardiovascular risk factor reduction (MK-2)		





Interperso	Interpersonal and Communication Skills		
PGY level	By the end of the rotation:		
2-3	Develop rapport and builds therapeutic relationships with patients (C-1)		
2-3	Sensitively and compassionately delivers medical information, managing patient/family values, goals, preferences, uncertainty, and conflict. (C-1)		
2-3	Identifies barriers to effective communication. (C-1)		
2-3	Clearly and concisely requests/responds to a consultation (C-2)		
2-3	Communicate effectively with all non-physician members of the health care team to assure comprehensive and timely care of patients. (C-2)		
2-3	Uses electronic medical record to communicate updated and concise information in an organized format (C-3)		

Systems Ba	Systems Based Practice Objectives and Competencies		
PGY level	By the end of the rotation:		
2-3	Demonstrates of common patient safety events and how to report these events (SBP1)		
2-3	Performs effective transitions of care/hand off in routine clinical situations (SBP-2)		
2-3	Effective collaboration with other members of the health care team, including residents at all levels, medical students, nurses, clinical pharmacists, occupational therapists, physical therapists, nutrition specialists, patient educators, social workers, case managers, and providers of home health services to advocate for patients (SBP-2)		
2-3	Engage with patients in shared decision making, informed by each patient's payment models (SBP-3)		

Practice Based Learning and Improvement Objectives and Competencies		
PGY level	By the end of the rotation:	
2-3	Commitment to professional scholarship, including systematic, critical perusal of relevant print and	
	electronic literature, with emphases on integration of basic science with clinical medicine, and	
	evaluation of information considering principles of evidence-based medicine (PBLI-1)	
2-3	Self reflects, analyzes and institutes behavioral changes to narrow the gap between expectations	
	and actual performance (PBLI-2)	
2-3	Designs and implements a learning plan, with prompting (PBLI-2)	
2-3	Willingness and ability to incorporate faculty feedback into clinical/academic performance and	
	participate in system change (PBLI-2)	

Professionalism Objectives and Competencies		
PGY level	By the end of the rotation:	
2-3	Display professionalism through integrity, altruism and resolving conflict of interest. (PROF-1)	
2-3	Understand ethical concepts of confidentiality, consent, autonomy and justice. (PROF-1)	
2-3	Performs task and responsibilities in a timely manner with appropriate attention to detail in	
	complex situations (PROF –2)	
2-3	Proposes a plan to optimize personal and professional well-being, with guidance (PROF-3)	
2-3	Willingness to acknowledge errors when committed and perform self-analysis to avoid future	
	similar mistakes (PROF-3)	





Teaching Methods		
Outpatient Clinic	Faculty Role Modeling	
Inpatient Rounds and Grand Rounds when applicable	Supervised Clinical Management	
Didactic	Self-Guided Study	

Procedures/Skills Taught (PC5)	
Bladder catheterization	IV access when applicable

Supervision/Evaluation:

Resident will work one-on-one and be supervised by board certified Nephrologists. While the resident will interact with several health care providers, supervision of patient care, behavior and diagnostic interpretations will be provided by the preceptor. The faculty preceptor will directly observe patient care and the performance of all procedures.

Assessment Methods		
Direct Observation	Case Log	
End of Rotation Evaluation	Evaluation of Journal Club	

EPA's

(EPA 2-3) Care for patients and families in multiple settings (PC 1, 2-3, 3, 4,5)

(EPA 6) Evaluate and manage undifferentiated symptoms and complex conditions (MK 1, 2-3)

(EPA 7) Diagnose and manage chronic medical conditions and multiple co-morbidities (SBP 1, 2, 4)

(EPA 9) Diagnose and manage acute illness and injury (PBL 1, 3)

Resources: Required Reading

https://www.aafp.org/afp/2-3019/0615/p751.html

https://www.aafp.org/afp/2-3017/12-315/p776.html

https://www.aafp.org/afp/2-3012-3/0401/p705.html

https://www.mdcalc.com/mdrd-gfr-equation

http://pbfluids.com/the-electrolyte-book/ (downloadable)