MED 995J: Nephrology Consult

Course Director: Ruth Campbell, MD
Email: campberc@musc.edu

Course Coordinator: Mary Ann Snell
Telephone #: 843-792-7282
Email: snellma@musc.edu

BLOCK	#	BLOCK	#	BLOCK	#	BLOCK	#
Block 1A	1	Block 3A	1	Block 5A	1	Block 7A	1
Block 1B	1	Block 3B	1	Block 5B	1	Block 7B	1
Block 1C	1	Block 3C	1	Block 5C	1	Block 7C	1
Block 2A	1	Block 4A	1	Block 6A	1	Block 8A	1
Block 2B	1	Block 4B	1	Block 6B	1	Block 8B	1
Block 2C	1	Block 4C	1	Block 6C	1	Block 8C	1

COURSE DESCRIPTION:
Students rotating on the Nephrology Consult Service will care for patients with Acute Kidney Injury (AKI) and End Stage Renal Disease in the hospital, with an emphasis on evaluation, diagnosis, and management of AKI. Students will be expected to attend at least one ambulatory clinic per week to understand and participate in the care of the patient with Chronic Kidney Disease (CKD). Preparation for renal replacement therapy, including dialysis and transplant, in addition to the mechanics of dialysis, will be emphasized. Students will rotate with the nephrology consult teams at the main hospital and/or at Ashley River Tower and the renal transplant team. Students will rotate at the VA Clinic weekly; **active VA logins and codes are required before starting rotation.**

LEARNING GOALS & OBJECTIVES: At the completion of this clinical rotation students should be able to do the following:
1. Complete an evaluation for Acute Kidney Injury, interpret lab/radiological studies, and synthesize a differential diagnosis. (MK1, MK3, MK4, MK5, MK7, PC1, PC2, PC3, CS1).
2. Describe the steps involved in urine microscopy and interpretation of urine microscopy in patients with AKI. (MK5, PC7)
3. Describe the indications for dialysis therapy and the mechanics of different modes of dialysis. (MK5, MK6, PC3, PC5, PR2, PL2)
4. Evaluate and treat hypo/hypernatremia, hypo/hyperkalemia, acidosis and alkalosis. (MK1, MK2, MK3, MK4, MK5, MK7, PC1, PC2, PC3, PC6, CS1, CS2, CS3, CS4)
5. Discuss the treatment and public health significance of Chronic Kidney Disease and hypertension. (MK1, MK2, MK3 MK4, MK5, MK6, PC1, PC2, PC3, PC4, PC5, PC6, PL6, SL1)
6. Demonstrate the correct technique of urine analysis and describe its clinical importance. (MK5, PC7)
7. Describe the basic evaluation of patients for renal transplantation. (MK1, MK3, MK4, MK5, MK7, MK8, PC3, PC 4, PC 5, PC 6, CS1, CS2, PD1, PD 6)
8. Evaluate AKI and transplant complications in renal transplant patients. (MK1, MK3, MK4, MK5, MK7, MK8, PC1, PC2, PC3, CS1, CS2, CS3, CS4, PD1, PD 6)

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES: Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:
1. Students will evaluate patients both in hospital and in clinic and present patients orally to the attending physician to attain feedback on presenting cohesively, on their ability to synthesize information, and their skill in providing a well thought out plan.
2. Students are expected to continue independent scholarly activity by reading journal articles and/or books pertinent to their patients.
3. The nephrology faculty and fellows on service will be actively involved in team based teaching during the rounds.
4. The faculty and fellows on service dedicate time outside patient care activities to provide didactic sessions involving but not restricted to AKI, CKD, transplantation, electrolyte and acid base problems and dialysis.
5. Students are encouraged to read the textbook, *Nephrology in 30 Days* (Reilly & Perazella). Book is available through Mary Ann Snell.

PATIENT ENCOUNTERS: Students will be expected to work-up patients with these specified conditions:
1. Acute Kidney Injury
2. Acute Glomerulonephritis
3. Electrolyte Disorders – hyponatremia, hypernatremia, hyperkalemia
4. Proteinuria and microscopic hematuria
5. Acid Base Disturbances
6. End stage renal disease – management of medical problems associated with ESRD
7. Hospitalized renal transplant patients with AKI or with complications of renal transplantation.

EVALUATION / FEEDBACK METHODS: Students will be evaluated using the following methods:
1. E*Value Clinical Performance Evaluation.
2. Completion of Urinalysis Laboratory Module.
3. Students will be evaluated at the end of the rotation on knowledge, professionalism, and patient care by the fellow and attending.

Will students be expected to participate in call? ☐ YES ☒ NO