

Renal Module Goals - Revised 2019

Module Goal	With respect to the following systems/processes	School of Medicine Sub-competency	Disciplines
RMR.A Recognize the normal structures and explain the function of the renal and male reproductive systems.	Mechanisms of glomerular filtration Mechanisms for volume, potassium, acid base and mineral homeostasis Micturition and continence Male reproductive functions Normal anatomy and histology of the genitourinary and male reproductive tracts	2.1.1 Demonstrate knowledge of the normal structure, metabolism, and function of the molecules that compose the human body. 2.1.2 Demonstrate knowledge of normal cellular structure and function of the human body 2.1.4 Demonstrate knowledge of normal structure and function of human organ systems. 2.1.5 Demonstrate knowledge of the mechanisms that maintain homeostasis	Anatomy Biochemistry Histology Physiology Pathology
RMR.B Construct a framework for understanding common diseases and disorders of the renal and male reproductive system that incorporates epidemiology, pathogenesis, and pathophysiology.	Glomerular diseases Electrolyte disorders Acid-Base disorders Acute kidney injury Secondary hypertension Incontinence Obstructive uropathy Genitourinary malformations Urinary tract infections Male sexual disorders Genitourinary tract tumors	1.7.1 Demonstrate an understanding of economic factors that impact health 1.7.5 Demonstrate an understanding of environmental factors that impact health 1.7.6 Demonstrate an understanding of how lifestyle impacts health 2.2.1 Demonstrate knowledge of the abnormal structure, metabolism, and function of the molecules that compose the human body. 2.2.2 Demonstrate knowledge of abnormal cellular structure and function of the human body. 2.2.4 Demonstrate knowledge of abnormal structure and function of human organ systems. 2.2.5 Demonstrate knowledge of the mechanisms that disrupt homeostasis 2.6.1 List the epidemiologic factors that place a person or population at risk for a common condition or disorder	Microbiology Pathology Physiology Genetics Child Health Adult Medicine

		2.6.2 List the epidemiologic factors that affect transmission or development of a common condition or disorder.	
RMR.C Synthesize biomedical information including clinical and laboratory data in order to diagnose common diseases and disorders of the renal and male reproductive systems	Glomerular diseases Electrolyte disorders Acid-Base disorders Acute kidney injury Secondary hypertension Incontinence Obstructive uropathy Genitourinary malformations Urinary tract infections Male sexual disorders Genitourinary tract tumors	2.3.1 Given a common condition or disorder, list the symptoms a patient might experience. 2.3.2 Given a common condition or disorder, list the findings that might be identified on physical exam. 2.3.3 Given a common condition or disorder, list the findings that might be identified on laboratory analysis. 3.4 Perform basic interpretation of commonly used diagnostic tests 3.6.2 Given a patient with a particular chief complaint, medical history, and physical exam findings, list an appropriate differential diagnosis. 3.6.3 Given a patient whose history and physical exam lead to particular differential diagnosis, list the initial studies that should be ordered, including laboratory, radiological and other studies or procedures 3.6.5 Utilize the information gained by history, physical exam, laboratory tests, radiology tests, and other studies or procedures to determine an appropriate diagnosis	Microbiology Adult Health Pathology Epidemiology Child Health Radiology Biochemistry Genetics Physiology
RMR.D Employ prevention and treatment strategies for common diseases and disorders of the renal and male reproductive systems	Prevention and treatment strategies for diseases listed above Pharmacotherapeutic agents for treatment of: Hypertension and volume overload (RAAS antagonists and diuretics); Urinary conditions including incontinence, and BPH; Male sexual dysfunction • Mechanism of action • Clinical indications • Adverse effects	2.4.1 Demonstrate knowledge of basic pharmacologic principles. 2.4.2 List the routine medications that might be used to manage a common condition or disorder 2.6.3 List the strategies to control and prevent a common condition or disorder	Pharmacology Adult Health Child health

RMR.E Apply the principles of shared decision making	Initiation of Dialysis	1.1 List and define the basic principles guiding ethical decision making 1.2.2 Apply models of ethical decision making to common medical ethical dilemmas. 1.3.2 Demonstrate an understanding of the importance of behaviors indicative of respect for human dignity. 1.7.2 Demonstrate an understanding of psychosocial factors that impact health. 1.7.3 Demonstrate an understanding of cultural factors that impact health.	Adult Health Ethics
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