Renal System

The renal system consists of the kidneys, ureters, bladder and urethra, and, along with responsibility for removing nitrogenous waste, is the major system for regulation of fluid and electrolyte balance in the body. As such, it has a major effect on blood pressure regulation. This course will cover the normal function of the system at all levels, from the molecular to the organ level, as well as common and important abnormalities of both form and function. Diagnosis and treatment of disorders will be discussed as well. Clinical presentations selected for how common they are in the clinical setting and their effect on patients will frame the course.

Clinical Presentations

- Hypertension
- Fluid and Electrolyte Disturbances
- Acid/Base Disorders
- Edema
- Polyuria and Dysuria
- Renal Calculi
- Renal Mass
- Proteinuria
- Hematuria
- Acute Renal Failure
- Chronic Renal Failure

Source: Wikimedia Commons