

Urinary System

Anatomy & Physiology of Urinary System

Overview

- As the body breaks down protein for energy, nitrogenous waste- urea, ammonia, and creatinine- is produced.
- The urinary system 1) forms urine, 2) **balances fluid and electrolytes**, 3) balances pH, 4) excretes waste products, 5) **regulates blood pressure**, 6) creates red blood cells (**erythropoiesis**) , and 7) activates vitamin D , elevating calcium.
- **Vitamin D helps absorption of calcium. (Calciferol)**



Overview

- Consists of two kidneys, two ureters, the bladder, and urethra.
- **Kidneys:** removes waste, excess water, and electrolytes from the blood and concentrate them in the urine.
- **Bladder:** collects and stores urine.
- **Urethra:** transports urine from bladder to outside of the body.

Kidneys

- Lies parietal peritoneum, below diaphragm, each side of vertebral column; dark red, bean-shaped, 4-5 inch long, 1 inch thick; **right kidney lies slightly lower than left**; surrounded by adipose tissue; renal artery, renal vein, and ureter exit the kidney at the hilum; adrenal glands sit atop each kidney.

Gross Anatomic Structure

- The strong outer layer of connective tissue is the renal capsule. Beneath it is the renal cortex, containing 1.25 million renal tubules. **Next is the medulla (darker color)**. The medulla contains triangular pyramids; the narrow points are the papillae, which empties urine into the calyces. The calyces are cuplike extensions in renal pelvis. The renal pelvis is the upper end of the ureter.



Microscopic Structure (Nephron)

- Each kidney contains more than 1 million nephrons (a microscopic funnel with a long stem and two convoluted sections. **It filters the blood and processes urine by: 1) controlling body fluid levels by selectively removing or retaining water, 2) helps regulate pH of the blood, 3) removes toxic waste from the blood. It filters the entire blood supply approximately 60 times per day.**

Microscopic Structure (Nephron)

- The renal arteries enter each kidney at the hilum. Renal arteries continue branching inside the kidney until blood is delivered to the glomerulus by an afferent arteriole. The filtered blood leaves the

Biology 12 Urinary System Study Guide Answers

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Bladder cancer is one of the most common urological diseases with a high mortality rate and poor prognosis. It is currently ranked as the 10th most common malignancy worldwide. The majority of bladder cancer patients have been found to be diagnosed with non muscle invasive bladder cancer (NMIBC) and the remaining are diagnosed with muscle invasive bladder cancer (MIBC). Although there have been advances in the treatment and therapies provided for bladder cancer patients, the survival rate remains low primarily due to recurrence and metastasis of the disease following treatment. Surgical treatment is currently the most common form, including radical cystectomy, which is the standard form of treatment combined with neoadjuvant chemotherapy. However, the 5-year overall survival rate is 50%. Therefore, further studies are required to understand the molecular mechanisms involved in the progression of bladder cancer and identify novel biomarkers to act as a diagnostic tool for patients. There have been many studies involving the detection of biomarkers in bladder cancer in addition to monitoring disease recurrence to understand the impact and predict potential outcomes. A variety of urine biomarkers have been developed to detect bladder cancer and prognostic risk stratification, including mutational DNA and the levels of RNA expression. Circulating tumor cells have also been identified as a potential biomarker for bladder cancer patients. However, there are significant challenges as bladder cancer has demonstrated high levels of cellular and molecular heterogeneity, and some markers do not have sufficient sensitivity for accurate detection. Therefore, further studies are required to continue to identify new novel biomarkers for bladder cancer. The aim of this Research Topic is to discuss novel biomarkers in bladder cancer and how it impacts the disease progression and the survival rate for bladder cancer patients.

Books in Print Supplement, 1985 *Subject Guide to Books in Print*, 2001

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