

15

THE URINARY SYSTEM

Metabolism of nutrients by body cells produces various wastes such as carbon dioxide and nitrogenous wastes (creatinine, urea, and ammonia), as well as imbalances of water and essential ions. The metabolic wastes and excesses must be eliminated from the body. Essential substances are retained to ensure proper body functioning.

Although several organ systems are involved in excretory processes, the urinary system bears the primary responsibility for removing nitrogenous wastes from the blood. In addition to this purely excretory function, the kidneys maintain the electrolyte, acid-base, and fluid balances of the blood. Thus, kidneys are major homeostatic organs of the body. Malfunction of the kidneys leads to a failure of homeostasis, resulting (unless corrected) in death.

Student activities in this chapter are concerned with identification of urinary system structures and with examining urine composition and physiological processes involved in urine formation. It also focuses on the composition of the body's fluid compartments and the water, electrolyte, and acid-base balance of these compartments.

1. Complete the following statements by inserting your answers in the answer blanks.

1. Nitrogenous
2. Water
3. Acid-base
4. Kidney
5. Urea
6. poisonous
7. urinary bladder
8. urethra

The kidney is referred to as an excretory organ because it excretes (1) wastes. It is also a major homeostatic organ because it maintains the electrolyte, (2), and (3) balance of the blood. Urine is continuously formed by the (4) and is routed down the (5) by the mechanism of (6) to a storage organ called the (7). Eventually the urine is conducted to the body exterior by the (8). In males, this tube-like structure is about (9) inches long; in females, it is approximately (10) inches long.

9. 9
10. 4-5

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Human Anatomy & Physiology Elaine Nicpon Marieb, Katja Hoehn, 2007 With each edition of her top selling Human Anatomy Physiology text Elaine N Marieb draws on her own unique experience as a full time A P professor and part time nursing student to explain concepts and processes in a meaningful and memorable way With the Seventh Edition Dr Marieb has teamed up with co author Katja Hoehn to produce the most exciting edition yet with beautifully enhanced muscle illustrations updated coverage of factual material and topic boxes new coverage of high interest topics such as Botox designer drugs and cancer treatment and a comprehensive instructor and student media package *Human Anatomy and Physiology* Elaine N. Marieb, 1989 *Anatomy & Physiology* Elaine Nicpon Marieb, 2002 KEY MESSAGE Anatomy Physiology Third Edition answers the demand for a leaner version of Elaine Marieb and Katja Hoehn s Human Anatomy Physiology with less in depth coverage of pregnancy heredity and the developmental aspects of various body systems while keeping basic themes such as homeostatic imbalances strategically in place This revised edition includes major updates to the content and figures based on current research findings Organization of the Body The Human Body An Orientation Chemistry Comes Alive Cells The Living Units Tissues The Living Fabric For all readers interested in Human Anatomy Physiology **Clinical Skills: The Essence Of Caring** Iggulden, Helen, Macdonald, Caroline, Staniland, Karen, 2009-03-01 Organised around the DoH Essence of Care framework this book covers the compulsory clinical skills curriculum based on care benchmarks It also considers the related professional issues and underpinning basic anatomy and physiology to take an holistic approach to the importance of delivering excellent care **EBOOK: The Foundations of Emergency Care** Cliff Evans, Emma Tippins, 2006-12-16 it is refreshing to review a book that doesn t claim to include everything but literally provides a foundation by focusing upon key areas within Emergency Care to borrow that hackneyed phrase it does what it says on the tin Tim Barr Cardiff University UK The Foundations of Emergency Care is an accessible text that brings together both academic and clinical experts to combine coverage of the clinical skills and underpinning theoretical knowledge essential to practice within the modern emergency setting Using an evidenced based and protocol driven approach this clinical companion guides readers through a multitude of common patient scenarios to help them acquire essential skills in assessment and priority assignment in an emergency care setting Each chapter includes scenarios that utilise common emergency care presentations to clearly demonstrate how practitioners can identify critical illness at an early stage through understanding how disease and illness affect normal physiology and how this relates to the patient s clinical presentation This ability to critically analyse physical findings assists the practitioner in becoming a specialist and directly saves lives Key areas covered include Cardiac Emergencies including the new 2006 ALS guidelines Head Injuries Acute Surgical Emergencies Gynaecologic and Obstetric Emergencies Respiratory Distress Paediatric Emergencies Minor Trauma and Illness Major Trauma Acute Medical Emergencies The book also includes scenarios that cover the treatment of the elderly

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