

39-1 The Endocrine System

If you had to get a message to just one or two of your friends, what would you do? You might use the telephone. Wires running from your house to theirs would carry the message almost instantaneously. The telephone is a good way to reach a small number of people, but what if you wanted to get that same message to thousands of people? You might decide to broadcast it on the radio, sending the message in a way that made it possible to contact thousands of people at once.

Your nervous system works much like the telephone. Many impulses move swiftly over a system of wirelike neurons that carry specific messages from one cell to another. But another system, the endocrine system, does what the nervous system generally cannot.  **The endocrine system is made up of glands that release their products into the bloodstream. These products deliver messages throughout the body.** In the same way that a radio broadcast can reach thousands or even millions of people in a large city, the chemicals released by the endocrine system can affect almost every cell in the body. In fact, the chemicals released by the endocrine system affect so many cells and tissues that the interrelationships of other organ systems to one another cannot be understood without taking the endocrine system into account.

Hormones

The chemicals that “broadcast” messages from the endocrine system are called hormones. **Hormones** are chemicals released in one part of the body that travel through the bloodstream and affect the activities of cells in other parts of the body. Hormones do this by binding to specific chemical receptors on those cells. Cells that have receptors for a particular hormone are called **target cells**. If a cell does not have receptors or the receptors do not respond to a particular hormone, the hormone has no effect on it.

In general, the body’s responses to hormones are slower and longer-lasting than the responses to nerve impulses. It may take several minutes, several hours, or even several days for a hormone to have its full effect on its target cells. A nerve impulse, on the other hand, may take only a fraction of a second to reach and affect its target cells.

 **Figure 39-1**  The endocrine system releases hormones that affect the activities of other cells. Much of the increase in heart rate and breathing that the people are experiencing on this ride is due to the actions of hormones.



Guide for Reading



Key Concepts

- What is the function of the endocrine system?
- How does the endocrine system maintain homeostasis?

Vocabulary

hormone
target cell
endocrine gland
endocrine gland
protoglandin

Reading Strategy: Making Comparisons

As you read, list the differences and similarities between types of glands, and between types of hormones.

Section 39-1

1 FOCUS

Objectives

- 39.1.1** *State* the function of the endocrine system.
- 39.1.2** *Describe* hormones and glands.
- 39.1.3** *Explain* how the endocrine system maintains homeostasis.

Guide for Reading

Reading Strategy

Explain to students that the prefix *endo-* means “within” and that endocrine glands are glands that secrete substances into the bloodstream within the body. Ask: If *exo-* means “outside,” what do you think *exocrine glands* are? (Glands that secrete substances to the outside.) These substances pass out of the glands into ducts, which lead either directly to the outside of the body (sweat or milk ducts) or into internal structures (saliva and digestive enzymes).

Reading Strategy

Have students study the figures and read the captions to preview the material in the section. Suggest that they write down any questions they have about the material based on the figures and then try to find the answers as they read the section.

2 INSTRUCT

Hormones

Build Science Skills

Using Analogies. Help students understand the endocrine system by comparing it with familiar human relationships in which one person directs the actions of others—such as coach and team, conductor and orchestra members, traffic officer and motorists, and movie director and actors. Ask: How are these relationships similar to those of the endocrine system? (An endocrine gland is like a director; the hormones are like verbal or visual directions, and cells are like the people being directed.) 



SECTION RESOURCES

Print:

- **Teaching Resources**, Lesson Plan 39-1, Adapted Section Summary 39-1, Adapted Worksheets 39-1, Section Summary 39-1, Worksheets 39-1, Section Review 39-1
- **Reading and Study Workbook A**, Section 39-1
- **Adapted Reading and Study Workbook B**, Section 39-1

Technology:

- **iText**, Section 39-1
- **Transparencies Plus**, Section 39-1

Section 39 1 The Endocrine System

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Section 39 1 The Endocrine System:

Regenerative Medicine Gustav Steinhoff, 2013-03-20 The field of regenerative medicine has developed rapidly over the past 20 years with the advent of molecular and cellular techniques This textbook Regenerative Medicine From Protocol to Patient aims to explain the scientific knowledge and emerging technology as well as the clinical application in different organ systems and diseases International leading experts from four continents describe the latest scientific and clinical knowledge of the field of regenerative medicine The process of translating science of laboratory protocols into therapies is explained in sections on regulatory ethical and industrial issues This textbook is organized into five parts I Biology of Tissue Regeneration II Stem Cell Science and Technology III Tissue Engineering Biomaterials and Nanotechnology IV Regenerative Therapies and V Regulation and Ethics The textbook aims to give the student the researcher the health care professional the physician and the patient a complete survey on the current scientific basis therapeutical protocols clinical translation and practiced therapies in regenerative medicine

Perinatal Physiology Uwe Stave, 2013-06-29 Living Nature not dull Art Shall plan my ways and rule my heart Cardinal Newman Nature and Art 1868 One of the ineluctable consequences of growth in any field of science is that subjects of inquiry once established tend to give birth to subsubjects and that the subsubjects once established will in time undergo further mitotic division Not so many years ago problems surrounding the ietus and newly born infant lay in a realm almost to be described as a no man s land Obstetricians properly gave major consideration to understanding and learning about processes and disorders concerned with maternal health and safety The welfare of the infant was regarded as of secondary importance Pediatricians on their part hesitated to invade the nursery a sanctum regarded as belonging to the domain of the accoucheur And the pathologist enveloped in the mysteries of life and death in the adult found scant tim for the neonate and the placenta

Study Guide for Abrams' Clinical Drug Therapy Geralyn Frandsen, 2013-03-07 This study tool provides a wealth of activities to reinforce content from the text The activities accommodate many learning styles and promote the reader s ability to apply information in the patient care setting Applying Your Knowledge exercises challenge readers to develop critical thinking skills Mastering the Information exercises expand the reader s understanding of drug therapy and develop insight about client teaching needs NCLEX style multiple choice and alternate format questions offer opportunities to practice test taking skills

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Anatomy & Physiology with Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine - E-Book Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2022-03-21 A P may be complicated but learning it doesn t have to be Anatomy Physiology 11th Edition uses a clear easy to read approach to tell the story of the human body s structure and function Color coded illustrations case studies and Clear View of the Human Body transparencies help you see the Big Picture of A P To jump start learning each unit begins by reviewing what you have already learned and previewing what you are about to learn Short chapters simplify concepts with bite size chunks of information Conversational storytelling writing style breaks down information into brief chapters and chunks of information making it easier to

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Pediatric Acute Care Karin Reuter-Rice, Beth Bolick, 2011-07-22 This comprehensive textbook serves both as a reference for the practicing acute care pediatric nurse practitioners and as a resource for the acute care pediatric nurse practitioner in training Further it provides guidelines for the management of a pediatric patient in the emergent care and inpatient settings Ideally targeted at either the master s or doctorate level it functions as a primary textbook in the nursing practice pediatric nurse practitioner acute care curriculum Also included are formatted Standardized Procedures Practice Protocols for the acute care practice setting that can be adapted to the state and specific emergent and inpatient care setting Publisher description

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Surveillance, Epidemiology, and End Results Constance L. Percy, Ardyce J. Asire, 1981 **The Publishers' Trade List Annual**, 1979

Anesthesia Review Michelle Bowman-Howard, 2006-10-01 *Anesthesia Review* Second Edition is the ideal study aid for both the written and the oral board examinations in anesthesiology The first section presents board format questions in all the major areas of anesthesiology including physiology pharmacology regional anesthesia pain management and major organ systems The second section provides bulleted outline format answers that review the knowledge needed to answer the question correctly The third section contains cases to further prepare readers for oral boards This edition includes thoroughly updated information particularly on airway management pharmacology patient safety and quality assurance Questions and answers include references to the latest editions of standard anesthesiology textbooks

Lippincott's Textbook for Nursing Assistants Pamela J. Carter, Susan Lewsen, 2005 This textbook for nursing assistants will prepare students not only to function in the traditional nursing assistant role in nursing homes hospitals and home health but also will prepare students to advance their careers A nursing assistant student who uses this text will have a firm foundation by which to transition to an LPN and ultimately an RN role The text offers a compelling art program a direct conversational writing style and an emphasis on professionalism and humanism A back of book CD ROM includes an audio

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Committee on Veterans' Affairs, 1963

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