


## 35-2 The Nervous System

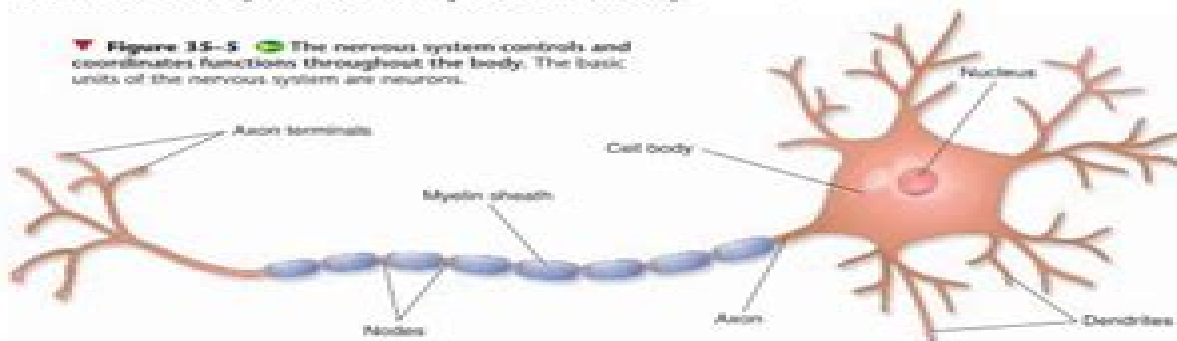
Play any team sport—basketball, softball, soccer—and you will discover that communication is one of the keys to success. Coaches call plays, players signal to one another, and the very best teams communicate in a way that enables them to play as a single unit. Communication can make the difference between winning and losing.

The same is true for living organisms. Nearly all multicellular organisms have communication systems. Specialized cells carry messages from one cell to another so that communication among all body parts is smooth and efficient. In humans, these cells include those of the nervous system.  **The nervous system controls and coordinates functions throughout the body and responds to internal and external stimuli.**

### Neurons

The messages carried by the nervous system are electrical signals called impulses. The cells that transmit these impulses are called **neurons**. Neurons can be classified into three types according to the direction in which an impulse travels. Sensory neurons carry impulses from the sense organs to the spinal cord and brain. Motor neurons carry impulses from the brain and the spinal cord to muscles and glands. Interneurons connect sensory and motor neurons and carry impulses between them. Although neurons come in all shapes and sizes, they have certain features in common. **Figure 35-5** shows a typical neuron. The largest part of a typical neuron is the **cell body**. The cell body contains the nucleus and much of the cytoplasm. Most of the metabolic activity of the cell takes place in the cell body.

 **Figure 35-5**  The nervous system controls and coordinates functions throughout the body. The basic units of the nervous system are neurons.



### Guide for Reading



#### Key Concepts

- What are the functions of the nervous system?
- How is a nerve impulse transmitted?

#### Vocabulary

neuron  
cell body  
dendrite  
axon  
myelin sheath  
resting potential  
action potential  
threshold  
synapse  
neurotransmitter

#### Reading Strategy:

**Summarizing** As you read, find the main ideas for each paragraph. Write down a few key words from each main idea. Then, use the key words in your summary.

## Section 35-2

### 1 FOCUS

#### Objectives

**35.2.1** Identify the functions of the nervous system.

**35.2.2** Describe how a nerve impulse is transmitted.

### Guide for Reading

#### Vocabulary Preview



Tell students that the prefix *neuro-* comes from the Greek word for nerve. Ask: **What do you think the Vocabulary terms neuron and neurotransmitter mean?** (A neuron is a nerve cell; a neurotransmitter is a chemical that transmits messages from a neuron to another cell.)

#### Reading Strategy

As students read, they should look for Vocabulary words and Key Concepts in the captions and the text. Suggest that students include the Vocabulary words and Key Concepts in their summary.

## 2 INSTRUCT

#### Demonstration

Help students appreciate how quickly the cells of the nervous system communicate. Have a volunteer repeat a movement, such as nodding the head, at irregular intervals. Have another volunteer respond to the first movement with a different movement, such as raising a finger. Challenge the class to measure the time it takes for the second volunteer's nervous system to sense, interpret, and respond to the movement made by the first volunteer. (Students probably will find that the response time is too short to measure.)  

### Neurons

#### Use Visuals

**Figure 35-5** Point out the nucleus in the cell body. Name each of the other parts of the neuron, and have students locate them in the figure. Urge students to refer to the figure as they read about the parts of a neuron and how they are involved in the transmission of nerve impulses.



### SECTION RESOURCES

#### Print:

- Teaching Resources**, Lesson Plan 35-2, Adapted Section Summary 35-2, Adapted Worksheets 35-2, Section Summary 35-2, Worksheets 35-2, Section Review 35-2
- Reading and Study Workbook A**, Section 35-2
- Adapted Reading and Study Workbook B**, Section 35-2

#### Technology:

- iText**, Section 35-2
- Animated Biological Concepts DVD**, 48 Action Potential, 49 Synaptic Transmission
- Transparencies Plus**, Section 35-2

## Section 35 2 The Nervous System Answers

**Stanley Maloy, Kelly Hughes**



## **Section 35 2 The Nervous System Answers:**

**Neurological Rehabilitation - E-Book** Darcy Ann Umphred, Rolando T. Lazaro, Margaret Roller, Gordon Burton, 2013-08-07 Using a problem solving approach based on clinical evidence Neurological Rehabilitation 6th Edition covers the therapeutic management of people with functional movement limitations and quality of life issues following a neurological event It reviews basic theory and covers the latest screening and diagnostic tests new treatments and interventions commonly used in today s clinical practice This edition includes the latest advances in neuroscience adding new chapters on neuroimaging and clinical tools such as virtual reality robotics and gaming Written by respected clinician and physical therapy expert Darcy Umphred this classic neurology text provides problem solving strategies that are key to individualized effective care UNIQUE Emerging topics are covered in detail including chapters such as Movement Development Across the Lifespan Health and Wellness The Beginning of the Paradigm Documentation and Cardiopulmonary Interactions UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision pelvic floor dysfunction and pain A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Information Case studies use real world examples to promote problem solving skills Non traditional approaches to neurological interventions in the Alternative and Complementary Therapies chapter include the movement approach energy approach and physical body system approaches therapies Terminology adheres to the best practices of the APTA as well as other leading physical therapy organizations following The Guide to Physical Therapy Practice the Nagi model and the ICF World Health Model of patient empowerment Updated illustrations provide current visual references NEW chapters on imaging and robotics have been added Updated chapters incorporate the latest advances and the newest information in neuroscience and intervention strategies Student resources on an Evolve companion website include references with links to MEDLINE and more

**Workbook and Competency Evaluation Review for Mosby's Textbook for Long-Term Care Nursing Assistants - E-Book** Clare Kostelnick, 2019-03-10 NEW Exercises covering textbook chapter Getting a Job provide guidance on career management starting with how to obtain work after finishing schooling NEW Math exercises increase your familiarity with common formulas and calculations found on the job

Mosby's Textbook for Nursing Assistants - E-Book Leighann Remmert, 2024-08-14 Known for its comprehensive coverage readability and visual presentation Mosby s Textbook for Nursing Assistants 11th Edition helps prepare you to work in long term care acute care and subacute care settings and includes a practice scenario in each chapter to enhance your clinical judgment skills It s the most comprehensive text for CNA programs packed with step by step instructions for more than 100 procedures Lifespan coverage includes skills not only for adults and older residents but also for maternity and pediatric patients so you can be comfortable

working in a variety of care settings Shorter more focused chapters allow you to learn in manageable portions and an enhanced art program clarifies important concepts and procedural steps      **Biology** Joseph S. Levine, Kenneth R. Miller, 1998      **Cumulated Index Medicus** , 1994      **Brenner's Encyclopedia of Genetics** Stanley Maloy, Kelly Hughes, 2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics      **Lewis's Medical-Surgical Nursing** Diane Brown, Helen Edwards, Lesley Seaton, Thomas Buckley, 2017-03-25 Perfect for Undergraduate Nursing Students Postgraduate Specialist Nursing Pathways Advanced Medical Surgical Nursing TAFE Bachelor of Nursing Program Lewis s Medical Surgical Nursing Assessment and Management of Clinical Problems 4th Edition is the most comprehensive go to reference for essential information about all aspects of professional nursing care of patients Using the nursing process as a framework for practice the fourth edition has been extensively revised to reflect the rapid changing nature of nursing practice and the increasing focus on key nursing care priorities Building on the strengths of the third Australian and New Zealand edition and incorporating relevant global nursing research and practice from the prominent US title Medical Surgical Nursing 9Th Edition Lewis s Medical Surgical Nursing 4th Edition is an essential resource for students seeking to understand the role of the professional nurse in the contemporary health environment 49 expert contributors from Australia and New Zealand Current research data and Australian and New Zealand statistics Focus on evidence based practice Review

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Professor of Anesthesiology Neurosurgery Neurology and Physiology and Director Center for Neuroscience Research at Loma Linda University School of Medicine Loma Linda CA USA Dr Zhang is an internationally recognized expert working on drug development for hemorrhagic stroke

**Handbook of Epigenetics** Trygve O Tollefsbol, 2017-07-10 Handbook of Epigenetics The New Molecular and Medical Genetics Second Edition provides a comprehensive analysis of epigenetics from basic biology to clinical application Epigenetics is considered by many to be the new genetics in that many biological phenomena are controlled not through gene mutations but rather through reversible and heritable epigenetic processes These epigenetic processes range from DNA methylation to prions The biological processes impacted by epigenetics are vast and encompass effects in lower organisms and humans that include tissue and organ regeneration X chromosome inactivation stem cell differentiation genomic imprinting and aging The first edition of this important work received excellent reviews the second edition continues its comprehensive coverage adding more current research and new topics based on customer and reader reviews including new discoveries approved therapeutics and clinical trials From molecular mechanisms and epigenetic technology to discoveries in human disease and clinical epigenetics the nature and applications of the science is presented for those with interests ranging from the fundamental basis of epigenetics to therapeutic interventions for epigenetic based disorders Timely and comprehensive collection of fully up to date reviews on epigenetics that are organized into one volume and written by leading figures in the field Covers the latest advances in many different areas of epigenetics ranging from basic aspects to technologies to clinical medicine Written at a verbal and technical level that can be understood by scientists and college students Updated to include new epigenetic discoveries newly approved therapeutics and clinical trials

**Nancy Caroline's Emergency Care in the Streets Essentials Package** American Academy of Orthopaedic Surgeons (AAOS), 2022-07-29 Nancy Caroline's Emergency Care in the Streets Essentials Package includes Content Instruction Student Learning Materials Textbook Instructor Guide Practice Activities Audiobook Assessments Analytics Slides Only available when assigned by instructors Nancy Caroline's Emergency Care in the Streets Ninth Edition is the newest evolution of the premier paramedic education training program This legendary paramedic textbook was first developed by Dr Nancy Caroline in the early 1970s and transformed paramedic education Today lead editors Bob Elling and Barb Aehlert along with the American Academy of Orthopaedic Surgeons are proud to continue this legacy and set the new gold standard for the paramedics of tomorrow The Ninth Edition offers cutting edge evidence based content that meets or exceeds the most current scientific recommendations developed by the International Liaison Committee on Resuscitation ILCOR and the ECC Guidelines established by the American Heart Association and other resuscitation councils around the world Clear chapter objectives align with the 2019 National EMS Scope of Practice Model and 2021 EMS Education Standards Thoroughly reviewed by medical doctors and subject matter experts the Ninth Edition teaches students the technical skills required of today's paramedic while emphasizing other important professional attributes including critical

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**Fanaroff and Martin's Neonatal-Perinatal Medicine E-Book** Richard J. Martin,Avroy A. Fanaroff,Michele C. Walsh,2019-04-11 Trusted by physicians and advanced practice providers through ten standard setting editions Fanaroff and Martin s Neonatal Perinatal Medicine 11th Edition remains the reference of choice for expert multidisciplinary guidance on the management and evidence based treatment of problems in the mother fetus and neonate An expanded team of international authors led by Drs Richard J Martin Avroy A Fanaroff and Michele C Walsh of Rainbow Babies and Children s Hospital brings you up to date with advances in the control of nosocomial infections in preterm infants genetic disorders and birth defects the fetal origins of adult disease the late preterm infants and much more all designed to help you improve the quality of life and long term outcomes of your patients Helps you make informed clinical choices for each patient from diagnosis and treatment selection through post treatment strategies and management of complications with a dual focus on neonatology and perinatology Includes a new chapter on Social and Economic Contributors to Neonatal Outcome Features extensive updates and reorganization throughout with new Key Points at the end of each chapter Provides up to date evidence based content with more information on precision medicine and genetics Uses detailed full color illustrations that depict disorders in the clinical setting and explain complex information Remains the most comprehensive multidisciplinary text in the field an excellent source of information for every stage of your practice

**The Official Record of the United States Department of Agriculture** United States. Department of Agriculture,1933 **Oxford Textbook of Cognitive Neurology and Dementia** Masud Husain,Jonathan M. Schott,2018-10-29 Now in paperback this text covers the dramatic developments that have occurred in basic neuroscience and clinical research in cognitive neurology and dementia The text is based on the clinical approach to the patient and provides essential knowledge that is fundamental to clinical practice

**Pharmacology for Nurses** Mr. Rohit Manglik,2024-01-19 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 2-Volume Set - E-Book**

William R. Jarnagin, 2022-09-13 *Balancing basic science with information on everyday clinical practice* Blumgart's Surgery of the Liver Biliary Tract and Pancreas 7th Edition provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care. In two convenient volumes, Dr. William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know, including advances in diagnostic and surgical techniques, minimally invasive surgeries, new interventional diagnostic techniques, and all relevant diseases. This comprehensive practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time, curtail costs, and reduce overall recovery time for your patients. Presents cutting edge guidance on pathology, diagnostics, surgery, and non-operative intervention of the liver, biliary tract, and pancreas in one highly regarded authoritative reference. Covers all surgical approaches, both open and minimally invasive. Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform clinical decision making. Contains 161 chapters with updated references and additional figures, more than 1,500 illustrations in all. The imaging section has been reorganized to reflect a disease-based approach. Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases, perioperative management, interventional techniques, minimally invasive surgery, and robotics, and therapeutic advances for malignant disease. Features a section dedicated entirely to operative technique, plus a new historical chapter authored by Professor Jacques Belghitti: Hepatobiliary and Pancreatic Surgery: Historical Perspective.

**Understanding Pathophysiology - E-Book** Sue E. Huether, Kathryn L. McCance, 2013-12-27 Learn the essential concepts of pathophysiology and stay up to date on treatments, manifestations, and mechanisms of disease with *Understanding Pathophysiology* 5th Edition. Filled with vibrant illustrations and complemented by online resources that bring pathophysiology concepts to life, this easy-to-read text delivers the latest, most accurate information on the disease process across the lifespan, giving you the fundamental knowledge you need to move forward in your nursing education. Consistent presentation helps you better distinguish pathophysiology, clinical manifestations, and evaluation and treatment for each disease. More than 1,000 high-quality illustrations vividly depict clinical manifestations and cellular mechanisms underlying diseases. Lifespan coverage details age-specific conditions affecting pediatric, adult, and aging patients in great depth. Algorithms throughout the text clarify disease progression. Risk Factor boxes alert you to important safety considerations associated with specific diseases. Health Alert boxes highlight new developments in biologic research, diagnostic studies, preventive care, treatments, and more. Quick Check boxes test your retention of important chapter concepts. Did You Understand sections provide fast, efficient review of chapter content. Chapter outlines help you find specific information with ease. Chapter introductions explain why chapter content is important and how it fits into a broader health care context. Key terms are bolded throughout the text for fast, easy reference. Glossary of selected terms familiarizes you with the most difficult or important terminology. Companion Evolve website provides convenient online access to animations.



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**Textbook of Contemporary Neurosurgery (Volumes 1 & 2)** Vincent A Thamburaj, 2012-08-31 This two volume set is a comprehensive guide to neurosurgery Each section covers neurological disorders in different parts of the body beginning with an introduction and ending with key practice points for quick review integrating theory and practice Genetics ethics and physiotherapy are also discussed With contributions from recognised specialists in the USA and Europe this practical manual includes more than 1000 images and illustrations to assist learning and understanding Key Features Comprehensive two volume set giving complete review of field of neurosurgery Covers numerous neurological disorders in different parts of the body Each section feature key practice points for quick review Integrates theory and practice More than 1000 images and illustrations Contributions from US and European specialists

*Harrison's Principles of Internal Medicine, 18th Edition* Dan Longo, Anthony Fauci, Dennis Kasper, Stephen Hauser, J. Jameson, Joseph Loscalzo, 2011-07-21 The most trusted textbook in medicine featuring the acclaimed Harrison's DVD with 57 additional chapters and exclusive video and tutorials Now presented in TWO VOLUMES As reviewed by JAMA With the 18th edition Harrison's Principles of Internal Medicine retains its standing as a definitive clinical reference and remains an outstanding foundation for any physician or physician in training In many regards Harrison's remains synonymous not just with internal medicine but with medicine in general The editors of the 18th edition have skillfully balanced tradition with the desire and need for innovation The result is a book that remains as fundamental to current medical practice as the first edition was in 1949 JAMA Extensively revised and expanded by the world's leading physicians Harrison's Principles of Internal Medicine 18e continues to set the standard as the pinnacle of current medical knowledge and practice offering the definitive review of disease mechanisms and management CURRENT All chapters have been completely updated to reflect the latest knowledge and evidence and important new chapters have been added including Systems Biology in Health and Disease The Human Microbiome The Biology of Aging and Neuropsychiatric Illnesses in War Veterans CONNECTED Harrison's covers more global aspects of medicine than any other textbook and features such chapters as Global Issues in Medicine by Jim Yong Kim Paul Farmer and Joseph Rhatigan and new to the 18th edition Primary Care in Low and Middle Income Countries COMPREHENSIVE No other resource delivers coverage of disease mechanisms and management like Harrison's including world renowned chapters on HIV AIDS STEMI and non STEMI myocardial infarction cancer biology multiple sclerosis and diabetes The Harrison's Multi Media DVD Better Than Ever The Harrison's DVD has been expanded to include an extensive video demonstration of the neurological physical examination and video tutorials on how to perform essential clinical procedures including Thoracentesis Abdominal Paracentesis Endotracheal Intubation Central Venous

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