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- Brief questions after each main section act as mini-reviews and reinforce students’ recall of core concepts.

Barbara Janson Cohen, BA, MSEd
September 2008
Softbound, 8.5” x 11”
617 pages, 470 illustrations
ISBN: 978-0-7817-9073-4
Hardbound ISBN: 978-0-7817-6577-0

CLICK HERE to view a sample chapter.
Compelling case scenarios translate clinical information to true-to-life situations.

NEW! Brief chapter-opening stories draw students in by highlighting chapter content and showing how disease may affect the body.

Disease in Context

Sue's Second Case: The Importance of Myelin

Drs. Jensen glanced at her patient's chart as she entered the consulting room to see her. Sue, a 20-year-old woman, had been referred to her by her family physician. According to her chart, Sue had presented with muscle and sensory deficits, which led her doctor to suspect she had multiple sclerosis. In addition to the deficits, her doctor had ordered a magnetic resonance imaging (MRI) of her brain and spinal cord. "As Sue's MS expert, I told her that the MRI scans showed that her spinal cord was affected. You can see that it is surrounded by bright yellow matter, which represents irregularities in the skin of the brain. The spinal cord is affected in this region, which is called 'yellow matter,' and this matter has been damaged. If you look closely at the white matter, you can see some damaged areas, which we call lesions. They are causing many of your symptoms because they prevent your spinal cord from transmitting impulses from your brain and the rest of your body. These lesions, or scarring, are what give multiple sclerosis its name."

The clinical and diagnostic evidence shows that Sue has multiple sclerosis—a disease of the central nervous system (CNS). In this chapter, we'll learn more about neurons and the spinal cord, one part of the CNS.

Disease in Context revisited

Sue Learns About Her MS

"Sue, I can't really answer the question of why you developed multiple sclerosis," Dr. Jensen explained to her patient. "There is evidence that the disease has a genetic component but it is environmental, and perhaps even a virus, might be involved. We do know that multiple sclerosis affects women more frequently than men, and is more prevalent in areas like the northern United States and Canada. We also know that MS is an autoimmune disease. Normally, immune cells travel through the brain and spinal cord looking for pathogens. In multiple sclerosis, the immune cells make a mistake and cause inflammation in healthy nervous tissue. This inflammatory response damages neural cells called oligodendrocytes. These cells form the myelin sheath that covers and protects the axons of neurons much like the plastic covering on an electrical wire. When the oligodendrocytes are damaged, they are unable to make the myelin sheath and the axons can't properly transmit nerve impulses. Right now, it appears that the largest area of demyelination is in the white matter tracts of your spinal cord."

"Is there a medication I can take to stop the disease?" asked Sue.

"Unfortunately," replied the doctor, "there isn't a cure for MS yet. But, we can slow down the disease's progression using anti-inflammatory drugs and therapies to decrease the inflammation and decrease the immune response."

During this case we saw that certain early symptoms and signs from the central nervous system require myelin sheath. Inflammation and subsequent damage of the myelin sheath in diseases like multiple sclerosis have profound effects on anatomy and motor function. For more information about the inflammatory response and inference, see Chapter 9. Sue visited the last time in Chapter 24, Development and Birth, and learn how the cope with her disease while pregnant.

NEW! Short end-of-chapter summaries explain outcomes to help students remember key concepts and improve understanding.
Vibrant artwork illustrates and clarifies key concepts.


Accurate line drawings show an appropriate level of detail to highlight important points.

Color photographs show what students might see in clinical situations.

Photomicrographs, radiographs, and other scans show students a preview of what they may encounter in real-world healthcare settings.

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Eye-catching icons and callouts provide additional key facts

**Clinical Perspectives** highlight what happens to the body when disease and disorders affect the normal structure-function relationship.

**Hot Topics** focus on newsworthy trends and current research.

**Health Maintenance** callouts offer practical health and wellness information.

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**Every chapter also includes these comprehension-boosting features…**

- Learning Outcomes
- Selected Key Terms
- Chapter Checkpoints
- “Zooming In” Questions
- Phonetic Pronunciations
- Easy-to-Review Tables
- Word Anatomy Charts
- Outline-Format Summaries
- Questions for Study and Review

---

**Box 19-2**

**Clinical Perspectives**

**Endoscopy: A View From Within**

Modern medicine has made great strides toward looking into the body without resorting to invasive surgery. An instrument that has made this possible in many cases is the endoscope.

In addition, endoscopes can be used to treat various conditions. Some surgeries can be done with an endoscope, such as polyp removal from the colon.

---

**Box 8-2**

**Hot Topics**

**Anabolic Steroids: Winning at All Costs?**

Anabolic steroids mimic the effects of the male sex hormone testosterone by promoting metabolism and stimulating growth. These drugs are legally prescribed to promote muscle regeneration and prevent atrophy from disuse after surgery. However, athletes also purchase them illegally, using them to gain an edge in competition. The most popular anabolic steroid is methandienone (Dianabol). Side effects include acne, hirsutism, liver damage, and psychological changes.

---

**Box 23-2**

**Health Maintenance**

**Sexually Transmitted Infections: Lowering Your Risks**

Sexually transmitted infections (STIs) such as chlamydia, gonorrhea, genital herpes, HIV, and syphilis are some of the most common infectious diseases in the United States, affecting more than 13 million men and women each year. These diseases are associated with complications such as infertility, and the development of female sex characteristics such as masculinization.

- Maintain a monogamous sexual relationship with an uninfected partner.
- Correctly and consistently use a condom. Although not 100% effective, condoms greatly reduce the risk of contracting an STI.

---

**Box 15-1**

**A Closer Look**

**Capillaries: The Body’s Free Trade Zones**

The exchange of substances between body cells and the blood occurs along about 50,000 miles (80,000 kilometers) of capillaries. Exchange rates vary, based on their structure, different types of capillaries vary in permeability.

Continuous capillaries are the most common type and are found in muscle, connective tissue, the lungs, and the central nervous system (CNS). These capillaries are composed of a continuous layer of endothelial cells. Adjacent cells are loosely attached to each other, with small openings called intercellular slits, between them. Although fenestrated (fen-es-tra-ted) capillaries are not entirely permeable, they contain many holes, or fenestrations, in the endothelial layer, which permits the exchange of water and dissolved substances, including small proteins.

Discontinuous capillaries, which are in addition to fenestrated capillaries, allow the vascular exchange of water and dissolved substances, including small proteins.
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Plus, these bonus online resources help instructors customize teaching methods to meet students’ needs...

- “Using Memmler’s PASSport to Success in Your Course” publication
- Access to a fully searchable textbook version online
- Full-color transparencies

Special senses that respond to chemicals.
(A) Organs of taste (gustation) and smell (olfaction).
(B) A taste map of the tongue.

Barbara Janson Cohen, BA, MSed
Kerry L. Hull, BSc, PhD
Softbound, 8.375" x 10.875"
278 pages
PASSport to Success’s unique design addresses individual learning styles to build confidence and proficiency.

Accessible online and on a bound-in textbook CD-ROM, this invaluable electronic resource...

- helps students identify whether they are primarily visual, auditory, or kinesthetic learners
- focuses students on the activities that best fit their learning style
- seamlessly integrates with the textbook and classroom instruction to make teaching easier.

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With 11 types of exercises, over 25 animations, and chapter pre-quizzes, students from a diversity of abilities and backgrounds will find the support to meet their needs.

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• Health Professions Career Information

CLICK HERE to see samples of interactive exercises and engaging videos

Key terms are pronounced slowly and clearly — with phonetic spellings included for reference.

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- Coloring and Labeling Exercises
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- Practical Application Scenarios

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Barbara Janson Cohen, BA, MEd
Kerry L. Hull, BSc, PhD
October 2008
Softbound, 8.375” x 10.875”
357 pages, 200 illustrations

Chapter 11: The Sensory System

5. Define refraction and list the refractive parts of the eye.

EXERCISE 11-5.
INSTRUCTIONS
List 4 eye structures that bend (refract) light in the spaces below.
1. 
2. 
3. 
4. 

6. Differentiate between the rods and the cones of the eye.

EXERCISE 11-6.
INSTRUCTIONS
Write the appropriate term in each blank below.

- optic disc
- cornea
- rhodopsin
- rod
- sclera
- fovea centralis

1. A vision receptor that is sensitive to color
2. The part of the eye that light rays pass through first as they enter the eye
3. Another name for the blind spot, the region where the optic nerve connects with the eye
4. The innermost coat of the eyeball, the nervous tissue layer that includes the receptors for the sense of vision
5. A vision receptor that functions well in dim light
6. A pigment needed for vision
7. The depressed area in the retina that is the point of clearest vision

7. Compare the functions of the extrinsic and intrinsic muscles of the eye.

EXERCISE 11-7: Extrinsic Muscles of the Eye (Text Fig. 11-6)
INSTRUCTIONS
1. Write the name of each labeled muscle on the numbered lines in different colors.
2. Color the different muscles on the diagram with the corresponding color.
1. 
2. 
3. 
4. 
5. 

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February 2009
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- Brief questions after each main section act as mini-reviews and reinforce students' recall of core concepts.

Table 13-3

<table>
<thead>
<tr>
<th>Chamber</th>
<th>Location</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right atrium</td>
<td>Upper right chamber</td>
<td>Blood arrives from the superior vena cava.</td>
</tr>
<tr>
<td>Right atrium</td>
<td>Lower right chamber</td>
<td>Blood arrives from the inferior vena cava.</td>
</tr>
<tr>
<td>Left atrium</td>
<td>Upper left chamber</td>
<td>Blood arrives from the pulmonary veins.</td>
</tr>
<tr>
<td>Left atrium</td>
<td>Lower left chamber</td>
<td>Blood arrives from the left atrium.</td>
</tr>
<tr>
<td>Right ventricle</td>
<td></td>
<td>Pump blood into the pulmonary arteries.</td>
</tr>
<tr>
<td>Left ventricle</td>
<td></td>
<td>Pump blood into the aorta.</td>
</tr>
</tbody>
</table>

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Barbara Janson Cohen, BA, MSEd
Jason James Taylor, BSc, MSc
October 2008
Softbound, 8.5" x 11"
471 pages, 269 illustrations
ISBN: 978-0-7817-6595-4
Information is sensibly organized by body system

Unit I: THE BODY AS A WHOLE
CH 1: Organization of the Human Body
CH 2: Chemistry, Matter, and Life
CH 3: Cells and Their Functions
CH 4: Tissues, Glands, and Membranes
CH 5: The Integumentary System

Unit II: MOVEMENT AND SUPPORT
CH 6: The Skeleton: Bones and Joints
CH 7: The Muscular System

Unit III: COORDINATION AND CONTROL
CH 8: The Nervous System: The Spinal Cord and Spinal Nerves
CH 9: The Nervous System: The Brain and Cranial Nerves
CH 10: The Sensory System
CH 11: The Endocrine System: Glands and Hormones

Unit IV: CIRCULATION AND BODY DEFENSE
CH 12: The Blood
CH 13: The Heart
CH 14: Blood Vessels and Blood Circulation
CH 15: The Lymphatic System and Body Defenses

Unit V: ENERGY: SUPPLY AND USE
CH 16: The Respiratory System
CH 17: The Digestive System
CH 18: Metabolism, Nutrition, and Body Temperature
CH 19: The Urinary System and Body Fluids

Unit VI: PERPETUATION OF LIFE
CH 20: The Male and Female Reproductive Systems
CH 21: Development and Heredity

Glossary
Glossary of Word Parts
Appendix 1: Metric Measurements
Appendix 2: Celsius-Fahrenheit Temperature Conversion Scale
Appendix 3: Periodic Table of the Elements
Appendix 4: Answers to “Chapter Checkpoint” and “Zooming In” Questions
Appendix 5: Dissection Atlas
Index
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A&P in Action

Ben’s Case: How a Tissue Failure Affects the Entire Body

In a park, a 12-year-old boy falls and sprains his ankle. The next day, he is seen by his pediatrician, who orders an X-ray. The pediatrician finds a fracture and refers the boy to a specializing surgeon.

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A&P in Action revisited

Ben’s Cystic Fibrosis

Ben's parents were shocked when the doctor diagnosed their 2-year-old son with cystic fibrosis. Their immediate concern was, of course, for Ben’s health. The doctor explained that, with proper treatment, Ben could lead a relatively normal life and that the future was bright, with many years ahead of him.

Cystic fibrosis (CF) is an inherited disease—Ben's parents both carry the genetic trait for the disease. Ben's diagnosis was confirmed by genetic testing of his DNA and both parents.

Although the exact cause is still unclear, abnormalities in the body’s ability to break down and absorb salt and certain other nutrients cause the problems associated with cystic fibrosis. People with CF have abnormally thick, sticky mucus in their lungs and digestive system. This makes it difficult for them to breathe and digest food.

During this case, you will learn about the body's organs, their functions, and the conditions that can affect them. You will also learn about the challenges of living with cystic fibrosis.
Vibrant artwork illustrates and clarifies key concepts

Accurate line drawings show an appropriate level of detail to highlight important points.

Photomicrographs, radiographs, and other scans show students a preview of what they may encounter in real-world healthcare settings.

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Kinesthetic

Visual

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- Concept Maps
- Practical Application Scenarios
- Matching Exercises
- Short-Essay Questions
- Multiple-Choice, Fill-in-the-Blank, and True-False Questions

Making the Connections

The following concept map deals with the body's cavities and their divisions. Complete the concept map by filling in the blanks with the appropriate word or phrase for the cavity, division, subdivision, or region.

1. The body is divided into two main cavities:
   - The thoracic cavity
   - The abdominal cavity

2. The thoracic cavity is divided into:
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