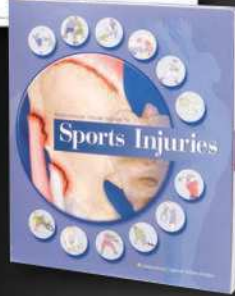
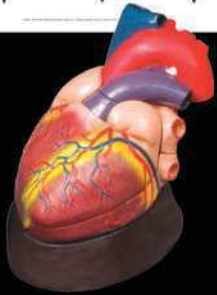


# ANATOMICAL CHART COMPANY



- Medical-quality charts, posters, models, study guides, and more
- Durable, lifelike, 3-dimensional replicas
- Accurate, comprehensive reference tools in every specialty area
- Clear, succinct, and appropriately labeled aids



Wolters Kluwer





## Table of Contents

- 4 Anatomical Charts & Posters
- 27 Anatomical Chart Collections
- 31 Reference Materials & Study Aids
- 35 Pediatric/Elementary Reference Materials
- 36 Alternative Therapy Resources
- 38 Nutrition Resources
- 39 Health Education Resources
- 41 Training Aids & Simulators
- 42 Anatomical Models
- 58 Skeletal Models
- 75 Gifts
- 76 Index

## Look for these icons for special values and features



**Newly Updated**  
resources that reflect new findings and enhancements



**Available in Spanish**  
to facilitate bilingual understanding



**Save!**  
special sets and collections at reduced prices



**Cross Reference**  
directions to additional, related resources

## Educate patients and staff easily and cost efficiently

with essential aids for every clinical setting. **Patients** take greater responsibility for their self care to diminish the likelihood of readmission. **Clinical personnel** rapidly advance their knowledge with inservice support that meets your highest quality standards. And you accomplish it all at a price point that fits easily within your budget.

**Clear, succinct, and appropriately labeled,** Anatomical Chart Company aids have proven their effectiveness with demanding professionals in every health care specialty — from empowering patients to make a greater investment in their health to preparing staff for challenging certification exams.

## Ordering is EASY!

- Click on the product image to enlarge and view additional details.
- Click Buy Now to add to your cart on the **LWW.com eStore**.
- Click the product ISBN to open a new browser window and purchase online at the **LWW.com eStore**.

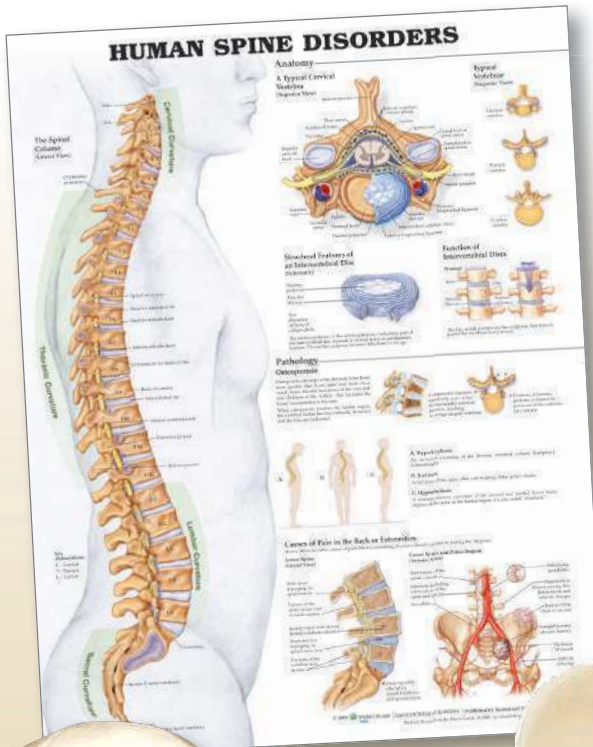
## Receive timely announcements right in your in-box.

Simply go to **LWW.com/updates** and register to receive e-mail notices of Web-only price reductions, new resources, and other exclusive opportunities.



*Choose from hundreds of lifelike 3-dimensional models, comprehensive reference tools, and novelties to enhance your classroom, office, or exam room today!*

# Essential Aids for Focused Learning, Rapid Comprehension, and Quick Reference



Human Spine Disorders Chart  
**See page 6**



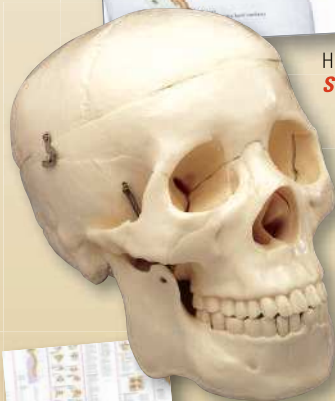
Budget Vertebral  
Column Model  
**See page 61**

Anatomical Chart Company helps you connect more effectively, whether you're teaching patients about disorders to achieve better compliance — or helping staff advance their knowledge and prepare for certification exams. Interactivity... vibrant, interesting colors... accuracy in every detail... and clear, succinct commentary help you meet your goals.

Choose from ...

- **full-color charts**
- **3-Dimensional models**
- **CD-ROMs**
- **pocket guides**
- **reference materials**
- **multi-lingual learning aids**
- **mobile device software**

...and more!



Budget Skull ..... **See page 64**



The Vertebral Column and Spine Disorders Study Guide,  
2nd Edition. .... **See page 31**

Classic Anthology of Anatomical Charts,  
8th Edition, 2-Volume Set ..... **See page 30**



Rapid Review Reference  
Guide Online  
Deliverable

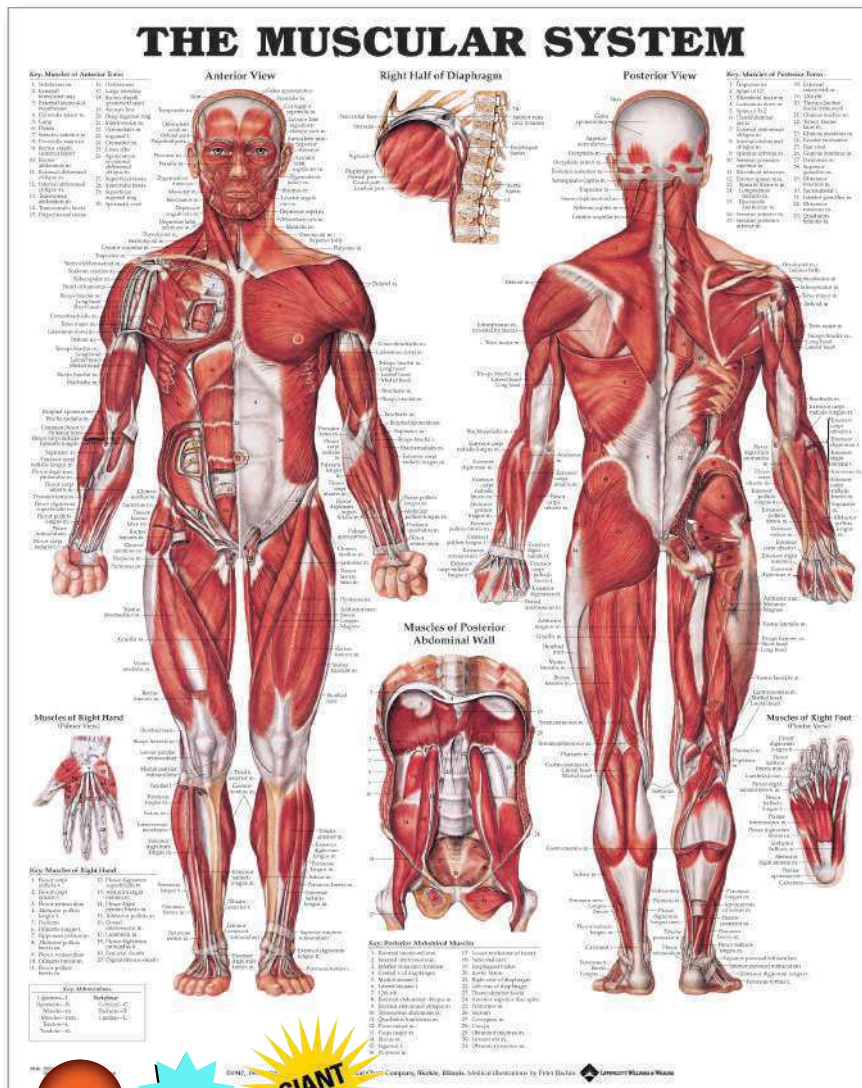
**See page 31**

Customers rate Anatomical  
Chart Company products



**"All the info  
you'll ever need!"**

Michael, Ireland



A.

Spanish

3-D

GIANT SIZE

- **Just the right level of detail** for medical professionals, patients, students, and other specialists
- **At-a-glance format** that speeds learning
- **Clearly labeled anatomical features** that eliminate confusion
- **Striking, colorful images** that capture and hold attention

- **Enlarged views** of key organs and structures
- **And each chart and model is comprehensive**, allowing for complete learning that's always enjoyable and accessible — never overwhelming.
- **Large Decal Chart** - large peel and stick decals are moveable and reusable



B.

Customers rate Anatomical Chart Company products

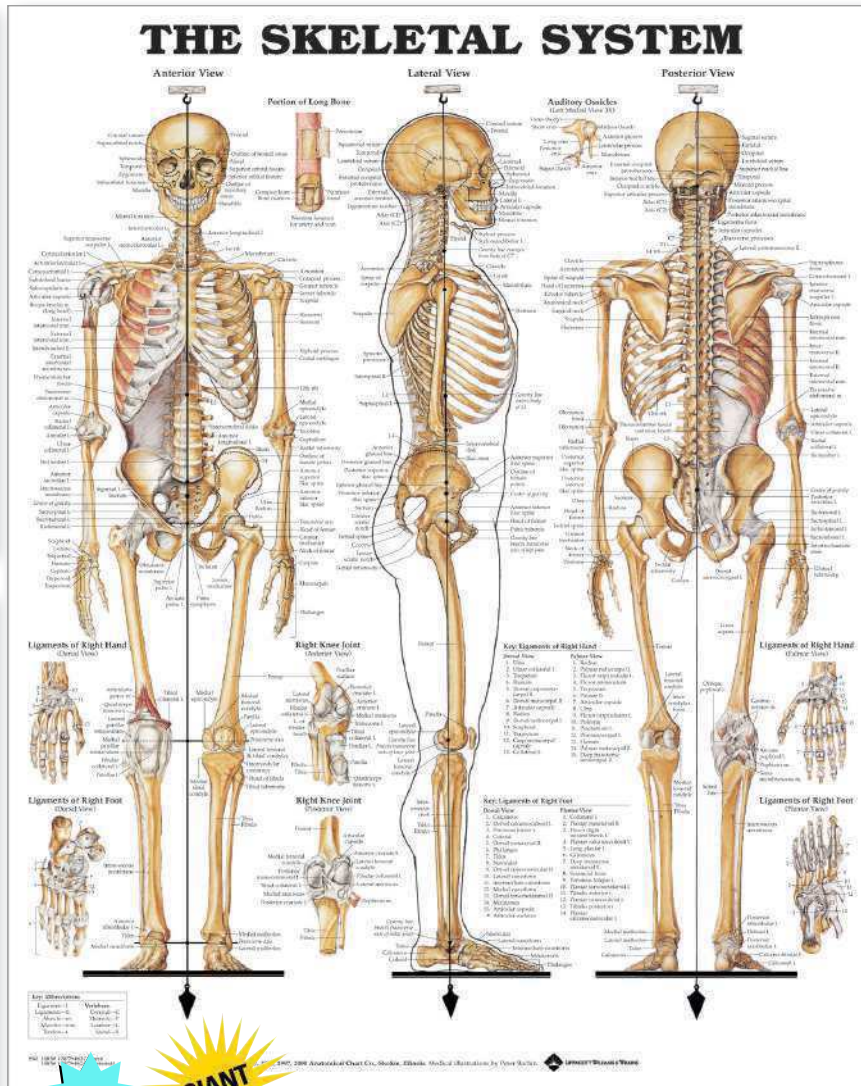


"Excellent!"

Jose, Puerto Rico

**Poster sizes and materials**

- **Heavy paper, 20" x 26"** (50.8cm x 66cm), is ideal for framing or tacking on a wall.
- **Plastic laminate, 20" x 26"** (50.8cm x 66cm), offers flexibility, durability, and metal eyelets at top corners for hanging or portable-stand display. Write-on/wipe-off surface is perfect for classrooms and offices.
- **Latex-free styrene plastic, 19-3/4" x 26"**, (50.16cm x 66cm), has UV-resistant coating for color protection on durable, non-flexible, heavy-weight plastic. With write-on/ wipe-off surface and convenient eyelets for hanging.
- **Giant, 42" x 62"** (106.7cm x 157.5cm), printed on sturdy tear-resistant light-weight plastic that's ideal for demonstrations and lecture halls. With three eyelets for easy hanging.
- **3-Dimensional, 18"x 25"** (45.7cm x 63.5cm) made of durable, lightweight, non-toxic, recyclable plastic.



C.

3-D

GIANT  
SIZE**A. 8946 The Muscular System**

- 978-1-58779-035-5 Laminated
- 978-1-58779-035-5 Laminated
- 978-1-58779-683-8 Styrene Plastic
- 978-1-58779-036-2 Paper
- 978-1-58779-981-5 Giant
- 978-1-58779-996-9 Laminated (Spanish)
- 978-1-58779-995-2 Paper (Spanish)

**B. 8947 The Female Muscular System**

- 978-1-58779-565-7 Laminated
- 978-1-58779-563-3 Paper

**C. 8943 The Skeletal System**

- 978-1-58779-062-1 Laminated
- 978-1-58779-682-1 Styrene Plastic
- 978-1-58779-063-8 Paper
- 978-1-58779-982-2 Giant

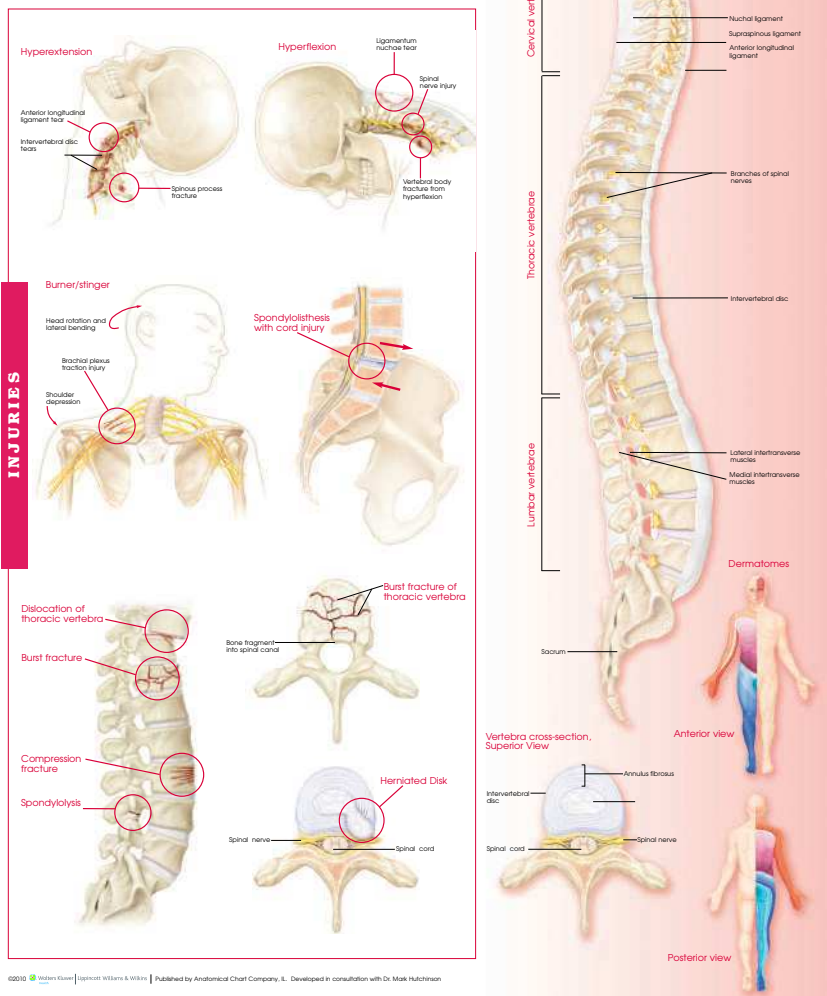
**D. The Skeletal System - Large Decal Chart**

- 978-1-49637-117-1 Styrene Plastic

**E. The Muscular System - Large Decal Chart**

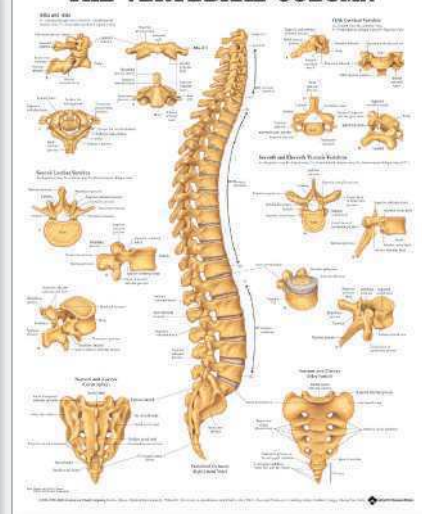
- 978-1-49637-118-8 Styrene Plastic

## ANATOMY AND INJURIES OF THE SPINE



©2010 Wolters Kluwer | Anatomical Chart Company, L. Developed in consultation with Dr. Mark Hutchinson

## THE VERTEBRAL COLUMN



B.

## Understanding Osteoporosis



C.

**A. 6669 Anatomy and Injuries of the Spine**

978-0-7817-8667-6 Laminated  
978-0-7817-8666-9 Paper

**B. 9850 The Vertebral Column**

978-1-58779-210-6 Laminated  
978-1-58779-689-0 Styrene Plastic  
978-1-58779-211-3 Paper

**C. 9850 Understanding Osteoporosis**

978-1-4963-6248-3 Laminated  
978-1-4963-6249-0 Paper

**D. 9970 Human Spine Disorders, 2nd Edition**

978-1-58779-443-8 Laminated  
978-1-58779-465-0 Styrene Plastic  
978-1-58779-399-8 Paper

**E. 9991 The Human Skull**

978-1-58779-167-3 Laminated  
978-1-58779-168-0 Paper

**F. 9990 Head and Neck**

978-1-58779-147-5 Laminated  
978-1-58779-728-6 Styrene Plastic  
978-1-58779-148-2 Paper

**G. 9989 Whiplash Injuries of the Head and Neck**

978-1-58779-375-2 Laminated  
978-1-58779-376-9 Paper

**H. 6706 Anatomy and Injuries of the Head and Neck**

978-0-7817-8671-3 Laminated  
978-0-7817-8670-6 Paper

**I. 9799 Shoulder and Elbow**

978-1-58779-755-2 Laminated  
978-1-58779-685-2 Styrene Plastic  
978-1-58779-754-5 Paper

**J. 9800 Anatomy and Injuries of the Shoulder**

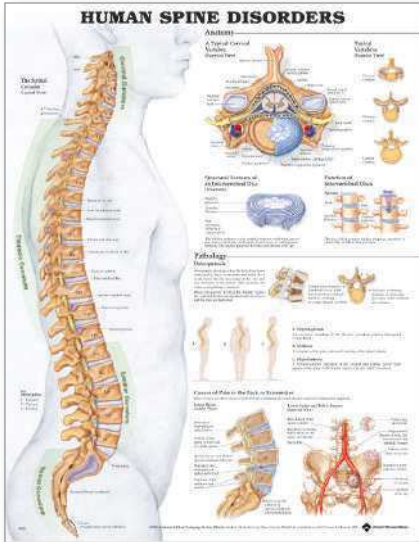
978-1-58779-808-5 Laminated  
978-1-58779-809-2 Styrene Plastic  
978-1-58779-807-8 Paper

**K. 6607 Joints of the Lower Extremities**

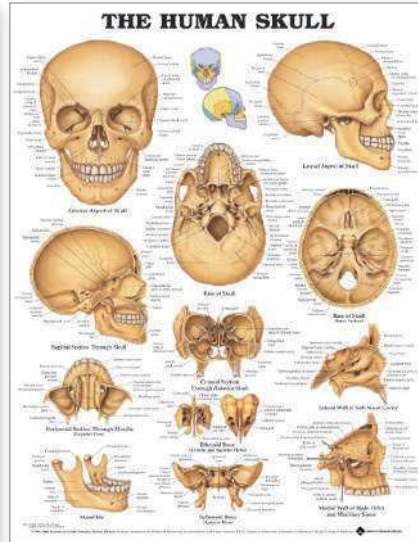
978-0-7817-8663-8 Laminated  
978-0-7817-8660-7 Paper

**L. 6560 Joints of the Upper Extremities**

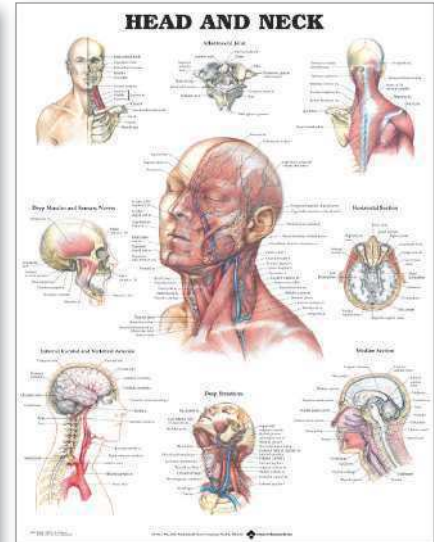
978-0-7817-8657-7 Laminated  
978-0-7817-8656-0 Paper



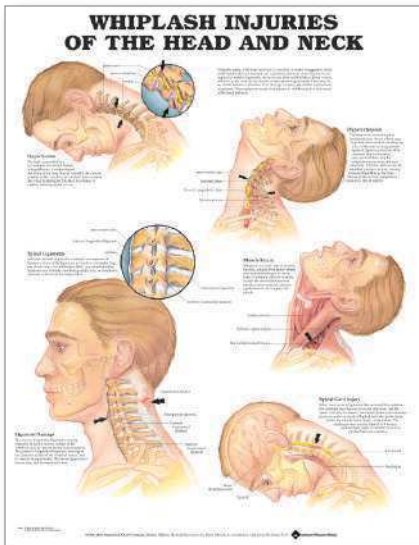
D.



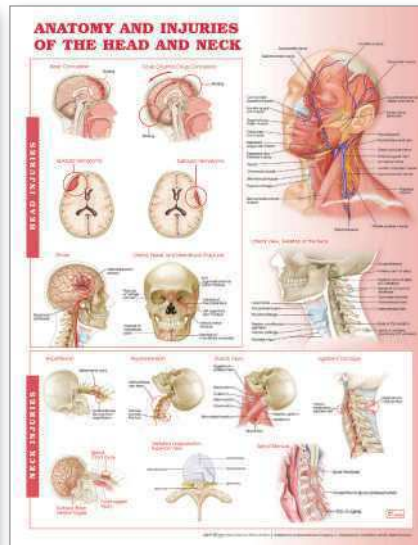
E.



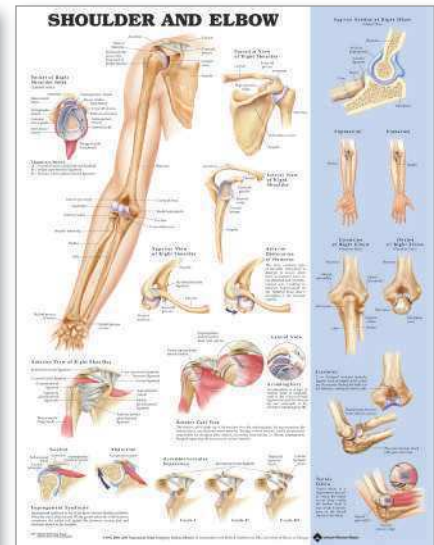
F.



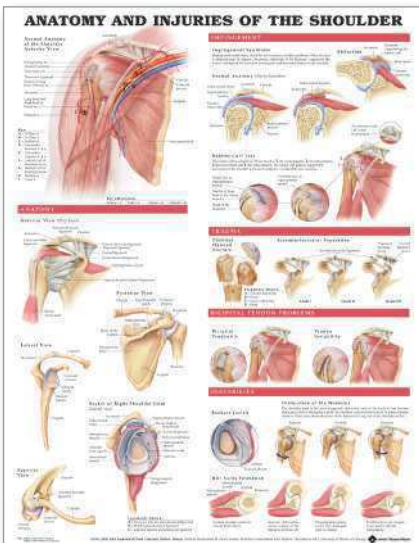
G.



H.



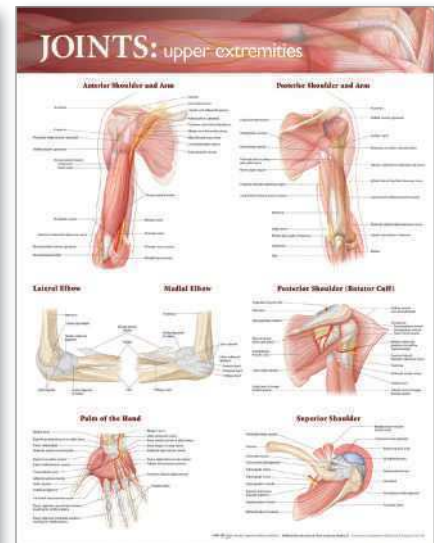
I.



J.



K.



L.

# KNEE INJURIES

Anterior View of Normal Knee (Hohlmann)

**Meniscus**  
The meniscus is a crescent-shaped disc of cartilage that lies between the femur and tibia. Each knee has two menisci, the medial and the lateral. Together, they cushion the joint by distributing shear forces evenly and prevent wear to the articular surfaces of the femur.

**Meniscus Tears**  
Rupture of the meniscus can result in pain and loss of motion.

**Types of Meniscus Tears**

**Symptoms of Damaged Menisci**

With most tears on your knee, you may feel a popping during a range of motion. This usually occurs when the femur is gliding across the tibia.

Locking usually occurs when a piece of torn cartilage in the knee becomes wedged between the femur and tibia during a range of motion. This usually occurs when the femur is gliding across the tibia.

A lateral blow to the knee while the foot is firmly planted may cause damage to the lateral and/or medial ligaments.

**Traumatic Knee Injuries**

- Ligament tear
- Meniscus tear
- Ligament sprain
- Partial dislocation

**Sports Related Ligament Injuries**

- Acute posterior displacement of the knee while the foot is flexed at 90 degrees may damage the posterior cruciate ligament.
- Hyperextension of the knee joint can damage the anterior cruciate and lateral collateral ligaments.
- Flexion against motion of the foot at the "upsidekick" can dislocate the knee and tear the ligaments.
- A lateral blow to the knee while the foot is firmly planted may cause damage to the lateral and/or medial ligaments.

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

## Athletic Injuries of the Knee

**Normal Anatomy**

**Injuries**

**Mechanisms of Injury**

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

## HIP AND KNEE

**Hip Joint: Femur, Pelvis, and Acetabulum**

**Knee Joint: Femur, Tibia, and Patella**

**Meniscus of the Knee**

**Anterior View of the Knee**

**Posterior View of the Knee**

**Medial View of the Knee**

**Lateral View of the Knee**

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

A.

## ANATOMY AND INJURIES OF THE HIP

Normal Anatomy of the Hip Joint

**Normal Anatomy of the Hip Joint**

**Common Injuries of the Hip Joint**

**Hip Joint Dislocation**

**Hip Joint Fractures**

**Hip Joint Arthritis**

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

## Hip and Knee Inflammations

Normal Anatomy

**Osteoarthritis (OA)**

**Rheumatoid Arthritis (RA)**

**Gout and Pseudogout**

**Tendinitis**

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

C.

## UNDERSTANDING ARTHRITIS

Joint Affected by Osteoarthritis (OA)

Joint Affected by Rheumatoid Arthritis (RA)

**Osteoarthritis (OA)**

**Rheumatoid Arthritis (RA)**

**Other Arthritis Types**

**Common Symptoms of Arthritis**

**Spanish**

©1995, 2000, 2003 Anatomical Chart Company. Skeletal, others in consultation with Mark A. Hutchins, MD, University of Illinois at Chicago.

D.

E.

F.

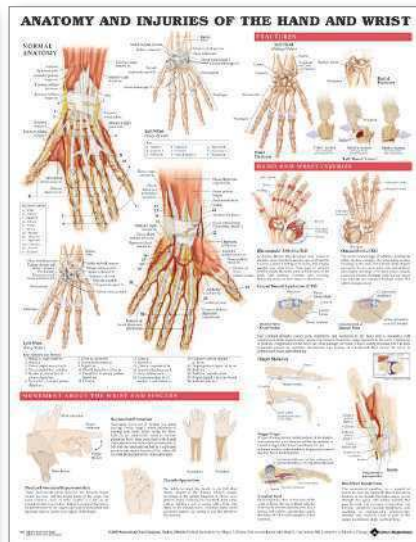




G.



H.



I.



J.



K.



L.

**A. 9872 Knee Injuries**

978-1-58779-757-6 Laminated  
 978-1-58779-696-8 Styrene Plastic  
 978-1-58779-756-9 Paper

**B. 6720 Athletic Injuries of the Knee**

978-0-7817-8675-1 Laminated  
 978-0-7817-8672-0 Paper

**C. 9780 Hip and Knee, 2nd Edition**

978-1-58779-866-5 Laminated  
 978-1-58779-867-2 Styrene Plastic  
 978-1-4963-6249-0 Paper

**D. 9802 Anatomy and Injuries of the Hip**

978-1-58779-383-7 Laminated  
 978-1-58779-382-0 Paper

**E. 9781 Hip and Knee Inflammations, 2nd Edition**

978-0-7817-7347-8 Laminated

978-0-7817-7345-4 Paper

**F. 9803 Understanding Arthritis**

978-1-58779-386-8 Laminated  
 978-1-58779-385-1 Paper  
 978-0-7817-7303-4 Laminated (Spanish)  
 978-0-7817-7302-7 Paper (Spanish)

**G. 9790 Hand and Wrist**

978-1-58779-142-0 Laminated  
 978-1-58779-694-4 Styrene Plastic  
 978-1-58779-143-7 Paper

**H. 9791 Understanding Carpal Tunnel Syndrome**

978-1-58779-321-9 Laminated  
 978-1-58779-322-6 Paper

**I. 9138 Anatomy and Injuries of the Hand and Wrist**

978-1-58779-914-3 Laminated

978-1-58779-913-6 Paper

**J. 9793 Ligaments of the Joints**

978-1-58779-467-4 Laminated  
 978-1-58779-710-1 Styrene Plastic  
 978-1-58779-466-7 Paper

**K. 9795 Foot and Ankle**

978-1-58779-137-6 Laminated  
 978-1-58779-686-9 Styrene Plastic  
 978-1-58779-138-3 Paper

**L. 8379 Anatomy and Injuries of the Foot and Ankle**

978-1-58779-838-2 Laminated  
 978-1-58779-839-9 Styrene Plastic  
 978-1-58779-837-5 Paper

# understanding LOW BACK PAIN

LOW BACK PAIN IS A COMMON AILMENT THAT AFFECTS MOST PEOPLE AT LEAST ONCE IN THEIR LIVES.

THE SPINE IS DESIGNED TO HOLD THE BODY UPRIGHT AND SERVE AS ITS PRIMARY SUPPORT. THE LOW BACK, WHICH INCLUDES THE LUMBAR CURVATURE OF THE SPINE, IS MADE UP OF BONES, MUSCLES, NERVES, LIGAMENTS, TENDONS AND INTERVERTEBRAL DISCS.

THIS PART OF THE ANATOMY HAS SO MANY COMPLEX MOVING PARTS, IT'S NO WONDER THAT IT REQUIRES SPECIAL CARE. THE BEST WAY TO PREVENT BACK PAIN AND MAINTAIN A HEALTHY BACK ARE BY KEEPING MUSCLES STRONG AND FLEXIBLE, PRACTICING PROPER LIFTING TECHNIQUES AND MAINTAINING A HEALTHY BODY WEIGHT.

## SAGITTAL VIEW OF LOWER SPINE

## Types of Low Back Pain

Back pain is classified as acute or chronic. Acute back pain is usually the result of an injury or a sudden lift and can last from a few days to a few weeks. It is generally considered self-limiting. Chronic back pain is a long-term condition that persists for 12 or more weeks beyond the expected healing time. About 20% of low back pain cases progress from acute to chronic.

There are 3 main types of back pain:

1. **Neck/shoulder/back pain:** is not associated with a single injury and accounts for about 20% of low back pain cases. The pain is generally acute.
2. **Back pain caused by various back conditions:** such as sciatica, bulging disc, spinal stenosis, herniated or ruptured disc, spinal cord injury, fibromyalgia, muscle tightness and inflammation.
3. **Back pain resulting from a specific trauma or injury:** such as a fall, a car accident, or a sports injury.

## CAUSES AND RISK FACTORS

- Age - As people age, bone strength decreases, so do muscle density and tone. The result is weaker support for the spine.
- Physical stressors - Back tension, sprains, injuries, or disc rupture can be caused by lifting heavy or awkward loads or by long periods of sitting.
- Overweighting - Excess body weight puts additional stress on the spine.
- Postural dysfunction - Poor posture can lead to excessive strain on the spine.
- Genetics - Some people have a genetic predisposition to low back pain.
- Smoking - Smoking is associated with low back pain.
- Obesity - Excess weight puts additional stress on the spine.
- Stress - Stress can lead to muscle tension and poor posture.
- Occupational factors - Jobs that require heavy lifting, prolonged sitting, or awkward postures increase the risk of low back pain.

## Signs and Symptoms

Common symptoms of low back pain include:

- Stiffness in the back
- Difficulty standing up
- Difficulty sitting or lying down
- Difficulty walking
- Difficulty lifting or carrying objects
- Difficulty performing tasks that require bending or twisting
- Difficulty performing tasks that require reaching or pulling
- Difficulty performing tasks that require pushing or pulling
- Difficulty performing tasks that require carrying heavy loads
- Difficulty performing tasks that require carrying heavy bags
- Difficulty performing tasks that require carrying heavy boxes
- Difficulty performing tasks that require carrying heavy suitcases
- Difficulty performing tasks that require carrying heavy backpacks
- Difficulty performing tasks that require carrying heavy purses
- Difficulty performing tasks that require carrying heavy briefcases
- Difficulty performing tasks that require carrying heavy folders
- Difficulty performing tasks that require carrying heavy binders
- Difficulty performing tasks that require carrying heavy portfolios
- Difficulty performing tasks that require carrying heavy bags of groceries
- Difficulty performing tasks that require carrying heavy bags of laundry
- Difficulty performing tasks that require carrying heavy bags of clothes
- Difficulty performing tasks that require carrying heavy bags of books
- Difficulty performing tasks that require carrying heavy bags of papers
- Difficulty performing tasks that require carrying heavy bags of documents
- Difficulty performing tasks that require carrying heavy bags of files
- Difficulty performing tasks that require carrying heavy bags of folders
- Difficulty performing tasks that require carrying heavy bags of binders
- Difficulty performing tasks that require carrying heavy bags of portfolios
- Difficulty performing tasks that require carrying heavy bags of bags of groceries
- Difficulty performing tasks that require carrying heavy bags of bags of laundry
- Difficulty performing tasks that require carrying heavy bags of bags of clothes
- Difficulty performing tasks that require carrying heavy bags of bags of books
- Difficulty performing tasks that require carrying heavy bags of bags of papers
- Difficulty performing tasks that require carrying heavy bags of bags of documents
- Difficulty performing tasks that require carrying heavy bags of bags of files
- Difficulty performing tasks that require carrying heavy bags of bags of folders
- Difficulty performing tasks that require carrying heavy bags of bags of binders
- Difficulty performing tasks that require carrying heavy bags of bags of portfolios

## Treatment and Massage

The goal of treatment for low back pain is to reduce pain and restore function, strength, and normal living circumstances. A combination of treatments may be recommended by your health care professional. In a clinical setting, massage may be performed to reduce low back pain.

## Prevention

Maintaining a healthy back is very important in preventing low back pain. Some techniques include:

- Focus on good posture and avoid bad habits.
- Exercise regularly with low-impact aerobic activities such as walking and swimming.
- Strengthen abdominal and back muscles with core-strengthening exercises.
- Practice safe lifting techniques.
- Use proper posture when sitting or standing.
- Use proper posture when driving.
- Use proper posture when sleeping.
- Use proper posture when carrying heavy loads.
- Use proper posture when carrying heavy bags.
- Use proper posture when carrying heavy boxes.
- Use proper posture when carrying heavy suitcases.
- Use proper posture when carrying heavy backpacks.
- Use proper posture when carrying heavy purses.
- Use proper posture when carrying heavy briefcases.
- Use proper posture when carrying heavy folders.
- Use proper posture when carrying heavy binders.
- Use proper posture when carrying heavy portfolios.
- Use proper posture when carrying heavy bags of groceries.
- Use proper posture when carrying heavy bags of laundry.
- Use proper posture when carrying heavy bags of clothes.
- Use proper posture when carrying heavy bags of books.
- Use proper posture when carrying heavy bags of papers.
- Use proper posture when carrying heavy bags of documents.
- Use proper posture when carrying heavy bags of files.
- Use proper posture when carrying heavy bags of folders.
- Use proper posture when carrying heavy bags of binders.
- Use proper posture when carrying heavy bags of portfolios.

## Correct Postures and Techniques to Avoid Low Back Pain

A.

# Understanding Pain

## What is Pain?

Pain is a complex sensation that can be physical or emotional. It is a warning signal that something is wrong in the body.

## 2 Types of Pain

**Acute Pain:** Short-term pain that is usually caused by an injury or illness. It is often described as sharp or throbbing.

**Chronic Pain:** Long-term pain that lasts for more than 12 weeks. It can be caused by a variety of conditions, including arthritis, back pain, and nerve damage.

## Where do you Feel Pain?

## Pain Scale

012345678910

0: No pain at all  
10: Worst imaginable pain

## Treatment

Treatment for pain depends on the cause and severity. Options include over-the-counter pain relievers, prescription medications, physical therapy, and surgery.

**Spanish**

B.

# DERMATOMES

Coloration Areas of Peripheral Nerve Innervation

Dermatomes are areas of skin that are innervated by a single peripheral nerve. They are used in clinical practice to assess nerve function and to identify areas of sensory loss.

## Classification of Dermatomes

Dermatomes are classified based on the nerve that innervates them. They are often grouped into cervical, thoracic, lumbar, and sacral regions.

## Physiology of the Dermatomes

The physiology of the dermatomes involves the transmission of sensory information from the skin to the brain. This information includes touch, pressure, temperature, and pain.

C.

# THE NERVOUS SYSTEM

The nervous system is the body's communication network. It consists of the brain, spinal cord, and peripheral nerves. It is responsible for controlling and coordinating all bodily functions.

# THE SPINAL NERVES

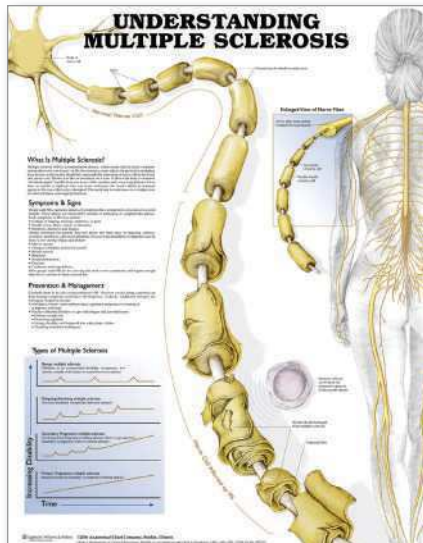
Spinal nerves are formed by the union of cranial and sacral nerves. They carry sensory information from the body to the brain and motor information from the brain to the body.

# THE AUTONOMIC NERVOUS SYSTEM

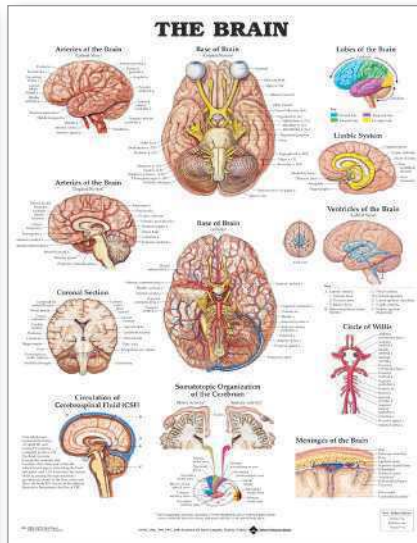
The autonomic nervous system (ANS) is a part of the nervous system that controls involuntary functions. It is divided into the sympathetic and parasympathetic systems.

D.

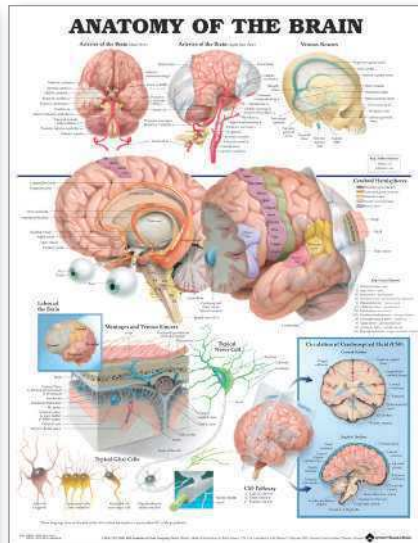
E.



G.



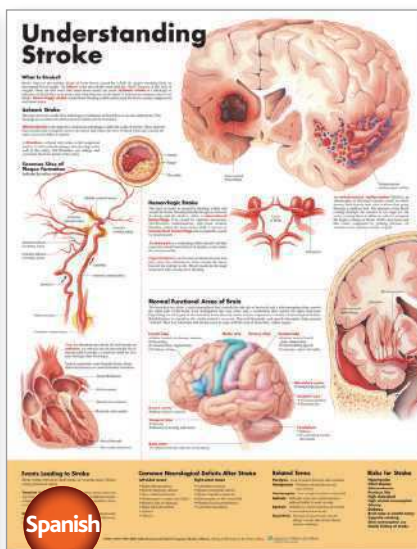
H.



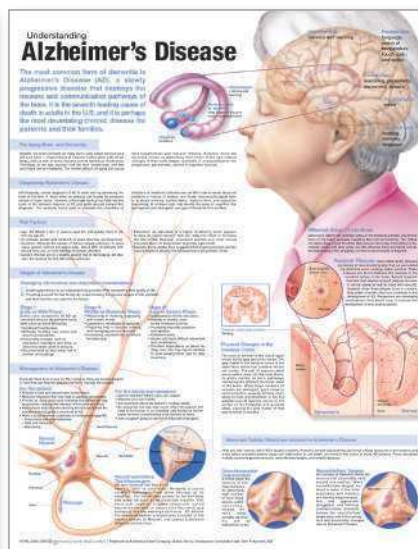
I.



J.



K.



L.

**A. 2425 Understanding Low Back Pain**978-0-7817-8243-2 Laminated  
978-0-7817-8242-5 Paper**B. 9839 Understanding Pain**978-1-58779-984-6 Laminated  
978-1-58779-983-9 Paper  
978-0-7817-8229-6 Laminated (Spanish)**C. 8022 Dermatomes**978-1-58779-111-6 Laminated  
978-1-58779-112-3 Paper**D. 8949 The Nervous System**978-1-58779-044-7 Laminated  
978-1-58779-690-6 Styrene Plastic  
978-1-58779-045-4 Paper**E. 8024 The Spinal Nerves**978-1-58779-205-2 Laminated  
978-1-58779-691-3 Styrene Plastic  
978-1-58779-206-9 Paper**F. 8026 The Autonomic Nervous System**978-1-58779-001-0 Laminated  
978-1-58779-002-7 Paper**G. 9716 Understanding Multiple Sclerosis**978-1-58779-972-3 Laminated  
978-1-58779-971-6 Paper**H. 9920 The Brain**978-1-58779-105-5 Laminated  
978-1-58779-106-2 Paper**I. 9921 Anatomy of the Brain**978-1-58779-089-8 Laminated  
978-1-58779-090-4 Paper**J. 9978 Understanding Parkinson's Disease, 2nd Edition**978-0-7817-8636-2 Laminated  
978-0-7817-8635-5 Paper**K. 9868 Understanding Stroke, 2nd Edition**978-1-58779-988-4 Laminated  
978-1-58779-987-7 Paper  
978-1-58779-990-7 Laminated (Spanish)  
978-1-58779-989-1 Paper (Spanish)**L. 9976 Understanding Alzheimer's Disease, 2nd Edition**978-0-7817-8634-8 Laminated  
978-0-7817-8633-1 Paper

## Understanding Schizophrenia

Schizophrenia is a psychiatric illness that often begins when a person is in his or her late teens, 20s or 30s. As with any illness, the symptoms can differ from person to person and can change over time. When the disease is active, most patients experience the hallmark symptoms of psychosis in the form of delusions and hallucinations. When the disease is inactive, many patients still experience trouble with concentration and motivation.

### What causes Schizophrenia?

**Genes and Environment** - While schizophrenia is thought to be 80% hereditary, 10% of those who have the disease also have a first-degree relative (parent, brother or sister) or second-degree relative (aunt, grandaunt, granduncle) who has the disease. This leads researchers to believe that genetics play some part in the illness. While genes are clearly involved, they alone do not cause schizophrenia. It is now thought that genetic inheritance leads to an increased susceptibility to the disease, which is then triggered by environmental factors such as exposure to viruses or trauma before birth, or during both childhood and adulthood.

**Altered Brain Chemistry and Structure** - Scientists believe that abnormalities in the dopamine receptor system of the brain, specifically with the neurotransmitter dopamine and glutamate, help explain why schizophrenia may also be linked to connectivity with other brain regions.

**Causes of Psychosis other than Schizophrenia** - Schizophrenia is only one cause of psychosis. Therefore, schizophrenia is only diagnosed if other causes of psychosis have been ruled out.

- Medical Illnesses** - (e.g., brain tumors, low oxygen to the brain)
- Infections** - (e.g., toxic drugs, drugs, and medications)
- Other Psychiatric Illnesses** - (e.g., bipolar disorder, alcoholism, personality disorders)

### Stages of Illness

**Prodromal Phase** - This phase is associated with signs and symptoms that precede the onset of illness. It is the period from the first change in behavior to the development of the first psychotic symptoms.

**Acute Psychotic Episode** - Patients develop symptoms of psychosis, including delusions and hallucinations, and may require hospitalization.

**Residual Phase (Maintenance)** - Once treatment has been initiated, patients may experience a period of stability. However, symptoms may persist or re-emerge and they may need to take medication or treatment interventions.

**Relapse** - Patients may experience a return of symptoms, which may require hospitalization and treatment.

**Recovery** - Patients may experience a period of stability and may be able to live independently.

### Gray Matter Deficit in Schizophrenia

**Healthy Neuron** vs **Abnormally Trained Neuron**

**Positive Symptoms** are often the most obvious signs of the illness.

- Hallucinations** are virtual perceptions of things that aren't there, such as seeing things, hearing voices, or feeling sensations on the skin.
- Delusions** are false beliefs that are persistent and that do not go away even when logical or accurate information is given.
- Disorganized speech** is speech that is jumbled or confused. Patients have difficulty organizing their thoughts.
- Disorganized behavior** is behavior that is not typical or expected.
- The Affect** is a person's facial expression or how they act in a social situation.
- Lack of pleasure** in everyday life.
- Lack of interest** in beginning planned activities.
- Sleeping** less than when not ill.

### Negative Symptoms

**Mood Symptoms** are important as they reduce the ability of a person to experience a full range of emotions.

- Depression**
- Manic-depressive episodes**, loss of memory or thinking.
- Decrease in state of being**.
- Insomnia**
- Excitement or irritability**, hyperactivity or overactivity.
- Thoughts and speech**.

### Cognitive Symptoms

**Cognitive symptoms** are the most common and most disabling symptoms. They can be difficult to recognize because they often occur in subtle ways.

- Problems with attention**, such as reading or listening.
- Problems with learning**, such as learning a new skill.
- Problems with memory**, such as forgetting names or faces.

### Symptoms of Schizophrenia Fall into Four Broad Categories:

### Treatment and Management

**Antipsychotic Medication** is the primary treatment for schizophrenia. It helps reduce the intensity of psychotic symptoms and the severity of negative symptoms.

**Psychotherapy** is an important component of treatment. Patients who receive regular psychotherapy are more likely to stay in treatment and have a better long-term outcome.

**Family Intervention** programs can help reduce the risk of relapse and hospitalization. They provide education and support to families.

**Community Support** programs can help patients with schizophrenia live more independently. They provide social and recreational activities.

**Integrated Treatment for Substance Abuse** - Substance abuse is the most common co-occurring disorder in people with schizophrenia. Integrated treatment programs can help reduce the risk of relapse and hospitalization.

**Behavioral Programs** can help patients with schizophrenia learn to manage their symptoms and improve their quality of life.

**Family Education** - People with schizophrenia are often discharged from the hospital into the care of their families. It is important that family members are educated about the illness.

## Understanding Depression

### What is Depression?

Depression is a common mental health condition that affects millions of people. It is characterized by persistent feelings of sadness, loss of interest in activities, and changes in appetite and sleep.

### Area of the Brain Affected by Depression

The limbic system, which is involved in emotions and memory, is affected by depression. The hypothalamus, which regulates the body's internal clock, is also affected.

### Signs and Symptoms of Major Depression

- Feelings of sadness or hopelessness
- Loss of interest in activities
- Changes in appetite and weight
- Changes in sleep patterns
- Thoughts of death or suicide
- Difficulty concentrating
- Physical symptoms such as fatigue or aches and pains
- Thoughts of death or suicide

### Who is at Risk for Depression?

Depression can affect anyone, but it is more common in women than in men. It is also more common in people who have a family history of depression, who have experienced trauma, or who have chronic medical conditions.

### Other Types of Depression

**Bipolar Depression** - A type of depression that is part of bipolar disorder. It is characterized by alternating periods of depression and mania.

**Seasonal Affective Disorder** - A type of depression that is related to changes in the amount of light exposure.

**Postpartum Depression** - A type of depression that occurs after childbirth.

### Treatment

Depression is a treatable condition. Treatment options include medication, psychotherapy, and a combination of both.

**Medication** - Antidepressants can help improve mood and reduce symptoms.

**Psychotherapy** - Talk therapy can help people understand their thoughts and feelings, and learn coping strategies.

**Combination** - A combination of medication and psychotherapy is often the most effective treatment.

## Migraines & Headaches

### Primary Headaches

**Migraine Headache** - Characterized by moderate to severe throbbing or pulsating pain, often on one side of the head, with nausea and vomiting.

**Tension Headache** - The most common type of headache, characterized by a dull, aching pain that is usually on both sides of the head.

**Cluster Headache** - A type of headache that is characterized by severe, sharp pain that is usually on one side of the head.

### Secondary (Organic) Headaches

Headaches that are caused by an underlying medical condition, such as a brain tumor or infection.

### History (Keyhole Strategies to Avoid Headaches)

Understanding the triggers and patterns of your headaches can help you avoid them.

### Headache Management Guide

A guide to help you manage your headaches effectively.

### Headache Treatment Table

Headache Type	Triggers	Management
Migraine	Stress, changes in weather, bright lights, certain foods	Rest, hydration, over-the-counter pain relievers, prescription medication
Tension	Stress, poor posture, eye strain	Relaxation techniques, stretching, physical therapy
Cluster	Alcohol, stress, changes in weather	Rest, hydration, prescription medication

## UNDERSTANDING EPILEPSY

### What is Epilepsy?

Epilepsy is a neurological condition characterized by recurrent, unprovoked seizures. It affects about 1% of the population.

### What Causes Epilepsy?

There are many causes of epilepsy, including genetic factors, brain injury, infections, and stroke.

### How is Epilepsy Diagnosed?

Diagnosis is typically made through a combination of medical history, physical examination, and diagnostic tests such as EEG and MRI.

### How is Epilepsy Treated?

The primary treatment for epilepsy is medication. In some cases, surgery or other treatments may be necessary.

### Living with Epilepsy

People with epilepsy can lead normal, active lives with proper management and support.

## Heart Failure

### What is Heart Failure?

Heart failure is a condition in which the heart is unable to pump enough blood to meet the body's needs. It is a common and serious condition.

### What Causes Heart Failure?

Common causes include coronary artery disease, high blood pressure, and heart valve problems.

### What are the Types of Heart Failure?

**Left-sided heart failure** - The left ventricle is unable to pump enough blood to the rest of the body.

**Right-sided heart failure** - The right ventricle is unable to pump enough blood to the lungs.

**Biventricular heart failure** - Both the left and right ventricles are affected.

### Symptoms and Signs

- Shortness of breath
- Swelling in the legs, ankles, and feet
- Fatigue and weakness
- Rapid or irregular heartbeat
- Dizziness or lightheadedness

### Diagnosis

Diagnosis is typically made through a combination of medical history, physical examination, and diagnostic tests such as echocardiogram and chest X-ray.

### Treatment

Treatment options include medication, lifestyle changes, and surgery.

**Medication** - Diuretics, ACE inhibitors, and beta-blockers are commonly used.

**Lifestyle Changes** - A heart-healthy diet, regular exercise, and smoking cessation are important.

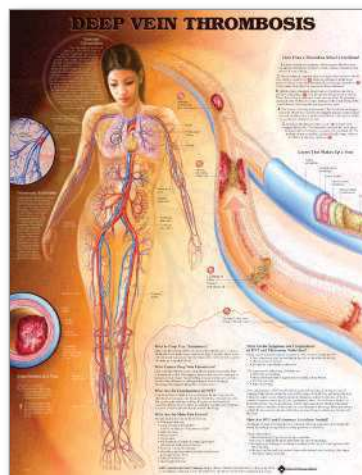
**Surgery** - Procedures such as coronary artery bypass grafting and valve replacement may be necessary.



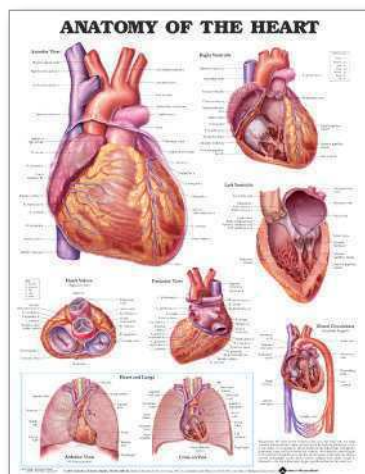
G.



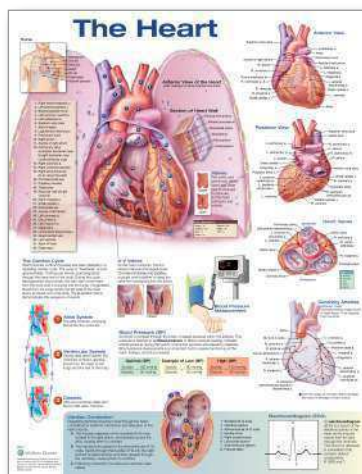
H.



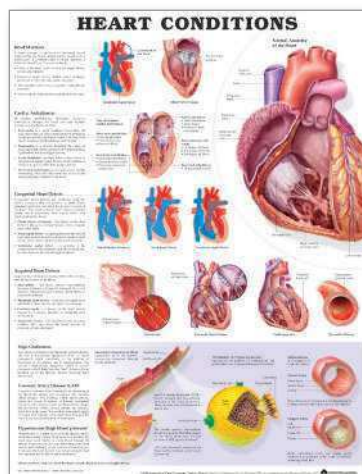
I.



J.



K.



L.

**A. 6423 Understanding Schizophrenia**

978-0-7817-8644-7 Laminated

978-0-7817-8642-3 Paper

**B. 9974 Understanding Depression, 2nd Edition**

978-0-7817-7316-4 Laminated

978-0-7817-7314-0 Paper

**C. 9197 Understanding Sleep Disorders**

978-1-58779-920-4 Laminated

**D. 9979 Migraines & Headaches, 2nd Edition**

978-0-7817-7660-8 Laminated

978-0-7817-7659-2 Paper

**E. 9867 Understanding Epilepsy**

978-1-58779-335-6 Laminated

978-1-58779-336-3 Paper

**F. 9878 Heart Failure**

978-1-4963-6996-3 Laminated

**G. 8937 The Lymphatic System**

978-1-58779-025-6 Laminated

978-1-58779-026-3 Paper

**H. 8952 The Vascular System and Viscera**

978-1-58779-076-8 Laminated

978-1-58779-077-5 Paper

**I. 8953 Deep Vein Thrombosis**

978-1-58779-671-5 Laminated

978-1-58779-670-8 Paper

**J. 9878 Anatomy of the Heart, 3rd Edition**

978-1-4963-6959-8 Laminated

**K. 8023 The Heart**

978-1-4963-6962-8 Laminated

**L. 8824 Heart Conditions**

978-1-58779-883-2 Laminated

978-1-58779-882-5 Paper

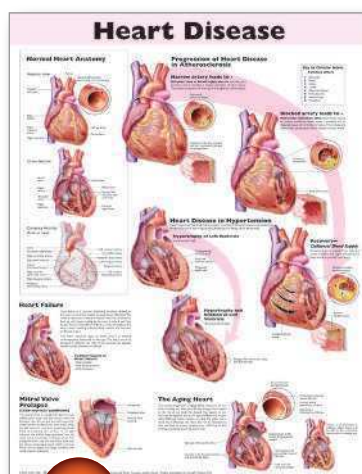
**M. 9912 Heart Disease, 2nd Edition**

978-0-7817-7338-6 Laminated

978-0-7817-7337-9 Paper

978-0-7817-8219-7 Laminated (Spanish)

978-0-7817-8218-0 Paper (Spanish)



M. Spanish

**Complications of High Blood Pressure**

High blood pressure that is untreated can cause long-term damage to your blood vessels, brain, heart, kidneys, and eyes. Learning about your blood pressure can help reduce your risk of having a stroke or heart attack. Ask your health care provider to check your blood pressure today.

**BRAIN**

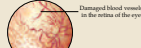
**Stroke** - Blood vessels in the brain that are damaged, weakened and narrowed by high blood pressure may help cut (narrow) and burst causing blood to seep into the brain tissue (hemorrhage). Clots (clots) may form in the arteries leading to the brain, blocking blood flow.

**Transient Ischemic Attack** - TIA (sometimes called a "mini-stroke") is a temporary disruption of blood supply to the brain. It's often caused by atherosclerosis or a blood clot - both of which can be a result of high blood pressure.



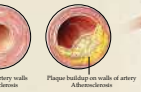
**EYES**

Thickened, narrowed or torn blood vessels in the eyes may result in vision loss.



**BLOOD VESSELS**

High blood pressure can damage the inner walls of arteries causing them to thicken and harden, a condition called **arteriosclerosis**. Cholesterol and other substances (plaque) in the blood can collect on the damaged walls of the arteries, a condition called **atherosclerosis**, and may block blood flow causing problems such as chest pain (angina), heart attack, heart failure, heart failure, blocked arteries, in your legs or arms (peripheral arterial disease), stroke, and aneurysms.



**ANEURYSM**

Over time, the constant pressure of blood moving through a weakened artery can cause a section of its wall to bulge and form a **bulge (aneurysm)**. An aneurysm can burst and cause internal bleeding. Aneurysms can form in any artery in the body but they're most common in the aorta, the body's largest artery.



**HEART**

**Coronary Artery Disease (CAD)** - Affects the arteries that supply blood to the heart. Thickened and narrowed coronary arteries prevent blood from flowing freely to the heart, causing chest pain (angina), heart attacks or irregular heart rhythms (arrhythmias).

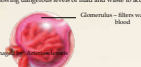
**Left Ventricular Hypertrophy (LVH)** - High blood pressure forces the heart to work harder to pump blood to the rest of the body. This causes the heart's left pumping chamber (the left ventricle) to thicken or stiffen limiting the ventricle's ability to pump blood, increasing the risk of heart attack, heart failure and sudden cardiac death.

**Heart Failure** - Over time, the strain on the heart from high blood pressure can cause the heart to weaken and work less effectively, eventually failing to meet the body's demand for blood.



**KIDNEYS**

High blood pressure is one of the most common causes of kidney failure. It can damage both the large arteries leading to the kidneys and the tiny blood vessels within the kidneys. Damage to either prevents the kidneys from effectively filtering waste from the blood, allowing dangerous levels of fluid and waste to accumulate.



**Prevention and Management**

High blood pressure can be prevented and managed best by achieving your lifestyle. Decrease your blood pressure by:

- If you're overweight, lose weight
- Decrease fat in your diet
- Increase fiber in your diet
- Eat out less often
- Avoid excessive alcohol intake
- Exercise regularly
- Manage stress
- Follow your physician's instructions and take any medications as prescribed

**UPDATED**

# Understanding High Blood Pressure

**What is High Blood Pressure?**

When the heart beats, it pumps blood out to all parts of the body. The arteries create force or pressure against the walls of the arteries. Like air in a tire, blood fills arteries to a certain capacity. But just as too much air pressure can damage a tire, high blood pressure can damage healthy arteries. When blood pressure is high the heart must work harder to pump the same amount of blood through the arteries. Blood pressure rises and falls during the day, but when blood pressure stays high over time, it is called high blood pressure (HBP) or hypertension. The wear and tear caused by untreated high blood pressure can cause damage to the heart, kidneys, and eyes, and increase the risk for heart attack, stroke, kidney failure, coronary artery disease, and other serious health problems.

**Signs and Symptoms of High Blood Pressure**

Most of the time, high blood pressure does not cause any symptoms. It is often diagnosed when a patient visits their physician for a routine check-up. Many people do not realize they have high blood pressure until it has caused damage to their body. In rare cases, headaches can result from extremely high blood pressure.

**How is Blood Pressure Measured?**

Blood pressure is measured with a simple test using a blood pressure cuff. The cuff is wrapped around your upper arm and inflated enough to stop the blood flow in your artery for a few seconds. When the cuff is released or deflated, the first sound heard by your health care provider through the stethoscope is the whooshing sound of your heart pushing blood into your arteries. This is called the "systolic" blood pressure. The "diastolic" blood pressure is when this noise disappears, indicating the heart is relaxed. The systolic blood pressure number is always stated first followed by the diastolic number. For example, your blood pressure may be read as "117 over 76", or written "117/76".

**Two numbers are used to describe blood pressure:**

**Systolic (top number)** The top number called "systolic blood pressure" measures blood pressure when the heart pumps blood forward through the arteries to the rest of your body. This force creates pressure on the arteries. Blood pressure is highest when the heart beats, pumping the blood. A normal healthy number is around 117.

**Diastolic (bottom number)** The second number is lower than the systolic pressure and measures blood pressure when the heart relaxes between beats. This is called "diastolic blood pressure." A normal healthy number is around 76. Your blood pressure normally changes throughout the day. It rises when you are active, and lowers when you are resting.

**117**  
**76**  
**mm Hg**

mmHg is a measurement of pressure

**Healthy and Unhealthy Blood Pressure Levels**

Blood Pressure Category	Systolic mm Hg (upper #)	and	Diastolic mm Hg (lower #)
<b>Normal</b>	less than <b>120</b>		and less than <b>80</b>
<b>Prehypertension</b>	<b>120 - 139</b>	or	<b>80 - 89</b>
<b>High Blood Pressure (Hypertension) Stage 1</b>	<b>140 - 159</b>	or	<b>90 - 99</b>
<b>High Blood Pressure (Hypertension) Stage 2</b>	<b>160 or higher</b>	or	<b>100 or higher</b>
<b>Hypertensive Crisis (Emergency care needed)</b>	<b>Higher than 180</b>	or	<b>Higher than 110</b>

<http://www.heart.org/HEARTORG/> \*Your doctor should evaluate annually for blood pressure readings.

**Types and Causes of High Blood Pressure (Hypertension)**

**Primary or essential hypertension** is the most common type of high blood pressure. In most cases the exact causes are unknown, however there are several factors that increase or contribute to your chances of developing high blood pressure:

- Obesity or being overweight
  - Lack of physical activity
  - Poor diet, especially one that includes too much salt and too little potassium
  - Genetic and family medical history
  - Age and gender
  - High levels of alcohol consumption
  - Ethnic background
  - Stress
  - Smoking and second hand smoke
- Secondary hypertension** may result from a known cause such as:
- Chronic kidney disease
  - Adrenal and thyroid problems or tumors
  - Diabetes
  - Pregnancy
  - Some neurologic disorders

**High Blood Pressure in Children**

Infants, children and even babies can have high blood pressure. Although high blood pressure is far more common among adults, the rate among kids on the rise, a trend that experts link to the increase in childhood obesity. Early diagnosis and treatment can reduce or prevent the harmful complications of high blood pressure. The American Heart Association recommends that all children have their blood pressure measured yearly. Children have the same test for high blood pressure as adults, however, interpreting the numbers is more difficult. Your child's physician will use charts based on your child's gender, height, age and blood pressure numbers to determine whether or not your child has high blood pressure.



© 2014 **Walters Kluwer** | Published by Anatomical Chart Company | Developed in consultation with Dr. Douglas S. Moeck

## Cardiovascular Disease

## Understanding Hypertension

**A.**

**D.**

**E.**

**C.**

**ALSO AVAILABLE ...**  
Save 15% over individual chart prices!

**Cardiology Chart Set 1**  
CARDIO1  
Includes 2 charts:  
The Heart; and Heart Disease

**Cardiology Chart Set 2**  
CARDIO2  
Includes 4 charts:  
Understanding Hypertension;  
Understanding Type 2 Diabetes;  
Understanding Cholesterol; and  
Cardiovascular Disease

A. Understanding High Blood Pressure, 2nd Edition

978-1-4698-7289-6 Laminated
978-1-4698-7288-9 Paper

B. 9915 Cardiovascular Disease, 3rd Edition

978-1-4963-6979-6 Laminated

C. 9798 Understanding Hypertension, 2nd Edition

978-1-4963-6981-9 Laminated

D. 3251 Understanding High Cholesterol, 2nd Edition

978-1-4511-9324-4 Laminated
978-1-4511-9325-1 Paper

E. 9882 Understanding Cholesterol

978-1-58779-326-4 Laminated
978-1-58779-327-1 Paper

F. 9894 Keys to Healthy Eating, 3rd Edition

978-1-60547-107-5 Laminated
978-1-60547-106-8 Paper



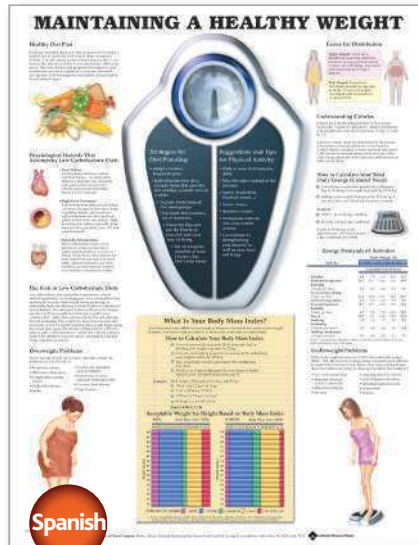
F.

G. 3201 Understanding Your Weight

978-0-7817-7322-5 Laminated
978-0-7817-7331-7 Laminated (Spanish)

H. 9779 Maintaining a Healthy Weight

978-1-58779-410-0 Laminated
978-1-58779-409-4 Paper
978-0-7817-7340-9 Laminated (Spanish)
978-0-7817-7339-3 Paper (Spanish)



H.

I. 2226 BMI & Waist Circumference

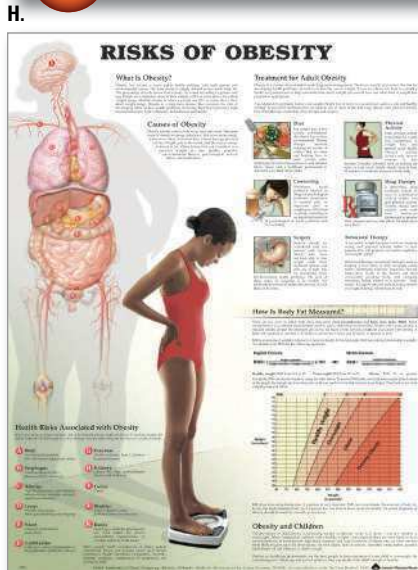
978-0-7817-7227-3 Laminated
978-0-7817-7226-6 Paper



G.

J. 9776 Risks of Obesity

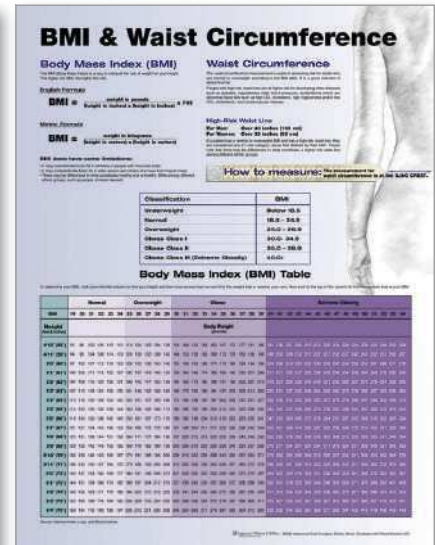
978-1-58779-380-6 Laminated
978-1-58779-379-0 Paper



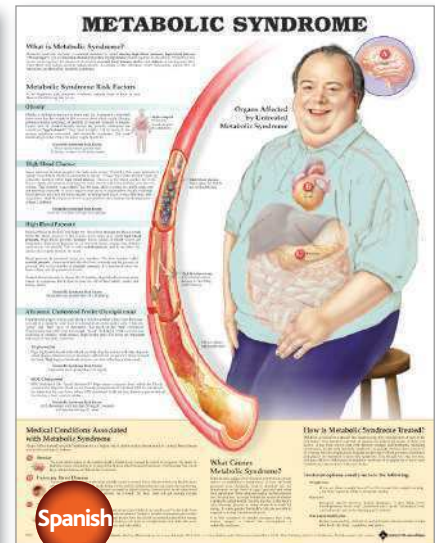
J.

K. 9778 Metabolic Syndrome

978-1-58779-805-4 Laminated
978-1-58779-804-7 Paper
978-0-7817-7309-6 Laminated (Spanish)
978-0-7817-7308-9 Paper (Spanish)



I.



K.

Customers rate Anatomical Chart Company products



“Helps in communication process”

Bonnie, Chicago, IL

### UNDERSTANDING DIABETES

**What is Diabetes?**  
Diabetes is a chronic condition that affects the way your body uses blood sugar (glucose). Blood sugar is the main source of energy for your cells. In a person with diabetes, the pancreas either does not produce enough insulin or the cells in the body do not respond properly to the insulin that is produced. This causes blood sugar levels to rise.

**Types of Diabetes**  
Type 1 Diabetes Mellitus (T1DM) is an autoimmune disease in which the body's immune system attacks and destroys the insulin-producing cells in the pancreas. Type 2 Diabetes Mellitus (T2DM) is a metabolic disorder in which the body's cells become resistant to the action of insulin, and the pancreas cannot produce enough insulin to overcome this resistance.

**What Happens in Diabetes?**  
1. The pancreas produces insulin.  
2. Insulin allows glucose to enter the cells.  
3. Cells use glucose for energy.  
4. Without insulin, glucose stays in the blood, leading to high blood sugar.

**Symptoms of Diabetes**  
Increased thirst, frequent urination, hunger, fatigue, blurred vision, slow-healing sores, and frequent infections.

**Risk Factors**  
Genetics, obesity, physical inactivity, and poor diet.

**Diabetes on Youth**  
Diabetes is becoming more common in children and teenagers.

**5 Tips for Successful Diabetes Self-Management**  
1. Monitor blood sugar levels.  
2. Take medication as prescribed.  
3. Eat a healthy diet.  
4. Exercise regularly.  
5. Maintain good foot care.

**Diabetes Management**  
Regular monitoring and lifestyle changes are essential for managing diabetes.

**UPDATED**

A.

### UNDERSTANDING TYPE 1 DIABETES

**What is Type 1 Diabetes?**  
Type 1 diabetes is an autoimmune disease where the body's immune system attacks and destroys the insulin-producing cells in the pancreas.

**What happens in Type 1 Diabetes?**  
1. Digestive System: The pancreas produces insulin.  
2. The Pancreas and Type 1 Diabetes: The immune system destroys the insulin-producing cells.  
3. How Insulin Works: Insulin allows glucose to enter the cells.  
4. Glucose Buildup: Without insulin, glucose stays in the blood.

**Complications**  
**SHORT-TERM**  
Hypoglycemia (low blood sugar), Hyperglycemia (high blood sugar), Ketoacidosis.  
**LONG-TERM**  
Heart Disease and Stroke, Kidney Disease (Nephropathy), Eye Disease (Retinopathy), Nervous System Damage (Neuropathy).

**UPDATED**

B.

### UNDERSTANDING TYPE 2 DIABETES

**What is Type 2 Diabetes?**  
Type 2 diabetes is a metabolic disorder where the body's cells become resistant to the action of insulin, and the pancreas cannot produce enough insulin to overcome this resistance.

**What happens in Type 2 Diabetes?**  
Multiple factors cause high blood sugar and insulin resistance in Type 2 Diabetes, including genetics, obesity, and physical inactivity.

**Risk Factors**  
Obesity, physical inactivity, poor diet, and family history.

**Managing Type 2 Diabetes**  
1. Monitor blood sugar levels.  
2. Take medication as prescribed.  
3. Eat a healthy diet.  
4. Exercise regularly.

**UPDATED**

C.

### THE ENDOCRINE SYSTEM

**Thyroid and Parathyroid Glands**  
The thyroid gland produces thyroid hormones, which regulate metabolism. The parathyroid glands produce parathyroid hormone, which regulates calcium levels.

**Pituitary Gland**  
The pituitary gland is often called the "master gland" because it controls the activity of other endocrine glands.

**Adrenal Glands**  
The adrenal glands sit atop the kidneys and produce hormones like cortisol and adrenaline.

**Other Glands**  
Pancreas, Pituitary, Hypothalamus, and Testes.

**UPDATED**

D.

### THYROID DISORDERS

**What is the Thyroid?**  
The thyroid is a butterfly-shaped gland in the neck that produces thyroid hormones.

**Common Thyroid Disorders**  
**Hypothyroidism:** The thyroid gland does not produce enough thyroid hormone.  
**Hyperthyroidism:** The thyroid gland produces too much thyroid hormone.

**Symptoms**  
Hypothyroidism: Fatigue, weight gain, cold intolerance, depression.  
Hyperthyroidism: Weight loss, rapid heartbeat, anxiety, heat intolerance.

**UPDATED**

E.

### Internal Organs of the Human Body

The **Brain** is the command center of the human nervous system. It receives signals from all parts of the body and sends out instructions to control and coordinate the body's actions.

The **Heart** pumps the body's main supply of blood to and from the lungs and the rest of the body.

The **Lungs** take in oxygen from the air and transfer it to the blood. They also remove carbon dioxide from the blood.

The **Liver** is the largest internal organ and is involved in digestion and metabolism. It has numerous other functions, including producing bile and storing energy.

The **Spleen** filters blood and removes old and damaged red blood cells and platelets. It also stores extra red blood cells and platelets.

The **pancreas** makes and releases insulin and other hormones that help regulate blood sugar.

The **intestines** absorb nutrients from the food we eat and eliminate waste.

The **stomach** breaks down food into smaller pieces and mixes it with stomach acid.

The **small intestine** absorbs nutrients from the food we eat and transfers them to the rest of the body.

The **kidneys** filter waste and extra fluid from the blood and produce urine.

The **bladder** stores urine until it is ready to be eliminated from the body.

**UPDATED**

F.

### Gastroesophageal Disorders and Digestive Anatomy

**Gastroesophageal Junction**  
The junction between the esophagus and the stomach.

**Stomach**  
The stomach is a muscular organ that churns food into a semi-liquid consistency.

**Small Intestine**  
The small intestine is where most of the digestion and absorption of nutrients occurs.

**Large Intestine**  
The large intestine absorbs water and electrolytes from the remaining indigestible food matter.

**Rectum and Anus**  
The rectum stores feces until it is ready to be eliminated from the body through the anus.

**UPDATED**

G.

### THE DIGESTIVE SYSTEM

**The Oral Cavity, Salivary Glands, and Stomach**  
The oral cavity is where digestion begins. Salivary glands produce saliva, which contains enzymes that start the breakdown of food.

**The Esophagus, Gallbladder, and Duodenum**  
The esophagus transports food from the mouth to the stomach. The gallbladder stores bile, which is released into the duodenum to help with digestion.

**Wall of Stomach**  
The stomach wall has several layers, including the muscularis, which contracts to churn food.

**Wall of Jejunum**  
The jejunum has a highly folded wall called villi, which increases the surface area for nutrient absorption.

**Wall of Colon**  
The colon has a thick wall to help with the absorption of water and electrolytes.

**The Small and Large Intestines**  
The small intestine is responsible for most of the digestion and absorption of nutrients. The large intestine is primarily involved in water and electrolyte absorption.

**Arterial Supply**  
The digestive system has a rich arterial supply to ensure it receives enough oxygen and nutrients.

**UPDATED**

H.

### DISEASES OF THE DIGESTIVE SYSTEM

**GERD (Gastroesophageal Reflux Disease)**  
Occurs when stomach acid flows back into the esophagus, causing heartburn and irritation.

**Peptic Ulcers**  
Open sores that develop on the lining of the stomach or the first part of the small intestine.

**Celiac Disease**  
An autoimmune disorder where the immune system attacks the small intestine, leading to damage and malabsorption.

**Inflammatory Bowel Disease (IBD)**  
Includes Crohn's disease and ulcerative colitis, which cause chronic inflammation of the digestive tract.

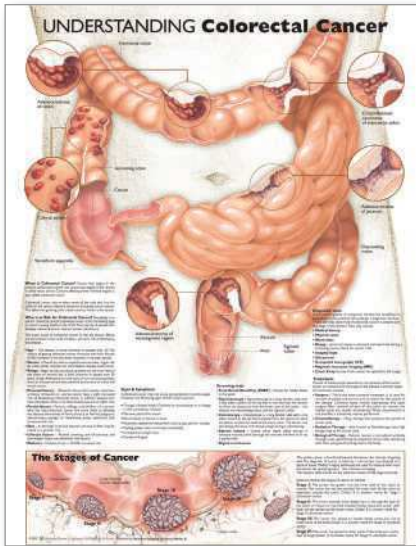
**Diverticulitis**  
Occurs when small pouches called diverticula in the large intestine become inflamed or infected.

**Colorectal Cancer**  
A type of cancer that starts in the colon or rectum.

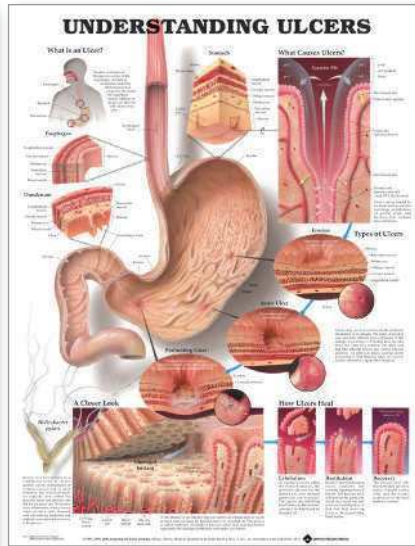
**UPDATED**

I.

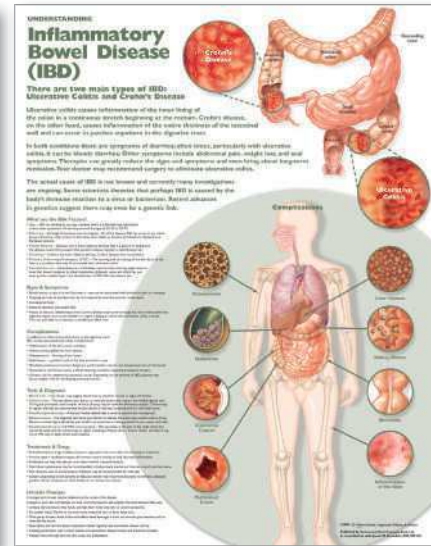




J.



K.



L.

**A. 9755 Understanding Diabetes, 3rd Edition**

978-1-46986-492-8 Laminated  
978-1-46989-489-8 Paper

**B. 9754 Understanding Type 1 Diabetes, 3rd Edition**

978-1-4698-9494-2 Laminated  
978-1-4698-9493-5 Paper

**C. 9753 Understanding Type 2 Diabetes, 3rd Edition**

978-1-4698-9498-0 Laminated  
978-1-4698-9497-3 Paper

**D. 9720 The Endocrine System**

978-1-58779-383-7 Laminated  
978-1-58779-382-0 Paper

**E. 831X Thyroid Disorders**

978-1-58779-832-0 Laminated  
978-1-58779-831-3 Paper

**F. 828X Internal Organs of the Human Body**

978-1-58779-829-0 Laminated  
978-1-58779-828-3 Paper

**G. 9965 Gastroesophageal Disorders and Digestive Anatomy, 2nd Edition**

978-0-7817-8245-6 Laminated  
978-0-7817-8244-9 Paper

**H. 9859 The Digestive System**

978-1-58779-006-5 Laminated  
978-1-58779-007-2 Paper

**I. 9861 Diseases of the Digestive System**

978-1-58779-236-6 Laminated  
978-1-58779-237-3 Paper

**J. 3331 Understanding Colorectal Cancer**

978-0-7817-7334-8 Laminated  
978-0-7817-7333-1 Paper

**K. 9731 Understanding Ulcers**

978-1-58779-370-7 Laminated  
978-1-58779-371-4 Paper

**L. 6485 Understanding Inflammatory Bowel Disease (IBD)**

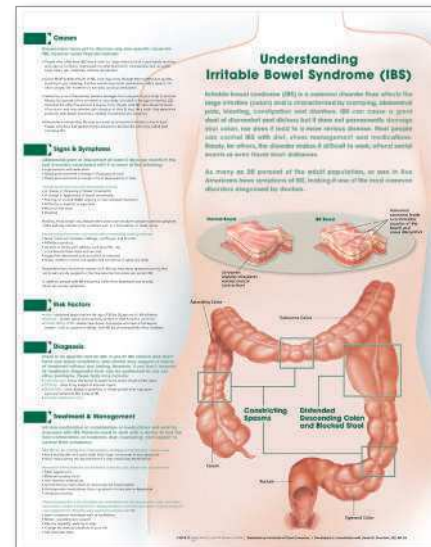
978-0-7817-8649-2 Laminated  
978-0-7817-8648-5 Paper

**M. 2146 Understanding Irritable Bowel Syndrome**

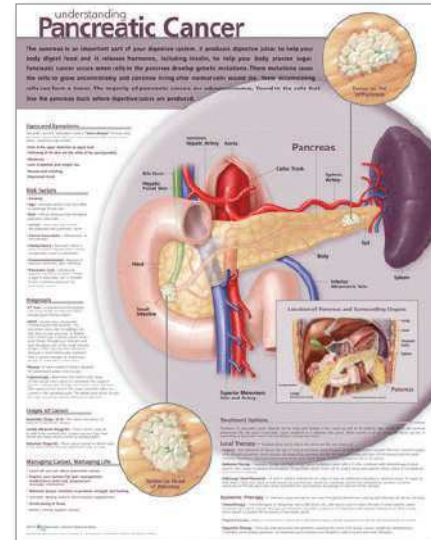
978-1-60831-215-3 Laminated  
978-1-60831-214-6 Paper

**N. 2160 Understanding Pancreatic Cancer**

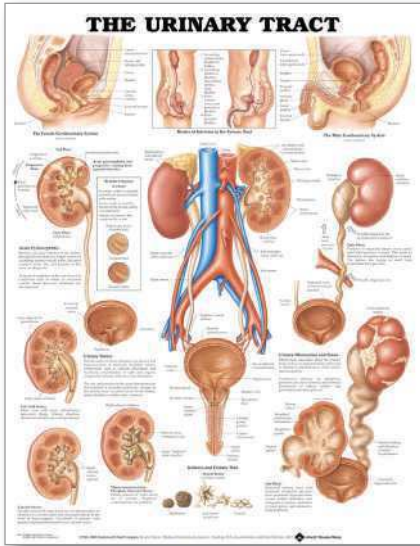
978-1-60831-217-7 Laminated  
978-1-60831-216-0 Paper



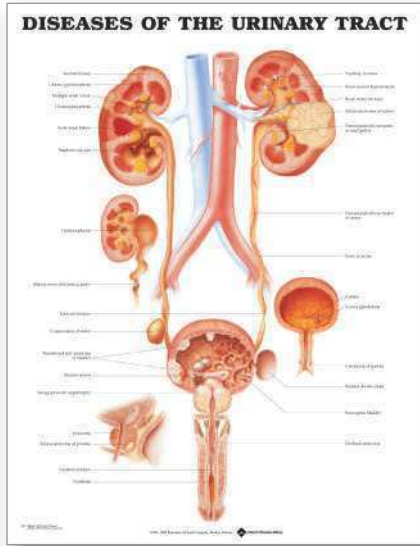
M.



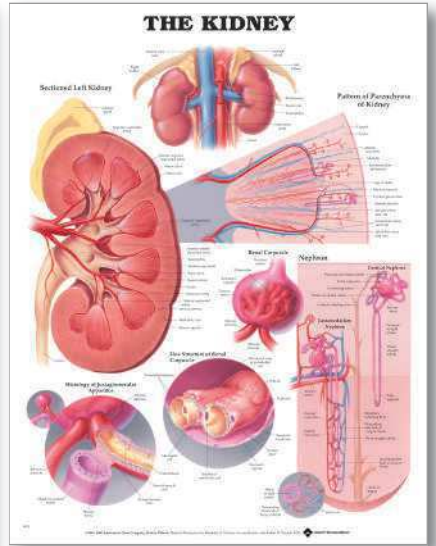
N.



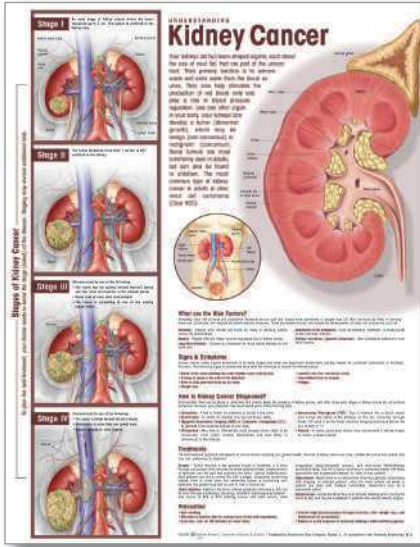
A.



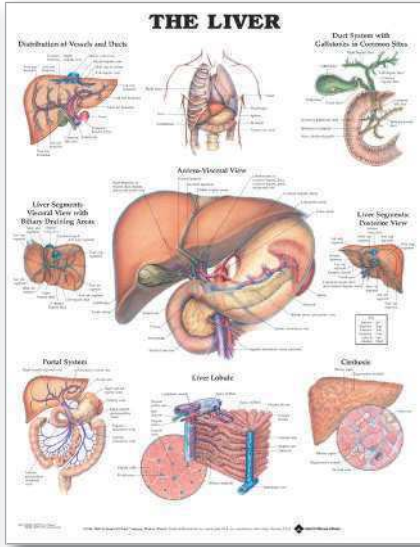
B.



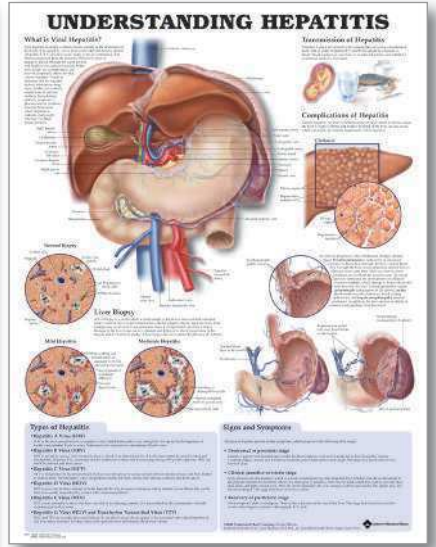
C.



D.



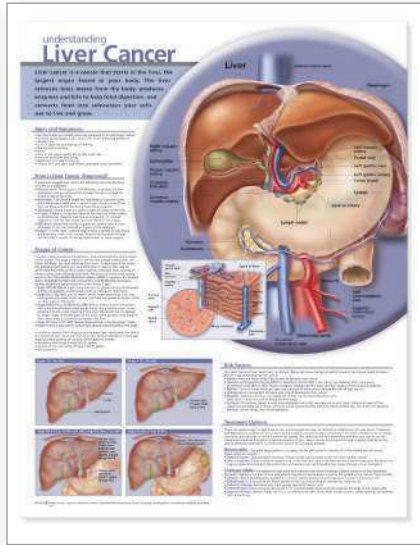
E.



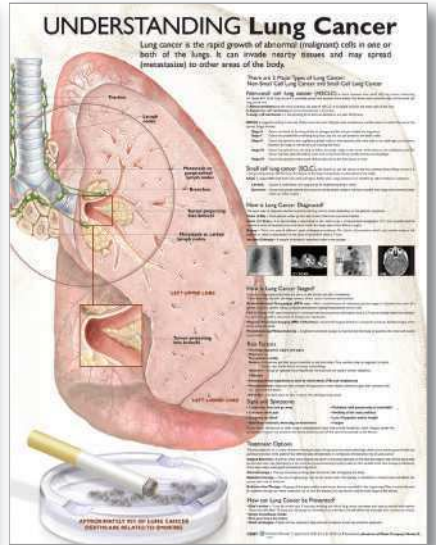
F.



G.



H.



I.

**A. 9796 The Urinary Tract**

978-1-58779-071-3 Laminated  
978-1-58779-072-0 Paper

**B. 9797 Diseases of the Urinary Tract**

978-1-58779-241-0 Laminated  
978-1-58779-242-7 Paper

**C. 9951 The Kidney**

978-1-58779-171-0 Laminated  
978-1-58779-172-7 Paper

**D. 6508 Understanding Kidney Cancer**

978-0-7817-8651-5 Laminated  
978-0-7817-8650-8 Paper

**E. 9960 The Liver**

978-1-58779-175-8 Laminated  
978-1-58779-176-5 Paper

**F. 9992 Understanding Hepatitis**

978-1-58779-418-6 Laminated  
978-1-58779-417-9 Paper

**G. 9696 Dangers of Alcohol, 2nd Edition**

978-0-7817-8239-5 Laminated  
978-0-7817-8238-8 Paper

**H. 0924 Understanding Liver Cancer**

978-1-60547-092-4 Laminated  
978-1-60547-091-7 Paper

**I. 3232 Understanding Lung Cancer**

978-0-7817-7325-6 Laminated  
978-0-7817-7323-2 Paper

**J. 9073 Diseases of the Lung**

978-1-58779-908-2 Laminated  
978-1-58779-907-5 Paper

**K. 9766 The Respiratory System**

978-1-58779-053-9 Laminated  
978-1-58779-054-6 Paper

**L. 9865 Dangers of Smoking**

978-1-58779-231-1 Laminated  
978-1-58779-232-8 Paper  
978-0-7817-7318-8 Laminated (Spanish)  
978-0-7817-7317-1 Paper (Spanish)

**M. 9783 Chronic Obstructive Pulmonary Disease (COPD), 2nd Edition**

978-0-7817-8237-1 Laminated  
978-0-7817-8236-4 Paper

**N. 9862 Understanding Asthma, 2nd Edition**

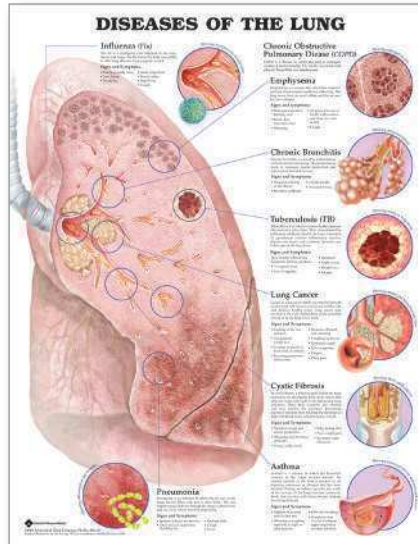
978-1-58779-938-9 Laminated  
978-1-58779-937-2 Paper  
978-1-58779-944-0 Laminated (Spanish)  
978-1-58779-943-3 Paper (Spanish)

**O. 9768 The Respiratory System and Asthma, 2nd Edition**

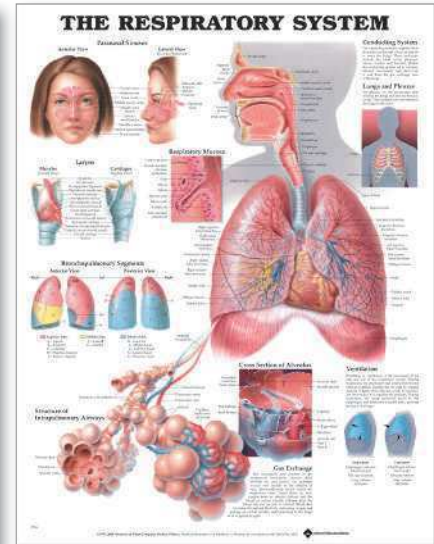
978-1-60547-100-6 Laminated

**P. Non-Small Cell Lung Cancer**

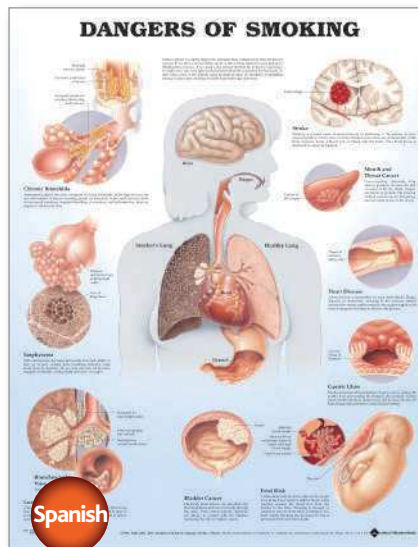
978-1-49636-952-9 Laminated  
978-1-49636-955-0 Paper



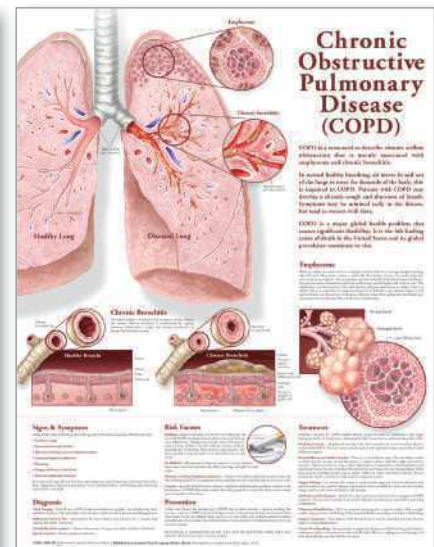
J.



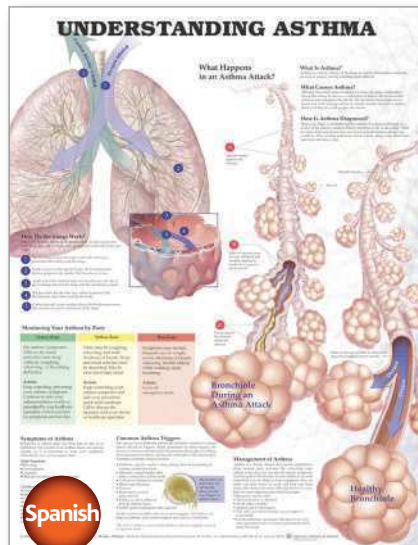
K.



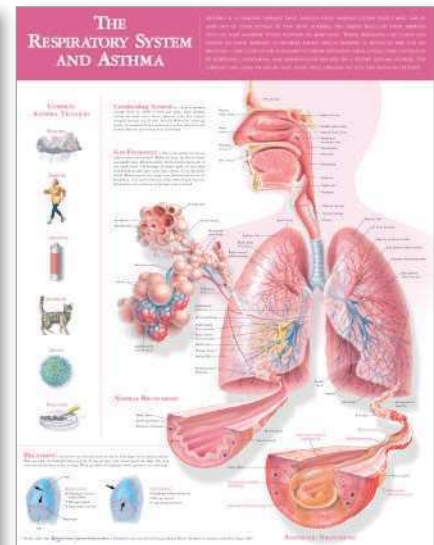
L.



M.



N.



O.

# UNDERSTANDING ALLERGIES

**What Is An Allergy?**  
An allergy is an overreaction or hypersensitivity of the body's immune system to normally harmless substances, called allergens. An allergic reaction occurs when the body's immune system responds to an allergen as if the substance were disease-causing. Subsequent exposure to this substance can result in physical symptoms that range from mild to life-threatening.

**Who Gets Allergies?**  
The tendency to develop allergies is thought to be inherited, because they commonly develop in those who have a family history of allergies. It is possible for anyone to develop allergies at any age. Environmental factors can make our immune systems overly sensitive. This could then trigger allergies in people with no family history or lessen the onset in those with a family history.

**What Are Common Allergens?**  
Allergens can enter the body in a number of different ways, including inhaling, eating, drinking, injection (as with bee venom), and contact with the skin or eyes. Common allergens include pollen, mold, animal hair or dander, dust mites, certain medications (for example, penicillin), and certain foods (for example, peanuts, eggs, milk, wheat, and soybeans).

**Anaphylaxis: An Allergic Emergency**  
Anaphylaxis is a life-threatening reaction. The onset of this reaction may occur within seconds or minutes of exposure. Symptoms may include a mild rash over most of the body. Skin becomes warm to the touch, intense itching and swelling of the airways become breathing difficult, and there is a drop in blood pressure. Breathing can stop and the body may flip into shock. If medication is not administered quickly, heart failure and death can result within minutes in the most severe reactions. Allergies in insect stings and medications such as antibiotics are more likely to cause anaphylaxis than are any other allergens. Anaphylaxis is not a common reaction and can be controlled with prompt medication and the help of a physician.

**Managing Allergies**  
The first step in managing allergies is to identify the type of reaction one are having, whether it is watery eyes, sneezing, or difficulty breathing. Second, try to identify the trigger or the situation that led to the symptoms. Ask yourself a few questions:  

- When did the reaction occur?
- How long did the reaction last?
- How many other people or things were near you?
- How were you feeling or thinking?
- Did you eat or use anything new?
- Did you go to a new place or do anything new?

A physician can perform skin or blood allergy tests with a variety of common allergens. Once the allergen has been identified, manage your allergies by following some tips:  

- Avoid allergens when possible.
- Avoid pollen season and other activities.
- Use medication as prescribed.
- See a doctor regularly.
- Stop smoking.

**Hay Fever (allergic rhinitis)**  
Caused by exposure to inhaled and some non-pollen. It affects the eyes and nose. Common symptoms: runny nose, itchy eyes, itchy nose, itchy throat, and sometimes, a stuffy, blocked nose.

**Sinusitis**  
An inflammation, or swelling, of the tissue lining the sinuses. Symptoms may include facial pain, pressure, or "stuffy nose"; frequent sneezing; nasal discharge; and loss of sense of smell.

**Eczema (atopic dermatitis)**  
A group of medical conditions that cause the skin to become inflamed or irritated. It causes itchy, red rashes of the skin characterized by lesions, scaling, and flaking.

**Hives (urticarial)**  
An outbreak of swollen, pale red bumps or patches (wheals) on the skin, as a result of the body's adverse reaction to certain allergens, or for unknown reasons.

**Asthma**  
Affects the respiratory system, causing coughing, wheezing, and chest tightness after exposure to an allergen. Common allergens that trigger asthma include plant pollen and dust mites.

**Contact Dermatitis**  
An inflammation of the skin caused by direct contact with an irritating or allergy-causing substance (such as poison ivy or latex gloves). It causes redness, itching, swelling, or rashes on the skin.

**Allergic Conjunctivitis**  
An inflammation of the conjunctiva, the tissue that lines the eyelid and inside of the eyelids, associated with allergies. The eye becomes red, itchy, and watery.

**Food Allergies**  
Symptoms include swelling of lips, throat, face, and tongue; upset stomach; vomiting; abdominal cramps; hives; and skin rashes. Food allergies may be life-threatening.

**Household Allergies**  
Dust mites are microscopic organisms that feed on hair and shed skin tissue. Mites are commonly found on pillows, mattresses, and upholstered furniture. Mite feces are responsible for a majority of the year-round types of allergies, and are a major cause of asthma.

**Drug Allergies**  
Certain medicines can trigger allergic reactions ranging from mild rashes to life-threatening symptoms, which can affect any tissue or organ in the body.

**Spanish**

A.

# UNDERSTANDING INFLUENZA

**What is Influenza?**

**Prevention**

**Special Risk Factors**

**The Vaccination (flu shot)**

**Complications**

**What to Do If You Get Sick**

**Questions & Answers**

B.

# The Common Cold

**Common Cold**

**Causes**

**Symptoms**

**Diagnosis and Treatment**

**Prevention**

C.

# THE IMMUNE SYSTEM

**ALLERGIC RESPONSE**

**The Initial Encounter**

**1st**

**2nd**

**3rd**

D.

# PHARYNX & LARYNX

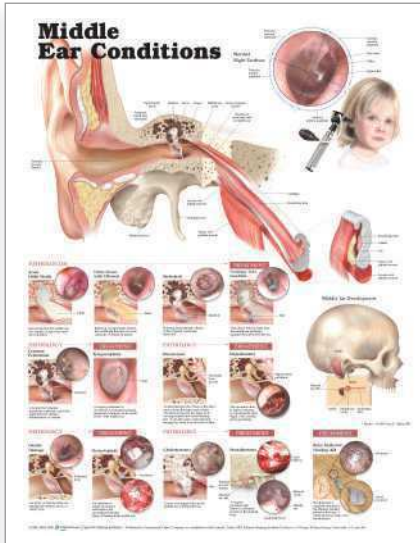
E.

**A. 9864 Understanding Allergies, 2nd Edition**  
 978-1-58779-941-9 Laminated  
 978-1-58779-940-2 Paper  
 978-1-58779-947-1 Laminated (Spanish)  
 978-1-58779-946-4 Paper (Spanish)

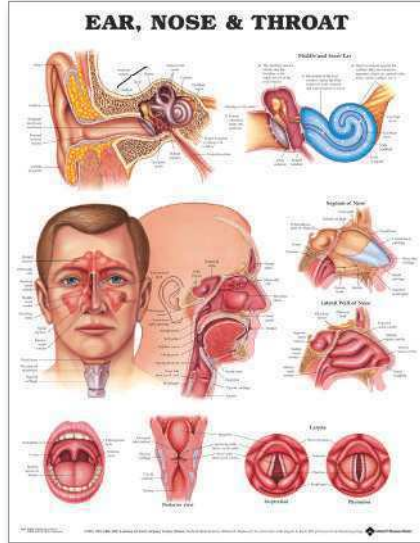
**B. 8859 Understanding Influenza**  
 978-1-58779-886-3 Laminated  
 978-1-58779-885-6 Paper

**C. 9875 Understanding The Common Cold, 2nd Edition**  
 978-0-7817-8631-7 Laminated  
 978-0-7817-8630-0 Paper

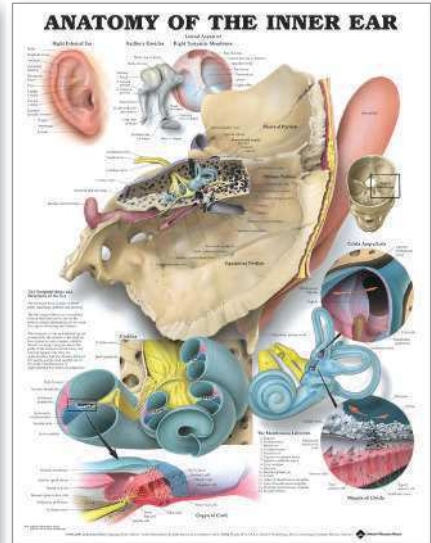
**D. 9730 The Immune System: Allergic Response**  
 978-1-58779-974-7 Laminated  
 978-1-58779-973-0 Paper



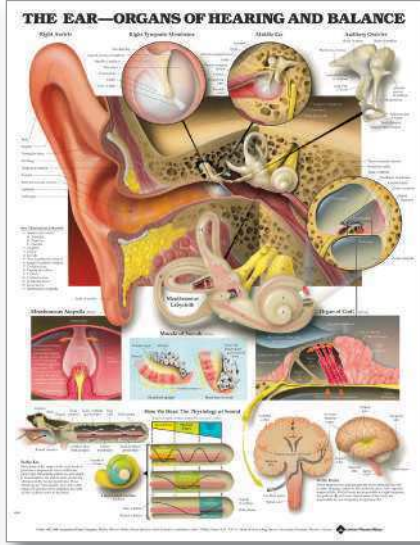
F.



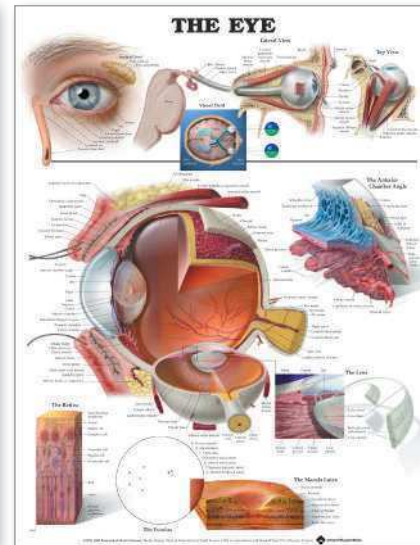
G.



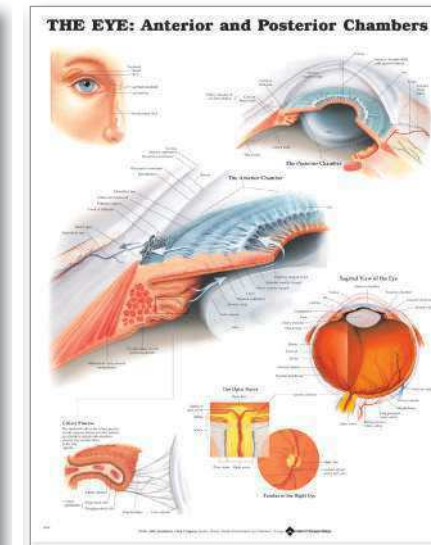
H.



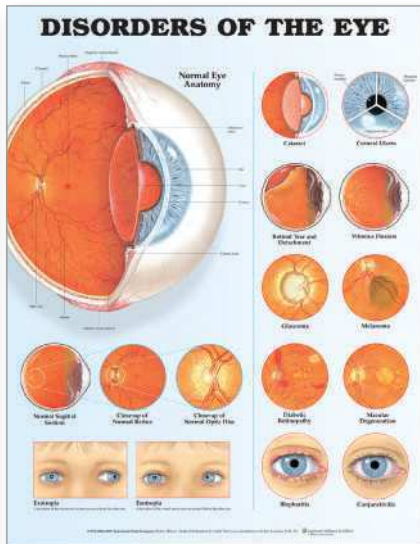
I.



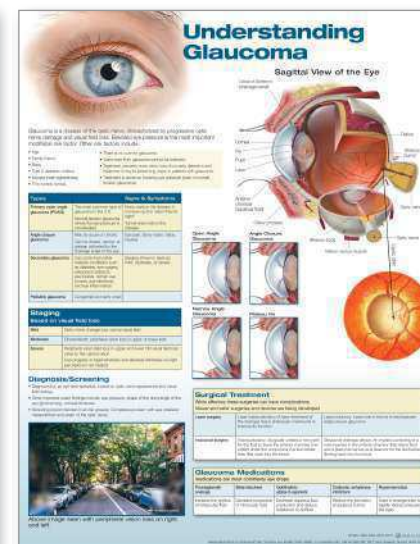
J.



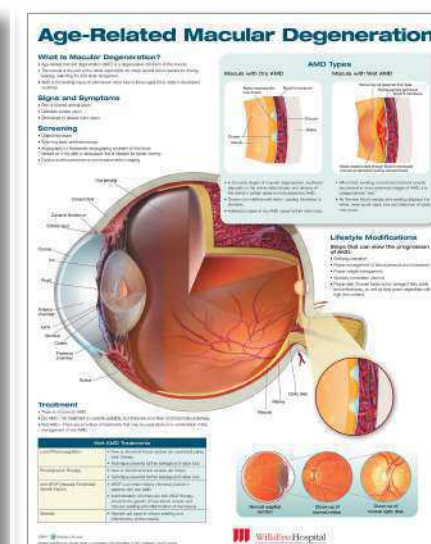
K.



L.



M.



N.

**E. 9879 Pharynx & Larynx**

978-1-58779-180-2 Laminated  
978-1-58779-181-9 Paper

**F. 9893 Middle Ear Conditions, 2nd Edition**

978-1-60547-096-2 Laminated  
978-1-60547-095-5 Paper

**G. 9895 Ear, Nose & Throat**

978-1-58779-115-4 Laminated  
978-1-58779-116-1 Paper

**H. 9891 Anatomy of the Inner Ear**

978-1-58779-085-0 Laminated  
978-1-58779-086-7 Paper

**I. 9890 The Ear—Organs of Hearing and Balance**

978-1-58779-120-8 Laminated  
978-1-58779-121-5 Paper

**J. 9691 The Eye**

978-1-58779-126-0 Laminated  
978-1-58779-127-7 Paper

**K. 9694 The Eye: Anterior and Posterior Chambers**

978-1-58779-132-1 Laminated  
978-1-58779-133-8 Paper

**L. 9695 Disorders of the Eye, 2nd Edition**

978-1-58779-925-9 Laminated  
978-1-58779-924-2 Paper

**M. Understanding Glaucoma**

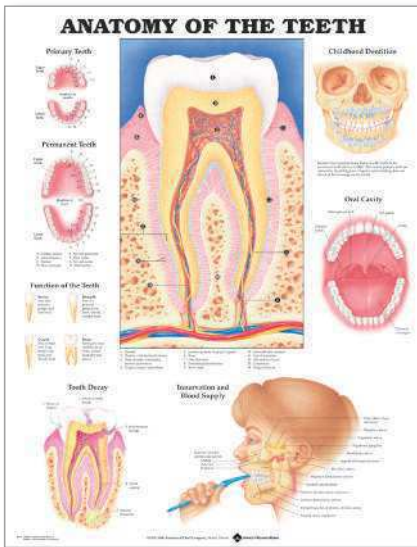
978-1-49638-014-2 Laminated  
978-1-49638-016-6 Paper

**N. Age-Related Macular Degeneration**

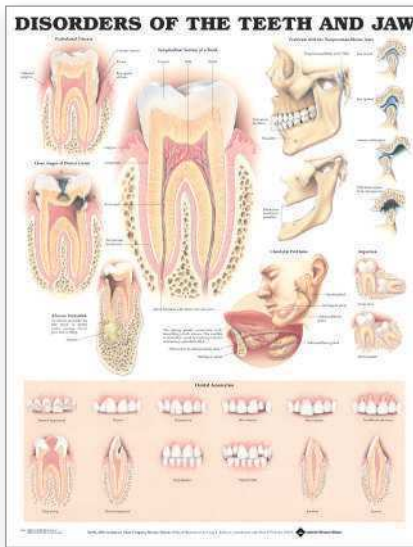
978-1-49638-130-9 Laminated



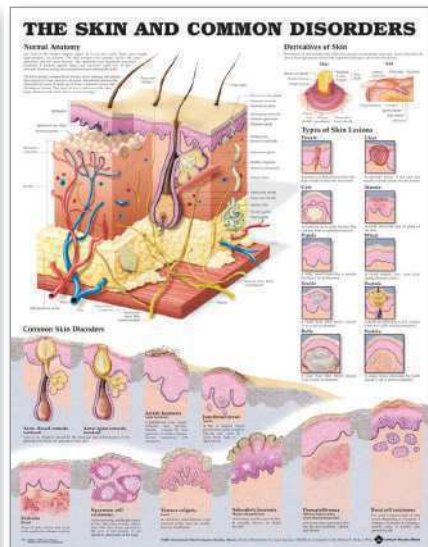
A.



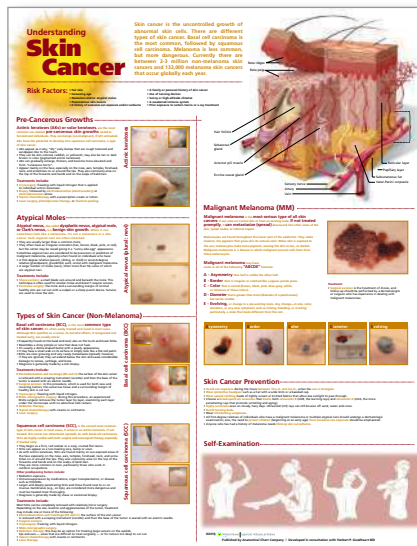
B.



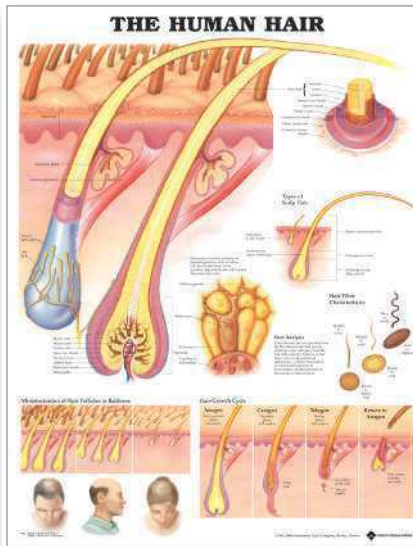
C.



D.



E.



F.

**A. 9932 Temporomandibular Joint (TMJ)**

978-1-58779-295-3 Laminated  
978-1-58779-296-0 Paper

**B. 9931 Anatomy of the Teeth**

978-1-58779-099-7 Laminated  
978-1-58779-100-0 Paper

**C. 9866 Disorders of the Teeth and Jaw**

978-1-58779-249-6 Laminated  
978-1-58779-250-2 Paper

**D. 9940 The Skin and Common Disorders**

978-1-58779-613-5 Laminated  
978-1-58779-612-8 Paper

**E. 9998 Understanding Skin Cancer, 2nd Edition**

978-1-60547-094-8 Laminated  
978-1-60547-093-1 Paper

**F. 9942 The Human Hair**

978-1-58779-163-5 Laminated  
978-1-58779-164-2 Paper

**G. 9652 The Female Reproductive System**

978-1-58779-020-1 Laminated  
978-1-58779-021-8 Paper

**H. 2166 The Female Breast**

978-0-7817-8217-3 Laminated  
978-0-7817-8216-6 Paper

**I. 9740 Infertility, 2nd Edition**

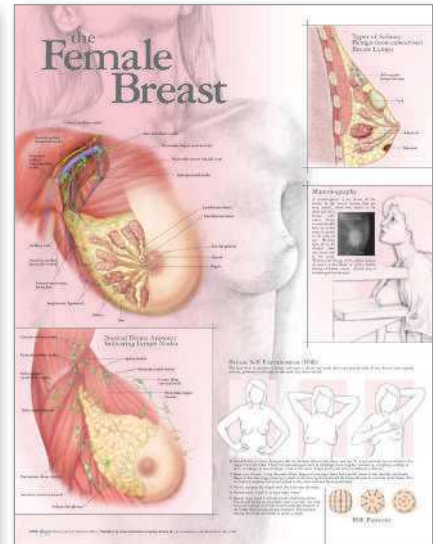
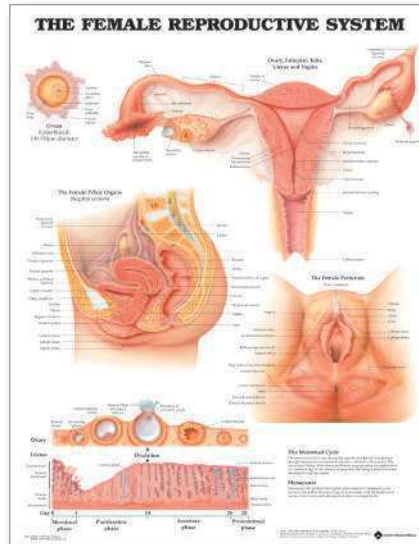
978-1-58779-859-7 Laminated  
978-1-58779-858-0 Paper

**J. 2265 Prenatal Development**

978-0-7817-8227-2 Laminated  
978-0-7817-8226-5 Paper

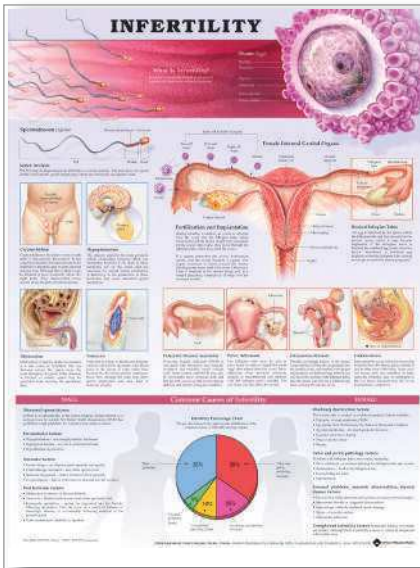
**K. 9981 Pregnancy and Birth**

978-1-58779-184-0 Laminated  
978-1-58779-185-7 Paper  
978-0-7817-8220-3 Paper (Spanish)

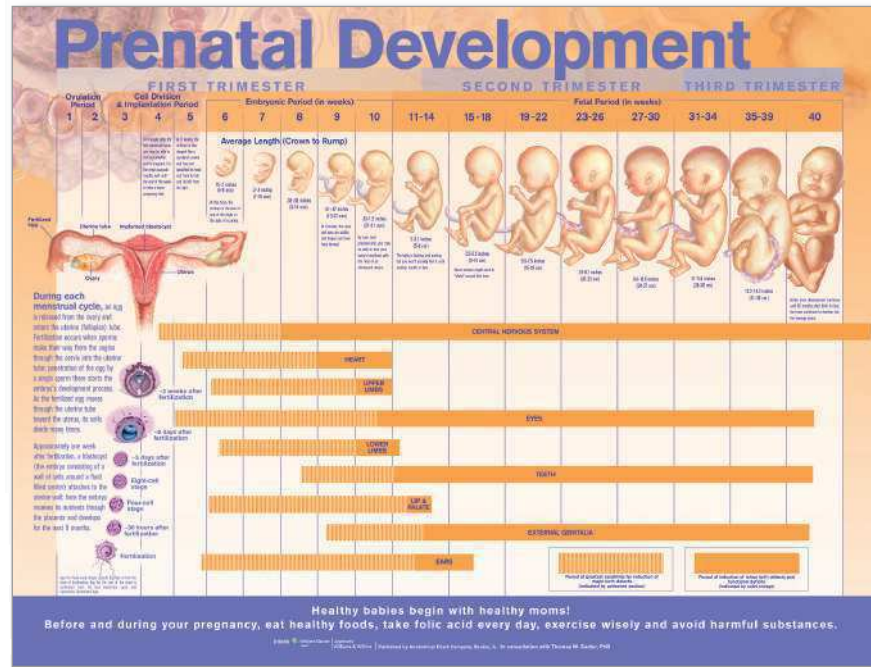


G.

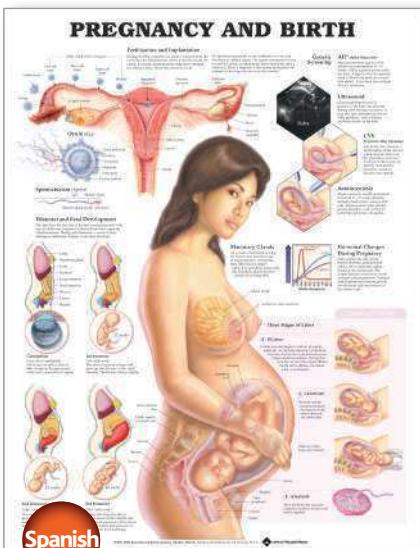
H.



I.



J.



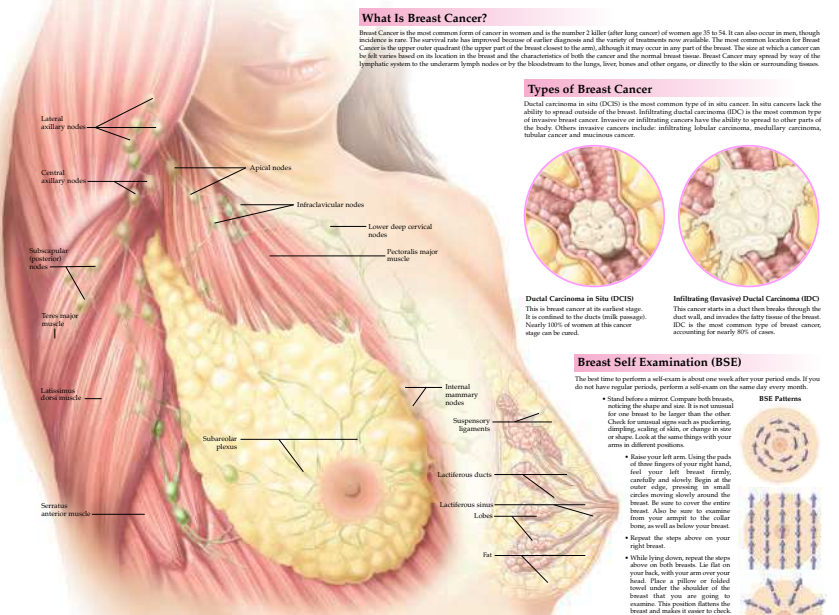
K.

Be sure to see ...

- Alternative Therapy Resources (pages 36-37)
- Anatomical Chart Collections (pages 27-30)
- Anatomical Models (pages 42-57)
- Gifts (page 75)
- Reference Materials & Study Aids (pages 31-34)
- Skeletal Models (pages 58-74)

Spanish

# Understanding Breast Cancer



### What Is Breast Cancer?

Breast Cancer is the most common form of cancer in women and is the number 2 killer (after lung cancer) of women age 18 to 54. It can also occur in men, though incidence is rare. The survival rate has improved because of earlier diagnosis and the variety of treatments now available. The most common location for Breast Cancer is the upper outer quadrant (the upper part of the breast closest to the arm), although it may occur in any part of the breast. The size of which a cancer can be felt varies based on its location in the breast and the characteristics of both the cancer and the normal breast tissue. Breast Cancer may spread by way of the lymphatic system to the axillary lymph nodes or by the bloodstream to the lungs, liver, bones and other organs, or directly to the skin or surrounding tissues.

### Types of Breast Cancer

Ductal carcinomas in situ (DCIS) is the most common type of in situ cancer. In situ cancers lack the ability to spread outside of the organ in which they are found. Infiltrating ductal carcinoma (IDC) is the most common type of invasive breast cancer. Invasive or infiltrating cancers have the ability to spread to other parts of the body. Other invasive cancers include: infiltrating lobular carcinoma, medullary carcinoma, tubular cancer and mucinous cancer.



### Ductal Carcinoma in Situ (DCIS)

This is breast cancer at its earliest stage. It is confined to the ducts (milk passages). Nearly 100% of women at this cancer stage will be cured.

### Infiltrating (Invasive) Ductal Carcinoma (IDC)

This cancer starts as a duct then breaks through the duct wall, and invades the fatty tissue of the breast. IDC is the most common type of breast cancer, accounting for nearly 80% of cases.

### Breast Self Examination (BSE)

The best time to perform a self-exam is about one week after your period ends. If you do not have regular periods, perform a self-exam on the same day every month.

### BSE Patterns

- **Before a mirror:** Compare both breasts, noting the shape and size. It is not unusual for one breast to be larger than the other. Check for unusual signs such as puckering, dimpling, swelling of skin, or change in size or shape. Look at the same things with your arms in different positions.
- **Raise your left arm:** Using the pads of your fingers (your right hand), feel your left breast firmly, carefully and slowly. Begin at the outer edge, pressing in small circles moving slowly around the breast. Be sure to cover the entire breast. Also be sure to examine from your armpit to the collar bone, as well as below your breast.
- **Repeat the steps above on your right breast.**
- **While lying down:** repeat the steps above on both breasts. Lie flat on your back, with your arm over your head. Place a pillow or folded towel under the shoulder of the breast that you are going to examine. This position flattens the breast and makes it easier to check.

### Signs and Symptoms

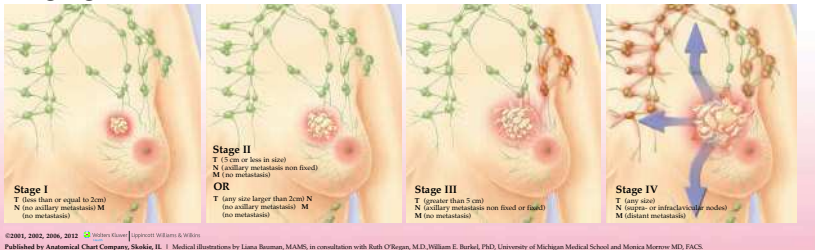
- A lump or mass in the breast
- Change in shape or size of the breast
- Change in the skin, such as thickening or dimpling, scaly skin around the nipple, an orange-peel-like appearance, or ulcers
- Discharge from the nipple that occurs without squeezing the nipple
- Change in the nipple, such as itching, burning, erosion, or retraction
- Swelling of the arm
- Pain (with an advanced tumor)
- Change in skin temperature or color (a warm, hot, or pink area)

### Risk Factors for Breast Cancer

- The cause of breast cancer isn't known, but the higher incidence in women suggests that estrogen is a cause or contributing factor. Women who are at increased risk include those who:
  - have a family history of breast cancer in close relatives (mother, sister, daughter)
  - have a long menstrual history (begin menstruating at an early age or experienced menopause late)
  - have had cancer in one breast
  - have had breast biopsy showing atypical hyperplasia (increased cell production)
  - were first pregnant after age 31
  - have never been pregnant
  - were exposed to low-level ionizing radiation

### Staging

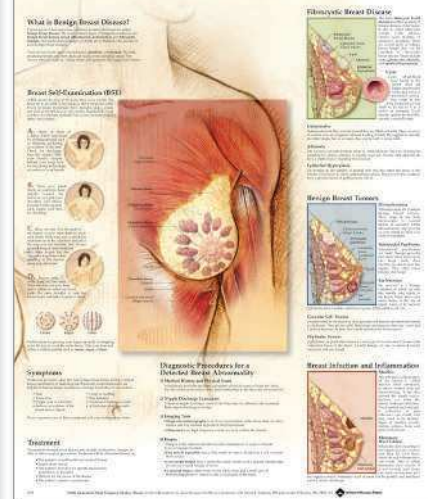
Clinical Staging is a part of the pre-treatment evaluation and is performed based on physical exam and x-rays studies. The final (pathologic) stage is determined by microscopic examination of the biopsied tissue and auxiliary specimens to assess the size of the cancer and the presence of lymph node involvement, and the possibility of systemic metastases (spread of cancer outside of the breast and lymph nodes). The most commonly used system is the **Tumor-Node-Metastasis system (TNM)**. T represents the tumor, N the lymph node involvement, and M the metastasis of any.



©2001, 2002, 2006, 2012. © 2005 Cancer Support. Written & Edited by Liana Thomas, MAAS, in consultation with Ruth O'Regan, MD, William E. Barlow, PhD, University of Michigan Medical School and Monica Morrow, MD, FACS.

A.

## BENIGN BREAST DISEASE



B.

## Common GYNECOLOGICAL DISORDERS



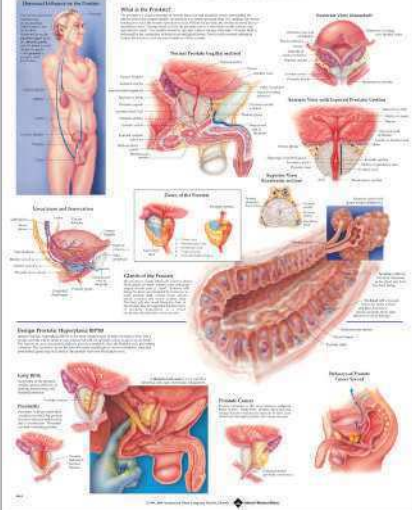
C.

## Understanding Menopause



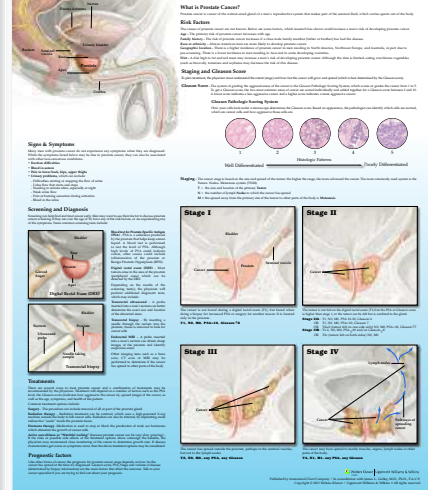
D.

## THE PROSTATE



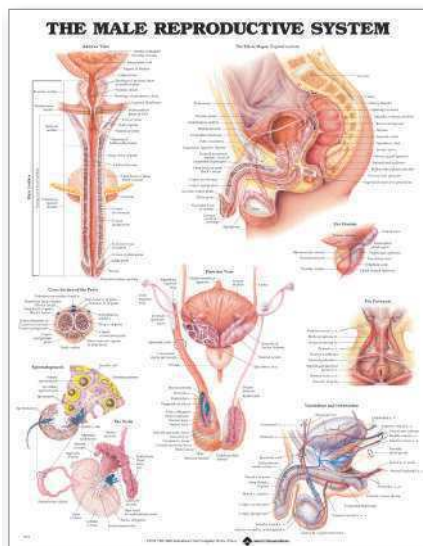
E.

## UNDERSTANDING PROSTATE CANCER

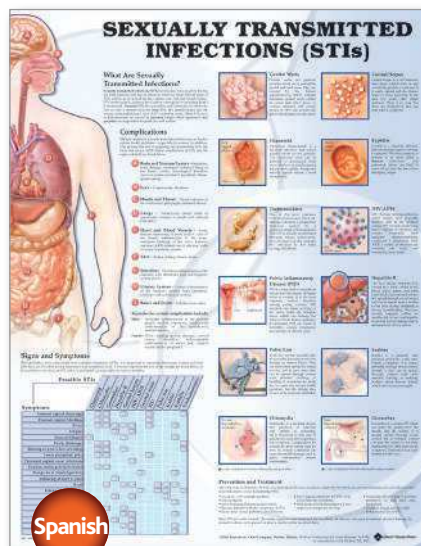


F.





G.



H.

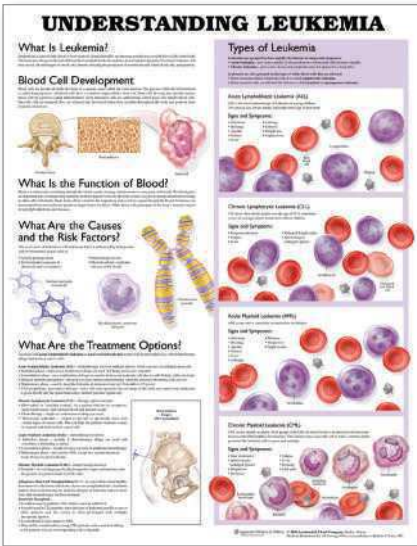
Spanish



I.

**A. 5645 Understanding Breast Cancer, 3rd Edition**978-1-4511-8565-2 Laminated  
978-1-4511-8564-5 Paper**B. 9759 Benign Breast Disease**978-1-58779-674-6 Laminated  
978-1-58779-673-9 Paper**C. 3508 Common Gynecological Disorders**978-0-7817-7351-5 Laminated  
978-0-7817-7350-8 Paper**D. 9977 Understanding Menopause, 3rd Edition**978-0-7817-7313-3 Laminated  
978-0-7817-7312-6 Paper**E. 9863 The Prostate**978-1-58779-189-5 Laminated  
978-1-58779-190-1 Paper**F. 2241 Understanding Prostate Cancer, 2nd Edition**978-1-4511-9169-1 Laminated  
978-1-4511-9168-4 Paper**G. 9672 The Male Reproductive System**978-1-58779-030-0 Laminated  
978-1-58779-031-7 Paper**H. 9765 Sexually Transmitted Infections (STIs), 2nd Edition**978-1-58779-850-4 Laminated.  
978-1-58779-849-8 Paper.  
978-0-7817-7344-7 Laminated (Spanish).  
978-0-7817-7341-6 Paper (Spanish).**I. 3381 Hand Hygiene**

978-1-4511-9338-1 Laminated



*Increase cancer awareness with specialized charts that make consults and patient education easier.*

**Understanding Breast Cancer, 3rd Edition**

978-1-4511-8565-2

**Non-Small Cell Lung Cancer**

978-1-4963-6952-9

**Understanding Colorectal Cancer**

978-0-7817-7334-8

**Understanding Kidney Cancer**

978-0-7817-8650-8

**Understanding Leukemia**

978-1-58779-976-1

**Understanding Liver Cancer**

978-1-60547-092-4

**Understanding Lung Cancer**

978-0-7817-7325-6

**Multiple Myeloma**

978-1-4511-9169-1

**Understanding Pancreatic Cancer**

978-1-6083-1217-7

**Understanding Prostate Cancer, 2nd Edition**

978-1-4963-6950-5

**Understanding Skin Cancer, 2nd Edition**

978-1-60547-094-8

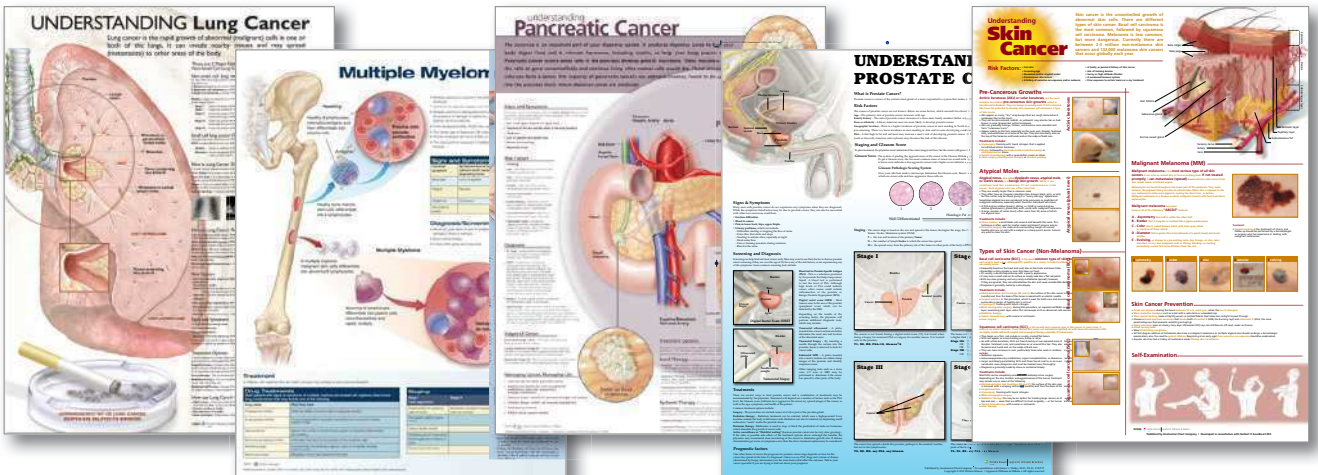
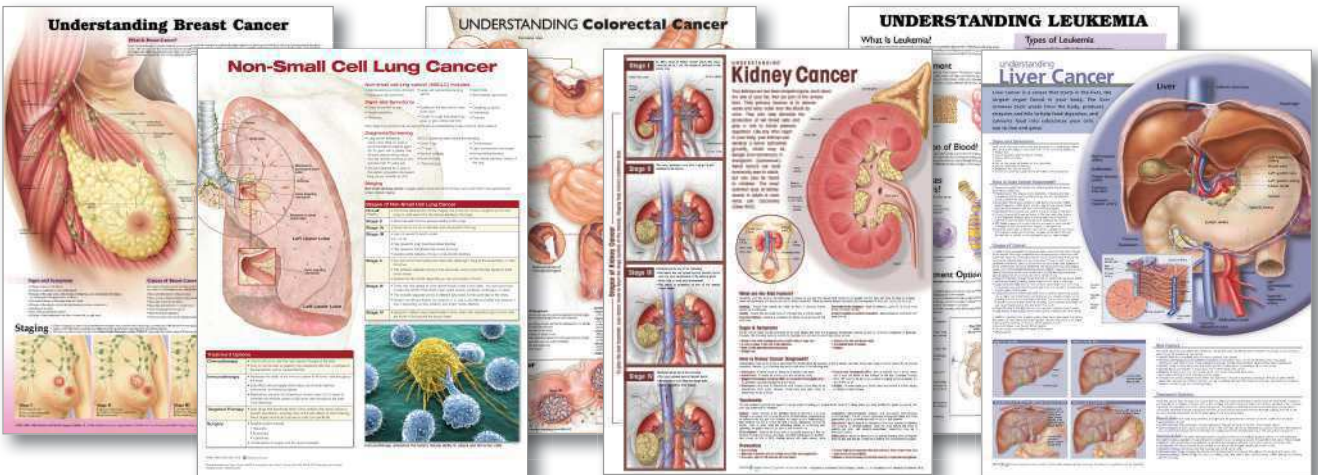
**9761 Understanding Leukemia**

978-1-58779-976-1

Laminated

978-1-58779-975-4

Paper





*Build your collection with our wide range of anatomical charts — available in every specialty area!*



**ALSO AVAILABLE ...**

*Save 15% over individual chart prices!*

**Hand and Foot Chart Set**

HWI

- Includes 3 charts: Anatomy & Injuries of the Hand & Wrist, Anatomy & Injuries of the Foot & Ankle, and Understanding Carpal Tunnel Syndrome



## Chart Stands



FDU2

**Space-Saver Floor Display Stand**

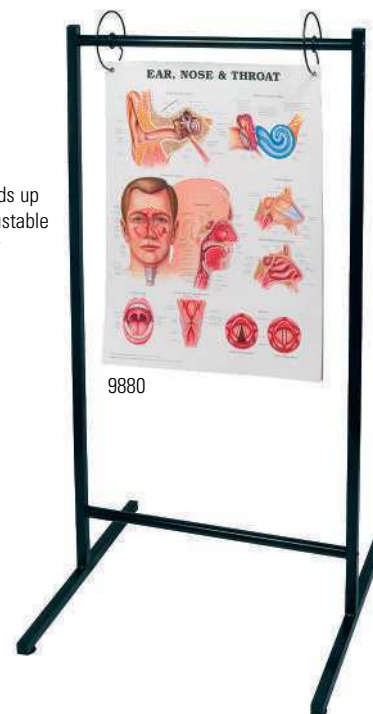
FDU2

Hang up to 18 laminated charts on nine steel arms for eye-level viewing. The 17" x 60" floor stand easily converts into a 17" x 30" tabletop unit. Assembles in minutes. Black finish. Weight: 16 lbs. For laminated charts only.

**Portable Chart Stand**

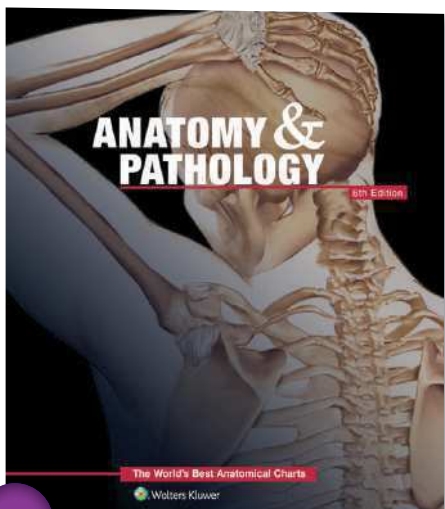
9880

Lightweight, aluminum stand holds up to 25 same-format charts on adjustable floating rings. Charts flip over for convenient viewing. Black finish. Weight: 8 lbs. Size: 28" x 53".



9880

*Keep the full collection of flagship charts at your fingertips for consultations, lectures, or study sessions.*



UPDATED

**Anatomy & Pathology, Systems & Structures, and Diseases & Disorders** are essential additions to every library, whether you are a health care professional, a student, or an interested consumer. The chart format provides a clear and visual understanding of human anatomy, physiology, and diseases. Medical terminology and easy-to-understand supporting text are printed directly on each chart so you never have to refer to separate key cards or manuals. The spiral-bound softcover book format is ideal for studying human anatomy, patient consultation, or quick reference. Size: 10" x 12".

### Anatomy & Pathology, 6th Edition – 52 Charts

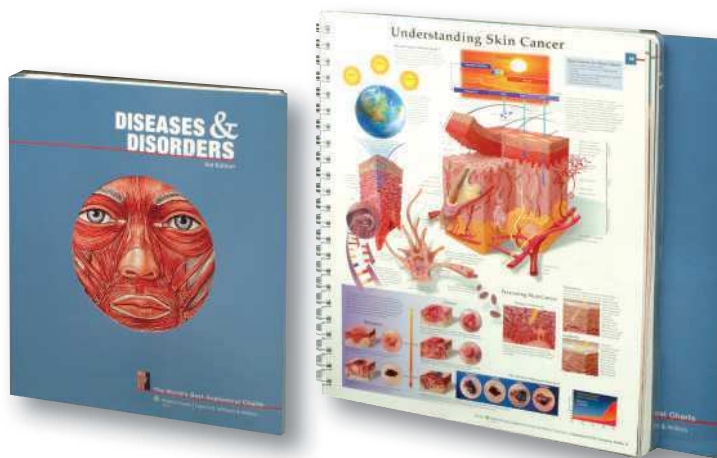
978-1-4698-8990-0

**Now fully updated** to include more diseases and significant health topics. You'll welcome the:

- **spiral binding** that allows the book to lie flat for easy reference
- **52 full-color charts** created by elite medical illustrators
- **up-to-the-minute facts** on high blood pressure, sleep disorders, allergies, cancer, pregnancy, and more
- **clear, concise supporting points** printed directly on each chart — no loose papers to misplace.

Contents:

**Systems of the Body** – 12 charts **Structures of the Body** – 16 charts  
**Diseases and Disorders** – 24 charts



### Diseases & Disorders, 3rd Edition – 70 Charts

978-0-7817-8211-1

Contents:

**Brain Diseases & Disorders** – 9 charts  
**Cancer** – 7 charts  
**Cardiovascular and Venous Diseases & Disorders** – 6 charts  
**Dental Diseases & Disorders** – 2 charts  
**Digestive System Diseases & Disorders** – 3 charts **Endocrine System Diseases & Disorders** – 4 charts  
**Eye and Ear Diseases & Disorders** – 3 charts  
**Infectious Diseases & Disorders** – 6 charts  
**Muscular and Skeletal Diseases & Disorders** – 11 charts  
**Reproductive Diseases & Disorders** – 8 charts  
**Respiratory Diseases & Disorders** – 4 charts  
**Healthy Lifestyle Issues** – 7 charts

*Communicate clearly in Spanish with vivid illustrations and concise messages that say exactly what you mean.*

### Systems & Structures, 3rd Edition – 44 Charts

978-1-60547-104-4

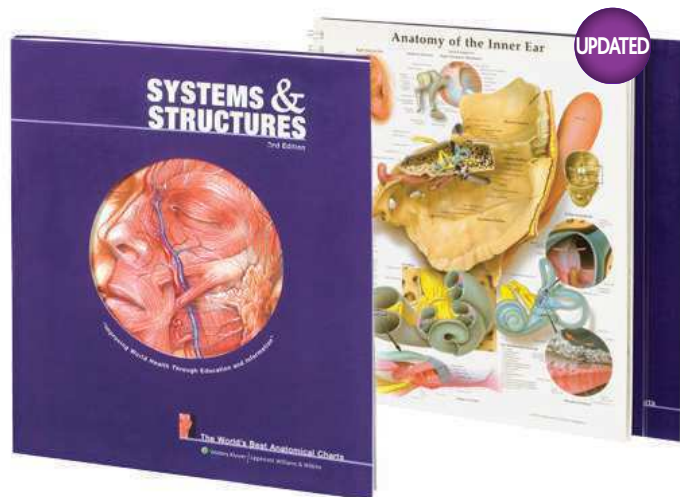
The Third Edition of Systems and Structures: The World's Best Anatomical Charts features 44 new and updated anatomical charts created by some of the world's best medical illustrators. This reference is an essential addition for every library, whether you are a health professional, student, or interested consumer.

The chart format provides a clear and visual understanding of human anatomy and physiology. Medical terminology and easy-to-understand supporting text are printed directly on each chart so you never have to refer to separate keys cards or manuals.

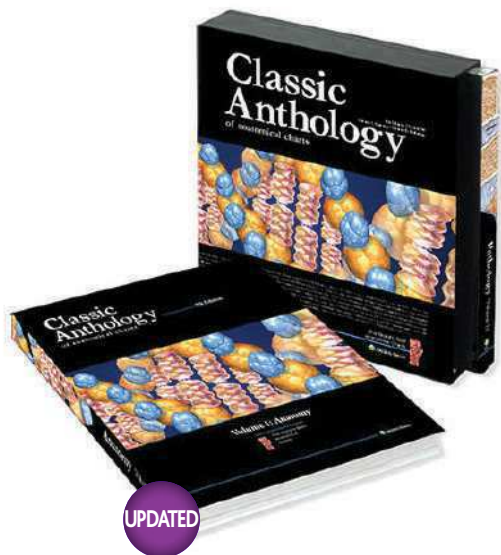
Printed in vivid, lifelike colors on high-quality paper, and spiral bound in a convenient sized format, this book is ideal for studying human anatomy, patient consultation, or quick reference.

Contents:

**Systems of the Body** – 14 charts **Structures of the Body** – 30 charts



*The essential anatomy collection with a wealth of enhancements.*



### Classic Anthology of Anatomical Charts, 8th Edition, 2-Volume Set

978-1-4698-9945-9

The Eighth Edition of the **Classic Anthology of Anatomical Charts** features 104 new and updated anatomical charts in a two-volume boxed set. This beautiful compilation provides a clear understanding of human anatomy, a visual comparison of physiological principles, and highlights important pathological conditions. Medical terminology and updated text are printed directly on each chart so you never have to refer to a separate key card or manual.

This edition has been edited to include the most popular anatomical and pathological subjects with 22 new and updated charts. Ideal for studying human anatomy, patient consultation, or quick reference, this truly is one of the most comprehensive and attractive compilations of charts on the market.

Features:

- 104 charts printed in vivid, lifelike colors
- Two volumes: Anatomy (44 charts) and Pathology (60 charts)
- Each volume has a hard cover with a side-spiral binding
- Attractive and durable storage box
- Durable laminated pages

*Clearly explain anatomy and sports injuries to your patients for better prevention and quicker return to play.*

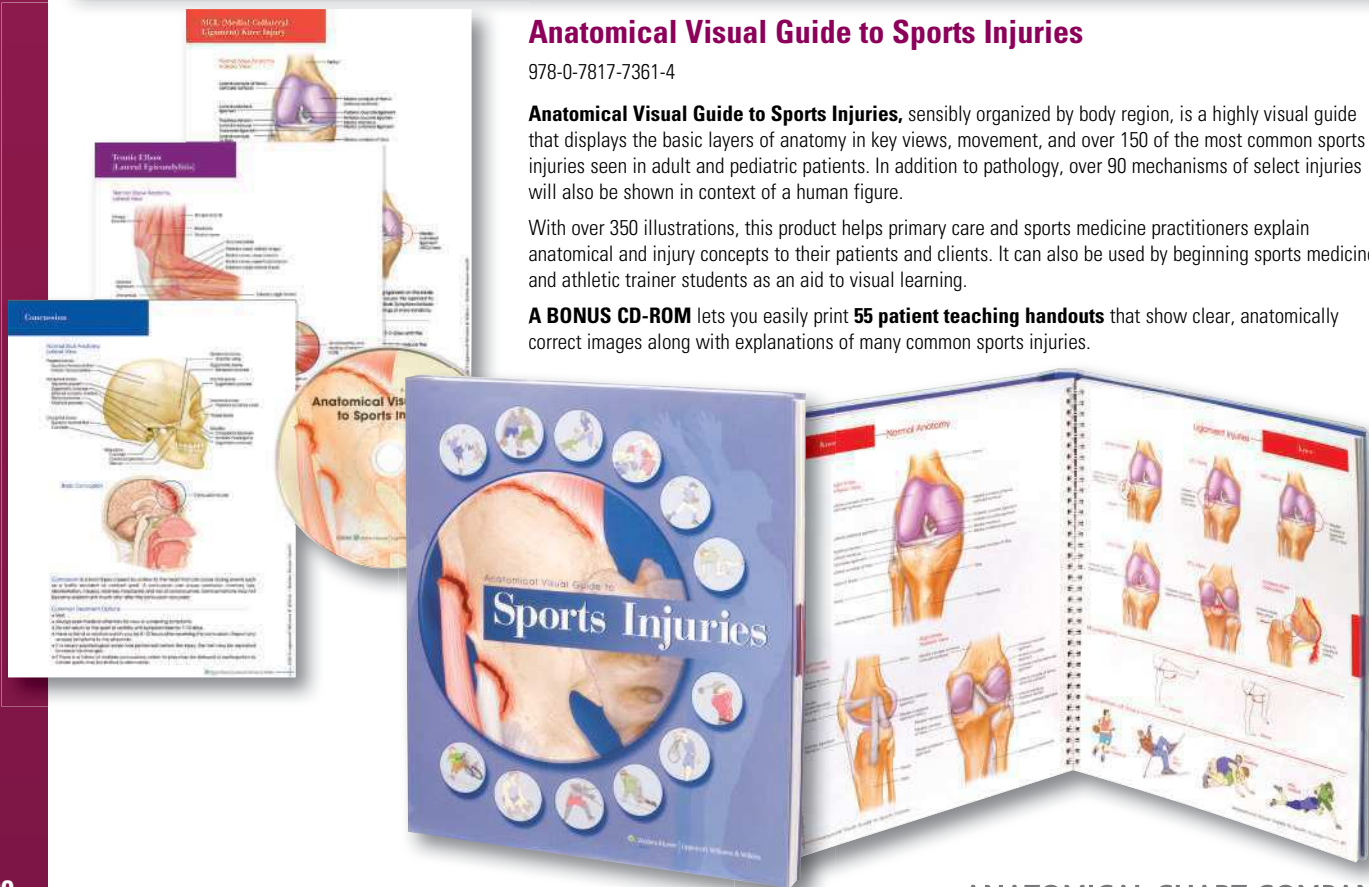
### Anatomical Visual Guide to Sports Injuries

978-0-7817-7361-4

**Anatomical Visual Guide to Sports Injuries**, sensibly organized by body region, is a highly visual guide that displays the basic layers of anatomy in key views, movement, and over 150 of the most common sports injuries seen in adult and pediatric patients. In addition to pathology, over 90 mechanisms of select injuries will also be shown in context of a human figure.

With over 350 illustrations, this product helps primary care and sports medicine practitioners explain anatomical and injury concepts to their patients and clients. It can also be used by beginning sports medicine and athletic trainer students as an aid to visual learning.

**A BONUS CD-ROM** lets you easily print **55 patient teaching handouts** that show clear, anatomically correct images along with explanations of many common sports injuries.



*Learn quickly with labeled illustrations on the left—and key facts on the right.*

## Rapid Review Reference Guide, 3rd Edition

Print Edition: 978-1-60547-102-0

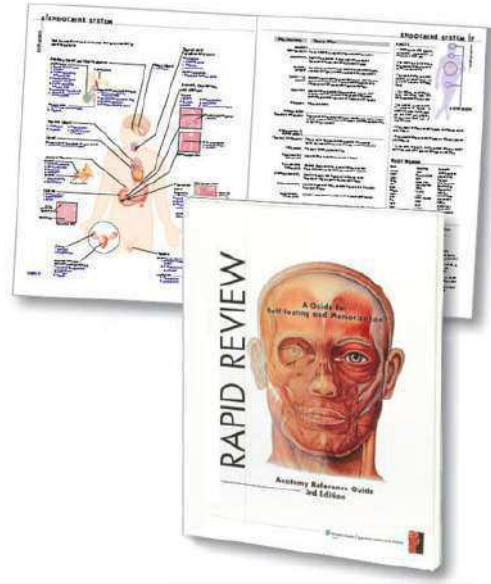
The 3rd edition of the **Rapid Review Anatomy Reference Guide** features 3 new sections — lymphatic system, immune system, and foot and ankle. This study aid continues to be a student favorite not only for its 31 sections of useful content, but because the labels of each system and organ are printed on acetate overlay pages, which allows quick and effective memorization. Designed for high school, college, and healthcare career students, this reference guide can also be used for patient education.

**On the left hand side** of each section you will find key features for effective studying:

- Illustrations of the major systems, organs and structures
- Labels of the system, organ or structure on acetate overlays for easy self-testing

**On the right hand side** of each section you will find useful related information:

- Additional 4-color illustrations
- Key facts about the system or organ
- Location of organ or system highlighted on a human figure
- Roots of key words and their meanings
- Related terminology and definitions



*Study anywhere, anytime with these on-the-go guides.*

## Illustrated Pocket Anatomy Study Guides

- These popular study guides feature a new look, updated content and improved organizational features. The durable, folding format means that our most popular anatomical images are portable for the on-the-go student. Guides show numbered anatomical structures and contain answers that can be concealed for easy self-testing and memorization. Write-on/wipe-off laminated surface.
- Folded size: 9" x 4", unfolded size: 9" x 24"

### Individual Study Guides

#### Muscular and Skeletal Systems, 2nd Edition

978-0-7817-7678-3

#### Anatomy of the Heart, 2nd Edition

978-0-7817-7681-3

#### Anatomy of the Brain, 2nd Edition

978-0-7817-7683-7

#### Spinal Nerves and the Autonomic Nervous System, 2nd Edition

978-0-7817-7684-4

#### Circulatory System, 2nd Edition

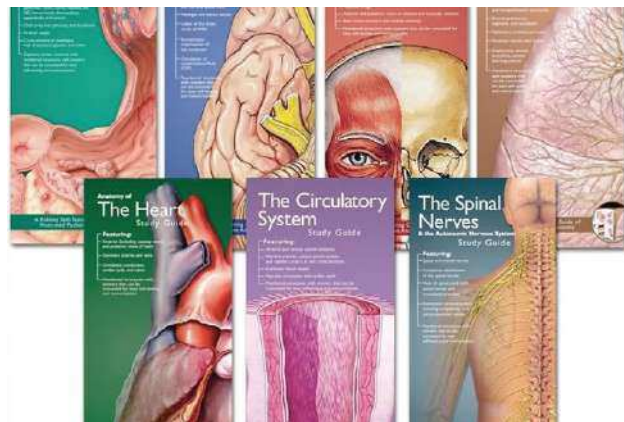
978-0-7817-7685-1

#### Anatomy and Disorders of the Respiratory System, 2nd Edition

978-0-7817-7686-8

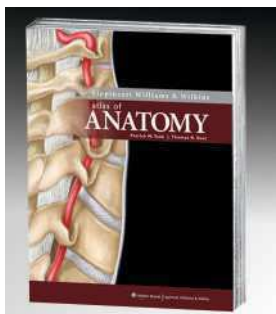
#### Anatomy and Disorders of the Digestive System, 2nd Edition

978-0-7817-7688-2

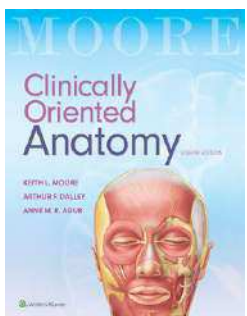




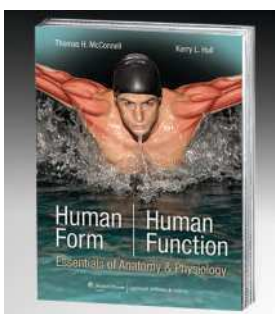
A.



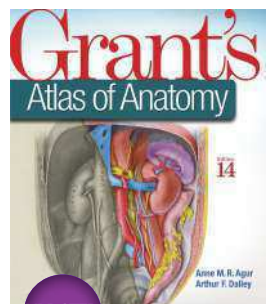
B.



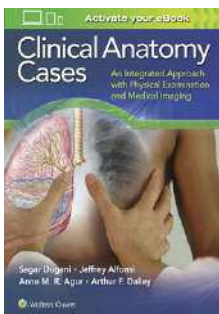
D.



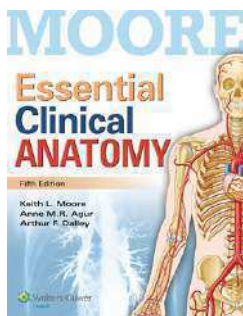
F.



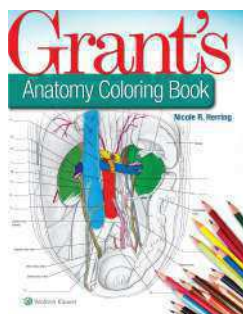
H.



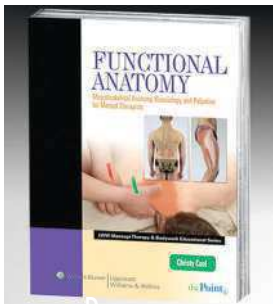
C.



E.



G.



I.

### A. AclandAnatomy.com Institutional version (annual):

978-1-4511-2776-8

### Single User Version (1-year online subscription):

978-1-60913-434-1

### Single User Version (6-month online subscription):

978-1-60913-434-1

- AclandAnatomy.com supports the teaching and learning of anatomy with more than 300 narrated videos of REAL cadaver specimens. Your subscription gives you anytime, anywhere access—from any smartphone or tablet.

### B. Lippincott Williams & Wilkins Atlas of Anatomy

978-0-7817-8505-1

- This vibrantly colored regional atlas of human anatomy offers an unprecedented combination of visual aesthetic appeal and anatomical accuracy. With minimal text and labeling, the illustrations were each designed with a teaching objective in mind, aiding immediate focus, and easier and faster comprehension.

### C. Clinical Anatomy Cases

978-1-4511-9367-1

- Carefully organized content presents normal, clinical, and radiologic anatomy, along with case examples, relevant physical examination information, and clinical pearls.

### D. Clinically Oriented Anatomy, 8th Edition

**North American Edition:**

978-1-4963-4721-3

**International Edition:**

978-1-4963-5404-4

- Renowned for comprehensive coverage, the best-selling Clinically Oriented Anatomy guides students from initial anatomy and foundational science courses through clinical training and practice. The eighth edition reflects significant new information and updates and maintains the highest standards for scientific and clinical accuracy. Comprehensive updates reflect changes in the clinical application of anatomy as well as new imaging technologies, focusing on the anatomy that students need to know.

### E. Essential Clinical Anatomy, 5th Edition

**North American Edition:**

978-1-4511-8749-6

**International Edition:**

978-1-4698-3201-2

- Presents core anatomical concepts in a concise, student-friendly format. The text includes the hallmark clinical *Blue Boxes*,

as well as surface anatomy and medical imaging features. It is an ideal text for shorter medical courses and health professions courses with a condensed coverage of anatomy.

### F. Human Form, Human Function: Essentials of Anatomy & Physiology

978-0-7817-8020-9

- This original text offers an accessible and casual narrative style, dynamic artwork, and a complete suite of ancillaries help build a solid foundation and spark students' enthusiasm for learning the human body. A companion Website includes the full-text online, podcasts, an online Dissection Atlas, animations, additional review questions, answers to various chapter questions, an online Instructor's Manual, and PowerPoint® slides.

### G. Grant's Anatomy Coloring Book

978-1-4963-5125-8

- Grant's Anatomy Coloring Book uses an interactive approach to help students deepen and reinforce their anatomical knowledge. Integrating visual and kinesthetic learning activities with an efficient, high-yield review of essential information, it's the perfect way for students to deepen their grasp of the anatomy they need to know for their courses, labs, and exams!

### H. Grant's Atlas of Anatomy, 14th Edition North American Edition:

978-1-4698-9068-5

**International Edition:**

978-1-4963-1024-8

- For more than seventy years, Grant's Atlas of Anatomy has continually adapted to meet the needs of each generation of students, while maintaining the Grant's tradition of excellence. Illustrations drawn from real specimens, presented in surface-to-deep dissection sequence, set Grant's Atlas of Anatomy apart as the most accurate reference available for learning human anatomy. These realistic representations provide students with the ultimate lab resource.

### I. Functional Anatomy: Musculoskeletal Anatomy, Kinesiology, and Palpation for Manual Therapists, Revised and Updated Edition

978-1-4511-2791-1

- Helps readers explore and understand the structures, regions, and layers of the body, from bones to ligaments to superficial and deep muscles. Muscle profiles indicate origin, insertion, and innervation points while step-by-step instructions teach effective bone and muscle palpation. Includes online access to additional learning tools.



**J. Anatomy: A Photographic Atlas North American Edition:**

978-1-4511-9318-3

**International Edition:**

978-1-4963-0870-2

- This updated eighth edition of *Anatomy: A Photographic Atlas* features outstanding full-color photographs of actual cadaver dissections with accompanying schematic drawings and diagnostic images. Depicting anatomic structures more realistically than illustrations in traditional atlases, this proven resource shows students exactly what they will see in the dissection lab.

**K. Rothen's Photographic Anatomy Flash Cards**

978-1-4511-9450-0

- Derived from the leading dissection atlas *Anatomy: A Photographic Atlas* by Johannes W. Rothen, Chihiro Yokochi, and Elke Lütjen-Drecoll, these flash cards showcase full-color photographs of actual cadaver dissections. 220 cards, labeled for self-testing, serve as a practical tool to help students prepare for the dissection lab and the operating room.

**L. Moore's Clinically Oriented Anatomy Flash Cards**

978-1-4511-7335-2

- This clinically relevant anatomy flash card set is based on the concepts and full-color images in *Clinically Oriented Anatomy* and *Grant's Atlas of Anatomy*. The card set is a convenient, flexible, portable, practical study and review tool for gross anatomy courses, USMLE Step 1 preparation, clinical anatomy review during clerkships, and for dental and allied health students.

**M. Coloring Atlas of the Human Body**

978-0-7817-6530-5

- A comprehensive overview of human anatomy and physiology for visually-oriented and kinesthetic learners. Coloring a series of specially designed diagrams and accompanying flashcards aids in remembering concepts much more effectively than with traditional textbooks alone. Completed coloring exercises and flashcards can also serve as tools to review and prepare for examinations. Companion Website includes two additional coloring exercises and bonus

study and test taking tips.

**N. Lippincott's Illustrated Q&A Review of Anatomy & Embryology**

978-1-60547-315-4

- New series offers timely, clinically relevant board-style questions—ideal for course review and board prep. *Anatomy & Embryology* features anatomical, clinical (signs and symptoms), and radiological images such as ultrasounds, MRIs, and X-rays. A companion Website provides online access to Q&A.

**O. Stedman's Medical Dictionary, 28th Edition**

978-0-7817-3390-8

- Contains the latest terminology in all major specialties. More than 1,050 illustrations, photos and tables. Also available on PDA with over 102,000 terms.

**P. Stedman's Medical Dictionary for the Health Professions and Nursing, 7th Edition**

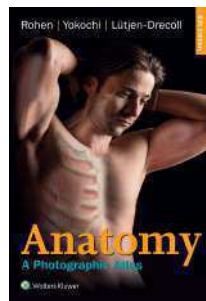
978-1-60831-692-2

- Features over 56,000 entries, 1,000 color images and photographs, anatomical insert by Anatomical Chart Company, 68 appendices and cut thumb tabs for quick reference. Includes a FREE one-year subscription to **Stedman's Online**, which contains all content from the print version in searchable, easy-to-use format, plus additional images, videos, and more than 48,000 audio pronunciations. Also included is a FREE version of **Stedman's Plus Medical/Pharmaceutical Spellchecker** (a \$99.00 value).

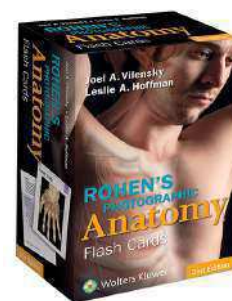
**Q. Stedman's Abbreviations, Acronyms & Symbols, 5th Edition**

978-1-60831-699-1

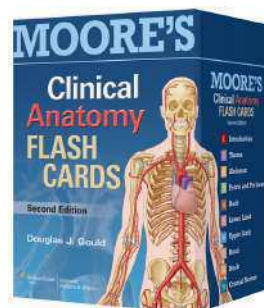
- Gain immediate access to medical terms that help you comply with the new JCAHO mandate for standardized hospital abbreviations. You'll have thousands of new abbreviations for a wide range of specialties. Includes a FREE three-month subscription to **Stedman's Online**.
- 1,200 pages, over 75,000 entries, soft cover, 6" x 9"



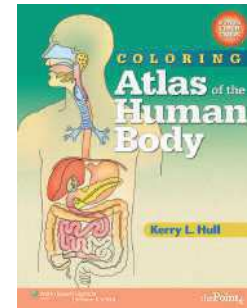
J.



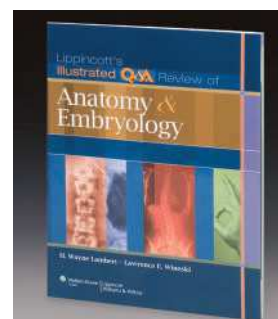
K.



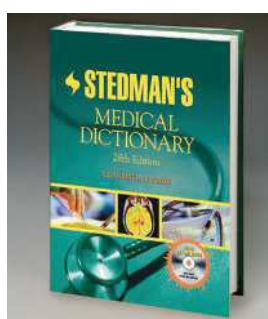
L.



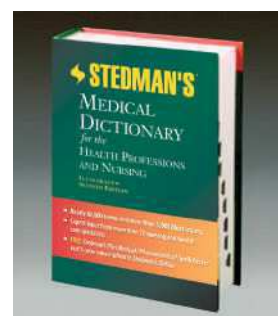
M.



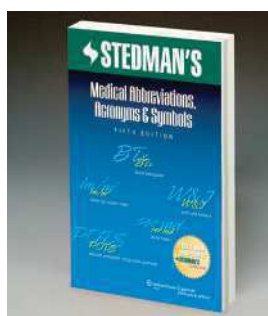
N.



O.



P.



Q.

**Rapid, Reliable Results. For the Best Patient Care.**

**5MinuteConsult.com**

**CONTINUOUSLY  
UPDATED**



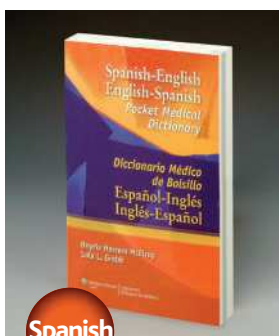
A.

#### A. 5MinuteConsult.com

Based off the best-selling clinical content in family medicine for over 20 years, this portal is the fastest way to obtain the most likely diagnosis, treatment and management of thousands of diseases, conditions, drugs and more at the point-of-care.

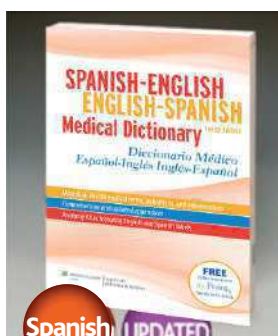
- Coverage includes over 2,000 topics - most of which are exclusively online
- Clinical decision tools include lab tests, algorithms, procedure videos and more
- Earn CME/CE credits; accredited by AAFP/AMA and ANCC
- Easy-to-understand patient handouts; customize with specific patient notes
- Available online and optimized for mobile devices
- Content from leading titles including: 5-Minute Clinical Consult, 5-Minute Emergency Medicine Consult, 5-Minute Pediatric Consult and many more
- Offers user-friendly semantic search to search across all content
- Improve patient care in clinical settings while reducing medical errors and costs
- Integrate diagnosis and treatment with Electronic Medical/Health Record Systems

Visit [5MinuteConsult.com](http://5MinuteConsult.com) to start a **FREE TRIAL!**



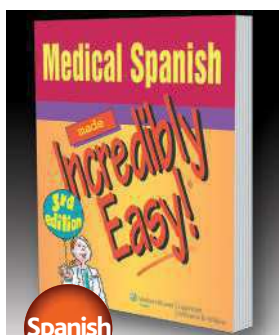
Spanish

B.



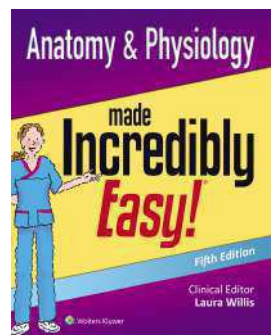
Spanish

C.



Spanish

D.



E.

#### B. Spanish-English English-Spanish Pocket Medical Dictionary

978-0-7817-7951-7

- This handy reference will help non-Spanish-speaking physicians and other health care providers communicate with Spanish-speaking patients with greater precision and ease. This portable pocket-size book contains over 12,000 terms and includes a section on common medical abbreviations.

#### C. Spanish-English English-Spanish Medical Dictionary, 4th Edition

978-1-60831-129-3

- Designed to give easier and faster access to over 23,000 comprehensive medical terms, technology-related medical terms, and medical abbreviations, plus definitions, translations, tips on pronunciation, signs and symptoms of common disorders, practical phrases used in daily communication with patients, and much more.
- 912 pages, soft cover

#### D. Medical Spanish Made Incredibly Easy!, 3rd Edition

978-0-7817-8941-7

- Presents Spanish words, phrases, questions, and instructions of all body systems, signs and symptoms, and diagnostic tests. Features include a picture dictionary, clear body-system illustrations with labels in both languages, rules of Spanish pronunciation and grammar, and indexes in English and Spanish. A companion Website offers audio files with correct pronunciations for hundreds of medical terms in English and Spanish, downloadable to a computer or MP3 player.
- 352 pages, 200 illustrations, soft cover

#### E. Anatomy & Physiology Made Incredibly Easy!, 5th Edition

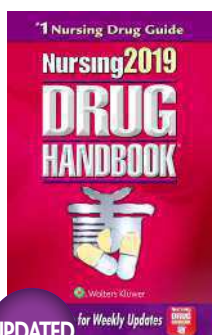
978-1-4963-5916-2

- No need to feel stressed over anatomy and physiology, grasp all the basic terms and concepts, with the fully updated *Anatomy and Physiology Made Incredibly Easy!, 5th Edition*. Using humor and friendly guidance, this colorful text gives you the pure-and-simple clarity you need to understand the basic structure and functions of all major body systems, while also guiding you through genetics, nutrition, reproduction, and more.
- 448 pages, soft cover

#### F. Nursing 2019 Drug Handbook, 39th Edition

978-1-4963-8407-2

- The #1 Drug Guide for nurses & other clinicians—always dependable, always up to date! Completely updated nursing-focused drug monographs featuring over 3,650 generic, brand-name, and combination drugs in an easy A-to-Z format. More than 8,000 clinical updates, new dosages and indications, Black Box warnings, adverse reactions, nursing considerations, clinical alerts, and patient teaching information.



F. UPDATED

for Weekly Updates



**"Blueprint for Health"  
Series Chart Set**  
*Save over 20%*

SAVE

KSSST9

- A collection of 9 charts designed for 8- to 10-year-olds. Each chart illustrates its subject in colorful, clear pictures. Concepts are explained in easily understood anatomically correct terms and text.
- Each chart measures 20"x 26" and is laminated for durability with eyelets for hanging.

**Individual laminated charts**

**A. Your Respiratory System**

978-1-58779-741-5

**B. Your Taste and Smell**

978-1-58779-747-7

**C. Your Brain and Nerves**

978-1-58779-743-9

**D. Your Ears Hearing and Balance**

978-1-58779-751-4

**E. Your Eyes**

978-1-58779-749-1

**F. Your Digestive System**

978-1-58779-739-2

**G. Your Skeleton**

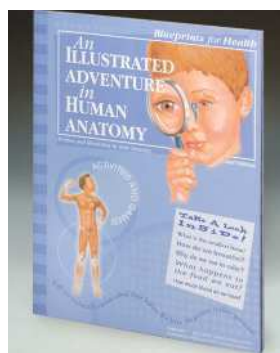
978-1-58779-735-4

**H. Your Muscles**

978-1-58779-737-8

**I. Your Heart and Blood**

978-1-58779-745-3



J.

**J. An Illustrated Adventure in Human Anatomy, 2nd Edition**

978-1-58779-490-2

- Designed for ages 8-12. The skeletal, muscular, digestive, and respiratory systems as well as the brain & nerves, heart & blood, eyes and ears are all illustrated with kid-friendly pictures and easy to understand descriptions and anatomically correct terms.
- Soft cover, 56 pages. 8-1/2"x 11"



K.

**K. Petit Pete Skeleton**

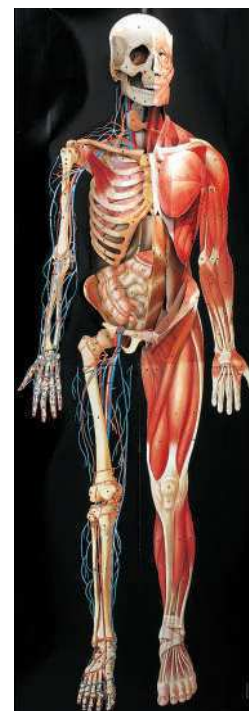
CMSGP

- Pete's arms and legs are affixed with tiny screws to allow movement and are realistically jointed at the elbow and knee.
- Size: 8-1/2" tall, 9-1/2" tall on stand (included). Choking hazard: small parts. Not for children under 3 years.

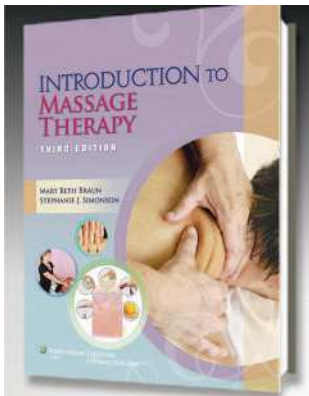
**L. Dimensional Man Chart**

978-0-671-70342-4

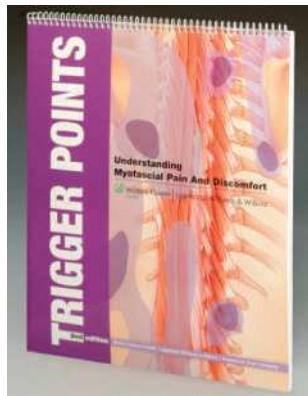
- This life-size anatomical chart transforms into a 3-dimensional model in minutes. Study various organs by unlatching or turning movable parts to reveal inner structures. Includes an index identifying over 300 bones, muscles, organs, arteries and veins.
- Size: 72" tall.



L.



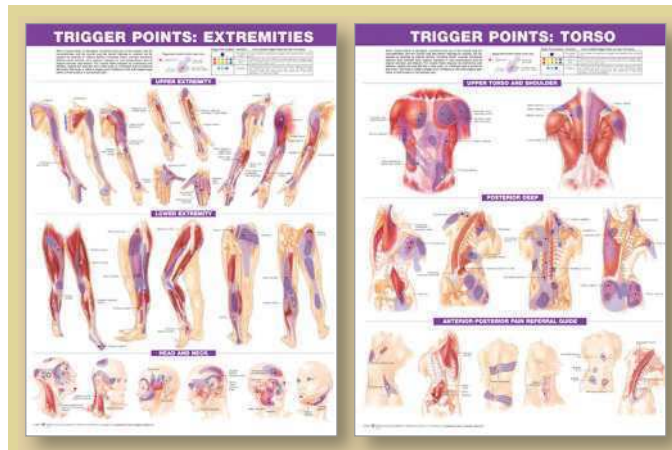
A.



B.



C.



D.

**A. Introduction to Massage Therapy, 3rd Edition**

978-1-4511-7319-2

- A comprehensive, user-friendly introductory text that helps beginning students learn history, anatomy, physiology, pharmacology, assessment, terminology and pathology. Illustrations and artwork clarify anatomy, positioning and hands-on techniques.
- 544 pages, 400 illustrations, soft cover

**B. Trigger Points: Understanding Myofascial Pain and Discomfort, 2nd Edition**

978-1-58779-959-4

- Flip chart is perfect visual aid for explaining role of trigger points in causing pain and discomfort. Includes 33 detailed anatomical illustrations of trigger points, affected pain sensitive areas and 22 diagrams of pain relief exercises. Built-in easel.
- Nine markable, laminated pages. Size: 11" x 14"

**C. Travell and Simons' Trigger Point Flip Charts**

978-0-683-18008-4

- From definitive work on locating trigger points and easing myofascial pain. All upper and lower extremity pain patterns and corresponding trigger points clearly illustrated in convenient spiral bound flip chart. Includes folding easel.
- 24 pages, size: 12" x 15"

**D. Trigger Point Chart Set: Torso and Extremities, 2nd Edition**

978-0-7817-7306-5 (heavy paper)

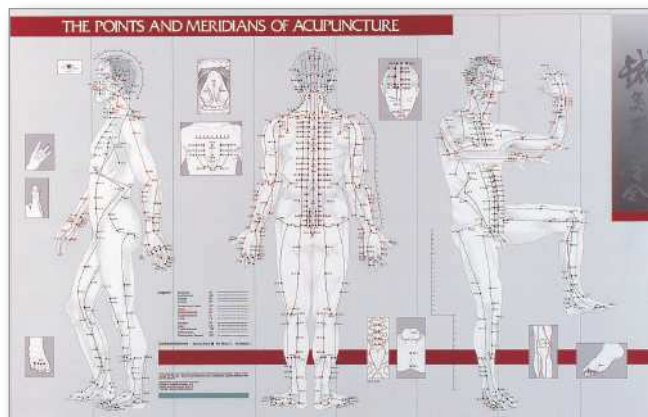
978-0-7817-7307-2 (laminated)

- Clearly labels specific muscles affected by trigger points. Colorfully illustrated trigger point locations, primary and secondary pain sensitive zones, origins and insertions for many impacted muscles.
- Set of 2 charts, each 20" x 26"

**E. The Points and Meridians of Acupuncture**

RW1L

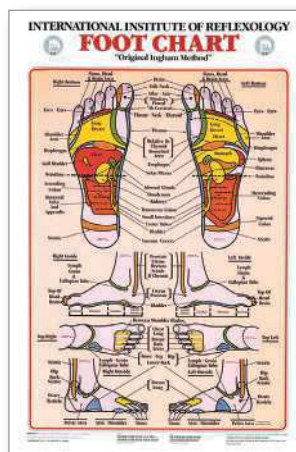
- Based on Dr. James Tin Yau So's *Book of Acupuncture Points*, this chart combines 3 separate views and many smaller illustrations on one 23" x 36" chart. Concentrating on channel point positions, it also includes the major extra points with contraindication.
- Laminated for durability.



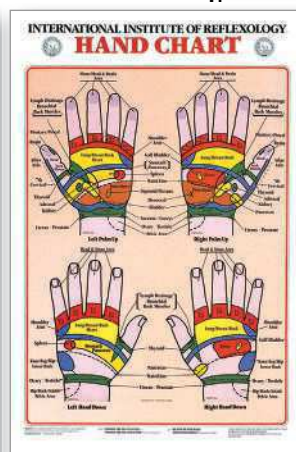
E.



F.



G.



H.



I.

### F. Acupoints of Traditional Chinese Medicine

RW2L

- Front, back and side views include the 14 main meridians and points of traditional Chinese medicine and over 110 anatomical landmarks and muscle references commonly used when describing acupoint locations. Laminated.
- Size: 24" x 36"

### G. Foot Reflexology Chart

FWC20L

- From the International Institute of Reflexology, this chart shows anatomical relationships between foot reflexes and corresponding areas of the body. Laminated.
- Size: 17" x 31"

### H. Hand Reflexology Chart

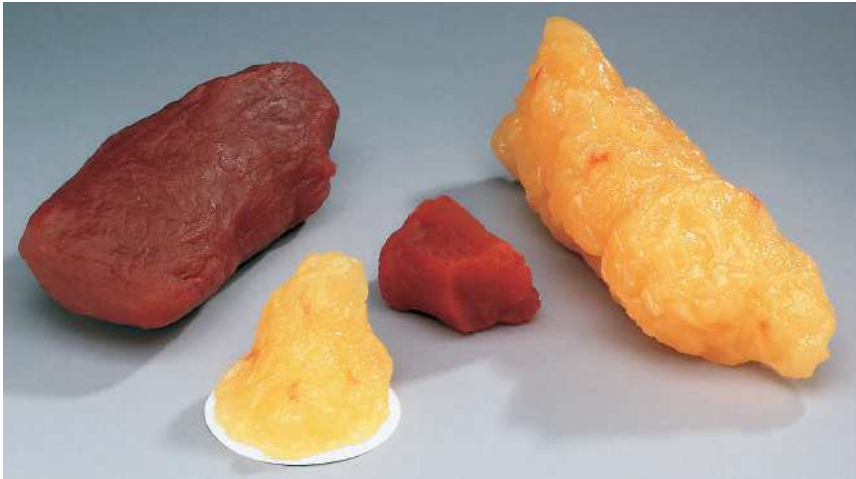
HWC30L

- From the International Institute of Reflexology, this chart shows anatomical relationships between hand reflexes and corresponding areas of the body. Laminated.
- Size: 17" x 31"

### I. Reflexology Chart

EE1L

- This colorful chart locates these reflex points, which then allows you to work these areas for maximum results, contributing to general health and well-being.
- Laminated for durability. Size: 17" x 22"



A.



B.

**A. Fat and Muscle Replicas**

WA7173 One-lb. Fat Replica

WA4313 Five-lb. Fat Replica

WA14573 One-lb. Muscle Replica

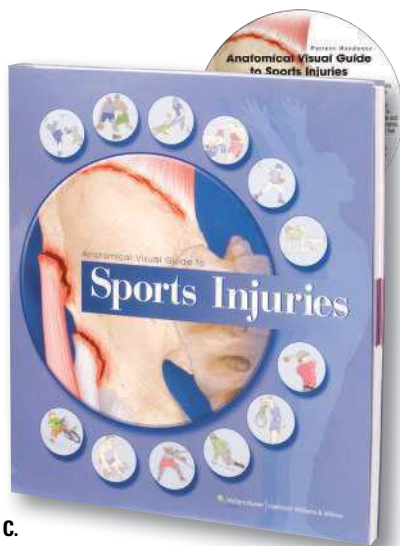
WA8836 Five-lb. Muscle Replica

- Grossly dramatic replicas of 1 and 5 lbs. of fat and muscle are shocking and motivating attention-getters. (Not anatomically correct.)

**B. Nutrition and Healthy Weight Chart Set**

**SAVE** *Save 15% over individual chart prices!*  
NWC

- Includes 2 discounted 20"x 26" laminated charts: Maintaining a Healthy Weight and Keys to Healthy Eating, 3rd Edition.



C.



D.



E.

**C. Anatomical Visual Guide to Sports Injuries**

978-0-7817-7361-4

- This highly visual guide is sensibly organized by body region and displays the basic layers of anatomy, movement, and common sports injuries in adults and children. A BONUS CD-ROM lets you easily print more than 55 patient teaching handouts that show clear, anatomically correct images along with sports injury explanations.

**D. 6720 Athletic Injuries of the Knee**

978-0-7817-8675-1 Laminated

978-0-7817-8672-0 Paper

**E. Stretch & Strengthen Chart**

5009-L

- This chart shows you how to stretch every muscle group safely. Laminated.
- Size: 35" x 23"

**Be sure to see ...**

- Anatomical Chart Collections (pages 27-30)
- Anatomical Models (pages 42-57)
- Gifts (page 75)
- Reference Materials & Study Aids (pages 31-34)
- Skeletal Models (pages 58-74)



A.



B.

**A. Breast Examination Teaching Model**

A26500 (standard BSE model)

- This full-sized model is made of a synthetic material that closely resembles the touch and feel of real flesh. Contains palpable and non-palpable lumps that simulate easy and hard-to-find breast tumors. Includes a slip-on cover and carrying case.

**B. Testicular Self-Examination Model**

A26400

- This life-size model of the scrotum and testicles, made from BIOLIKE™ synthetic tissue, has two simulated tumors embedded in each testicle.

**C. Healthy Lifestyles Chart Set**

*Save 25% over individual chart prices!*

DCS1

- Set includes Dangers of Smoking chart and Dangers of Alcohol chart.
- Both charts are 20"x 26" and laminated with eyelets.

SAVE



C.



## Customers rate Anatomical Chart Company products

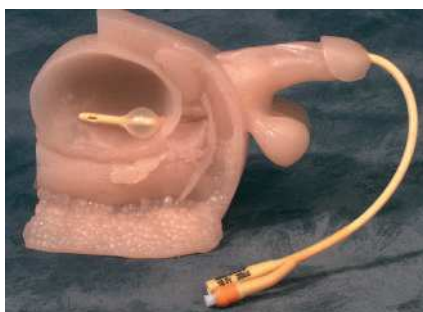


**"Wonderful teaching tool"**

Valerie, Dallas, TX



G.



I.

### G. Injection Teaching Model

A26200

- Teaching model provides flesh-like surface for practice of injection techniques. Biolike™ material can be punctured repeatedly without showing holes. Injection of liquid not recommended. Includes carrying case.
- Size: 6" x 4-3/4" x 1-3/4"

### H. Hand Hygiene Chart

978-1-4511-9338-1 Laminated

### I. Male Model with Bladder

A26104

- This model allows students to practice locating the urethra and inserting a catheter through it into the bladder. Made of Biolike 2™, a soft fleshy feeling plastic, this model features a visco-elastic urethra that accurately duplicates the feeling of inserting a lubricated catheter into the bladder. Carrying case and lubricant included. Catheter not included. Size: 9" x 4" x 6"

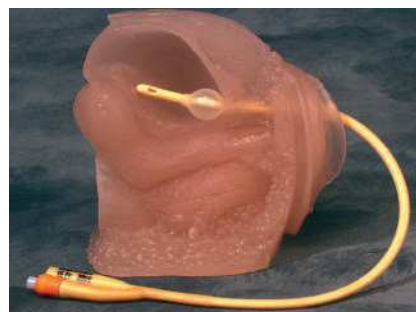
### J. Female Model with Bladder

A26108

- Allows students to locate urethra and pass lubricated catheter through it into bladder. Made of Biolike™, a soft fleshy material, it has a visco-elastic urethra. Lubricant included.
- Female 6" x 4" x 6"



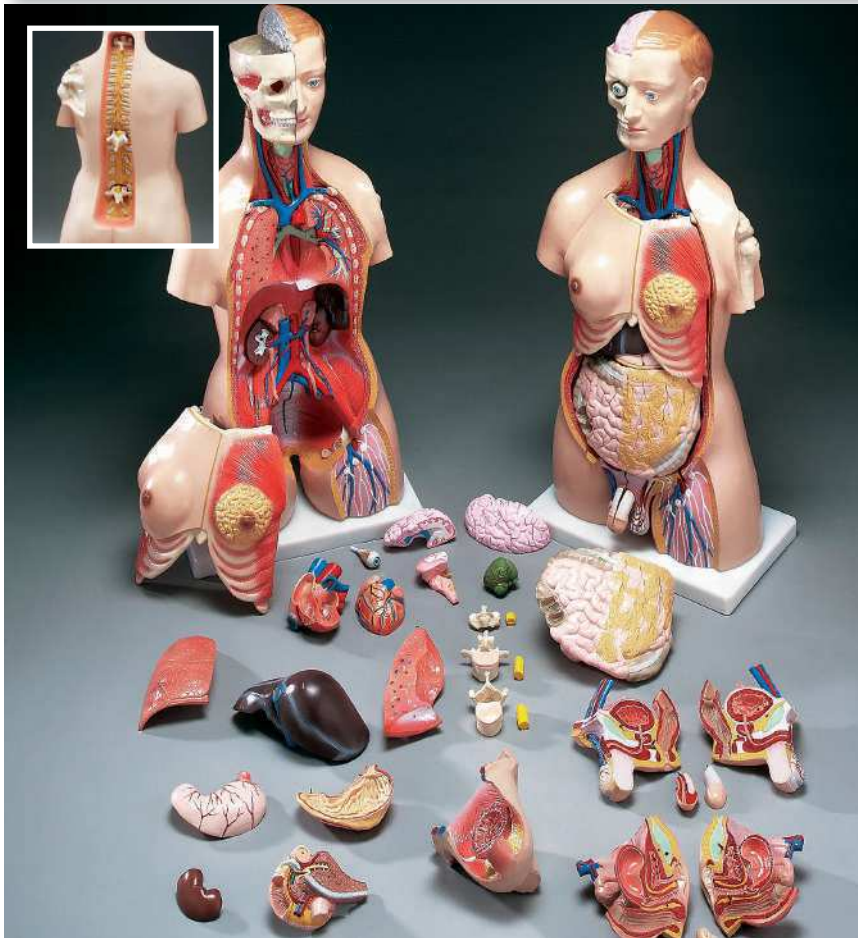
H.



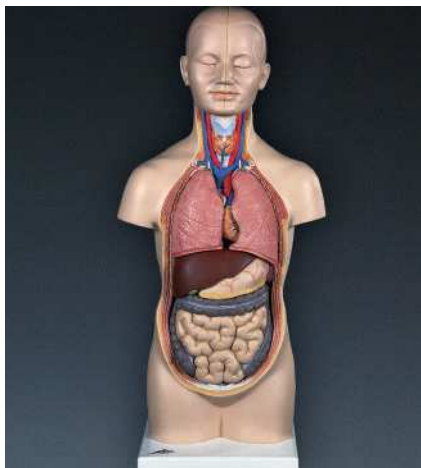
J.

## Anatomical models say “please touch” for active, hands-on learning.

Patients and students gain a true grasp of anatomical features with replicas that explore everything from heart conditions to the smallest bones of the ear.



A.



B.

### A. Budget Functional Francis Torso

CMT32

- Male/female torso features 32 parts: 3 removable vertebrae, 3 spinal cord segments, a female breast plate, head, eyeball, 4-part brain, 2 half lungs, 2-part heart, liver, one-half kidney, duodenum with pancreas and spleen, 2-part stomach, intestines, 4-part male genitalia, 2-part female genitalia with removable fetus, and a gender neutral bladder cover. Mounted on base.

- Size: 33-1/2" tall

### B. Twelve-Part Mini Torso

B22

- One-third life-size; 12 parts include: head (2 parts), one-half brain, lungs (2 parts), heart (2 parts), liver with gallbladder, stomach and intestines (small and large).

- 3B Scientific GmbH, size: 21" tall

**C. Budget Dapper Dan Torso**

CMT2

- Male and female torsos with a removable breast cover revealing 14 dissected parts: torso, breast plate, lung (4 parts), heart, trachea and esophagus, diaphragm, stomach, liver, pancreas and spleen, bladder and uterus, and intestines. Mounted on base.
- Size: 18" tall

**D. Budget Little Joe Torso**

CMT4

- Male torso dissects into 15 parts: torso, posterior section of head, brain (2 parts), trachea, lungs (4 parts), heart, liver, stomach, intestines, and kidney with pancreas.
- Size: 10" tall

**E. Budget Peter/Petra Torso**

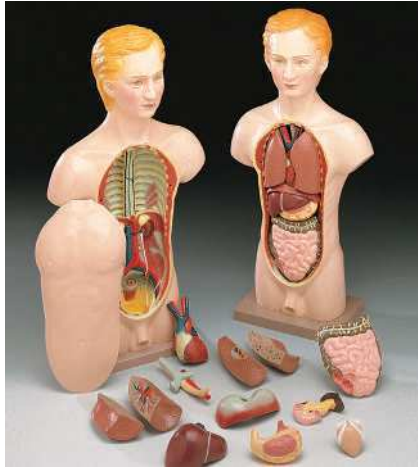
CMT3

- Dissects into 13 parts: 2-part head with removable half brain, 2 lungs, heart, liver, intestines, 2-part female genitalia, 2-part male genitalia, and torso on base.
- Size: 16-1/2" tall

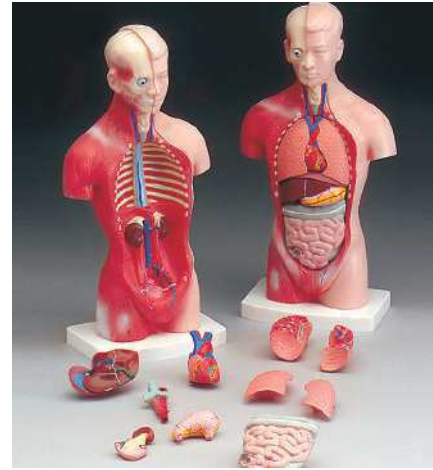
**F. Budget Tall Paul Torso**

CMT5

- Dissects into 19 parts: torso, head (2 parts), brain, lung (4 parts), heart, trachea, esophagus and descending aorta, diaphragm, stomach, duodenum with pancreas and spleen, intestines, cecum, kidney, bladder (2 parts), liver. Mounted on base.
- Size: 33-1/2" tall



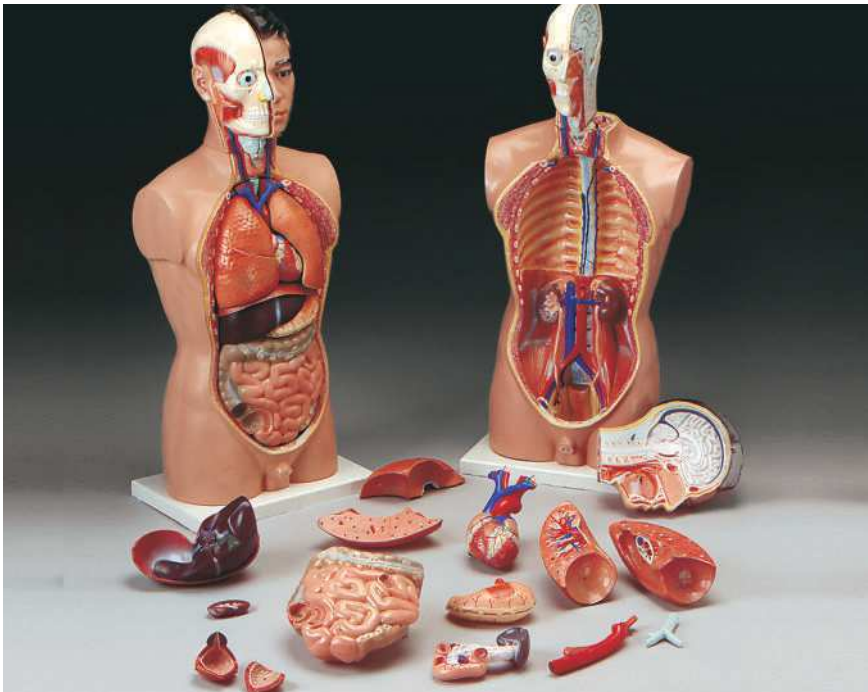
C.



D.



E.



F.



A.



B.



C.



D.



E.



F.



G.



H.

**A. Economy Eye Model**

F15

- 3-times life-size model dissects in 6 parts: both halves of the sclera with cornea and eye muscle attachments, both halves of choroids with iris, retina, lens and vitreous humor. Mounted on stand.
- 3B Scientific GmbH, size: 3-1/2" x 3-1/2" x 6"

**B. Classic Human Eye Model**

F-10

- 6-times enlarged; dissects in 6 parts: vitreous humor, retina (anterior/posterior portions) and outer eye (2 parts). On stand.
- 3B Scientific GmbH, size: 5" x 5-1/2" x 8"

**C. Budget Whopper Eye Model**

CH2

- 6-times enlarged. For beginning students; dissects in 7 parts: top section, vitreous body, bottom section, lens (2 parts), iris, cornea. Mounted on stand.
- Size: 5-1/2" x 5-1/2" x 6-1/4"

**D. Eyeball with Part of Orbit Model**

CS22

- 3-times enlarged. Horizontally sectioned; all 6 muscles of the eye and the optic nerve shown; 9 parts: superior rectus and exterior straight muscle, upper half of the sclerotic membrane, choroid membrane and retina (2), vitreous humor, lens, lacrimal organs and eyelids and orbit. Mounted on green® base.
- Somso® Modelle, size: 8-1/4" x 8" x 12-1/2"

**E. Cataract Eye Model**

G280

- 4-times enlarged. Shows inner anatomy of the eye as well as various types of cataract conditions; 5 interchangeable lenses illustrate various cataracts; removable patient education card. Base included.
- Size: 5" x 3-3/4" x 3"

**F. Cutaway Eye Model**

G275

- 4-times enlarged. Cutaway eye to show inner anatomy: retina, optic disk, optic nerve, choroid, and blood vessels; clear cornea and lens are removable; removable patient education card. Mounted on base.
- Size: 5" x 4" x 3-3/4"

**G. Life-Size Ear Model**

G225

- One-piece, life-size model shows outer ear, ear canal, and inner ear mechanisms, including ossicles, cochlea, nerve, and eustachian tube; removable patient education card. Includes base.
- Size: 4" x 2-1/2" x 3"

**H. Four-Part Ear Model**

E10

- 3-times life-size model of the outer, middle and inner ear has a removable ear drum with hammer, anvil and stirrup as well as a 2-part labyrinth with cochlea and auditory/balance nerve. Mounted on base.
- 3B Scientific GmbH, size: 13-1/3" x 6-1/4" x 7-1/2"

**I. Budget Giant Ear Model**

CH8

- 4-times enlarged. For elementary science classes; shows all major structures related to hearing and balance; dissects into 3 parts.
- Size: 4" x 7" x 8-1/2"

**J. Basic Sinus Model**

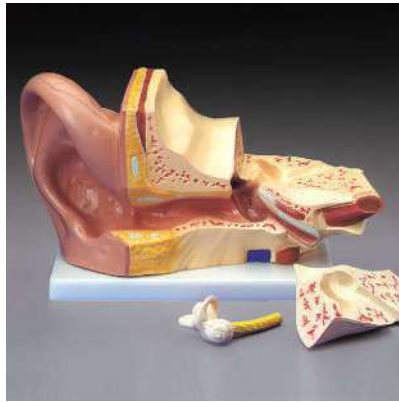
G285

- Cutaway depicts near median section through nose and nasal passages; details include nasal cavity, soft and hard palate, uvula, eustachian tube and pharyngeal tonsil; removable patient education card and base included.
- Size: 4-1/2" x 1/2" x 5-1/4"

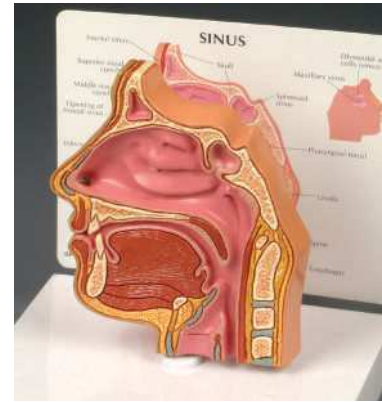
**K. Thyroid Disease Model**

G315

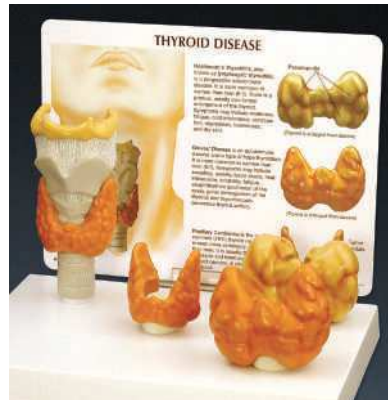
- Normal thyroid gland shows location around trachea. Three models also show Hashimoto's thyroiditis, Graves' disease and papillary carcinoma; includes patient education card.
- Size: 8-3/4" x 6-1/4" x 4"



I.



J.



K.



A.

**A. Human Larynx with Tongue**

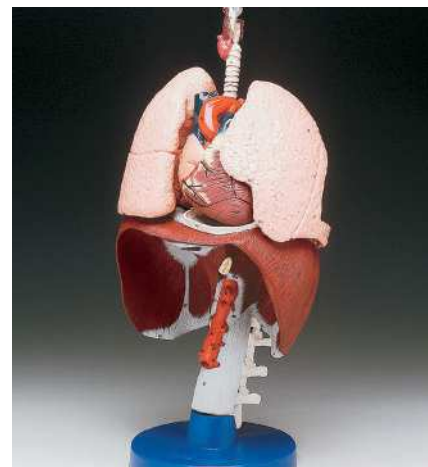
GS4

- Life-size anatomical model. Medially sectioned to show details of larynx, including cartilages, ligaments, muscles, relief of mucous membrane and thyroid gland; lower jaw detaches and separates into 2 parts; dissects into 5 parts; made of SOMSO-Plast® Includes green® base.
- Somso® Modelle, size: 5"x 6"x 8"

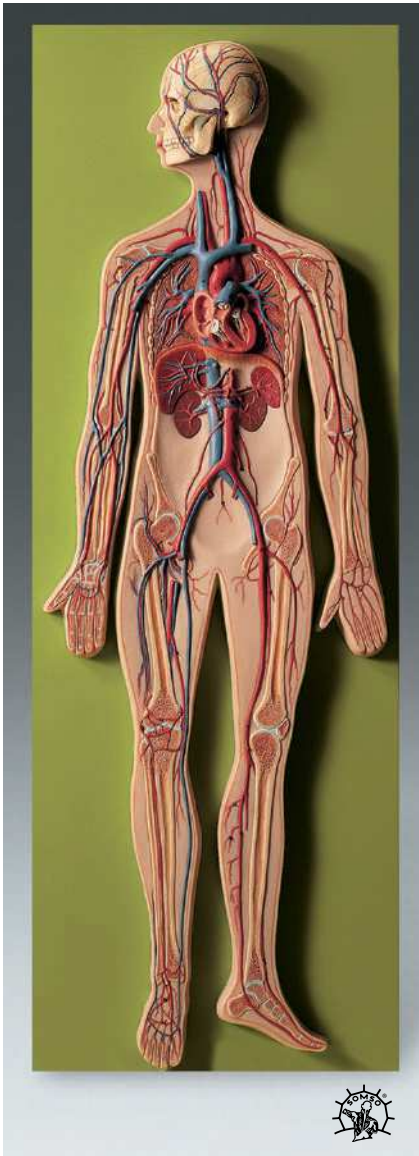
**B. Respiratory Organs Model**

649D

- Life-size diaphragm with muscles, tendons, and major openings for vessels and esophagus, bisected heart shows the origins of 5 abdominal arteries, and all internal structures, 3 thoracic and 3 lumbar vertebrae, sectioned left lung shows bronchioles, pulmonary arteries and veins, and the larynx, sectioned to show its structure on base with key.
- Size: 16"x 9"x 7-1/2"



B.



C.



D.

**C. Circulatory System Model**

HS10

- 1/2 life-size. View of network of blood vessels. One-piece relief model mounted on green® base.
- Somso® Modelle, size: 36" x 12-1/2" x 2-1/2"

**D. Human Heart Model**

HS5

- 2-times the size of a healthy adult heart. Detailed . to illustrate the musculature of the heart and large blood vessels. Sectioned so ventricles and atria open to expose the valves. Dissects into 4 parts. Removable from green® stand.
- Somso® Modelle, size: 10" x 10" x 13"

**A. Hypertension Model Set**

G400

- Miniature brain, eye, heart, kidney and artery shows organs effected by hypertension. Study card illustrates effects of hypertension. Removable from stand.
- Size: 13-1/2" tall

**B. Four-Piece Artery Model**

G265

- 4-stage cross-section of an artery demonstrating atherosclerosis in which the narrowing of the artery is due to a build up of fatty tissue (cholesterol) and plaque. 4 stages: normal artery, fatty streak, fibrous plaque, and blockage. The stages cause a decrease in blood flow, which can lead to a blood clot or thrombus. All stages rotate on hinge pin.
- Size: (4) 1-3/8" dia. x 7/8" x 3-1/2"

**C. Mini Heart Set Models**

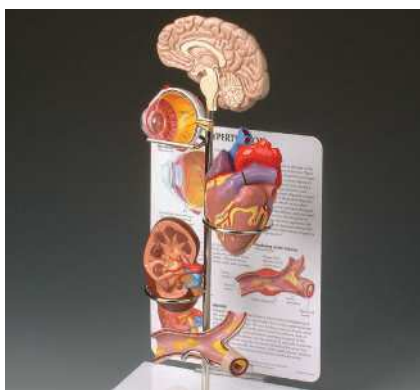
G255

- Normal heart anatomy; myocardial infarction heart demonstrating a partially healed, thinned, and discolored 5 infarcted areas. Including a thrombus in the apex of the heart; and a heart demonstrating congestive heart failure as a result of hypertension. The left ventricle hypertrophy and the correspondingly enlarged and distorted shape of the heart are shown both internally and externally. All models are approximately 50% actual size.
- Normal and MI: 4"x 2-1/4"x 1-3/4" CHF: 4"x 2-1/2"x 2-1/4"

**D. Occluded Artery Model**

79145

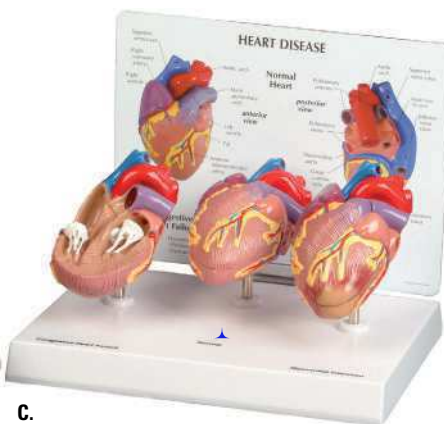
- Larger than life-size. See-thru model shows constricted passage clogged with plaque. Turning the model illustrates the difficulty red blood cells have flowing through an artery with atherosclerosis.



A.



B.



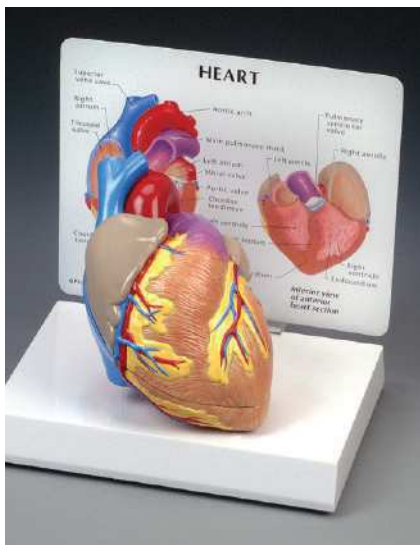
C.



D.



E.

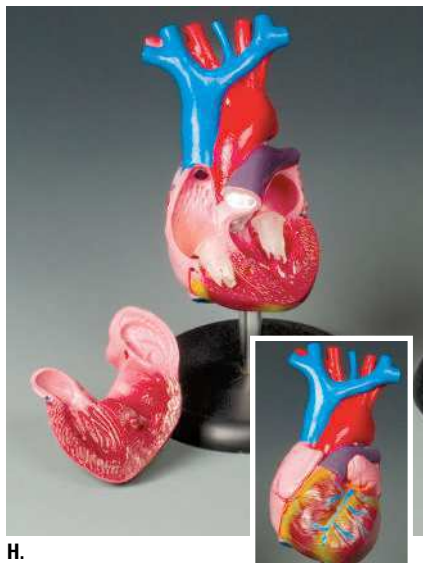


F.

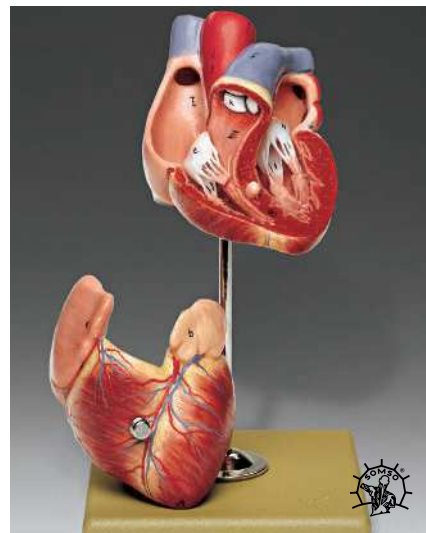


G.

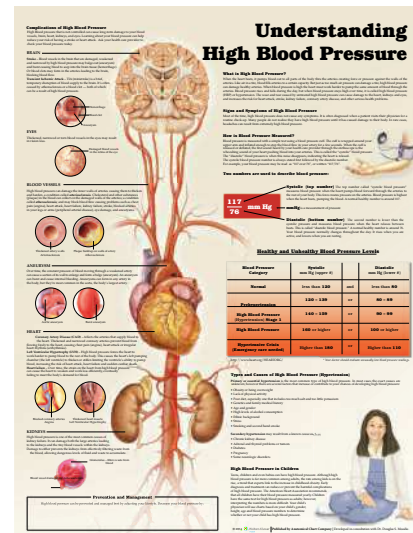




H.



I.



J.

**E. Basic Heart Model**

G8

- Three-quarter life-size. Depicts atrium cordis, ventricles of the heart and cardiac valves. Dissects into 2 parts. Removable from stand.
- 3B Scientific GmbH, size: 3" x 5" x 2-1/2"

**F. Cutaway Heart Model**

G250

- Vividly painted, life-size. Divides in half to show inner chambers and valves. Mounted on plastic base. Removable study cards and base included.
- Size: 3-1/2" x 4" x 6"

**G. Budget Jumbo Heart Model**

CH3

- 4-times life-size jumbo heart model, excellent for patient education or elementary science classes. Dissects into 3 parts showing anterior, posterior and interior views along with valve details. Mounted on a stand.
- Size: 8" x 8" x 11-3/4"

**H. Budget Life-Size Heart Model**

CH7

- Great for learning basic internal and external anatomy of the heart. Dissects into 2 parts.
- Size: 3-1/4" x 3-1/4" x 6"

**I. Two-Part Heart Model**

HS3

- Three-quarter life-size. 2 parts, anterior part of the ventricles and auricles can be removed to show semilunar and tricuspid valves. Mounted on green® base.
- Somso® Modelle, size: 8-1/2" x 5" x 4-3/4"

**J. Understanding High Blood Pressure Chart:**

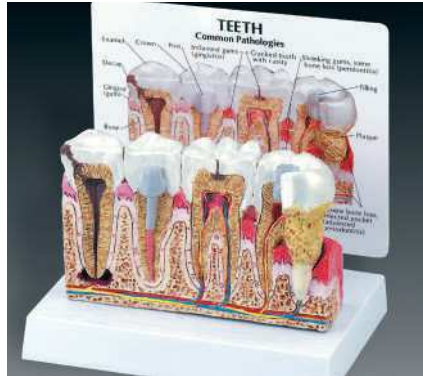
978-1-4697-7289-6.

**Be sure to see ...**

- Anatomical Chart Collections (pages 27-30)
- Anatomical Charts & Posters (pages 4-26)
- Gifts (page 75)
- Health Education Resources (pages 39-40)
- Reference Materials & Study Aids (pages 31-34)
- Skeletal Models (pages 58-74)



A.



B.

**A. Flossing and Brushing Teaching Model**

W5314 (flossing and brushing teaching model)  
W5355 (giant toothbrush)

- 2-times enlarged; demonstrates proper brushing and flossing techniques; plastic 11-1/2" toothbrush with soft bristles.
- Size: 3" x 3-1/2" x 3-1/2"

**B. Diseased Teeth and Gums Model**

G286

- Oversized; features common problems: abscess, advanced periodontitis, cavity, crown decay filling, gingivitis, plaque, and severe bone loss; patient education card included.
- Size: 5-1/2" x 6" x 6"

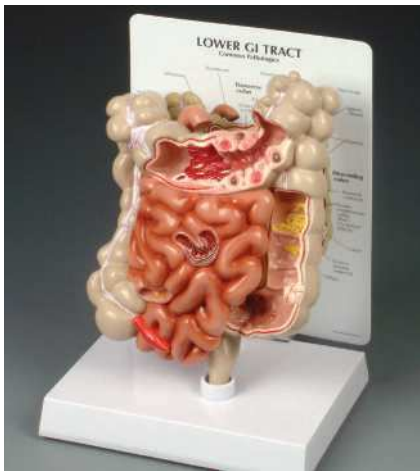
**C. Giant Tooth Brushing Model**

TH01

- Economical model; bendable wire spring allows easy movement; includes giant size, soft nylon bristle toothbrush.
- Size: 6" from molar to molar; toothbrush 14-1/2" long



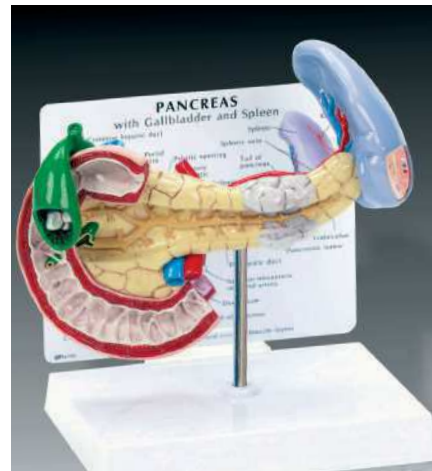
C.



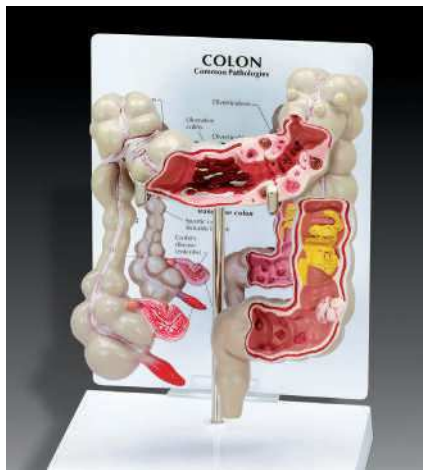
D.



E.



F.



G.

**D. Lower GI Tract**

G3342

- Cut-away view model of the small and large intestine with the following common pathologies: adhesions, appendicitis, bacterial infections, cancer, Crohn's disease, diverticulitis, polyps, spastic colon, and ulcerative colitis.
- Size: 6" x 2-1/2" x 7-3/4"

**E. Human Digestive Tract Model**

JS22

- Shows alimentary canal from mouth to rectum; in median sections are buccal cavity, pharynx, esophagus, 2-part stomach, duodenum, small and large intestines, opened appendix, and rectum; transverse colon can be removed. On green® stand.
- Somso® Modelle, size: 36" x 12-1/2" x 4-3/4"

**F. Pancreas, Spleen and Gallbladder Model**

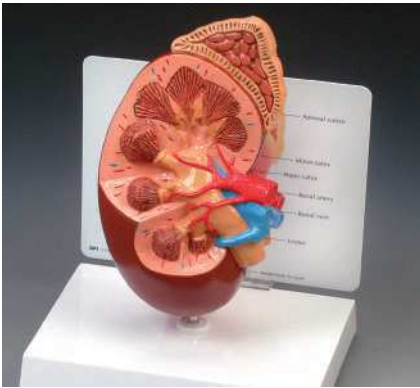
G333

- Life-size model of the pancreas, spleen and gallbladder shows pancreatic cancer, gallstones, ruptured spleen and a duodenal ulcer; removable patient education key card. Removable from stand.
- Size: 7-3/4" x 5" x 2-3/4"

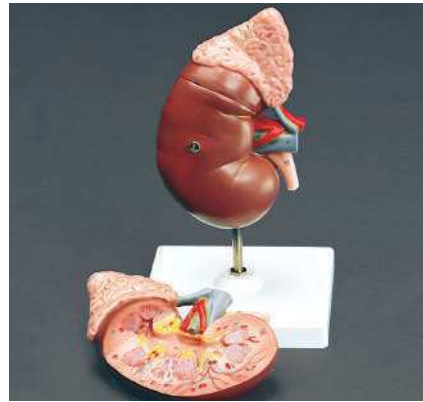
**G. Colon Model**

G334

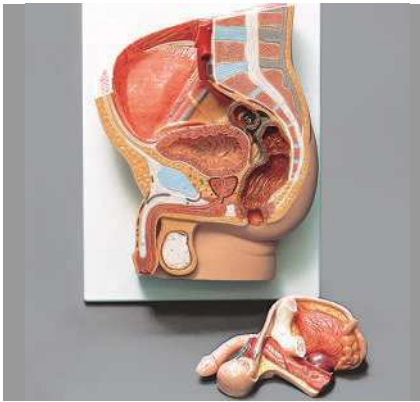
- Shows colitis, diverticulitis, diverticulosis, bacterial infection, cancer, spastic colon, and polyps; Crohn's disease is shown in an area of the small intestines; appendix and rectum are also shown; patient education card included. Removable from stand.
- Size: 6" x 2-1/2" x 7-3/4"



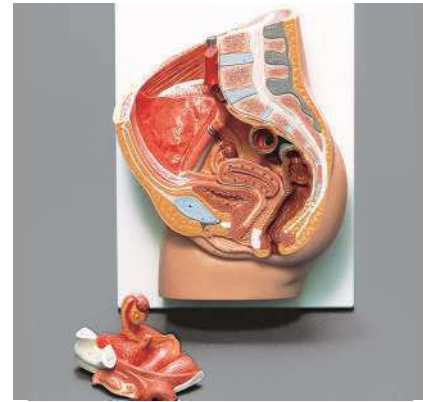
A.



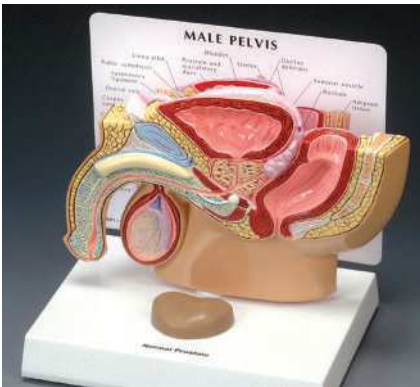
B.



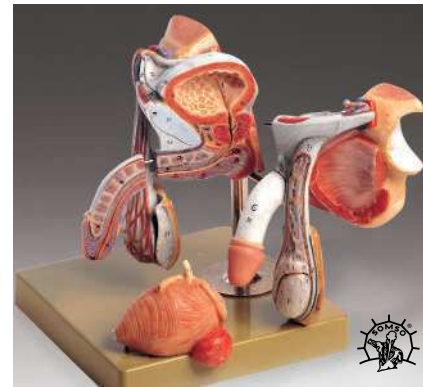
C.



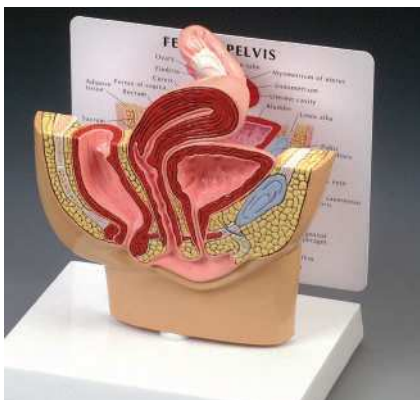
D.



E.



F.



G.



H.

**A. Basic Kidney Model**

G325

- 2-times life-size longitudinal section of right kidney and adrenal gland; removable patient education card. Includes base.
- Size: 4" x 2-1/2" x 6-1/2"

**B. Human Kidney and Adrenal Gland**

K12

- Features kidney, adrenal gland, renal, adrenal vessels and upper portion of the ureter; dissects into 2 parts revealing the cortex medulla, cortex vessels and renal pelvis. Removable from stand.
- 3B Scientific GmbH, size: 5" x 5" x 8"

**C. Human Male Pelvis Section**

H11

- Illustrates internal and external reproductive organs in pelvic area – median section with removable bladder and reproductive organs; life-size; dissects into 2 parts.
- 3B Scientific GmbH, size: 12" x 16" x 8"

**D. Human Female Pelvis Section**

H10

- Life-size anatomical model. Illustrates internal and external reproductive organs in pelvic area; bladder and reproductive organs can be ..removed; dissects into 2 parts.
- 3B Scientific GmbH, size: 12" x 16" x 8"

**E. Male Pelvis Section Model**

G355

- Anatomy of male pelvis and testis shown in half life-size mid-sagittal section.
- Size: 7" x 4-3/4" x 1"

**F. Male Genital Organs**

MS3

- Shows penis, prostate, bladder, seminal vesicle, spermatic cord, inguinal canal and testicle; life-size; dissects into 5 parts.
- Somso® Modelle, size: 7" x 8" x 10"

**G. Female Pelvis Section Model**

G350

- One-half life-size; brightly colored and easy to understand; mid-sagittal cross-section reveals ovary and uterine tube; patient education card with key features included.
- Size: 6-1/4" x 5-1/2" x 2-3/4"

**H. Female or Male Pelvis Models**

Z4058F (female pelvis with femur heads)

Z4058 (female pelvis without femurs, not shown)

Z4056 (male pelvis – inset)

- Natural casting of adult male or female pelvis with sacrum; both models have L4 and L5 vertebra mounted on elastic cord, which may be easily removed; the sacrum may also be removed to demonstrate movement in the iliosacral joint.

**I. Composite Pelvis and Pelvic Floor**

267A

- Life-size female pelvis with highly detailed pelvic floor; features genitalia and associated .....muscles; dissects into 5 parts.
- Size: 10-1/2" x 7" x 6-1/2"

**J. Breast Cross-Section Model**

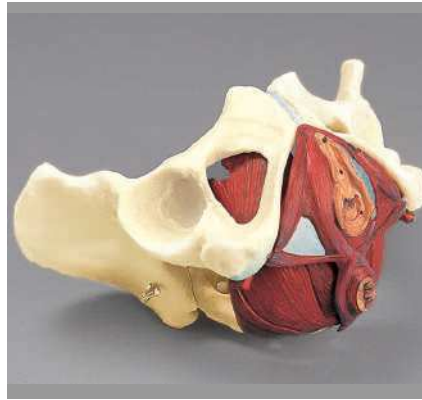
G345

- A hard plastic cross-section of a breast showing the following pathologies: infiltrating scirrhous carcinoma, fibroadenoma, cysts, and an adenocarcinoma. Model also includes structures such as suspensory ligaments, fat tissue, lymph nodes, muscles and ribs. Includes patient education card. Mounted on base.
- Size: 6-1/2" x 4-1/2" x 3"

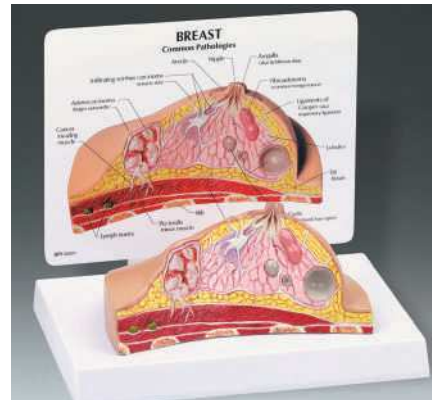
**K. Uterus and Ovaries Model with Pathologies**

G348

- Shows endometriosis, adhesions, various carcinomas, polyps, cysts, pedunculated fibroid tumor, salpingitis and fibroids; patient education card included.
- Size: 8-3/4" x 6-1/4" x 2-1/2"



I.

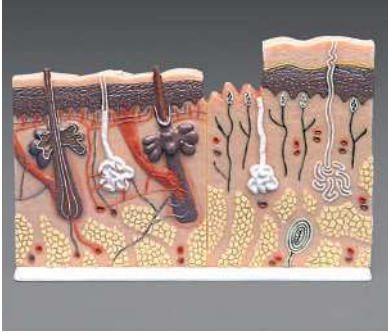


J.



K.

**ALSO AVAILABLE ...****Prenatal Development Chart***See page 23 for details.*



A.



B.



C.

**A. Skin Section Model**

J11

- Desk top model, enlarged approximately 40-times. The two halves of this relief model show a comparison between the 3 layers of hairy and hairless skin. Hair follicles, sebaceous glands, receptor, nerves and vessels shown. Does not dissect. Mounted on base.
- 3B Scientific GmbH, size: 13-1/2" x 9-1/2" x 6-1/2"

**B. Skin with Burns Model**

G380

- 2-sided model is approximately 75 times enlargement of a skin cross-section. Normal skin anatomy shown on one side, the other shows 1st, 2nd and 3rd degree burns; includes patient education card.
- Size: 6" x 2-1/4" x 4"

**C. Budget Super Skin Model**

CH4

- 105-times enlarged cross-sectional view of the human skin showing three layers and a close-up view of a hair follicle, sweat gland, fatty tissue and more. Front, side and back view. Does not dissect. Mounted on base.
- Size: 11" x 4" x 13"

**D. Head with Brain Model**

C25

- Life-size anatomical model. A detailed model of the brain in the skull. Complete brain is removable to show dura mater, 12 pairs of cranial nerves and arteries. Dissects into 8 parts. Includes base.
- 3B Scientific GmbH, size: 6" x 6" x 9"

**E. Human Half Head**

C14

- Life-size. Shows median and lateral sections. Median section shows central nervous system and anatomy of the pharynx and mouth. Lateral view shows superficial nerves and vascular distribution and muscles of the face and neck. Does not dissect. On base. 3B Scientific GmbH, size: 9" x 7" x 18"

**F. Transparent Brain Model**

BS25T

- Life-size; separates into 15 parts: left cortex with sinus sagittalis, cervical vertebral column with spinal cord and vertebral artery, right transparent cortex, right half of spheroid bone, removable right and left brain stem, right and left insular cortex, left striate body, right capsular interna, corpus callosum, fornix, limbic system and ventricle system, right and left halves of the cerebellum. Somso® Modelle, size: 7" x 8" x 12"

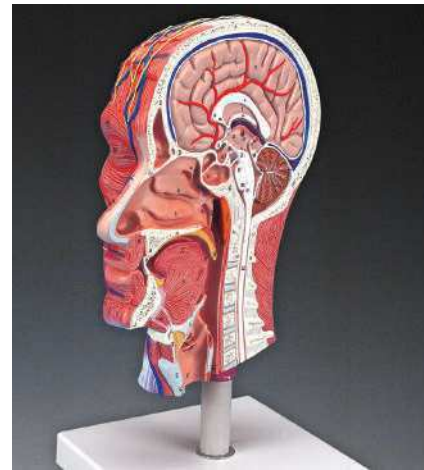
**G. Deluxe Brain Model**

BS20

- Life-size, dissects into 8 parts: frontal and parietal lobes (2), temporal and occipital lobes (2), medulla (2), and cerebellum (2). Cast from a human specimen in SOMSO-Plast®
- Somso® Modelle, size: 6-1/3" x 6-1/3" x 6-1/2"



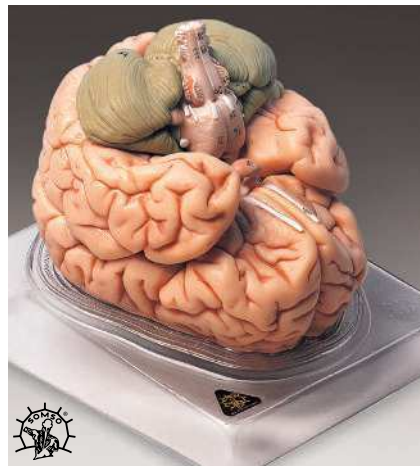
D.



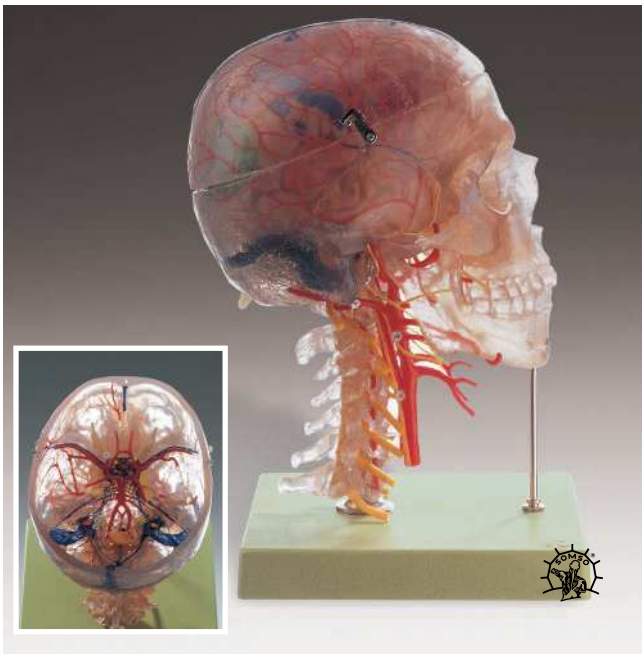
E.



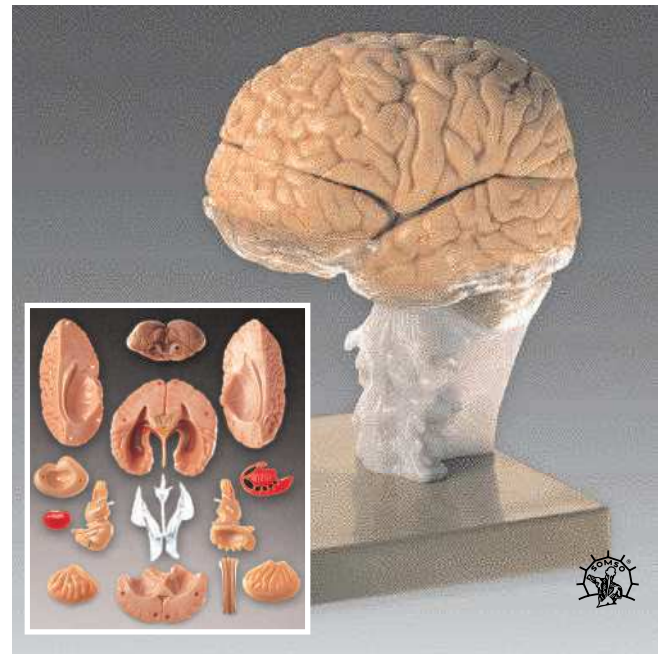
F.



G.



A.



B.



C.



D.

**A. Neuroanatomy Head Model**

QS657

- Transparent skull with cervical vertebrae and 8-part brain (dissects into 10 parts). Cyto-architectural areas indicated, cranial nerves and the arterial vessels shown.
- Somso® Modelle, size: 7" x 7" x 11"

**B. Brain Demonstration Model**

BS25

- Life-size, 14-part brain rests in its natural position on a transparent cast of base of skull. Brain separates into cerebral hemisphere (2), temporal and occipital lobes with limbic system, cerebellum, frontal lobe, corpus callosum, brain stem (2), corpus stratum, insula (2), nucleus lentiformis (left), internal capsule (right), and ventricles of the brain.
- Somso® Modelle, size: 6" x 7" x 9"

**C. Deluxe Brain with Arteries**

BS23

- Life-size brain model cast in SOMSO-Plast®. Highly detailed model includes representation of the arterial network of vessels. Dissects into 9 parts: frontal and parietal lobes (2), temporal and occipital lobes (2), medulla (2), cerebellum (2), and basilar artery. Green® base included.
- Somso® Modelle, size: 6-3/4" x 6-1/3" x 6-1/2"

**D. Color-Coded 8-Part Brain Model**

240R

- Life-size model of the human brain and brain stem; dissects into 8 parts. Left side is colored to show the sensory and motor areas. 12 cranial nerve roots shown and numbered with important arteries. Supplied on base with key card.
- Size: 8" x 8" x 7"



**E. Budget Brain with Arteries Model**

C20C

- Life-size educational economy model. Color markings illustrate arteries (red) and cranial nerves (yellow).
- Dissects into 8 parts. Base included.
- Size: 5" x 6" x 6"

**F. Budget Brain Model**

CH1

- Plastic replica of a human brain showing multiple views. Great for hands-on study of brain anatomy.
- Dissects into 3 parts. Sits on a base.
- Size: 5" x 6" x 6-1/2"

**G. Two-Part Brain Model**

BS21

- Cast from a natural specimen; two-part brain is medially sectioned. Made of SOMSO-Plast.®
- Somso® Modelle, size: 6" x 6-1/4" x 6-3/4"

**H. Classic 5-Part Brain**

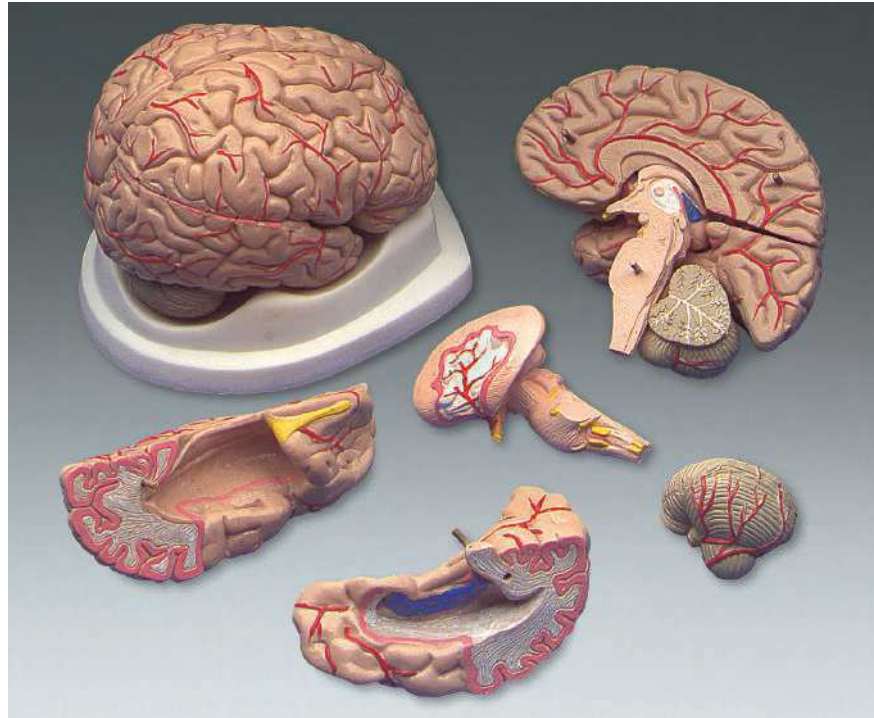
C18

- A mid-sagittally sectioned model of the brain cast from a real human brain. Left half can be divided into the frontal and parietal lobe, temporal and occipital lobes, brain stem, and cerebellum.
- 3B Scientific GmbH, size: 5" x 5-1/2" x 7"

**I. Diseased Brain in Skull**

G290

- Life-sized brain in skull segmented into a normal half and 3-piece pathology half featuring: Alzheimer's, migraine, stroke, seizure-related tumor, aneurysm, multiple sclerosis, subdural . hematoma, Parkinson's Disease and alcoholism.
- Brain size: 5" x 6-3/4" x 5"



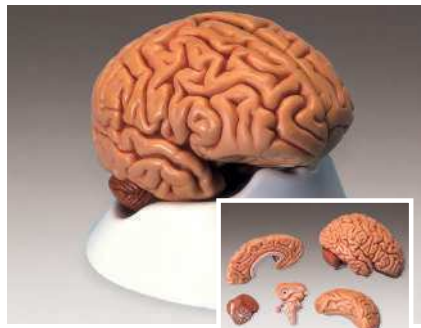
E.



F.



G.



H.



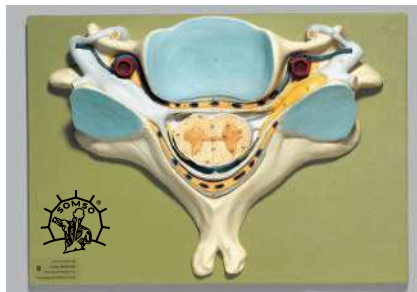
I.

## *Skeletal models are invaluable for effective, three-dimensional learning.*

And they're the fundamental first step toward mastering human anatomy. These models are yours in a variety of sizes and at a range of costs. From full, complete structures to disarticulated bone parts, each replica is created with long-lasting materials that mimic actual human anatomy.



A.



B.

### **A. Giant Atlas/Axis Model**

Z4083

- Shows atlas, axis and 3rd cervical vertebra in relation to the occipital. 2-times life-size and mounted on elastic cord to allow movement.
- Size: 7-1/4" x 4-1/2" x 5"

### **B. Fifth Cervical Vertebra**

BS30

- Shows vertebra, its articulating surfaces, vertebral artery, spinal cord in cross-section, nerve roots and more. Mounted on green® board. Does not dissect.
- Somso® Modelle, size: 15" x 10" x 11"

**Flexible Vertebral Column Region Models****C. A72 (cervical)**

- Functional model of 7 cervical vertebrae with normal intervertebral discs that includes a segment of spinal cord with medulla, pons, cerebral peduncle and nerve branches. Not removable from stand.
- 3B Scientific GmbH, size: 5"x6"x7"

**D. A73 (thoracic)**

- 12 thoracic vertebrae, intervertebral discs and nerve branches. Not removable from stand.
- 3B Scientific GmbH, size: 5"x4"x13"

**E. A74 (lumbar)**

- 5 lumbar vertebrae, coccyx and sacrum with removable cutaway. Also features normal intervertebral discs and nerve branches. Not removable from stand.
- 3B Scientific GmbH, size: 5"x5"x13"

**F. Basic Lumbar Vertebrae with Sacrum**

G170

- Fully articulating model of L1 through L5 with sacrum. A herniated disc shown between L3 and L4. Features full lumbar nerve section with left-side sacral nerves and sciatic branch. Removable from stand. Includes removable patient education card.
- Size: 4-1/2"x3-1/2"x11"

**G. Four-Stage Vertebrae Set**

G176

- 4 pairs of life-size lumbar vertebrae in 3 stages of degeneration. Shown are a normal pair of lumbar vertebrae, a pair with a bulging herniated disc, a vertebrae set with bone and disc degeneration and advanced osteoporosis with serious bone compression and bone spurs. Models do not dissect. Includes removable patient education card and base.
- Size on base: 5-3/4"x10-1/2"

**H. Budget 4-Part Lumbar Vertebrae**

CHLS4 (4-part)

- 4-part lumbar vertebrae shows normal and herniated disc. Dissects into vertebrae, discs, spinal cord with nerve roots. Mounted on metal rod.
- Size: 6"x3"

**I. Budget Lumbar Vertebrae with Interchangeable Discs**

CH76

- Demonstrates herniated disc in relation to vertebrae and spinal cord. Includes normal, central herniation and dorsal herniation discs. Dissects into 6 parts. Made of durable, flexible plastic. Mounted on base.
- Size: 4-3/4"x4-3/4"x5-1/4"

**J. Lumbar Vertebrae Teaching Model**

A76

- Includes 2 lumbar vertebrae with 2 intervertebral discs to illustrate central and dorsal hernia. Dissects into 5 parts. Mounted on stand.
- 3B Scientific GmbH, 5"x5"x5"



C.

D.

E.



F.



G.



H.



I.



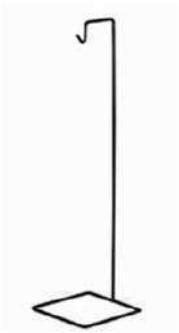
J.



A. 32" (81.3cm) tall



B. 32" (81.3cm) tall



C. 34" tall



D. 34" (86.4cm) tall



E. 34" (86.4cm) tall



F. 18" (45.7cm) tall

**A. Vertebral Column with Muscle Painting**

A59/1P

- Flexible spine, with pelvis, occipital bone, vertebral artery and dorsal herniated disc between the 3rd and 4th lumbar vertebrae and movable femoral heads. Muscle origins and insertions painted on the right innominate bone, femoral head and backside of each vertebra. Cervical, thoracic and lumbar vertebrae are indicated. No stand.
- 3B Scientific GmbH, size: 32" tall

**B. Didactic Flexible Spine with Femoral Heads**

A58/9

- 5 sections differentiated by color: 7 cervical, 12 thoracic and 5 lumbar vertebrae, sacrum and coccyx. A disc prolapse at L3-L4 also featured. No stand.
- 3B Scientific GmbH, size: 32" tall

**C. Spine Stand**

SM91

- For hanging spines as shown in pictures B and H. Black finish.
- Size: 34" tall

**D. Skeletal Torso**

VC126

- A life-sized flexible spine, with rib cage, shoulders, pelvis and movable femur heads with the corresponding muscles and ligaments. Shows the cervical plexus and the brachial plexus, suboccipital triangle, greater occipital nerve, sciatic nerve complex, as well as the major thoracic and lumbar muscles.

The right shoulder is fully articulated and features all ligaments, capsule of shoulder joint, teres major and muscles of the rotator cuff. Vertebrae are color-coded, facet syndrome at L4-L5. Stand included.

- Size: 34" x 15" x 7-1/2"

**E. Muscle Spine with Disorders**

CH5900

- Spinal curvatures are color-coded. Includes occipital bone and cerebellum, circle of Willis, vertebral artery, spinal nerves with sciatic nerve, right brachial plexus, 1st and 2nd ribs, sacroiliac ligaments and several muscles including: suboccipital triangle, longus capitis, scalene muscles, psoas major and minor, iliacus, gluteus medius and minimus, piriformis and gemellus. Disorders shown: bone spurs on L5; herniated disc between L4 and L5; and L1, L2, and L3 divide to show compression fractures, osteoporosis, bone tumor and osteoarthritis of the hip. Stand included.
- Size: 34", 14 lbs

**F. Desk-Size Vertebral Column**

CS85X

- Features nerve branches, vertebral artery, movable femur heads, occipital bone, pelvis, and herniated lumbar disc. Flexible.
- Size: 18" tall, 6 lbs



G. 29" (73.7cm) tall

**G. Budget Vertebral Column**

CH59X

- Includes vertebral body, spinous and transverse processes, vertebral notch and spinal canal, complete pelvis, sacrum, occipital bone, vertebral artery and nerve branches, herniated disc between the 4th and 5th lumbar vertebrae. Stand included.
- Size: 29" tall, 11 lbs

**H. Vertebral Columns with Pelvis**

A59/1

- Flexible spine, with pelvis, occipital bone, vertebral artery and dorsal herniated disc between the 3rd and 4th lumbar vertebrae. No stand.
- 3B Scientific GmbH, size: 29" tall



H. 29" (73.7cm) tall



I. 32" (81.3cm) tall



J. 27-1/2" (69.9cm) tall

**I. Vertebral Column and Femoral Heads**

A59/1F

- Flexible; same as A59/1, with movable femoral heads. No stand.
- 3B Scientific GmbH, size: 32" tall

**J. Soft Disc Vertebral Column**

Z4009

- Features discs made of sponge for flexibility and to demonstrate compression.
- No femur heads or herniated disc. Stand included.
- Size: 27-1/2" tall



A.

**A. Disarticulated Human Skull**

QS83 (color coded)

- Life-size; consists of 14 parts that can be dismantled and snapped back together. Includes: sphenoid, occipital, 2 temporal, 2 parietal, frontal, right and left maxilla, the lacrimal, nasal and palatine bone, facial, cranial and zygomatic bones, and mandible which fits into sockets with a hinged joint.
- Somso® Modelle, size: 5-1/2" x 8" x 6"

**B. Skull Kit**

A290 (bone color)

- Can be disassembled and reassembled. Includes occipital, sphenoid, ethmoid, vomer, mandible, and right and left of following bones: parietal, temporal, palatine, nasal concha, maxilla with teeth, lacrimal, zygomatic, and nasal bone.
- 3B Scientific GmbH, size: 6" x 8" x 4"

**C. Disarticulated Female Skull**

OSM32P

- 22-piece detailed reproduction of each of the cranial bones of the human skull. Cast from the skull of an average-size 18-20-year-old female. Includes storage box and key card. Cannot be assembled.

**D. First-Class Human Skull**

320C

- Exceptional quality adult skull, horizontally sectioned with removable calvarium to expose internal features of the cranium. Mandible is removable and the entire skull is manufactured in a bone-like plastic. Dissects into 3 parts.
- Size: 5-1/2" x 8" x 6"

**E. Human Skull with Numbers**

QS7/1

- 3-part plastic skull with removable calvarium and lower jaw. Seventy numbered and labeled parts with identifying key in English and Latin.
- Somso® Modelle, size: 5-1/2" x 8" x 6".



B.



C.



D.

E.

**F. Classic Human Skull**

A20

- This 3 part medical quality human skull replica is well suited for basic anatomical studies. Includes sutures, foramen and styloid processes. The calvarium is removable and the jaw is on springs. Dissects into 3 parts.
- 3B Scientific GmbH, size 8" x 5-1/2" x 6"

**G. T.M.J. Skull**

A24

- A plastic human skull that illustrates the relationship of the temporal mandibular structures to occlusion. In this human skull model the masticatory muscles (masseter, temporal, medial and lateral pterygoid muscles) are represented as elastic bands. This skull also demonstrates the function of the masticator muscles the initial stage of jaw opening and the movements of the mandible to the side and front.
- 3B Scientific GmbH, size 8" x 5-1/2" x 6"

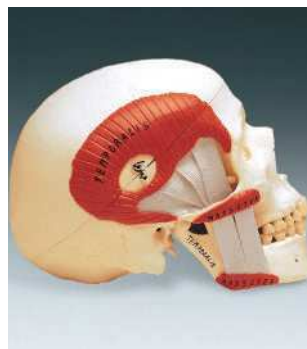
**H. Human Skull With Painted Musculature**

A23

- This replica of the human skull is an excellent tool for teaching and learning the anatomy of the skull. The muscle origins (red) and insertions (blue) are shown in color on the left side of the skull. Cranial bones and structures are numbered on the right side. This skull model identifies over 140 anatomical details. Dissects into 3 parts.
- 3B Scientific GmbH, size 8" x 5-1/2" x 6"



F.



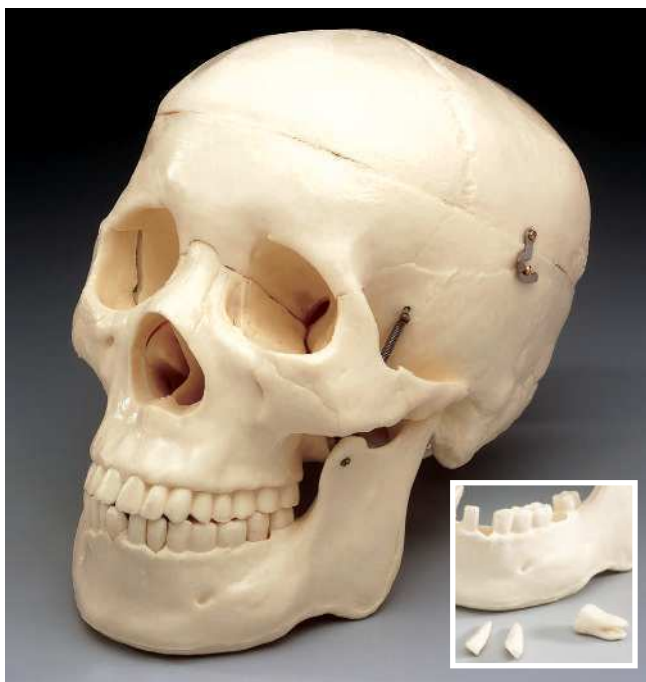
G.



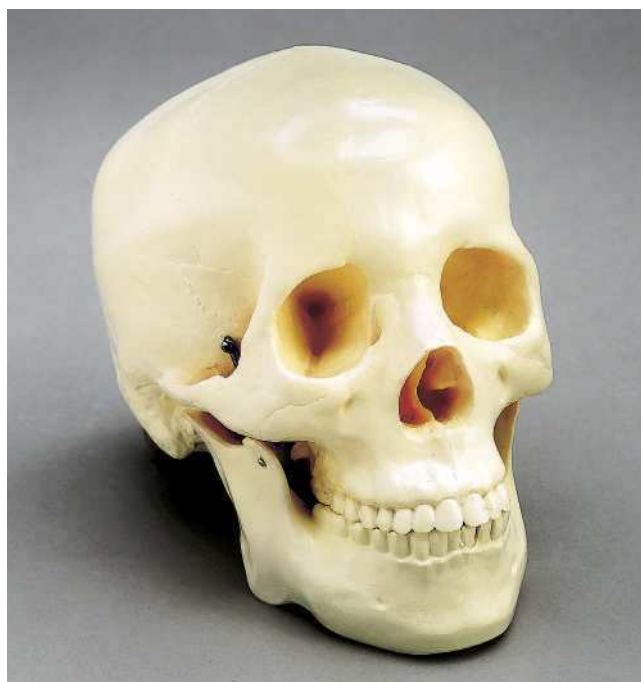
H.

**Be sure to see ...**

- Anatomical Charts & Posters (pages 4-26)
- Anatomical Chart Collections (pages 27-30)
- Anatomical Models (pages 42-57)
- Gifts (page 75)
- Health Education Resources (pages 39-40)
- Reference Materials & Study Aids (pages 31-34)



A.



B.



C.



D.



E.

Customers rate Anatomical Chart Company products



***“Excellent visual aid”***

Abe, New York, NY

#### A. Budget Life-Size Skull

CS20

- Economical life-size adult plastic skull features movable jaw, cut calvarium, suture lines and 3 removable lower teeth—incisor, cuspid, and molar. Dissects into 3 parts.
- Size: 5" x 8-1/2" x 6", 3 lbs.

#### B. Budget Two-Piece Skull

CH-S2

- Plastic life-size adult skull features movable jaw and an uncut calvarium.
- Size: 5" x 8-1/2" x 6"

#### C. Budget Skull with 8-Part Brain

M012C

- Durable plastic skull with hinged jaw and removable calvarium. Life-size translucent 8-part brain fits inside cranial cavity. Includes key card with 75 structures identified.
- Size: 5" x 8-1/2" x 6", weight: 7 lbs.

#### D. Budget Skull with Cervical Vertebrae on Stand

CS20V

- Life-size skull features 7 rigid cervical vertebrae including atlas and axis. Also shows vertebral artery with cervical spinal cord and nerve branches. Jaw on springs, removable calvarium. Skull cannot be removed from vertebrae. Mounted on stand.
- Size: 9" x 9" x 12"

#### E. Mr. Thrifty® Skull with 8-Part Brain

WCPSB

- Miniature model shows the major sutures of human skull. Calvarium can be removed to expose 8-part brain. Mandible is spring hinged. Made of unbreakable plastic.
- Skull: 3" x 5" x 3-1/2", Brain: 2-1/2" x 2-1/2" x 2-1/4"





F.

**F. Painted Foot on Elastic**

OS31P

- Life-size right foot strung on elastic cord. Muscle origins and insertions are labeled and color-coded. Tibia, fibula and metatarsals are wired together.

**G. Elastic Foot Model**

OS31E

- Life-size right foot strung on elastic cord. Lower part of tibia, fibula and metatarsals are wired together.

**H. Painted Hand on Elastic**

OS32P

- Life-size right hand strung on elastic cord. Muscle origins and insertions labeled and color-coded. Ulna, radius and metacarpals wired together.

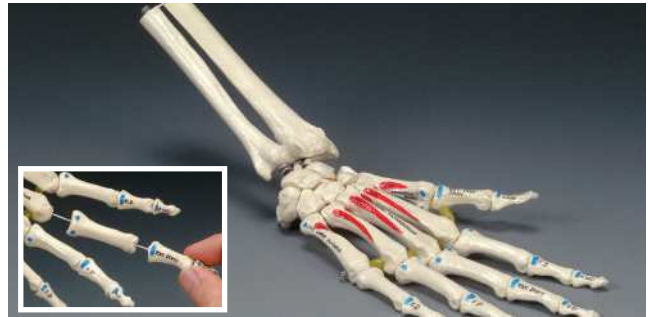
**I. Elastic Hand Model**

OS32E

- Life-size right hand strung on elastic cord. Lower part of ulna, radius, and metacarpals are wired together. Wrist has movable metal wire joint.



G.



H.



I.



A.



B.



C.



D.



E.



G.



F.

**A. Knee Joint with Ligaments**

Z4552

- Right knee model includes insertion tendons of straight muscle of thigh, kneecap with patellar tendons, lateral ligaments, meniscuses and cruciate ligaments. Flexion, extension, outer and inner rotation demonstrated. Removable from stand.
- Size: 7" x 7" x 12-1/2"

**B. Functional Model of the Knee Joint**

NS-50

- Right knee features detachable ligament system allowing complete view of each ligament, bone and cartilage. Demonstrates range of motion, including flexion, extension, inner and outer rotation. Removable from green® stand.
- Somso® Modelle, size: 13-1/2" x 7" x 7"

**C. Shoulder Joint with Ligaments**

Z4550

- Cast from right shoulder blade, clavicle and upper arm. Coracoacromial ligament, coraco-humeral ligament and transverse ligament of scapula joint capsula shown. Anteversion, retroversion, outer, inner rotation and abduction demonstrated. Removable from stand.
- Size: 7" x 7" x 7"

**D. Functional Model of the Shoulder Joint**

NS-53

- Right shoulder joint features detachable ligament system allowing views of each bone, ligament and cartilage. Demonstrates arm raising, front and back swinging and inner/outer rotation. Ligaments made of sturdy elastic material. Removable from green® stand.
- Somso® Modelle, size: 10" x 8" x 9"

**E. Hip Joint with Ligaments**

Z4554

- Cast from a natural hip and shows right side of hip with femur and ligaments. The iliofemoral ligament, ischiofemoral ligament, and pubofemoral ligament allow demonstration of movements of hip joint. Flexion and extension, abduction and adduction, outer and inner rotation.
- Size: 7" x 7" x 13"

**F. Functional Model of the Elbow Joint**

NS-52

- Right elbow joint features detachable ligaments allowing views of each bone, ligament or cartilage. Demonstrates extension and flexion of upper arm, forearm and rotation of radius. Removable from green® stand.
- Somso® Modelle, size: 16" x 8" x 9"

**G. Functional Model of the Hip Joint**

NS-51

- Right hip joint features detachable ligament system allowing views of each bone, ligament or cartilage. Demonstrates anteversion, retroversion, abduction and internal/external rotation.
- Somso® Modelle, size: 14" x 8" x 7"

**H. Functional Shoulder Joint (Right)**

A80

- Illustrates abduction, adduction, anteversion, retroversion and internal/external rotation. Includes flexible, artificial ligaments. Removable from stand.
- 3B Scientific GmbH, size: 6-1/2" x 5" x 8"

**I. Functional Knee Joint (Right)**

A82

- Demonstrates flexion, extension and internal/external rotation. Includes flexible artificial ligaments. Removable from stand.
- 3B Scientific GmbH, size: 5"x 5"x 13"

**J. Functional Hip Joint (Right)**

A81

- Demonstrates anteversion, retroversion, rotation. Includes flexible artificial ligaments. Removable from stand.
- 3B Scientific GmbH, size: 6"x 6"x 12-1/2"

**K. Functional Elbow Joint (Right)**

A83

- Demonstrates extension, flexion and rotation of radius. Includes flexible artificial ligaments. Removable from stand.
- 3B Scientific GmbH, size: 5"x 5"x 15-1/2"



H.

I.

J.

K.

**L. Knee Injuries Anatomical Chart**

978-1-5877-9757-6 Laminated

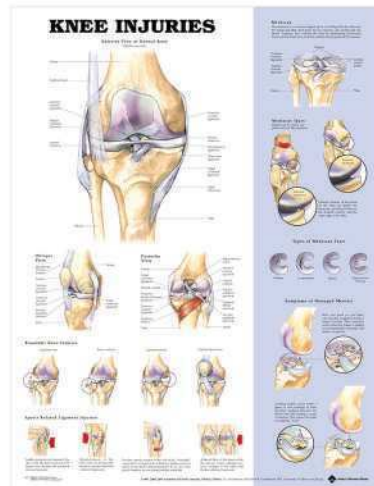
978-1-5877-9756-9 Paper

978-1-5877-9696-8 Styrene

**M. 4-Stage Osteoarthritis Knee**

G110

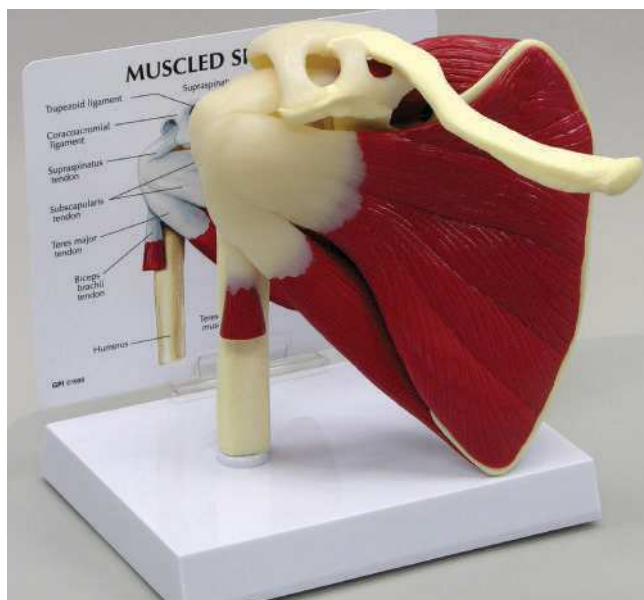
- Set of 4 models of the knee joint includes a normal knee joint and 3 models illustrating the stages of osteoarthritis. Shows erosion of joint articular cartilage early to advanced and formation of bone spurs. Patient education card included. Removable from stand.
- Size: 3"x 1-3/4"x 5-1/2"



L.



M.



A.



D.



E.



B.



C.

**B. Muscled Elbow Joint Model**

G185

- Right elbow features bicep, tricep, flexor carpi radialis, pronator teres and extensor carpi radialis longus muscles; median, ulnar, and radial nerves; ulna, humerus, and radius bones; and palmar radiocarpal, flexor retinaculum and palmar ulnocarpal ligaments. Includes patient education card.
- Size: 19" x 3" x 6"

**C. Life-Size Muscled Joint Set***Save \$25 over individual model prices!*

GP4

- Includes muscled elbow (G185), shoulder (G181), knee (G106), and hip joint (G131). Includes patient education cards.

**D. Muscled Knee Joint Model**

G106

- Articulating right knee with meniscus, fibular collateral, tibial collateral, anterior/posterior cruciate and patellar ligament with patella. Extended femur and patellar ligament connected to top of quadracep. Includes patient education card. Base included.
- Size: 3-1/2" x 3" x 10"

**E. Muscled Hip Joint Model**

G131

- Articulating right hip joint features gluteus medius, piriformis, gemellus superior and inferior with obturator internus and iliacus showing branch of psoas major. Includes patient education card. Base included.
- Size: 5" x 4-3/4" x 8-1/4"

**A. Muscled Shoulder Joint Model**

G181

- Semi-articulating right rotator cuff model has encapsulated humerus that is removable from capsular ligament. Includes ligaments and the infraspinatus, teres minor, teres major, subscapularis and supraspinatus muscles. Includes patient education card.
- Size: 5-1/2" x 6" x 6"

**Be sure to see ...**

- Anatomical Charts & Posters (pages 4-26)
- Anatomical Models (pages 42-57)
- Gifts (page 75)
- Health Education Resources (pages 39-40)
- Reference Materials & Study Aids (pages 31-34)

**SAVE**

**F. Muscles of the Arm (Left)**

M10

- Top layers of muscles are removable to reveal the blood vessels and nerves. Dissects into 6 parts; all parts are numbered.
- 3B Scientific GmbH, size: 24"

**G. Muscles of the Leg (Left)**

M20

- Top layers of muscles are removable to reveal the blood vessels and nerves. Dissects into 9 parts; all parts are numbered. Base included.
- 3B Scientific GmbH, size: 30"

**H. Muscles of the Foot Model**

NS9

- Features muscles of foot and lower leg. Removable plantar fascia and superficial muscles show deep structures. Dissects into 9 parts. Made of SOMSO-Plast®. Removable from green® stand.
- Somso® Modelle, size: 7"x 7"x 13"

**I. Muscles of the Hand Model**

NS13

- Removable palmar aponeurosis and superficial muscles reveal the deep layer. Includes blood vessels and nerves. Dissects into 5 parts. Removable from green® stand.
- Somso® Modelle, size: 5-1/2"x 4-1/2"x 13-1/2"

**J. 9793 Ligaments of the Joints**

- 978-1-58779-467-4 Laminated.
- 978-1-58779-710-1 Styrene Plastic.
- 978-1-58779-466-7 Paper.

**K. Anatomy and Injuries of the Foot and Ankle**

- 978-1-5877-9838-2 Laminated.
- 978-1-5877-9837-5 Paper.
- 978-1-5877-9839-9 Styrene.

**L. Anatomy and Injuries of the Hand and Wrist**

- 978-1-5877-9914-3 Laminated.
- 978-1-58779-913-6 Paper.



F.



G.



H.



I.



J.



K.



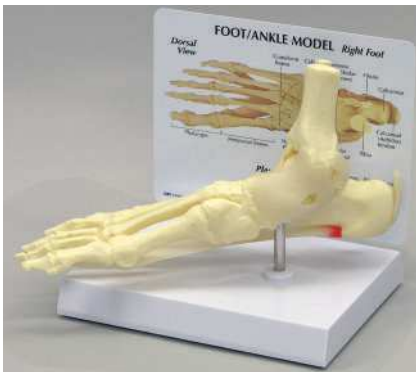
L.



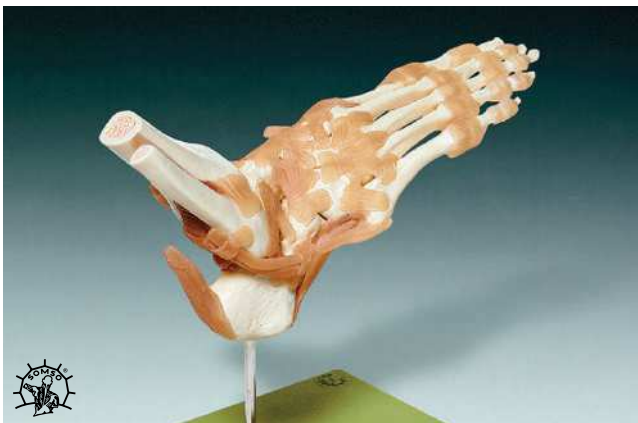
A.



B. NS1



C.



D.

**A. Budget Foot Model Set**

CHM312

- Life-size, depicting flat foot, arched foot and normal foot. Does not dissect. Each foot has 23 numbered parts corresponding to key card.

**B. Deluxe Foot Models**

NS1 normal foot

- Each of these life-size models features the anatomical structure of the foot and the distal end of the tibia. One piece, does not dissect.
- Somso® Modelle, size: 5-1/2" x 10" x 4"

**C. Foot and Ankle Model**

G198

- Right foot features the plantar calcaneonavicular (spring) ligament with plantar fasciitis. Also includes tibia, fibula, calcaneus, calcaneal (Achilles) tendon, deltoid ligament, lateral (collateral) ligament, plantar aponeurosis, cuneiform, phalanges, cuboid, navicular and metatarsal bones. Removable from base. Includes patient education card.
- Size: 9" x 2-3/4" x 4"

**D. Functional Model of the Foot and Ankle**

NS54

- Right foot and ankle with ligamentous apparatus. Demonstrates rotary movements, bending and extension. Includes teaching manual. Removable from green® stand. Does not dissect. Made of SOMSO-Plast®
- Somso® Modelle, size: 7" x 10-1/2" x 12-1/2"

**E. Hand and Wrist Model**

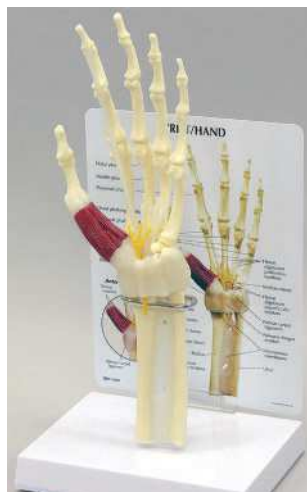
G192

- Life-size model of left hand, wrist and forearm features: distal, middle and proximal phalanges of the thumb, metacarpal bones, joint capsule ligaments, thenar muscle, palmar carpal ligament, median nerve, flexor digitorum superficialis tendons, triquetrum, pisiform, hamate, hook of hamate, flexor digitorum profundus tendons, palmaris longus tendon, interosseous membrane, radius and ulna. Palmar carpal ligament lifts to show nerves and ligaments. Removable from base. Includes patient education card.
- Size: 11-1/2" x 3-3/4" x 1-1/4"

**F. Functional Model of the Hand and Wrist**

NS55

- Right hand with portion of radius, ulna, and ligamentous apparatus. Bending, extension, abduction and adduction of the fingers and palmar flexion can be demonstrated. Removable from green® stand. Includes teaching manual. Does not dissect.
- Somso® Modelle, size: 7" x 7-1/2" x 12-1/2"



E.



F.

**G. Adult Skeletons**

QS101 (Male)

QS108 (Female)

- Natural cast male adult or female adult skeletons. Lifelike representation of bone structure. Skull includes a removable calvarium and mandible. Extremities are removable and joints are movable. Both right and left foot can be detached. Mounted upright on a stand with rollers.
- Somso® Modelle, size: 5' 6" tall

**H. Flexible Physiotherapy Skeleton with Stand**

Z3014

- Specifically designed for use in rehab, physical therapy and sports medicine offices. Life-size skeleton features a flexible spinal cord that holds bending positions, and the skull with sutures highlighted, arms, legs and feet are easily detachable for patient consultation. The spine has spinal nerves and soft foam discs that allow for natural bending. The shoulders, hips and ankle joints have gliding joints that allow for easy movement. Mounted on a mobile base. Note: Express delivery is extra.
- Size: 67" tall



G. 5'6" (167.6cm)t tall



H. 67" (170.1cm) tall



A. 5'5" (165.1cm) tall



B. 5'5" (165.1cm) tall



C. 5'5" (165.1cm) tall

#### A. Mr. Superskeleton

A13

- Features joint ligaments, flexible spine with nerve endings, muscle origins and insertions. Skull dissects into 3 pieces with removable calvarium and lower jaw. Flexible spine includes all spinal nerves and vertebral artery. Skull, left arm and leg are detachable. Muscle insertions and origins are painted in red and blue on left side. Right side has ligaments of shoulder, elbow, hip and knee. Left side is numbered.
- 3B Scientific GmbH, size: 5'5" tall

#### B. Mr. Plain Skeleton

A10

- Articulated adult human skeleton for teaching purposes. Arms and legs are removable. Skull dissects into 3 parts with the mandible on spring (32 teeth). Mounted with a metal rod extending from sacrum on mobile stand.
- 3B Scientific GmbH, size: 5'5" tall

#### C. Mr. Flexible Skeleton

A15

- Flexible spine holds various positions. All fissures, foramen and anatomical details reproduced. Skull is dissectible into 3 parts: calvarium, base and lower jaw. Upper and lower extremities are flexibly mounted and removable. Rotation and movements of skull on cervical vertebrae can be demonstrated. Spine includes nerves and vertebral artery. Flexible spine demonstrates natural movements of the human body. Mounted on a mobile stand.
- 3B Scientific GmbH, size: 5'5" tall



**D. Painted & Numbered Budget Bucky® Skeleton**

CH168

- Life-size skeleton has muscle insertions and origins painted on the left side of the skeleton and numbers of important features on the right side. Calvarium is cut with moveable jaw mounted on springs. All joints articulate. Arms, legs and skull are removable. Includes a rolling stand, comprehensive key and our **Illustrated Pocket Anatomy Study Guide: The Muscular & Skeletal Systems, 2nd Edition**. Also includes extra hardware for emergency repairs. Choking hazard: small parts. Not for children under 3 years.
- Size: 5'6" tall. Weight: 23 lbs.

**E. Numbered Budget Bucky® Skeleton**

CH10N (inset picture shown)

- Same as item CH-10 but with 200 numbered parts to identify the various bones. Includes a rolling stand, comprehensive key and **Illustrated Pocket Anatomy Study Guide: Muscular and Skeletal Systems, 2nd Edition**.
- Size: 5'6" tall. Weight: 23 lbs.

**F. Budget Bucky® Skeleton**

CH10

- Life-size articulated adult skeleton, ideal for teaching the basics of anatomy. Articulated joints allow for movement, and skull, arms and legs are removable. Features nerve branches, vertebral artery and herniated lumbar disc. Skull with movable jaw, cut calvarium, suture lines, and 3 removable lower teeth. Includes rolling stand and the **Illustrated Pocket Anatomy Study Guide: The Muscular & Skeletal Systems, 2nd Edition**. Also includes extra hardware for emergency repairs. Choking hazard: small parts. Not for children under 3 years.
- Size: 5'6" tall. Weight: 23 lbs.



**Illustrated Pocket Anatomy Study Guide: The Muscular & Skeletal Systems, 2nd Edition**

**INCLUDED FREE!**

D. 5'6" (167.6cm) tall



E.



**INCLUDED FREE!**

**Illustrated Pocket Anatomy Study Guide: The Muscular & Skeletal Systems, 2nd Edition**  
**A \$9.95 value!**

F. 5'6" (167.6cm) tall



A. 33-1/2" (85.1cm) tall



B. 33-1/2" (85.1cm) tall



C. 33-1/2" (85.1cm) tall



D. 25-1/2" (64.8cm) tall



E. 16-1/2" (41.9cm) tall



F. 50" (127cm) tall

**A. Mr. Thrifty® Skeleton**

WCP-1

- Economical teaching skeleton with user-friendly personality will encourage children to learn the names of bones; details will satisfy students, doctors and anyone interested in the human skeleton. Removable calvarium. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 33-1/2" tall

**B. Flexible Mr. Thrifty® Skeleton with Spinal Nerves**

WCP1NX

- More advanced version of Mr. Thrifty™ Skeleton features flexible spine with spinal cord, nerve roots, the vertebral artery, a herniated disc, cartilage, removable 3-piece skull and extremities. Popular desktop model for rehabilitation, physical therapy and sports medicine professionals. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 33-1/2" tall

**C. Painted Mr. Thrifty® Skeleton**

WCP85

- Has muscle insertions and origins painted on the left side and numbers of important features on the right side. Calvarium is cut and jaw is spring mounted. Arms, legs and skull are removable. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 33-1/2" tall

**D. Painted Big Tim Skeleton**

CMS65

- Has muscle insertions and origins painted on the left side and numbers of important features on the right side. Calvarium is cut and jaw is spring mounted. Arms, legs and skull are removable. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 25-1/2" tall

**E. My First Skeleton (Tiny Tim)**

CMS1

- Our most popular miniature skeleton offers hands-on learning for curious kids who want to understand how many, locations and shapes of the bones that make up the human skeleton. Special features include a moveable jaw, a skull whose calvarium opens for a look inside, and removable arms and legs. For a classroom teaching model, please consider our Mr. Thrifty budget skeletons. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 16-1/2" tall

**F. Budget Bart® Skeleton**

CH95

- 3/4 life-size skeleton is economically priced and features spinal nerves, vertebral artery, jaw on springs and cut calvarium. Knee, shoulder, and hip are articulated; hands and feet are not. Stand included. Choking hazard: small parts. Not for children under 3 years.
- Size: 50" tall

**Be sure to see ...**

- Anatomical Charts & Posters (pages 4-26)
- Anatomical Models (pages 42-57)
- Health Education Resources (pages 39-40)
- Reference Materials & Study Aids (pages 31-34)
- Training Aids & Simulators (page 41)



A.



B.

#### A. Anatomical Key Ring Collection

7031SP Spine  
7032SP Hand  
7033SP Hip  
7041SP Skull  
7036SP Knee

- Miniature replicas of human bones and body parts are handcrafted into clever, anatomical key rings. Made of durable plastic. Includes informative key card on back of package. Choking hazard: small parts. Not for children under 3 years.
- Minimum 3 per item

#### B. Petit Pete Skeleton

CV88P

- Pete's arms and legs are affixed with tiny screws to allow movement and are realistically jointed at the elbow and knee. Choking hazard: small parts. Not for children under 3 years.
- Size: 8-1/2" tall, 9-1/2" tall on stand (included)



C.

#### C. Bone Socks

SS26AKLWH Bone Socks (white)

SS26AKLBK Bone Socks (black) (not shown)

- 60% cotton, 35% polyester and 5% nylon knee length socks show the various bones of your lower leg and the top of your foot. Pictured on the sole is a reflexology/organ legend. One-size-fits-all.

Customers rate Anatomical Chart Company products



*"My favorite gift"*

Suzanne, Scotland