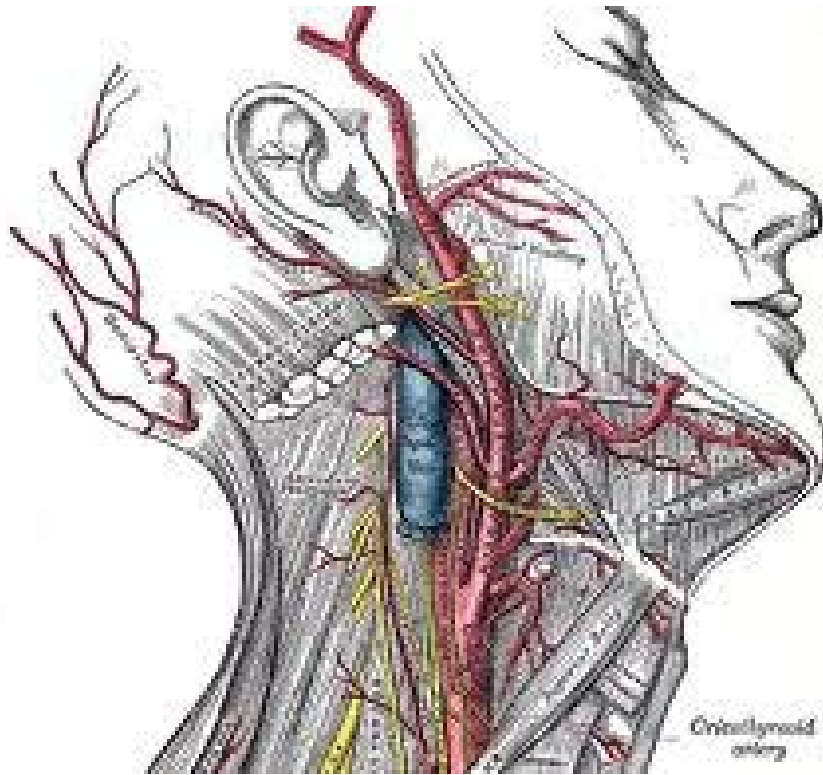


Spotlight! on NLM Resources

Anatomy Resources



Marty Magee
National Network/Libraries of Medicine
Education and Nebraska Liaison
McGoogan Library of Medicine
Univ. of Nebraska Medical Center
986706 Nebraska Medical Center
Omaha NE 68198-6706
402-559-7076
1-800-338-7657
mmagee@unmc.edu



National Network of Libraries of Medicine
MidContinental Region

Colorado • Kansas • Missouri • Nebraska • Utah • Wyoming

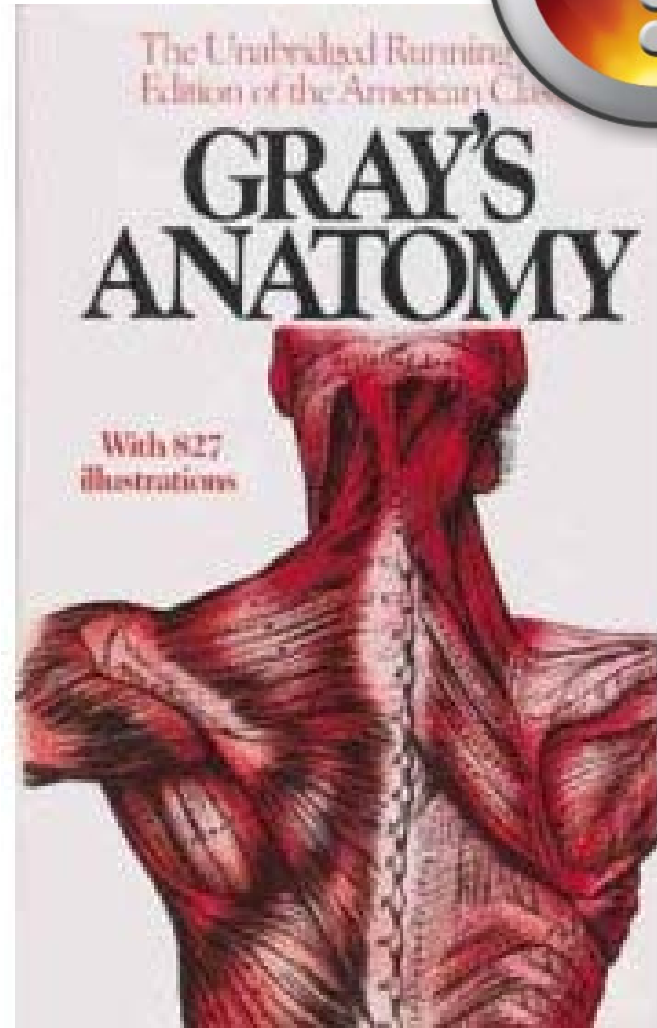
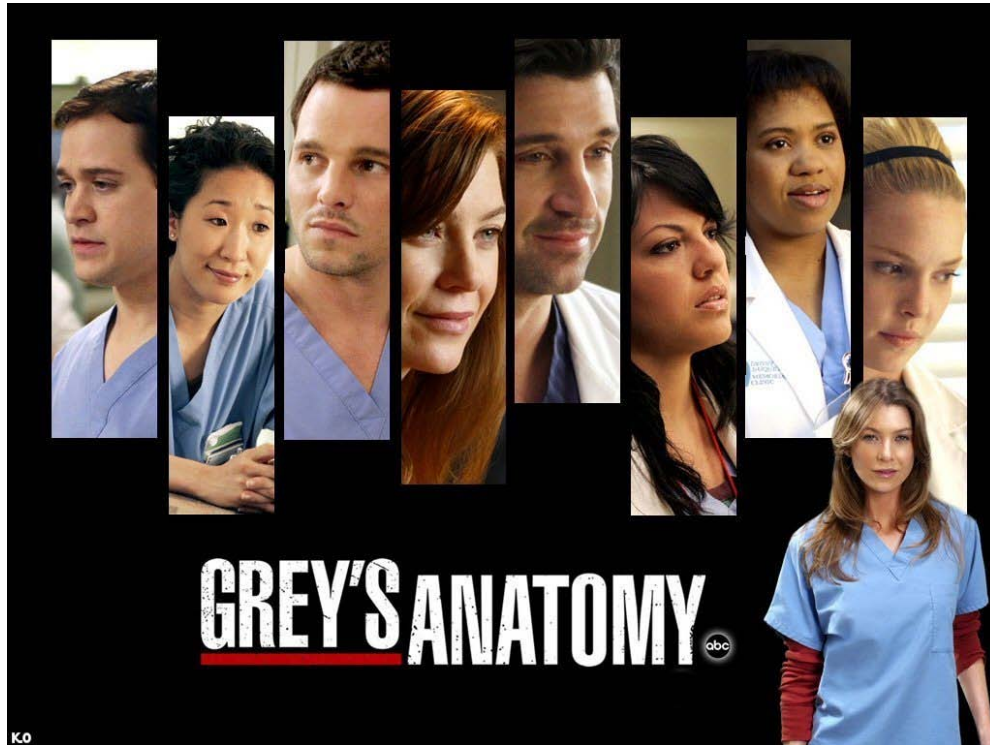
Objectives

- Where did this start?
- Where are we starting?
 - MedlinePlus – of course
- Other National Library of Medicine Resources
- Other free anatomy resources

What are you thinking about?

1 OR?

2



History of Medicine



[Historical Anatomies Home](#) > [Browse Titles](#)

Images have been selected from the following anatomical atlases in the National Library of Medicine's collection. Each atlas is linked to a brief Author & Title Description, which offers an historical discussion of the work, its author, the artists, and the illustration technique. The Bibliographic Information link provides a bibliographical description of the atlas, so users will know which edition was scanned and if there are any characteristics special to the Library's copy. Click on the thumbnail to the left of the title to view images from the atlas.

[A](#) - [B](#) - [C](#) - [D](#) - [E](#) - [G](#) - [H](#) - [K](#) - [L](#) - [M](#) - [Q](#) - [P](#) - [R](#) - [S](#) - [V](#)



[Click on image to view this book](#)

Author: **Albinus, Bernhard Seigfried (1697-1770).**

Title: ***Tabulae sceleti et musculorum corporis humani.***

Publication Information: **London: H. Woodfall; J. & P. Knapton, 1749.**



[Click on image to view this book](#)

Author: **Anonymous.**

Title: ***Persian Anatomical Illustrations.***

Publication Information: **[Iran or Pakistan, ca. 1680-1750].**



[Click on image to view this book](#)

Author: **Anonymous.**

Title: ***[Treatise on physiognomy].***

Publication Information: **[Netherlands?, ca. 1790].**



Author: **Berengario da Carpi, Jacopo (ca. 1460-ca. 1530).**

<http://www.nlm.nih.gov/exhibition/historicalanatomies>

DE HVMANI CORPORA FABRICA LIBER I. 163
HVMANI COR-
SIMPL COMPACTO-
EX FACIE EXPRES-
PORIS OSSIVM
RVM ANTERIORI
SIO.

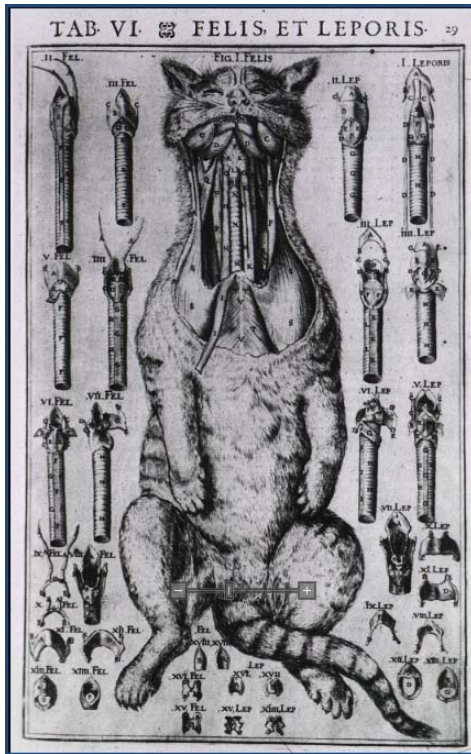


Vesalius text with Zoom

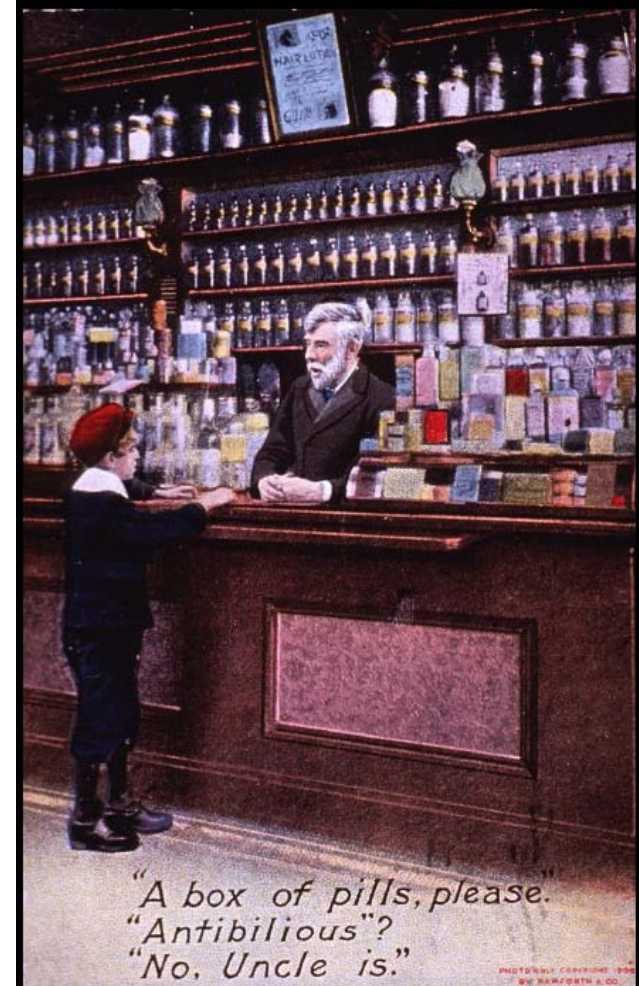


Images from the History of Medicine

Posters, portraits, postcards...

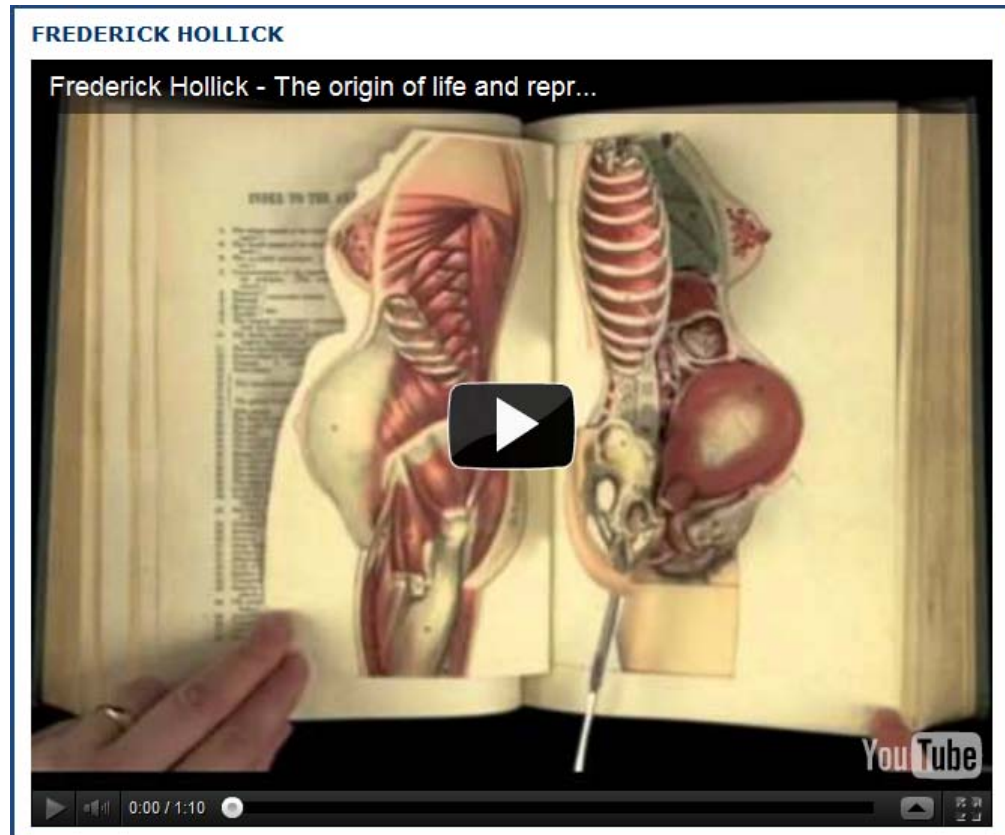


<http://ihm.nlm.nih.gov/luna/servlet/view/all>



Flap Books -

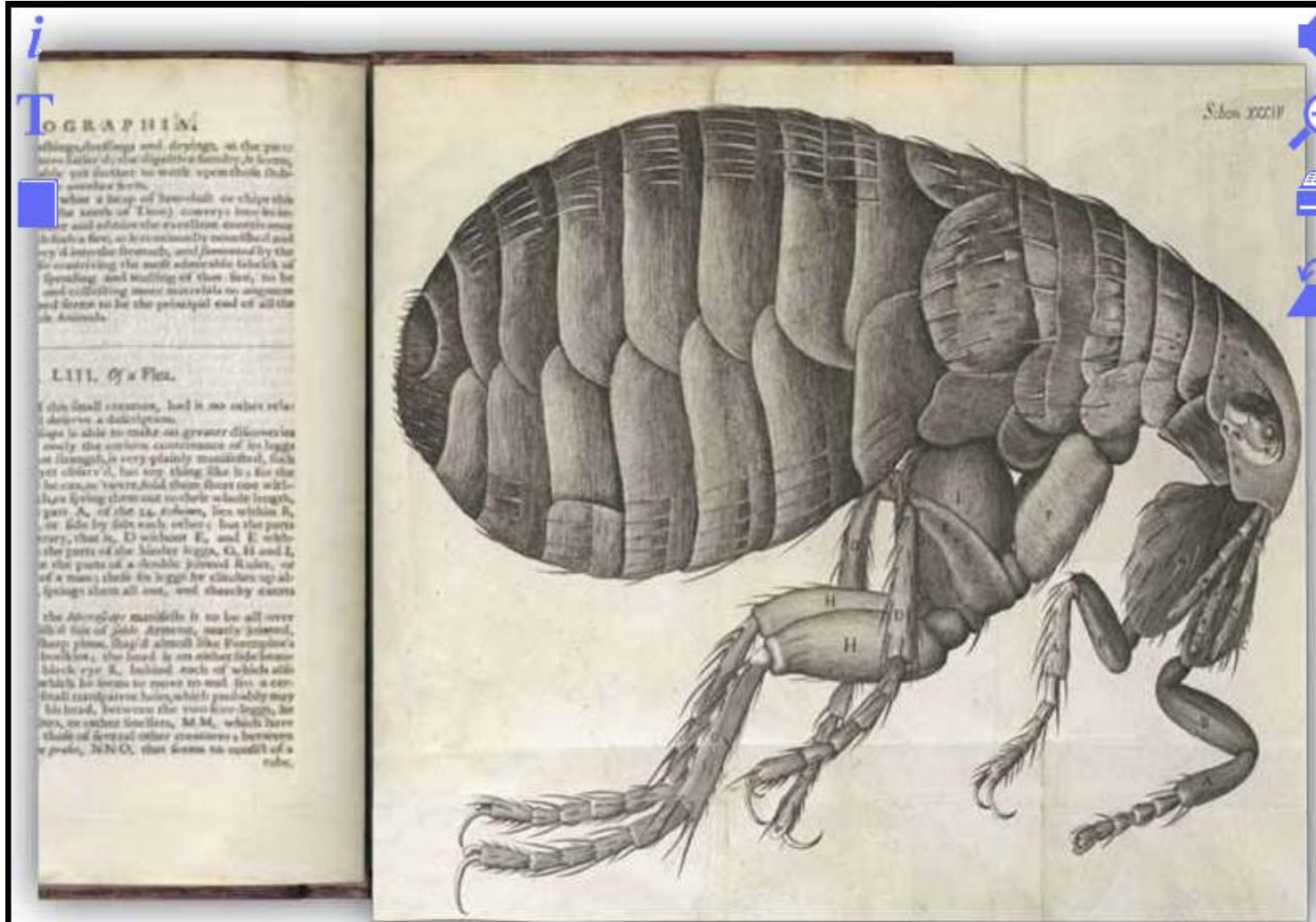
- <http://exhibits.library.duke.edu/exhibits/show/anatomy/video/>
- Or on YouTube – search for “flap books Duke University”



Turning the Pages

<http://archive.nlm.nih.gov/proj/ttp/books.htm>

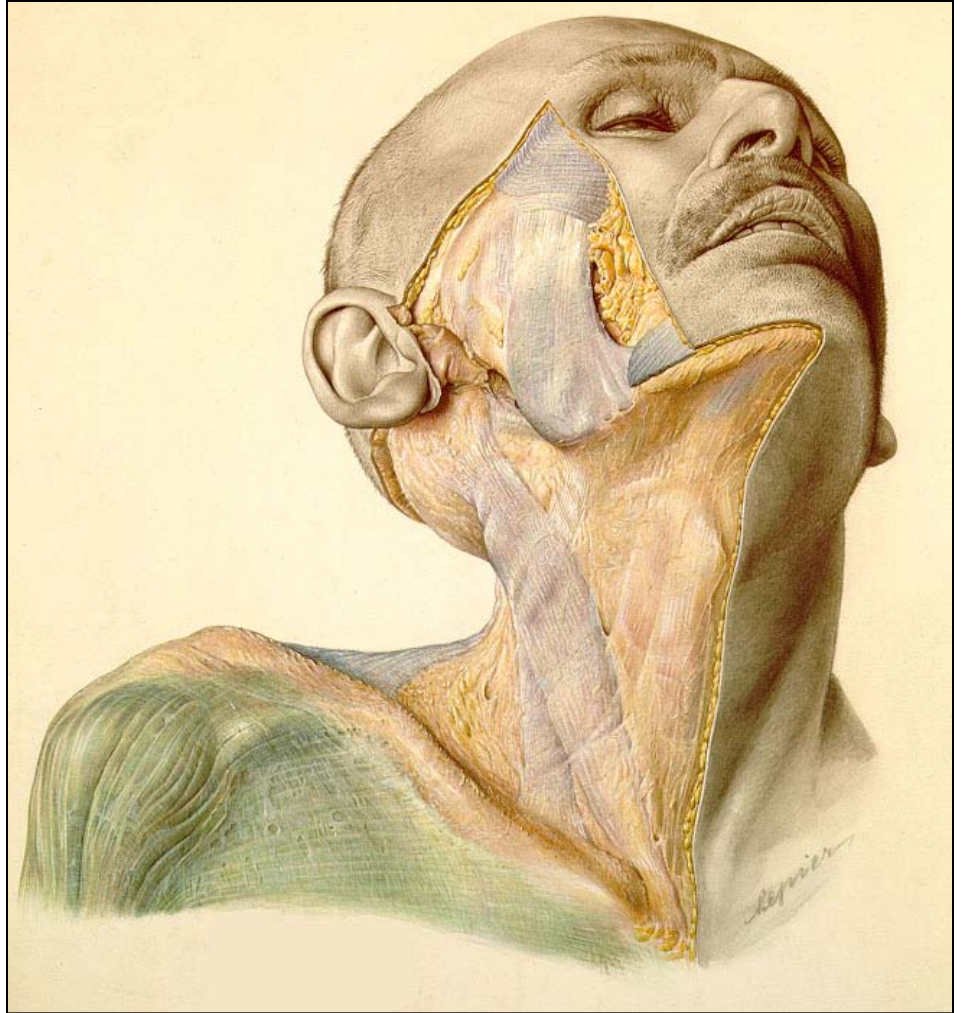
Robert Hooke's Micrographia



Pernkopf Atlas

Ethics and Anatomy

- Bull Med Libr Assoc. 2001 January; 89(1): 51–58.
- PMID: PMC31704
- Ethics and access to teaching materials in the medical library: the case of the Pernkopf atlas*
- Michel C. Atlas, M.L.S., AHIP¹



MedlinePlus – look for Image

Results 1 - 10 of 873 for **kidney image**

[Search Help](#)

1. [Tuberculosis in the kidney \(image\)](#)

Kidneys can be damaged by tuberculosis. Tuberculosis generally affects the lungs, but may cause infection in many other organs in the body. (Image courtesy of Control and Prevention.)

www.nlm.nih.gov/medlineplus/ency/imagepages/1033.htm - Medical Encyclopedia

2. [Hypertensive kidney \(image\)](#)

1026 ... www.nlm.nih.gov ... The **kidneys** filter wastes and excrete fluid from the blood. When the pressure of blood in the bloodstream forces blood through the ...

www.nlm.nih.gov/medlineplus/ency/imagepages/8818.htm - Medical Encyclopedia

3. [Kidneys \(image\)](#)

1044 ... www.nlm.nih.gov ... The **kidneys** are located in the posterior part of the body. They are responsible for filtering urine from the blood.

www.nlm.nih.gov/medlineplus/ency/imagepages/8819.htm - Medical Encyclopedia

4. [Kidney pain \(image\)](#)

970 ... www.nlm.nih.gov ... A **kidney** stone is a solid piece of material that has formed in the kidney. **Kidney** stones may be the size of sand or gravel, ...

www.nlm.nih.gov/medlineplus/ency/patientimages/000283.htm - Medical Encyclopedia

5. [Pancreas and kidneys \(image\)](#)

1200 ... www.nlm.nih.gov ... Uncontrolled diabetes causes damage to the pancreas and kidneys. **Kidney** damage caused by ...

www.nlm.nih.gov/medlineplus/ency/imagepages/19264.htm - Medical Encyclopedia

6. [Kidney anatomy \(image\)](#)

4292 ... www.nlm.nih.gov ... The **kidneys** are responsible for removing wastes from the body, regulating electrolyte balance and blood pressure, ...

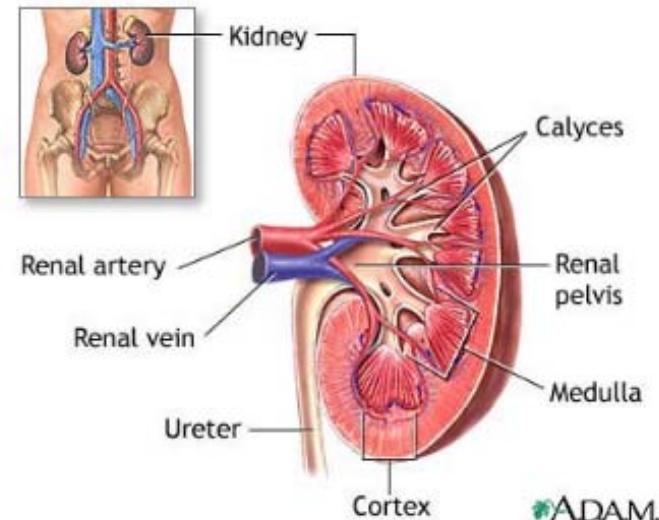
www.nlm.nih.gov/medlineplus/ency/imagepages/1101.htm - Medical Encyclopedia

7. [Kidney anatomy \(image\)](#)

963 ... www.nlm.nih.gov ... The **kidneys** filter wastes and excrete fluid when the pressure of blood in the bloodstream forces blood through the ...

www.nlm.nih.gov/medlineplus/ency/imagepages/8816.htm - Medical Encyclopedia

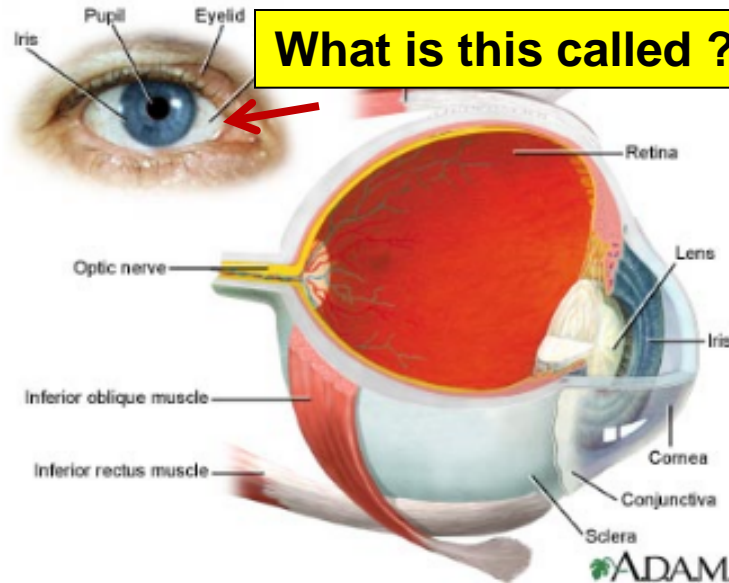
Kidney anatomy



The kidneys are responsible for removing wastes from the body, regulating electrolyte balance and blood pressure, and stimulating red blood cell production.

Look for Eye Image

Eye



The eye is the organ of sight, a nearly spherical hollow globe filled with fluids (humors). The outer layer or tunic (sclera, or white, and cornea) is fibrous and protective. The middle tunic layer (choroid, ciliary body and the iris) is vascular. The innermost layer (the retina) is nervous or sensory. The fluids in the eye are divided by the lens into the vitreous humor (behind the lens) and the aqueous humor (in front of the lens). The lens itself is flexible and suspended by ligaments which allow it to change shape to focus light on the retina, which is composed of sensory neurons.



MedlinePlus > Health Topics > Bones, Joints and Muscles



A service of the U.S. National Library of Medicine
NIH National Institutes of Health

[Home](#) [About MedlinePlus](#) [Site Map](#) [FAQs](#) [Contact Us](#)

Search MedlinePlus

GO

Health Topics

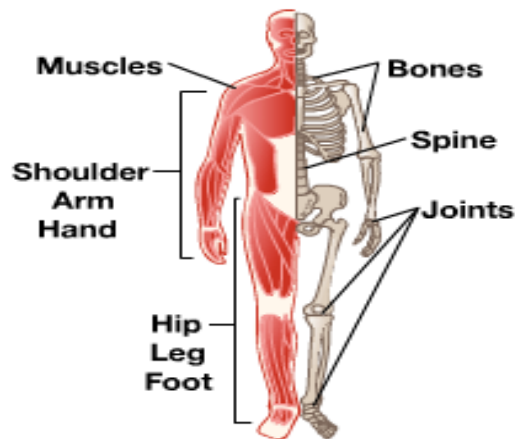
Drugs & Supplements

Videos & Cool Tools

ESPAÑOL

Bones, Joints and Muscles

[See all topics](#)



Select One:

- [Bones](#)
- [Hip, Leg and Foot](#)
- [Joints](#)
- [Muscles](#)
- [Shoulder, Arm and Hand](#)
- [Spine](#)

Bones, Joints and Muscles Topics

Achilles Tendon Injuries see [Heel Injuries and Disorders](#)

Achondroplasia see [Dwarfism](#)

This page is not like the other – WHY?

Temas de salud

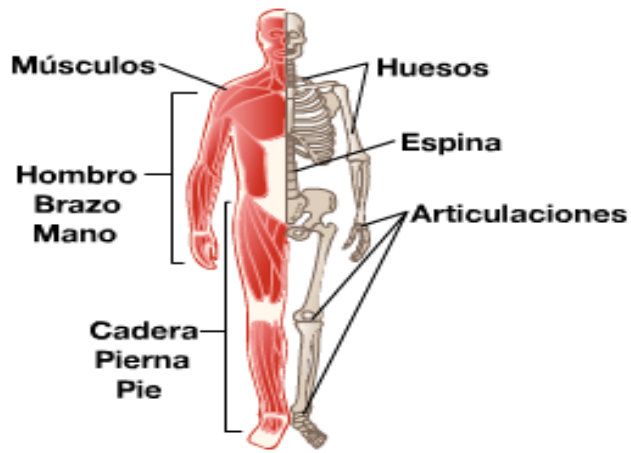
Medicinas y suplementos

Videos y multimedia

ENGLISH

Huesos, articulaciones y músculos

[Vea todos los temas](#)



Seleccione una opción:

[Articulaciones](#)
[Cadera, pierna y pie](#)
[Espina](#)
[Hombro, brazo y mano](#)
[Huesos](#)
[Músculos](#)



Huesos, articulaciones y músculos

Acondroplasia ver [Enanismo](#)
Amputaciones ver [Pérdida de extremidades](#)
[Anatomía](#)

Question time....

- What is the Spanish word for “bones?”



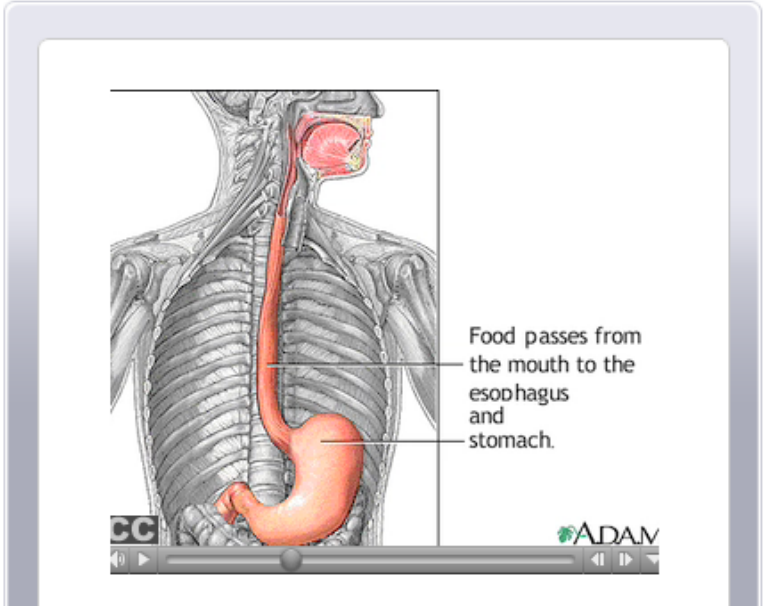
MedlinePlus.gov > Videos & Cool Tools > type in Anatomy – see list

■ Videos & Cool Tools

– Anatomy Videos

- Heartburn - <http://www.nlm.nih.gov/medlineplus/ency/anatomyvideos/000068.htm>

Heartburn



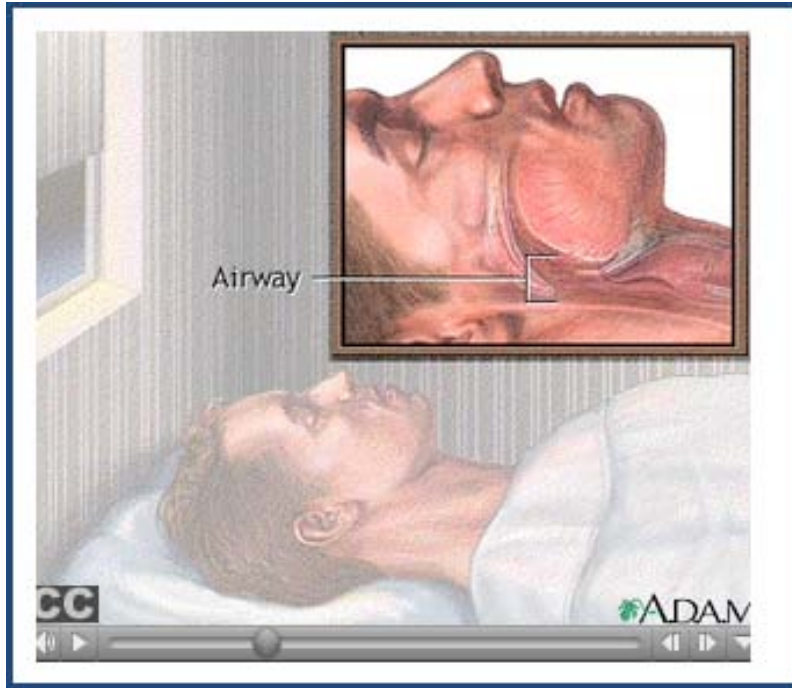
Food passes from the mouth to the esophagus and stomach.

CC ADAM

Eating spicy foods, such as pizza, may cause a person to feel heartburn. Although the name may imply the heart, heartburn has nothing to do with the heart itself. Heartburn is pain felt in the chest by a burning sensation in the esophagus, which is located close to where the heart is.

Here you can see the pizza passing from the mouth to the esophagus and on to the stomach. At junction between the stomach and esophagus is the lower esophageal sphincter. This muscular sphincter acts as a valve that normally keeps food and stomach acid in the stomach and prevents the stomach's contents from regurgitating back into the esophagus.

Question – Anatomy Videos

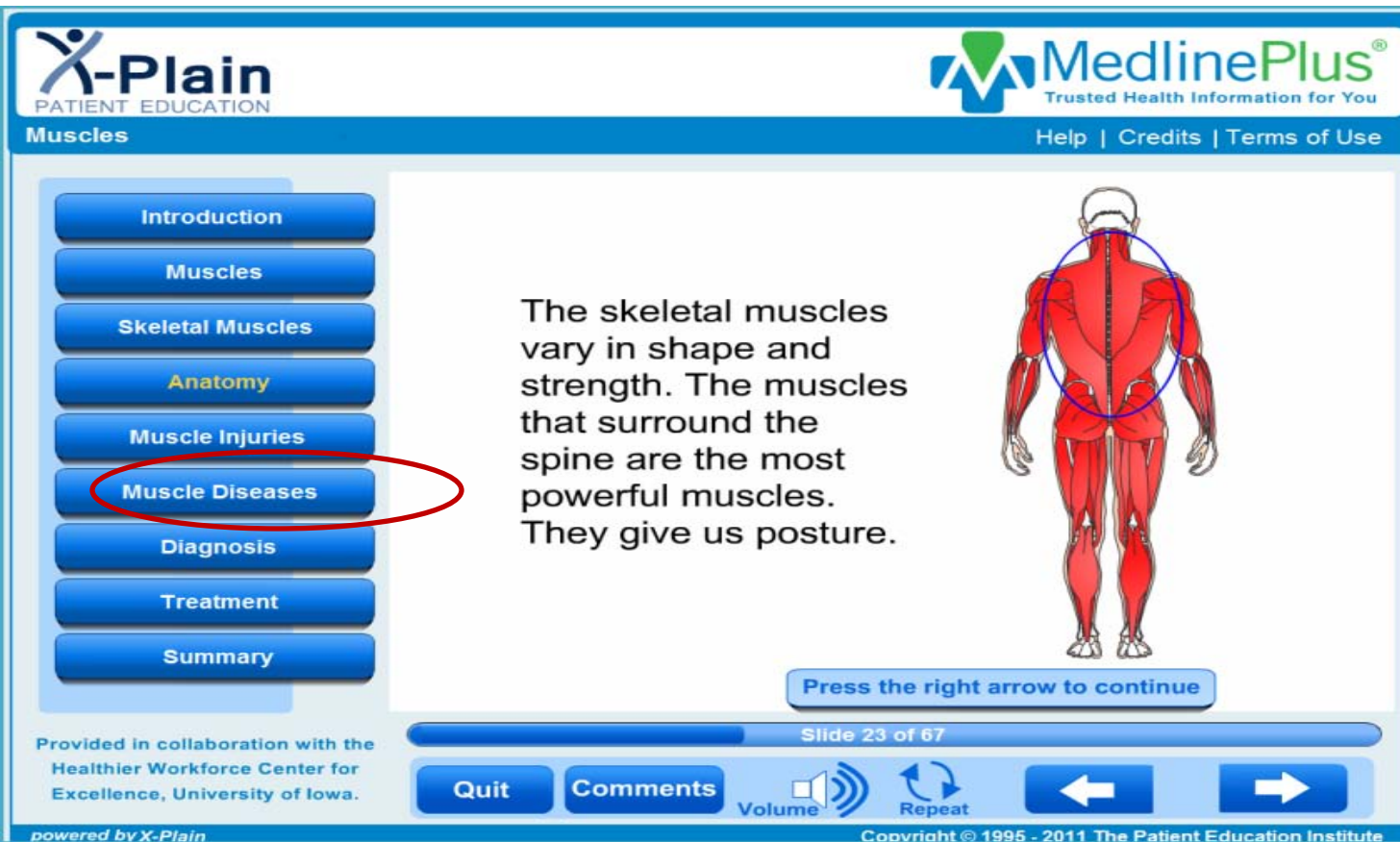


- Snoring results from the vibration of the _____ and the _____.

MedlinePlus.gov > Videos & Cool Tools > type in Anatomy – see list – select Snoring



MedlinePlus > Interactive Tutorials > Muscles



The screenshot shows the MedlinePlus interactive tutorial interface. At the top left is the X-Plain logo with the text "PATIENT EDUCATION". At the top right is the MedlinePlus logo with the tagline "Trusted Health Information for You" and links for "Help | Credits | Terms of Use". Below the logos is a blue header bar with the word "Muscles". On the left side, there is a vertical menu of blue buttons: "Introduction", "Muscles", "Skeletal Muscles", "Anatomy", "Muscle Injuries", "Muscle Diseases" (circled in red), "Diagnosis", "Treatment", and "Summary". The main content area features a text block on the left and an anatomical illustration of a human back on the right. The text reads: "The skeletal muscles vary in shape and strength. The muscles that surround the spine are the most powerful muscles. They give us posture." The illustration shows a human back with a blue circle highlighting the muscles around the spine. Below the illustration is a button that says "Press the right arrow to continue". At the bottom of the interface, there is a progress bar showing "Slide 23 of 67" and a set of navigation controls including "Quit", "Comments", "Volume", "Repeat", and left/right arrow buttons. At the very bottom, it says "powered by X-Plain" and "Copyright © 1995 - 2011 The Patient Education Institute".

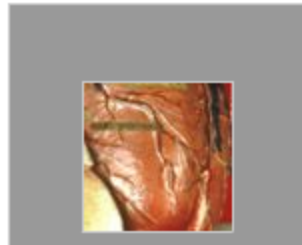
Next slide:
_____ muscles help move our arms.



MedlinePlus – Videos - Games

BODY PARTS

1. Inspect the mystery image on the left of your screen
2. To find and select your answer, use your mouse to roll over Jerome's anatomy.
3. Don't forget to look for additional answers by turning Jerome.



▶▶ Place the part! (3 of 10)



http://americanhistory.si.edu/anatomy/bodyparts/nma03_bodyparts.html

ARTIFICIAL ANATOMY:

Papier-Mâché Anatomical Models

 Smithsonian
National Museum of American History
Behring Center

[History](#) [Preservation](#) [Collection](#) [Body Parts](#)

BODY PARTS

How well do you know your anatomy?

Play Artificial Anatomy's Body Parts to test your retention.

Here's how you play.

When you see a mystery image on the left of your screen, you'll be prompted to identify the body part. Use your mouse to find and select the proper body part from the full size anatomical model. Don't forget to look for additional answers by turning Jerome*. There are 10 parts in all. See how many parts you can place.

▶▶ Let's go!

* Who's Jerome?



What's his name?



MedlinePlus > Videos > Games Body Parts > Collection

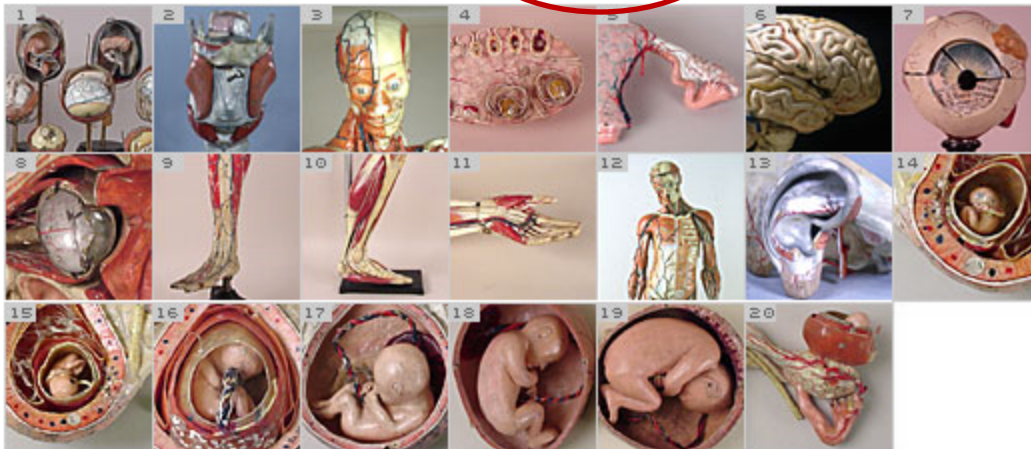
ARTIFICIAL ANATOMY: Papier-Mâché Anatomical Models

Smithsonian
National Museum of American History
Behring Center

History Preservation **Collection** Body Parts

COLLECTION

Human Models
Veterinary Models
Botanical Models

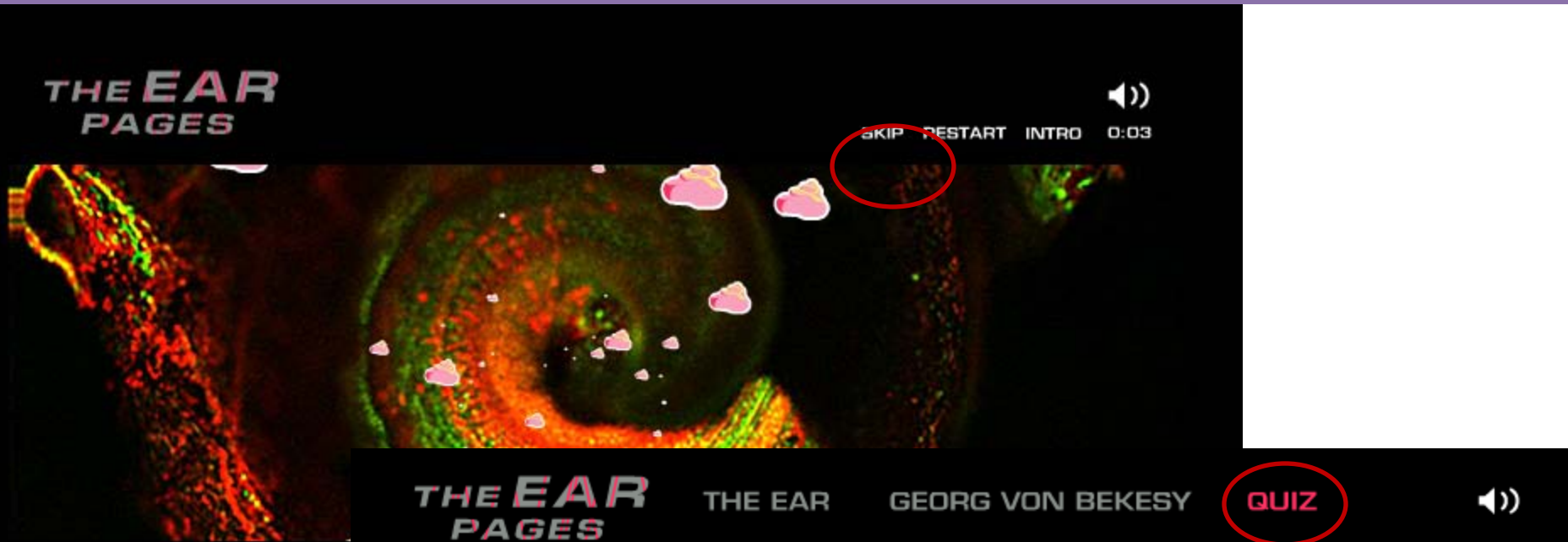


1. [Embryos](#)
2. [Larynx](#)
3. [Male Model](#)
4. [Ovary, cross-section](#)
5. [Uterus](#)
6. [Brain](#)
7. [Eye](#)
8. [Eye, cross-section](#)
9. [Right Leg](#)
10. [Left Leg](#)
11. [Left Arm](#)
12. [Male Model](#)
13. [Ear](#)
14. [Uterus w/ fetus \(1 month\)](#)
15. [Uterus w/ fetus \(2 months\)](#)
16. [Uterus w/ fetus \(3 month\)](#)
17. [Uterus w/ fetus \(5 months\)](#)
18. [Uterus w/ fetus \(8 month\)](#)
19. [Uterus w/ fetus \(9 months\)](#)
20. [Uterus, ectopic pregnancy](#)



MedlinePlus > Videos > Games

The Ear Pages (Nobel Prize)



The screenshot shows a video player interface. The video title is "THE EAR PAGES". The video content displays a cross-section of the human ear with various parts highlighted in pink and green. The video player controls include a volume icon, a "SKIP" button (circled in red), a "RESTART" button, an "INTRO" button, and a "0:03" timer. Below the video player, there is a navigation bar with the following options: "THE EAR PAGES", "THE EAR", "GEORG VON BEKESY", and "QUIZ" (circled in red). A volume icon is also present on the right side of the navigation bar.



2:9 - Beginner

The snail-shaped part of the inner ear (the cochlea) is the size of a...

- small pea
- potato
- postage stamp

MedlinePlus > Videos > Games

Vascular Health Activity Book

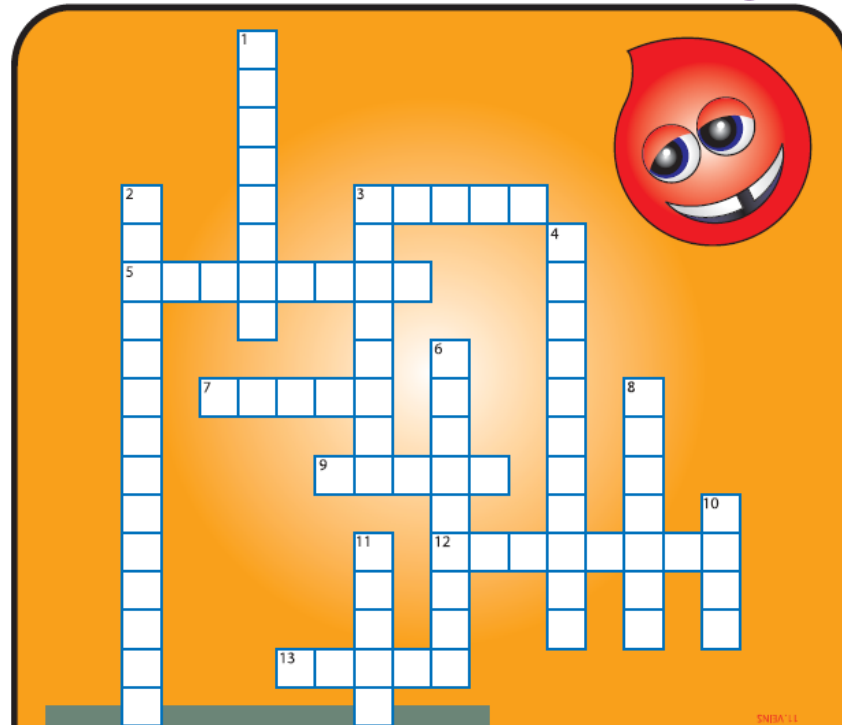
Word Search



Y S N N J F H X L W T Y H S G S G U A M
 R U H J E D S E P O R Y N J E A O R T A
 Q R W P Y G V M A Q R I P I H V R M Z X
 D G I D N E Y K L R E E R E J F H C Q U
 R E S U S M G X K V T E T U K D B E N A
 Z O Y S X F O B O H T D S S U T E X X T
 I N E D H M R N T R H V V E E L J H R G
 C L Y L E C V G A L F T V W T L D A R L
 S C K Y O Z B L O C K A G E D C O P V Y
 O R M Q W S M I N D Z O Q F R L O H X H
 R S M A O G F V T S I T U O Y N T H C F
 N J S L V W H E X T B S S O X T K B P H
 J V U Q X U J R Q N U T E W L W D J A H
 U N Y I J Y K X V E Y G A A P O O G A Y
 U A N I I K P U H I X H K H S L O J L C
 U L C G R C O V B R T F J M V E L H E D
 Z U D U Z J B M W T B Z S G A E B L E C
 M E T S Y S R A L U C S A V Z A L V O L
 L L O J D A Z V N N V C C K O X T L R E
 K L A J I D S E N C S Y E N D I K K U Z

AORTA	CELL	KIDNEYS	SURGEON
ARTERIES	CHOLESTEROL	LIVER	VASCULAR SYSTEM
BLOCKAGE	DISEASE	NUTRIENTS	VEINS
BLOOD	HEART	OXYGEN	VESSELS

Crossword Challenge



Across

3. body fluid
5. vein doctors
7. main artery
9. blood pumper
12. physical workout
13. oxygen keeper

Down

1. out-door from your heart
2. blood road map
3. vein and artery stopper
4. blood flow inhibitor
6. good food benefit
8. dangerous habit
10. body building-block
11. in-door to your heart

Down
 1. ARTERIES
 2. AORTA
 3. BLOOD
 4. CHOLESTEROL
 5. SURGEON
 6. NUTRIENTS
 7. VEINS
 8. DANGEROUS
 9. BLOOD
 10. BLOOD
 11. VEINS
 12. EXERCISE
 13. OXYGEN

NLM Outreach Activities and Resources – Kids and Educators



U.S. Department of Health & Human Services

Outreach & Resources
SPECIALIZED INFORMATION SERVICES

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SIS Home > Outreach Activities & Resources > Kids and Educators

K-12 Science and Health Education

Working with teachers and scientific experts to provide FREE reliable resources to help introduce, reinforce, and supplement education programs.

Resources

- ▶ Biology
- ▶ Careers
- ▶ Environmental Health Science/Chemistry
- ▶ Forensics and Medical Technology
- ▶ General Health
- ▶ Genetics
- ▶ Health Information Tutorials
- ▶ HIV/AIDS
- ▶ Lesson Plans
- ▶ Projects
- ▶ Spanish-Language Resources

<http://sis.nlm.nih.gov/outreach/k12.html>

Biology

- **MedlinePlus**
(Grades 6 -12+)
Easy to read health information. An excellent source for all ages. Also available in [Spanish](#).
- **PubMed**
(Grades 11 – 12+)
A citation index for articles from medical and life science journals. View the [PubMed tutorial](#) for site navigation guidance.
- **Visible Human Project**
(Grades 6 – 12+)
Complete, anatomically detailed, 3D representations of the normal male and female human bodies.

PubMed

Limits

Dates

Published in the Last:

Type of Article

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis

Species

- Humans
- Animals

Subsets

- AIDS
- Bioethics
- Cancer
- Complementary Medicine

Text Options

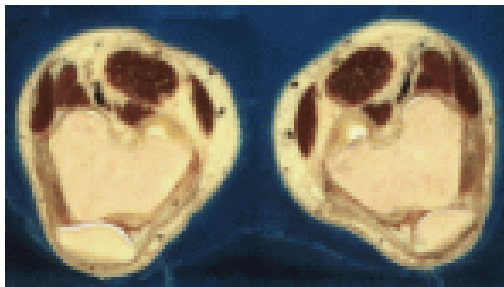
- Links to full text
- Links to free full text
- Abstracts

Search for:

- Interactive Tutorials
- Webcasts

Visible Human Project

- A project of the National Library of Medicine
- Cross-sectional images of the human female and male



[730x399 24-bit color JPEG, 51365 bytes]

Section through Visible Human Male - knee, including patella (from Thigh subset)

http://www.nlm.nih.gov/research/visible/mpeg/umd_video.mpg

Mobile Apps

Embryo By National Library of Medicine

[View More By This Developer](#)

Open iTunes to buy and download apps.



Description

Scientists and educators have used the Carnegie Embryo Collection, housed at the National Museum of Health and Medicine, to define normal human embryo development for decades. A database, called the Virtual Human Embryo, has been created to provide digital serial sections of human embryos from the collection.

[National Library of Medicine Web Site](#) > [Embryo Support](#) >

[...More](#)

What's New in Version 1.04

Fix "Cancel" and "Done" buttons' presses not detected properly

[View In iTunes](#)

Free

Category: [Medical](#)

Updated: May 18, 2011

Current Version: 1.04

1.04

Size: 27.6 MB

Language: English

Seller: National Library of Medicine

© 2011 National Library of Medicine

Rated 4+

Requirements: Compatible with iPhone, iPod touch, and iPad. Requires iOS 3.0 or later

Customer Ratings

We have not received enough ratings to display an average for the current version of this application.

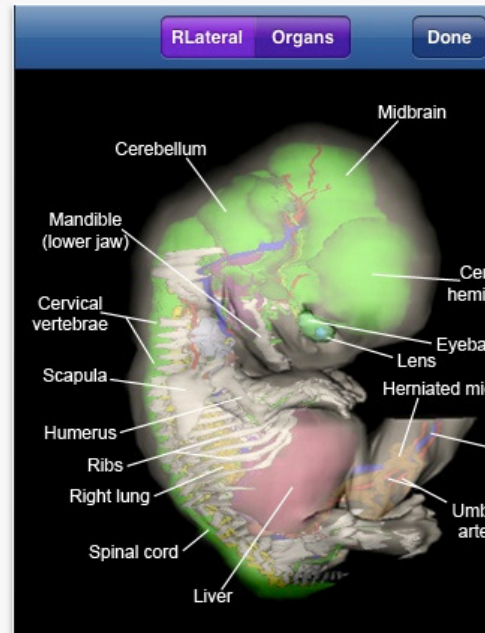
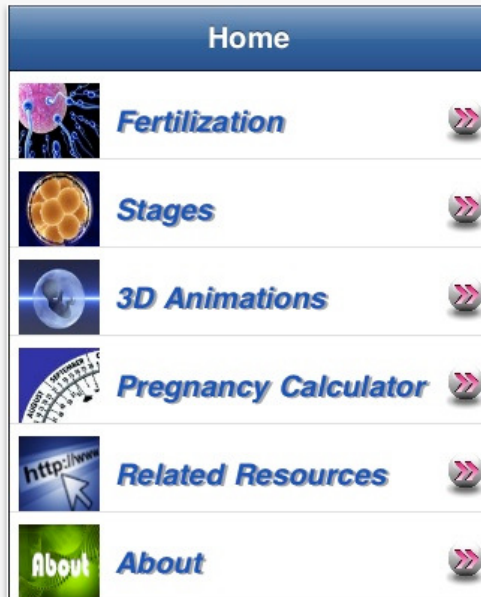
All Versions:

★ ★ ★ 9 Ratings

[More iPhone Apps by](#)

<http://itunes.apple.com/app/embryo/id422337604>

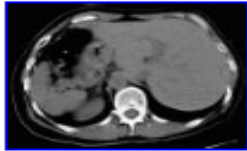
iPhone Screenshots



Health Education Assets Library

<http://www.healcentral.org/healapp/browse>

8.



Title: ABDOMEN

Description: ABDOMEN: Case# 45: SITUS INVERSUS. 51 year old female with known anatomical variant. The patient's a...

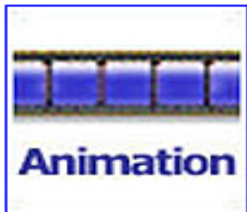
Learning Resource Type: Image

File Size: N/A

Collection: [PEIR - University of Alabama at Birmingham Department of Radiology](#)

[View full description or download](#)

9.



Title: ABO Blood Typing

Description: This animation depicts the blood typing of a hypothetical "patient A" using the ABO and Rh system.

Learning Resource Type: Animation

File Size: 81,353 bytes

Collection: [HEAL Reviewed Collection](#)



[View full description or download](#)

10.



Title: Actin & Cell Motility Illustrations

Description: The last of 14 PowerPoint files containing slides for a topical unit of medical cell biology instruc...

Learning Resource Type: Lecture

File Size: 1,129,984 bytes

Collection: [HEAL Reviewed Collection](#)



[View full description or download](#)

Slicer.org



3DSlicer
Version 3.6

A multi-platform, **free and open source** software package for **visualization** and **medical image computing**

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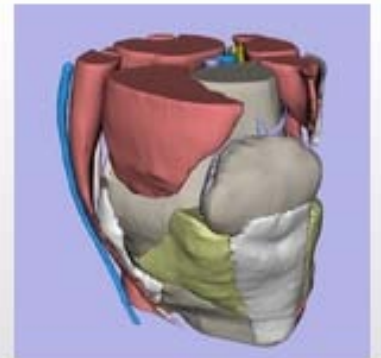
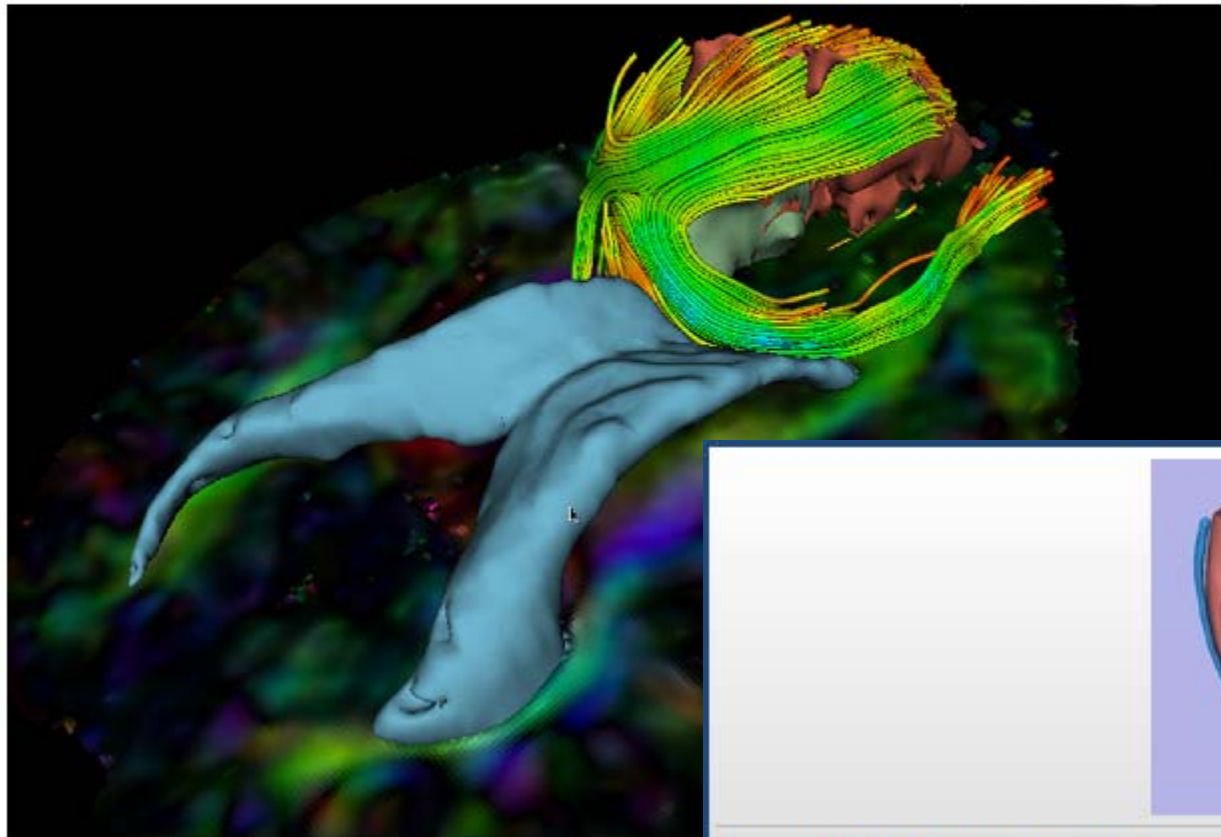
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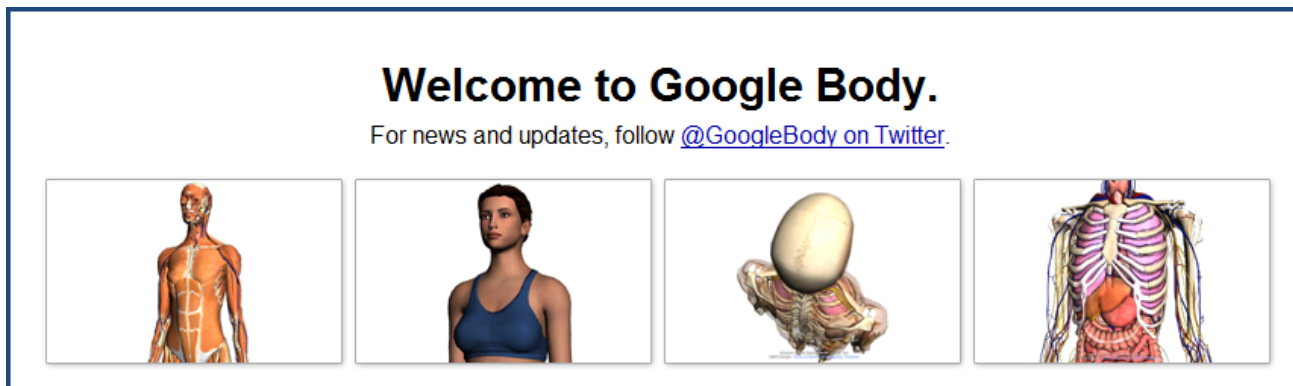
Snapshot of the 2011 SPL Knee Atlas

Take interactive segmentation to the next level. Novel effects in the interactive editor are highlighted in this new tutorial about White Matter Exploration for Neurosurgical Planning. [More...](#)

Google Body

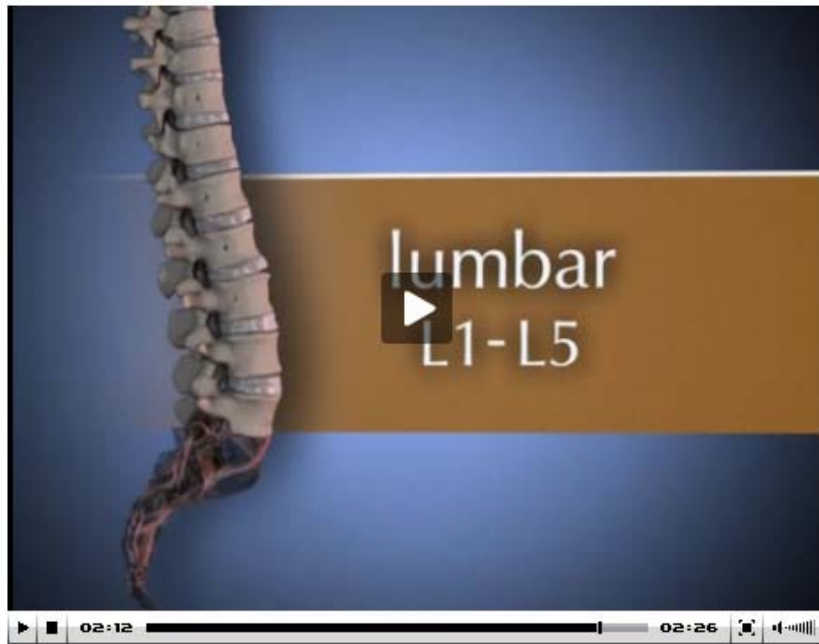
- Detailed 3D model of the human body.
- Peel back anatomical layers, zoom in, and navigate to parts that interest you.
- Click to identify anatomy, or search for muscles, organs, bones and more.
- See YouTube video:

<http://www.youtube.com/watch?v=KidJ-2H0nyY>



Healthline.com.- BodyMaps

Anatomy of the Spine Video



The back is an intricate structure of bones, muscles, and other tissues that forms the posterior pa...

[Read the full transcript »](#)

Publisher:



Anatomy of the Spine



Spinal Segments



Spine Flex Cushion

**Videos with
layers and
rotations
and with
audio**

What about you?
What do you use?

