Medical gallery of Blausen Medical 2014

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Abstract

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Cardiology

Cardiac anatomy

Heart valves.

Thoracic cavity.

Heart location

Heart anatomy
Heart valves during contraction of the ventricles.

Circulatory system through the heart.

Posterior view of the heart

Posterior view of coronary circulation.
Layers of the walls of the heart.
Cardiac diseases

Patent ductus arteriosus.

Atrial septal defect.

Mitral valve regurgitation and stenosis.

Aortic valve regurgitation
Atherosclerotic plaque of a coronary artery.

Angina pectoris.

Normal Artery

Narrowing of Ar

Lipid deposit of plaque

Coronary Artery Disease

Normal heart versus one with dilated cardiomyopathy

Normal Heart

Heart with Dilated Cardiomyopathy

Chambers relax and fill, then contract and pump.

Muscle fibers have stretched. Heart chambers enlarge.

Coronary artery disease.
Hypertrophic cardiomyopathy.

Fainting from bradycardia.

Hemopericardium

Coarctation of the aorta.
Cardiac interventions

Placement of a pacemaker.

Correction of an atrial septal defect using a percutaneous device.

Correction of an atrial septal defect using a patch.

A coronary stent placed by percutaneous coronary intervention.
The setting of cardioversion

Endarterectomy.

Cardiac Enhanced External Counterpulsation

Enhanced external counterpulsation.

Artificial heart valve of St. Francis model
Arterial switch procedure to correct dextro-Transposition of the great arteries.

Coronary thrombectomy by AngioJet technique.

Coronary artery bypass surgery.

Coronary artery bypass surgery types.

Single coronary artery bypass.
Double coronary artery bypass.

Triple coronary artery bypass.

Quadruple coronary artery bypass.

Implantable cardioverter-defibrillator.
Electrocardiography.
Other circulatory

Peripheral artery disease.

Normal artery vs. one with atherosclerotic plaque and blood clot.

Blood clot motion.
Deep vein thrombosis.

Arteriovenous Fistula

Arteriovenous graft for hemodialysis.

Veins of the Leg

Arteries of the Leg
Hypertension.

Carotid artery stenosis.

Carotid arteries.

Arterial wall.
Artery.

A red blood cell in an isotonic solution.

A red blood cell in a hypotonic solution.

A red blood cell in an isotonic solution.

A red blood cell in a hypertonic solution.
Bag of packed red blood cells.

Cell types of blood.

Non-tunneled central venous catheter.

Hemodialysis.
T cell.

B cell.

Blood pressure flow.

Blood transfusion.
Abdominal aortic aneurysm.

White blood cells.

Platelets.

Red blood cells.

White blood cells.
Neutrophil granulocyte.

Monocyte.

Eosinophil granulocyte.

Basophil granulocyte.
Lymphatic system.
Gastrointestinal

The Components of the Digestive System

Digestive system.

Anatomy of the pancreas.

Anatomy of the mouth.

Types of colostomy.
Location of the liver.

Tonsils and adenoid.

Tonsils and Throat

Throat.

Salivary glands.

Parotid gland

Submandibular gland

Sublingual gland
Gastrointestinal system.

Tooth decay.

Gallbladder, liver and pancreas

Vertical banded gastroplasty surgery.
Small intestine anatomy

Endodontic therapy of a root canal.

Roux-en-Y anastomosis.

Pancreas anatomy
Pancreatic tissue

Large intestine.

The Large Intestine

Adjustable Gastric Banding

Large intestine.

Adjustable gastric banding
Appendix in a child.

Hemorrhoids.
Neurology

An Introduction to Brain Structures

Brain structures.

Brain stem anatomy.

Layers covering the Brain

Layers of the scalp.
Regions of the cerebral cortex.

Primary motor, somatosensory, auditory and visual cortex.
Basal ganglia.

Acoustic neuroma.

Acoustic neuroma.

Limbic system.
Hypothalamus location.

Cerebral Hemispheres

Ventricular system.

Brain lobes.

Sectional Planes

Anatomical planes of the brain.
Dura mater of the spine.

Types of neuroglia cells.

Nervous tissue.

Parkinson's disease.
Cranial nerves.

Synapse types.
Innervation of the parasympathetic system.
Innervation of the sympathetic system.
Action potential.
Vertebral

Normal vertebral column.

Facet joints.

Cervical spine.

Lumbar spine.
Lumbar puncture.

Lumbar disc herniation

Discectomy.

Compression fracture.

Harrington rods
Ankylosing spondylitis.

Epidural steroid injection.

Facet joint injection.

Spinal disc herniation.
Scoliosis.
Obstetrics and gynecology

Artificial insemination.

Pregnancy.

Laparoscopy.

Abruptio Placenta (Placental Abruption)

Placental abruption.
Pelvic inflammatory disease.

Intrauterine device.

Mammography.

In vitro fertilization (IVF) with intracytoplasmic sperm injection (ICSI).
Breast reconstruction using a tissue expander.

Breast reconstruction using a prosthesis.

Breast reconstruction using autologous tissue (TRAM).

Post-operative state after breast reconstruction using autologous tissue (TRAM).
Fertilization.

Female reproductive system.

The Female Reproductive System

Female reproductive system.

Episiotomy.
**Endometriosis**

Endometriosis.

**Caesarean section.**

**Contraceptive patch.**

**Correct latch-on in breastfeeding.**
Dermatology

The Components of the Integumentary System

Anatomy of the skin.
Free nerve endings of the skin.

Hair follicle.

Sebaceous gland states.
Tactile Corpuscle
*(Meissner’s Corpuscle)*

Tactile corpuscle.

Ruffini Corpuscle

Ruffini corpuscle.

Tactile Receptors in the Skin

Tactile mechanoreceptors of the skin.

Root Hair Plexus

Hair plexus.
Merkel cell.

Free nerve endings.

Lamellar corpuscle.

Location of the melanocyte.
Blood supply of the dermis.

Rash of Lyme disease.

Epithelium classification.

Anaphylaxis.
Endocrine

Endocrine system in the female.

Endocrine system in the male

Blood glucose meter

Usage of a blood glucose meter

Forms of medical cannabis.
Insulin pen and syringe.

Priming an insulin pen.

Diabetic retinopathy.

Diabetic neuropathy.

The Structure of Glucose

Glucose.

Hyperglycemia.
Diabetic nephropathy.

Lauric acid (C₁₂H₂₄O₂)

**Fatty Acids**

Lauric acid, a fatty acid.

Goiter.

Parathyroid adenoma.
Respiratory system.

Anatomy of the tonsils and throat.

Upper respiratory tract.

Anatomy of the trachea.
Pseudostratified columnar epithelium in the respiratory tract.

Respiratory epithelium.

Sinuitis.

Pneumothorax.
Normal airway versus airway with bronchoconstriction.

Allergic rhinitis.
Diseases

Diseases not primarily belong in any of sections above.

Blue baby syndrome.

Angioedema.

Allergic contact dermatitis.

Allergic conjunctivitis.
An abscess in the dermis.

Kidney stones.

Inguinal hernia.

Kidney stones.

Part of a regular cell showing chromosome 18, 19, 20, and 21 pairs.

Part of a Down Syndrome child's cell showing chromosome 21 pair with 1 extra chromosome.

Karyotype in Down syndrome.
Health Problems with Cystic Fibrosis

- Frequent lung infections
- Sinus problems
- Nose polyps (growths)
- Enlarged heart
- Trouble breathing
- Gastric problems
- Abnormal gallbladder function
- Trouble digesting food
- Fatty lumps

Cystic fibrosis.

Bunion.

Osteoporosis.

Deer ticks

Deer Ticks

Male

Female
Other anatomy

Anatomical Landmarks
(Anterior View)

Landmarks of surface anatomy, anterior view.
Anatomical Landmarks
(Posterior View)

Landmarks of surface anatomy, posterior view.
Anatomical terms of location.

Abdominal quadrants

Distribution forces of the femur.

Directional References

9-region scheme of the abdomen.
Skeletal anatomy of the hand.

Skeletal anatomy of the foot.

Facial bones

Nail.
Kidney anatomy.

Anatomy of the knee, viewed from the side.

Anatomy of the knee, viewed from front.

Bones of the leg.
Skeletal muscle.

Tooth anatomy

Eye.

Anatomy of the Eye

Eye.
Anterior eye.

Middle ear.

Inner ear.
Shoulder joint. Sacroiliac joint.

Humerus.

Femur.

Axial skeleton.

The Axial Skeleton

Appendicular skeleton.

The Appendicular Skeleton
Cell biology

Anatomy of a Cell

Cell anatomy
Sodium-potassium pump and resting potential,

Adipose tissue.
Golgi Apparatus

Golgi apparatus.

Endoplasmic Reticulum

Endoplasmic reticulum.
Centrioles

Cell nucleus.
Mitochondria.
DNA molecule.
Pyrimidine-derived nucleobases.

DNA molecule.

Purine-derived nucleobases.

Passive transport by diffusion across a cell membrane.
Facilitated diffusion.

Ligand-gated ion channel.

The Sodium-Potassium Exchange Pump

Sodium-potassium pump.

RNA molecule.
Interventions

Treatments, diagnostic tools and other interventions not already primarily belong to any of the sections above.

- Bone densitometry scan.
- Ankle stirrup splint.
- Artificial urinary sphincter.
- Abdominal paracentesis.
Stapled hemorrhoidopexy.

Bone grafting using an autograft.

Cochlear implant.

Blepharoplasty.

Continuous ambulatory peritoneal dialysis.