



Physiology Animations Content List

Physiology Animations

Bones and Skeletal Muscles

- Paired muscle actions
- Joint: Ball and socket
- Joint: Condyloid
- Joint: Gliding
- Joint: Hinge
- Joint: Pivot
- Joint: Saddle
- Joint: Sutures
- Involuntary reflexes
- Skeletal muscle contractions
- Muscle contraction: Action potential
- Muscle contraction: Cross bridge formation
- Sound production

Cells and Tissues

- Types of cells
- Cellular respiration
- Cell transport
- Transcription
- Translation
- Mitosis
- Red blood cells
- Red blood cell production
- Function of plasma
- Platelets
- Heart tissue
- Smooth muscle tissue
- Neurons
- Male sex cells

- Female sex cells
- Fetal development
- Flat bone formation
- Long bone formation
- Bone repair
- Soft tissue repair
- Phagocytes

Respiration and Circulation

- Breathing
- External respiration
- Internal respiration
- Dalton's law
- Nasal cavity mucosa
- Respiratory structures
- Breathing rate
- Sneezing
- Heart function
- Cardiac cycle
- Heart tissue
- Heart chambers
- Heart valves
- Heart conduction
- Blood pressure
- Measuring blood pressure
- Electrocardiogram
- Cardiac output

Nutrition and Elimination

- Chewing and swallowing
- Function of the epiglottis
- Nutrient absorption
- Alimentary canal
- Urine creation 1
- Urine creation 2
- Urinary system functions
- Peripheral nerve functions
- Endocrine system hormones

System Overviews

- Function of the skin
- Function of the skeleton
- Muscle tissue types
- Nervous system functions
- Digestive system functions
- Urinary system functions
- Respiratory system functions
- Circulatory system functions
- Lymphatic system functions
- Endocrine gland functions
- Reproductive process
- Hearing
- Sight
- Olfaction

Reproduction and Fetal Development

- Reproductive process
- Female sex cells
- Male sex cells
- Fertilization to implantation
- 2 weeks after conception
- Taking shape
- Fetal development
- Lactation

Pathology Animations

Respiratory and Circulatory Pathologies

- Peripheral vascular disease
- Infarction
- Mitral valve prolapse
- Coronary artery disease
- Aortic stenosis
- Aortic aneurysm
- Atherosclerosis
- Ischemic stroke
- Arteriovenous malformation
- Pulmonary embolism
- Pneumothorax
- Acute sinusitis
- COPD
- H1N1
- Asthma

Muscle and Bone Pathologies

- ACL tear
- Cervical spondylosis
- Carpal tunnel syndrome
- Bursitis
- Rotator cuff tear
- Lateral epicondylitis
- Osteoporosis
- Sciatica
- Plantar fasciitis

Digestive and Urinary Pathologies

- GERD
- Gallstones
- Diverticulitis
- Ulcerative colitis
- Kidney stones
- Kidney cysts
- Urinary incontinence
- Hemorrhoids