

# Educational Video Links

## Human Anatomy and Physiology

### The Human Body

TED Conception to birth - Image-maker Alexander Tsiaras shares a powerful medical visualization, showing human development from conception to birth and beyond. (Some graphic images.)

<https://www.youtube.com/watch?v=fKyljukBE70>

Introduction to the Human Body | Merck Manual Consumer Version

<https://www.youtube.com/watch?v=YKLPQGCdMPw&list=PLITmpqQqskilbuyzSGVUhlMtDTjsvN1j>

Biology of the Ears, Nose, and Throat | Merck Manual Consumer Version

<https://www.youtube.com/watch?v=Pdglh7ctu-E&list=PLITmpqQqskilbuyzSGVUhlMtDTjsvN1j&index=17>

Introduction to Anatomy & Physiology: Crash Course A&P #1

<https://www.youtube.com/watch?v=uBG12BujkPQ>

### Nervous system

The Nervous System | Merck Manual Consumer Version

<https://www.youtube.com/watch?v=dKa9ezrEBvw&list=PLITmpqQqskilbuyzSGVUhlMtDTjsvN1j&index=4>

Biology of the Eyes | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=F3zwOFKc\\_gU&list=PLITmpqQqskilbuyzSGVUhlMtDTjsvN1j&index=9](https://www.youtube.com/watch?v=F3zwOFKc_gU&list=PLITmpqQqskilbuyzSGVUhlMtDTjsvN1j&index=9)

The Nervous System, Part 1: Crash Course A&P #8

[https://www.youtube.com/watch?v=qPix\\_X-9t7E&list=PLK6OXn46jYQIU1MYIxcShx4\\_6mfPZ6j](https://www.youtube.com/watch?v=qPix_X-9t7E&list=PLK6OXn46jYQIU1MYIxcShx4_6mfPZ6j)

Right brain dominance:

Don't eat the marshmallow! by Joachim de Posada

<https://www.youtube.com/watch?v=M0yhHKWUa0g>

Inside the mind of a master procrastinator

<https://www.youtube.com/watch?v=arj7oStGLkU>

The Science of Thinking by Veritassum

<https://www.youtube.com/watch?v=UBVV8pch1dM>

## **Endocrine system**

How does Endocrine System works: Made easy | Animation by Cool Facts

<https://www.youtube.com/watch?v=IAXv8Kxt4QU>

The Endocrine System and Hormones | Merck Manual Consumer Version

<https://www.youtube.com/watch?v=HJI11Fj4jYs>

Endocrine System, part 1 - Glands & Hormones: Crash Course A&P #23

<https://www.youtube.com/watch?v=eWHH9je2zG4&list=PL0IoNHe94fLCGffFphy7R7buA-INdT-QB>

## **Digestive System**

The Digestive System | Merck Manual Consumer Version

<https://www.youtube.com/watch?v=RPKNWtyeM6o&list=PLITmpqQqskiLbuyzSGVUhlMtDTjsvN1j&index=14>

Biology of the Liver and Gallbladder | Merck Manual Consumer

[https://www.youtube.com/watch?v=ocl7R2\\_jjV0&list=PLITmpqQqskiIT1bjW59vwFqLV8eAWW68I&index=5&t=0s](https://www.youtube.com/watch?v=ocl7R2_jjV0&list=PLITmpqQqskiIT1bjW59vwFqLV8eAWW68I&index=5&t=0s)

Digestive System, Part 1: Crash Course A&P #33

<https://www.youtube.com/watch?v=yloTRGfcMqM&list=PLUagZ9E8KNzH1EaxjMWgnmHk4netdRv2s>

## **Urinary System**

Biology of the Kidneys and Urinary Tract | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=F3zwOFKc\\_gU&list=PLITmpqQqskiLbuyzSGVUhlMtDTjsvN1j&index=9](https://www.youtube.com/watch?v=F3zwOFKc_gU&list=PLITmpqQqskiLbuyzSGVUhlMtDTjsvN1j&index=9)

## **Respiratory System**

The Respiratory System | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=CMv0\\_T4qJGY&list=PLITmpqQqskiLbuyzSGVUhlMtDTjsvN1j&index=11](https://www.youtube.com/watch?v=CMv0_T4qJGY&list=PLITmpqQqskiLbuyzSGVUhlMtDTjsvN1j&index=11)

Urinary System, part 1: Crash Course A&P #38

<https://www.youtube.com/watch?v=l128tW1H5a8>

## **Integumentary System**

The Integumentary System, Part 1 - Skin Deep: Crash Course A&P #6

<https://www.youtube.com/watch?v=Orumw-PyNjw>

Hair growth

<https://www.xvivo.net/animation/rogaine-minoxidil-androgenetic-alopecia/>

## **Immune system**

Antibodies from the immune system

<https://www.xvivo.net/hillemans-unsung-quest-to-save-the-worlds-children/> - click on How do antibodies work?

Inner life of the cell: Tracking the white blood cell

<https://www.xvivo.net/animation/the-inner-life-of-the-cell/>

The Immune System | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=JvX3OgOA-LU&index=16&list=PLITmpqQqskiLbuyzSGVUhl\\_MtDTjstvN1j](https://www.youtube.com/watch?v=JvX3OgOA-LU&index=16&list=PLITmpqQqskiLbuyzSGVUhl_MtDTjstvN1j)

## **Circulatory System**

The Heart, part 1 - Under Pressure: Crash Course A&P #25

<https://www.youtube.com/watch?v=X9ZZ6tcxArI>

The Cardiovascular System | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=RPKNWtyeM6o&list=PLITmpqQqskiLbuyzSGVUhl\\_MtDTjstvN1j&index=14](https://www.youtube.com/watch?v=RPKNWtyeM6o&list=PLITmpqQqskiLbuyzSGVUhl_MtDTjstvN1j&index=14)

Overview of Blood | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=nLWemFOVnl0&list=PLITmpqQqskiLbuyzSGVUhl\\_MtDTjstvN1j&index=2](https://www.youtube.com/watch?v=nLWemFOVnl0&list=PLITmpqQqskiLbuyzSGVUhl_MtDTjstvN1j&index=2)

## **Muscular and Skeletal Systems**

The Musculoskeletal System | Merck Manual Consumer Version

[https://www.youtube.com/watch?v=c-1owpgli6k&list=PLITmpqQqskiLbuyzSGVUhl\\_MtDTjstvN1j&index=13](https://www.youtube.com/watch?v=c-1owpgli6k&list=PLITmpqQqskiLbuyzSGVUhl_MtDTjstvN1j&index=13)

The Skeletal System: Crash Course A&P #19

<https://www.youtube.com/watch?v=rDGqkMHPDqE>

Big Guns: The Muscular System – Crash Course Biology #31

<https://www.youtube.com/watch?v=jqy0i1KXUO4>

## **Diseases and treatments**

<https://www.xvivo.net/animation/palovarotene-moa/>

<https://www.xvivo.net/animation/xermelo-moa/>

How the flu virus invades your body

<https://www.xvivo.net/animation/influenza-a/>

## **Cellular Machinery**

Mechanism of cilia

<https://www.xvivo.net/animation/mechanism-of-cilia/>

Extra-cellular communication

<https://www.xvivo.net/animation/unlocking-the-mysteries-of-extracellular-rna-communication/>

Inner life of the cell: Protein packing

<https://www.xvivo.net/animation/harvard-protein-packing/>

Powering the cell: Mitochondria

<https://www.xvivo.net/animation/powering-the-cell-mitochondria/>

Inside the human cell

<https://www.xvivo.net/cellscape-vr-biology/>

Micro-anatomy of the bowel

<https://www.xvivo.net/animation/chronic-idiopathic-constipation/>

This animation depicts the micro-anatomy of the bowel from the level of bowel surface microvilli, down to the traffic of ions and proteins across specialized tight junctions that bind villus cells together.

Mitosis by North Dakota State University

<https://www.youtube.com/watch?v=C6hn3sA0ip0&feature=related>

Mitosis: Splitting Up is Complicated - Crash Course Biology #12

<https://www.youtube.com/watch?v=L0k-enzoeOM>

## **Insects**

Butterfly Wing Zoom Under Electron Microscope

<https://www.youtube.com/watch?v=RUOVIm97UrA>

THIS IS A BUTTERFLY! (Scanning Electron Microscope) - Part 2 - Smarter Every Day 105

<https://www.youtube.com/watch?v=LE2v3sUzTH4>

Fly Eats Fly in Slow Motion - The Slow Mo Guys

<https://www.youtube.com/watch?v=dOyc98tV5kA&feature=relmfu>

## **Plants**

Photosynthesis

<https://www.twig-usa.com/film/photosynthesis-3328/>

NASA Seeing Photosynthesis from Space

<http://www.watchknowlearn.org/Video.aspx?VideoID=55681&CategoryID=2306>

NASA | Earth Science Week: The Ocean's Green Machines

<https://www.youtube.com/watch?v=H7sACT0Dx0Q>

Mosses-Bryophyte life cycle

<https://www.youtube.com/watch?v=xbSZbd02UEg>

Reproductive Cycle of Pines / The Amazing Lives of Plants, by Dr. Larry Jensen

<https://www.youtube.com/watch?v=WqGhmkYXcdM>