Medical gallery of Mikael Häggström 2014

Mikael Häggström

Abstract

This is a gallery of images contributed to Wikimedia projects by Mikael Häggström by 2014. Many of these images may be too small to conveniently view the content. Larger versions are available online.

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General medical images

Thyroid hormone synthesis

Glycogen structure

Cephalic presentations

Chromosomal translocations

Noradrenaline breakdown
Pudendal nerve

Notable mutations

VEGF receptors
Lymphocyte activation (simple)

Lymphocyte activation (more detailed)

Cellular insulin oscillations

Insulin oscillations coordination

Pancreatic insulin oscillations

One variation of internal iliac artery branching
(4 more versions not shown here)
Thin filament formation

Myofilament

Intermediate filament

Blood supply of the stomach

Posterior muscles

Anterior muscles

Tyrosine hydroxylase reaction
ECG in hyperkalemia

Anoscope, proctoscope and rectoscope

Scintillating scotoma

Fundus photograph of normal right eye

Fundus photograph of normal left eye

Cubitus varus and cubitus valgus
Transvaginal ultrasonography device

Vaginal wet mount of candidal vulvovaginitis

Curette

Superior orbital fissure

Skene's duct cyst

Entrance to pterygopalatine fossa
Ultrasonographies

Ovarian hyperstimulation syndrome

Movements at a gestational age of 9 weeks.

Ovarian hyperstimulation syndrome

Umbilical cord

Dermoid cyst
Heartbeat at 5 weeks and 5 days of gestational age

Biparietal diameter

Intrauterine device

Heartbeat at 6 weeks 1 day

Monoamniotic twins

Dichorionic twins
Ectopic pregnancy

Complete miscarriage

Hemorrhagic ovarian cyst

Hematometra

Incomplete miscarriage

Postmenopausal endometrial fluid
Abnormal mass and normal embryo

Retroverted uterus in pregnancy

Uterus after Caesarean section

Subserosal uterine fibroid

Anembryonic gestation

Molar pregnancy
Almost completed medical abortion

Delayed or missed miscarriage

Bicornuate uterus with pregnancy
Human body diagrams

The human body diagrams are a collection of images that are derived mainly from public domain pictures of organs, like a drag-and-drop doll. Their main purpose is to provide overviews, explaining medical conditions and other phenomena in a more convenient way.

General body diagrams

Simplistic overview of the chemical basis of love.

Potential health benefits of apple consumption.\[1\][2][3][4]
Diseases and conditions where stem cell treatment is promising or emerging. Bone marrow transplantation is, as of 2009, the only established use of stem cells.

Main health effects of sleep deprivation. 
Main pathways in growth regulation by the endocrine system, mediated by growth hormone and insulin-like growth factor 1 (IGF-1).

Glucose metabolism and various forms of it in the process.
- Glucose-containing compounds and isomeric forms are digested and taken up by the body in the intestines, including starch, glycogen, disaccharides and monosaccharides.
- Glucose is stored in mainly the liver and muscles as glycogen.
- It is distributed and utilized in tissues as free glucose.
Internal organs.

Drugs

Main short-term somatic (bodily) effects of cannabis.
Main side effects of oxycodone. Red color denotes more serious effects, requiring immediate contact with health provider.\textsuperscript{[7]}

Main side effects of tramadol. Red color denotes more serious effects, requiring immediate contact with health provider.\textsuperscript{[10]}
Main effects of chronic cocaine use.

Main physiological effects of Crack cocaine.

Brain:
- Increased risk of strokes
- Reduced attention
- Insatiable hunger
- Insomnia/Hypsomnia
- Lethargy

Systemic:
- Fever
- Eosinophilia

Nose:
- Rhinorrhea (discharge)

Throat:
- Soreness
- Hoarse voice

Teeth:
- Bruxism (abrasion)

Lungs:
- Hemoptysis
- Bronchospasm
- Dyspnea
- Infiltrates
- Eosinophilia
- Chest pain
- Asthma

Heart:
- Increased risk of infarction

Skin:
- Pruritus

Figure Article

Main physiological effects of Crack cocaine.
Main side effects of hydrocodone.\textsuperscript{[8]} The respiratory effects are most serious, requiring immediate contact with health provider.\textsuperscript{[8]}

Main long-term effects of heroin usage.\textsuperscript{[9]}

Main short-term effects of heroin usage.\textsuperscript{[9]}
Diseases

Main symptoms of AIDS

Central
- Encephalitis
- Meningitis

Eyes
- Retinitis

Lungs
- Pneumocystis pneumonia
- Tuberculosis (multiple organs)
- Tumors

Skin
- Tumors

Gastrointestinal
- Esophagitis
- Chronic diarrhea
- Tumors

Main symptoms of AIDS.

Main complications of persistent high blood pressure

Brain:
- Cerebrovascular accident (strokes)
- Hypertensive encephalopathy:
  - confusion
  - headache
  - convulsion

Blood:
- Elevated sugar levels

Retina of eye:
- Hypertensive retinopathy

Heart:
- Myocardial infarction (heart attack)
- Hypertensive cardiomyopathy; heart failure

Kidneys:
- Hypertensive nephropathy; chronic renal failure

Overview, showing main complications of persistent high blood pressure.
Symptoms of cancer metastasis depend location of the tumor.

Overview of the most significant symptoms of diabetes.
Main symptoms of acute HIV infection.

Main symptoms of multiple sclerosis.
Comparison of symptoms of different variants and stages of tuberculosis.
Main symptoms of infectious mononucleosis\cite{11} \cite{12} \cite{13}

Main symptoms of acute hemolytic reaction due to blood type mismatch\cite{14} \cite{15}
Overview of bacterial infections and main species involved. [16][17]

Overview of the main types of viral infection and the most notable species involved. [18][19]
Main symptoms that may appear in anemia.\textsuperscript{[20]}

General symptoms of acidosis,\textsuperscript{[21]}\textsuperscript{[22]} resulting from decrease in body pH.
Main symptoms of influenza.\textsuperscript{[33]}

Main symptoms of malaria.\textsuperscript{[24]}
Complications of **Insomnia**

- **Psychological**
  - Lower performance
  - Slowed reaction time
  - Risk of depression
  - Risk of anxiety disorder
- **Other**
  - Overweight or obesity

- **High blood pressure**
- **Risk of heart disease**
- **Risk of diabetes**
- **Poor immune system function**

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**Potential complications of insomnia.**[^29]

**Main symptoms of infectious Pneumonia**

- **Systemic**
  - High fever
  - Chills
  - Sore throat
- **Sinus**
  - Congestion
  - Runny nose
  - Sinus pressure
- **Lungs**
  - Cough with sputum or phlegm
  - Shortness of breath
  - Pleuritic chest pain
  - Hemoptysis
- **Muscular**
  - Fatigue
  - Aches
- **Central**
  - Headaches
  - Loss of appetite
  - Mood swings
- **Vascular**
  - Low blood pressure
- **Heart**
  - High heart rate
- **Gastric**
  - Nausea
  - Vomiting
- **Joints**
  - Pain

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**Main symptoms of infectious pneumonia.**
Signs and symptoms of hypothyroidism.\cite{26}

Symptoms of fibromyalgia.\cite{27}
Symptoms of systemic lupus erythematosus.\[28\]
Toxins

Most significant of the possible long-term effects of ethanol. Additionally, in pregnant women, it causes fetal alcohol syndrome.

Main symptoms of carbon dioxide toxicity, by increasing volume percent in air. [29][30].
Most common symptoms of any kind of snake bite poisoning.\[31\] \[32\] \[33\] Furthermore, there is vast variation in symptoms between bites from different types of snakes.\[32\]

Main symptoms of oxygen toxicity.\[37\]
Main symptoms of hyperammonemia (ammonia reaching toxic concentrations).\[38\]

Common adverse effects of tobacco smoking.\[39\]
Overview of main health effects on humans from some common types of pollution. [34] [35] [36]

Side effects of nicotine. [40]
Blood values

Full length of images are found online.
Other medical diagrams

Estradiol during the menstrual cycle

Progesterone during the menstrual cycle

FSH during the menstrual cycle
LH during the menstrual cycle

Incidence of ovarian cancers by histopathology

Normal values for peak expiratory flow

Gestational sac diameter by gestational age
Crown-rump length by gestational age
Biparietal diameter by gestational age

Fundal height by gestational age

Dosage of FSH in hyperstimulation
Dosage of FSH in hyperstimulation (using AFC instead of AMH)

Algorithm in pregnancy of unknown location

Most common cancers in females, by occurrence

Most common cancers in males, by occurrence
Most common cancers in females, by mortality

Most common cancers in males, by mortality

Maternal mortality rate worldwide

Circumferential stress

QT interval corrected for heart rate

Relative survival in ovarian cancer
Breast cancer incidence by age

Standard deviation of standard reference range limit

Amino acid catabolism

Pre- and post-test probabilities

Coefficient of variation versus deviation in reference ranges "erroneously" not established by log-normal distribution

Bell curve of intake versus health effect
Normal values for Forced Vital Capacity (FVC), Forced Expiratory Volume in 1 Second (FEV1) and Forced Expiratory Flow 25–75% (FEF25–75%).

Proportion of drugs metabolized by different CYPs

Causes of infertility

Relative prevalence of familial hyperlipoproteinemias
prenatal development.

Pregnancy timeline.

Child development stages.

Wound healing phases.
Gray's Anatomy labeling

The following images were taken from the now Public Domain version of Gray's anatomy from 1918, and were labeled for clarity.
Superficial and deep branches of the transverse cervical artery

Inguinal triangle

Arteries of the eye

Perineal body

Frontal suture

Deep temporal nerve

Posterior triangle of the neck

Axillary space

Greater sciatic foramen

Suboccipital triangle

Limbus

Sciatic notches
Great saphenous vein
Circumflex femoral arteries
Supraspinatus muscle
Posterior fossa
Iliac artery bifurcation and aorta
Lumbar triangle
Fibular artery
Suprahyoid muscles
External oblique muscle
Popliteal artery
Nuchal ligament
Sternocleidomastoid muscle
Rhomboid muscles

Prevertebral muscles

Inferior thyroid artery and ascending cervical artery

Splenius muscle

Orientation on the back

Limits of the axilla

Trapezius muscle

Prevertebral fascia

Costocervical trunk

Infraspinatus muscle

Jugular fossa

Vertebral artery
Costocervical trunk

Subclavian arteries, first part

Occipital artery

Dorsal scapular artery

External maxillary artery branches

Facial artery

Internal mammary branch

Superficial temporal artery

Lingual artery

Thyrocervical trunk

Maxillary artery

Ascending pharyngeal artery

Posterior auricular artery

Superior thyroid artery
References

Diabetes, rheumatoid arthritis, Parkinson's, Alzheimer's disease, osteoarthritis


Stroke and traumatic brain injury repair


Learning defects

3. ISRAEL21c > Israeli scientists reverse brain birth defects using stem cells December 25, 2008. (Researchers from the Hebrew University of Jerusalem-Hadassah Medical led by Prof. Joseph Yanai)

Spinal cord injury repair


Heart infarction


Anti-cancer


Baldness

7. Hair Cloning Nears Reality as Baldness Cure WebMD November 2004

Replace missing teeth


Repair hearing

9. Gene therapy is first deafness 'cure' - health - 14 February 2005 - New Scientist

Restore vision

10. BBC NEWS | England | Southern Counties | Stem cells used to restore vision

Amyotrophic lateral sclerosis


Crohn's disease


Wound healing


General

5. Reference list is found on image page in Commons: Commons:File:Effects