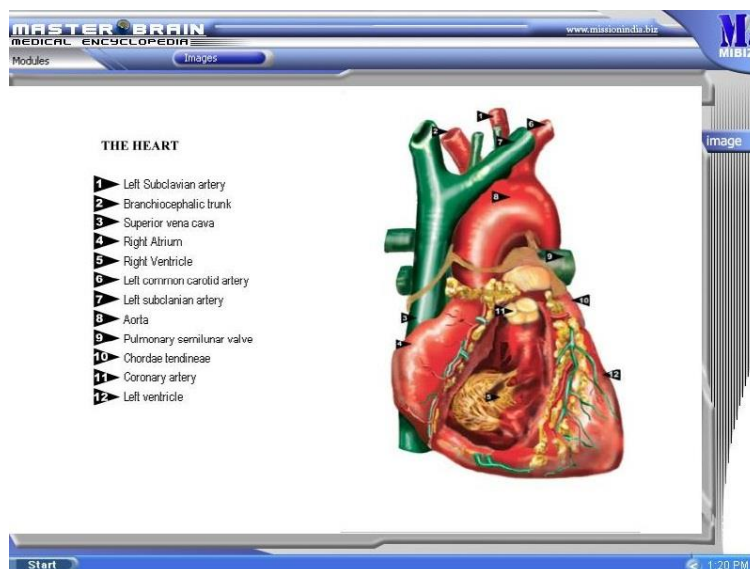
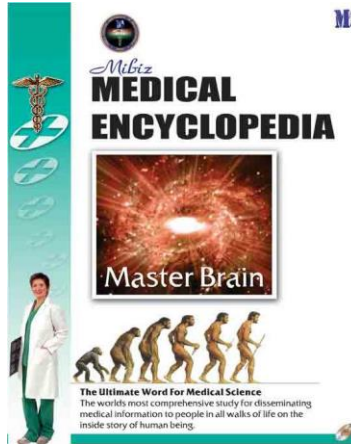


MASTER BRAIN MEDICAL ENCYCLOPEDIA



Modules

The Oath of Hippocrates
The Insight to Universe
The Emergence of Medical Science
The Fabric of Human Body
Control your Health
100 General Health Disorders
Human Anatomy & Physiology
The Human Diseases

Unique Features

500,000 Interactive Links
100,000 Lines of Articles
Over 67,500 Frames of 2D Animations
Over 40,000 Frames of 3D Animations
Over 50,000 Titles
Over 10,000 Frames of descriptive Animations
Over 500 Illustrations
Images with Interactive Title graphics with voice over
Detailed study on Pregnancy & Childbirth
Insight to Alzheimer's disease

MVUP Brain Theory System (elearning)

Virtual Professor
Subject Reviews
Animations Learning Goals
Four-color art and animation program
Interactivity
Explanations and full-action animations
Content is detailed
Overview of topics
Important terminology Variety of menus for navigation Print capabilities, Internet access.

THE INSIGHT TO UNIVERSE:

INTRODUCTION

UNIVERSE, Cosmology, Origin of the Universe Theism vs. Atheism

THE BIG BANG THEORY, Cosmology by John Gribbin, Origin of Life - Spontaneous Generation
Origin of Life - Louis Pasteur, Origin of Life - *Origin of Species* and Modern Day Science Class Origin
of Life - Evolutionary Theory, Evolution vs. Creation: The Great Debate, Human Evolution: What is it?
Human Evolution: The Legacy of the Fossil Evidence, Carbon Dating - What Is It And How Does It
Work? EVOLUTION, Darwin, Charles Robert (1809-1882), Definition of life, Evolution of life,
Darwinian medicine FORMING LIFE ON EARTH, Living Earth

THE EMERGENCE OF MEDICAL SCIENCE:

INTRODUCTION

What the body is made of: The central role of proteins: Enzymes and their functions Fats (lipids):
Carbohydrates: DNA and Amino acids

DNA, THE BLUE PRINT OF LIFE

The raw materials: 'A structure this pretty just had to exist' The structure of DNA The Genetic Code
Proteins and Amino acids: Putting it all together: DNA Replication: The role of RNA: Why are proteins
so important? Cells, the instance of Life What are cells? The cell organelles: Cell membrane Robert Hook
and the first description of the cells

IMMUNISATION AND THE ERADICATION OF DISEASES

The Concepts of Disease: Early theories of disease causation: The dawn of pathology Louis Pasteur and
the germ theory of disease: Robert Koch and modern bacteriology Disease in History: The Black Death:
the great plague of London:

Plague and Superstition: Introduction of diseases to the New World: Europe and the modern Age:
Medicine, history: Early medicine: The Alexandrian school: Renaissance medicine Tropical medicine:
Wartime developments: Preventive medicine: Transplantation
Genetics: Forensic medicine:

Complementary medicine

Vitalistic medicine Acupuncture: Crystal therapy Homoeopathy or homeopathy / The Medical Science of
Homeopathy History of Islamic Medicine: Unani Medicine: Magnet therapy: Naturopathy

Radionics: Reichian therapy: Bioenergetics: Rolfing: Medicine cultural medicine or transcultural
medicine: Chinese medicine: Color therapy: Death: Medical definition: Religious belief Cell death:
Biological purpose: Problems for the medical profession: Brainstem death Humors, theory: The Greek
analysis: The humors: elements, the four: The yin and yang philosophy The Impact of Medical Science:
1700, Florence Nightingale, Marie Curie (1867 - 1934)

Karl Wilhelm Rontgen (1845-1923) : AIDS – The modern Plague

ABOUT DISEASES The cause of disease: Congenital abnormalities: Genetic cause of disease: Physical
injury Chemical injury Infectious agents Neoplasm Transmission of Infection The external defenses
Inflammation The incubation period The spread of infection: sexually transmitted disease

OCCUPATIONAL MEDICINE

Symptoms and Signs: The medical examination :Symptoms & Signs

THE DIAGNOSTIC AIDS

The stethoscope: The sphygmomanometer: The electrocardiograph: The electroencephalograph
Laboratory tests: X-rays and scanners: Radionuclide scanning. : Ultrasound imaging Endoscopes

INFECTIOUS DISEASES: VIRUSES infections and infestations, How infections are transmitted,
Controlling infection sizes of organisms, The Structure of viruses, How viruses enter the body: How
viruses cause disease: Virus interference The prions Cancer-causing viruses
The main virus families

BACTERIA

What are bacteria? The characteristics and uses of bacteria, How are bacteria destroyed?
The classification of bacteria

PARASITES

Protozoan parasites, Worm parasites, The arthropods parasitism in the tropics

HEART & LUNG DISEASE

The significance of arteriosclerosis, Angina and coronary thrombosis, other heart diseases:
Chronic obstructive airway disease (COAD), Other lung disorders, smoking –the consequences

CANCER

Benign and malignant tumors. The nature of cancer, The cause of cancer:, How does cancer affect the body? Treatment, cancer terminology

ALLERGIES

The nature of allergy, The causes of allergy, Skin allergies, Respiratory allergy, (Allergic asthma)
How allergies are treated, Environment, Occupation and Health, Climatic factors in disease, Atmospheric pollution
Industrial hazards, Mechanical hazards, Chemical hazards, Biological hazards:, Radiational hazards
Acoustic hazards, Economic hazards, Psychological hazards

DRUG ABUSE

Drugs of abuse: Abuse and addiction: Dangers to health, Hereditary Diseases Single-gene disorders The most common gene disorders, Health Care in the Past

MEDICINE

Mesopotamian and Egyptian medicine, Greek medicine:, Arabian medicine:
Medicine in the Renaissance, Medicine in the 17th and 18th centuries, The 19th century

HIGHLIGHTS IN 19th CENTURY MEDICINE

Pills and Potions the History of Drug Therapy, The dawn of pharmacology, Early scientific trends 19th century advances, Drug therapy today, Modern developments Landmarks in Disease, Different tests and samples, Imaging using different technique
Infection and infestations

THE WORLD OF FASHIONS AND COSMETICS

Fashion, Extreme Cosmetics, Side effects, Injecting Collagen, Silicone and Fat
Cosmetic Peels, Chemical Peels

THE WORLD OF MEDICAL RESEARCH

DNA Genome sequencing, DNA of endangered creatures is to be kept for posterity Genetic advances, Transgenic Animals, Cloning, Animal Cloning, Cloning the mammoth WORM DNA, Tissue Engineering, Computer Technology and medicine, VIRTUAL REALITY
Modern Surgery, Virtual surgery, Intra-uterine surgery, Robot's in surgery Robot-aided brain surgery, Computer-aided brain surgery, Robotic hand Robot sensory chip, HAND TRANSPLANT, Transverse section through wrist

WORLD OF CLONING

Recombinant DNA Technology or DNA Cloning, Reproductive Cloning
Therapeutic Cloning, Cloning Animals for Research Purposes
Cloning the mammoth

DE HUMANI CORPORIS FABRICA / THE FABRIC OF THE HUMAN BODY:

INTRODUCTION

Head: Body Organs: Body Cells: Skeleton: Skull: Spine: Bones and Joints: Muscles: Hands: Feet: Skin and Hair: Brain: Nervous System: Eye: Ear: Nose, mouth and Throat: Teeth: Digestive System: Heart: Circulatory System: Respiratory System: Urinary System:
Reproductive System & Development of a baby: Subdivisions of Anatomy & Physiology

CONTROL YOUR HEALTH:

INTRODUCTION

About Health, Men's Health, Women's Health, Landmarks In Health And Safety 1900, Growth And Aging Psychological Health, Good Exercise Habits, Travel Immunizations, Good Sources Of Vitamins And Minerals (+ table) How Healthy Is Your Diet?, Choosing Healthy Fats, Vitamins, Achieving A Balanced Diet , How Fit Are You Routine Immunizations, Choice For Fitness, How Exercise Benefits Health, Common Screening Tests Pulse Rate, Your Pulse Recovery Time, Alcohol, Tobacco, And Drugs, Health Options Using Contraceptives Spermicides, Bleeding From Orifices, Blood Clotting, Conditions Causing Low Blood Oxygen (Hypoxia) Electrical Injuries, Fires, First-Aid Materials, Hernia, How Burns Are Caused, How The Heart Beats Inhalation Of Fumes, Making A Diagnosis, Preventing Cross-Infection, Rescue From Drowning Shock, The Body's Reaction To Blood Loss, Snake Bites, Symptoms And Signs Of Injury Or Illness Tetanus, The Body Temperature, Poisoning, Homosexuality

GENERAL HEALTH DISORDERS:

INTRODUCTION

Alcoholic liver disease, Allergy, Arthritis, Appendicitis, Backache, Cholera, Cold, Constipation, Dandruff Diarrhea, Do I drink too much alcohol?, Donating blood, Drug abuse and addiction, Encephalitis Eosinophilia, Epilepsy, Fainting, Fatigue, Headaches, Heart attack - emergency first aid Hepatitis (liver inflammation), Hepatitis B (infectious liver inflammation type b) Hepatitis C (infectious liver inflammation type c), How to lose weight the healthy way influenza (flu), Insomnia, Is it dangerous to take several different medicines at the same time? Kidney failure (renal failure with uraemia, or azotaemia), Kidney stones Men and addiction, Meningitis (cerebrospinal meningitis), Migraine, Neck pain Nosebleeds (epistaxis), Obesity, Peptic ulcers, Pneumonia, Sex and alcoholism Sinusitis, Slipped disc, Smoking - cutting down or quitting, Smoking - health risks, Snoring and obstructive sleep apnoea (osa), Sore throat, Sprains and bruises Stings and insect bites, Threadworm (pinworm), Toothache, Upset stomach Avoiding hypothermia in elderly people, Preventing malaria, Fever, High temperature Excessive sweating, Lumps and swelling, Unconsciousness, Vertigo, Recurring attacks of vertigo Difficulty speaking, Forgetfulness and/ or confusion, Feeling depressed, Having suicide thoughts Anxiety, Itching, Pain full or irritated eye, Contact lens wearers, Hearing loss, Earache Hoarseness and/or voice loss, Persistent change in the voice, Coughing, Coughing up blood Wheezing, Difficulty swallowing, Vomiting, Swollen abdomen, Anal and rectal problems Palpitations, Poor bladder control, Being unable to urinate, Frequent urination Painful urination, Checking the appearance of your urine, Impotence, Nonmedical advice Problem with the penis, Blood in the semen, Breast problems, Absent menstrual periods Possible pregnancy, Painful menstrual periods, Heavy menstrual periods, Abnormal vaginal bleeding Bleeding in pregnancy, Hormonal contraceptives, Lower abdominal pain in women, Abdominal pain in pregnancy Abdominal vaginal discharge, Genital irritation in women, Painful intercourse in women, Children Vomiting Diarrhea, Fever, Breathing problems, Coughing, Abdominal pain, Weight problems

HUMAN ANATOMY & PHYSIOLOGY:

Introduction, Skin, Hair & Nail, Musculoskeletal System, Cardiovascular System, Blood, and the lymphatic, and immune system, Respiratory System, Nervous System, Teeth and gums, Digestive System, Hormones & metabolism, Urinary System, Reproductive System, Sex, Pregnancy, and Childbirth

Skin, Hair & Nail

Skin, Organ, Physical barrier, Temperature control, Skin color, Wrinkles, Skin Anatomy, Epidermis, Dermis, Subcutaneous Tissue Healing & Repair- SKIN, Closed-wound healing, Open wounds, Surfaces and adhesions, How aging affects your skin What is a skin biopsy?, Skin Biopsy- Risks, Maintaining a healthy lifestyle , Bathing: Avoid drying out, The Biology of Hair Hair Origin, Hair Anatomy, Hair Growth Cycle, Hair Shape, Baldness, Gray hair: What causes it? , Hair transplant, Hair Transplant – History, parts of the nail, Nail Anatomy, How your skin, hair and nails affect your health
What Can Go Wrong With the Skin, Hair, and Nails?, Other Skin Problems

Musculoskeletal system

The body's skeleton, How the body moves, Flexibility of the spine, The joints, The backbone, Skeleton – skull Cranium, Facial bones, Skeleton - shape and structure, Bone structure, Bone shapes, Skeleton - bone growth Broken bones fractures, Realignment, Repair, The bone healing, Skeleton - arm and shoulder, Skeleton - hands and feet Fingers and toes, Metacarpals and metatarsals, Wrist bones, Carrying weight, Arches, Skeleton - ribcage Skeleton – spine, Column of ring-like bones, Vertebrae, Skeleton – pelvis, Skeleton – leg, Skeleton - joints Skeleton – teeth, The body's muscle, Skeletal muscle, Smooth muscle, Cardiac muscle, Pulling muscles Muscles - structure and contraction, Exercise, Endurance exercise, Bodybuilding, Endurance and resistance combined Energy is directed to your muscles during exercise, Endurance or speed, Slow twitch and fast twitch muscle fibers make energy in different ways, Muscles – tone, Firm muscles, Flaccid muscles, Muscles – facial, Expressive muscles, Bone disorders
Joint and ligament disorders, joint replacement, Bunion surgery, Muscle and tendon disorders , Musculoskeletal injuries

Cardiovascular System Cardiovascular system, Structure of the heart, Heart and blood vessel basics, What do blood vessels do? Types of blood vessels, Arteries, Capillaries, Veins, The largest blood vessels, The aorta The blood circulation, How the heart beats, The heart cycle, Heart valves, Heart sounds, Heart, front view Heart valves - anterior view, heart valves - superior view, overview & description, What is blood pressure? Blood vessels in your heart, Coronary arteries that are commonly blocked, Coronary veins, Heart valve surgery Heart valve replacement, Aortic valve replacement, Blood cholesterol, Coronary heart disease What can be done to prevent the disease?, How is the disease diagnosed?, Heart transplant Risks for any anesthesia are:, Risks for any surgery are: , Expectations after surgery
ECG(electrocardiogram), Exercise and the heart, Developmental anatomy of the heart

Blood, and the lymphatic, and immune system

Blood, and the lymphatic, and immune system, Human body's defense mechanism, Physical characteristics of blood Formation of blood cells, Organs – spleen, components of blood, white blood cells, plasma, red blood cells Platelets, formed elements, functions of blood, transportation, regulation, protection, rbc life cycle production of rbcs, leukocytes (white blood cells), hemostasis, vascular spasm, platelet plug formation clotting (coagulation), the lymphatic system, the body's defenses, physical and chemical barriers
blood groups and blood types, abo blood group, rh blood group, blood transfusion bone marrow aspiration and biopsy, bone marrow transplant, Blood disorders, Disorders of the lymphatic system, Immune disorders

THE RESPIRATORY SYSTEM

Breathing in and out (Respiratory processes), Network of airways, voice production, Sound machine Guardian of the airways, The voice box, Croaking and warbling, the respiratory structure structures of the respiratory system, sinuses, breathing and respiration, breathing works how breathing is regulated, exchanging gases in the body, voice production (speech) the cough reflex, modified respiratory movements, pulmonary volumes and capacities respiratory system, a flash, nose and throat disorders,

stream inhalation , endoscopy of the nose and throat mirror laryngoscopy, lung disorders, asthma, monitoring your asthma, bronchitis, pneumonia tuberculosis (tb), pulmonary embolism, pulmonary edema, cystic fibrosis, severe acute respiratory syndrome (sars) Chest tube, bronchoscopy

THE NERVOUS SYSTEM

The structure of the nervous system, Neurophysiology, nervous system, brain, spinal cord, and nerves protection and coverings, blood supply, cerebrum, right hemisphere, left hemisphere, cerebral cortex frontal lobe, motor cortex, sensory cortex, parietal lobe, occipital lobe, temporal lobe, cerebellum limbic system, olfactory bulbs, amygdala, hippocampus, fornix, hypothalamus, pituitary gland pineal gland, Thalamus, Corpus Callosum, brain stem , cranial nerves, the spinal cord and spinal nerves protection and coverings, meninges, reflexes, spinal cord, spinal nerves, nerve cells, neurons neuron structure, neurotransmitters work, sensations, sensory receptors, touch the special senses, olfactory sensations: smell, anatomy of olfactory receptors, olfactory receptors gustatory sensations: taste, protecting your body, taste bud structure , tastes and flavors proprioceptors, voluntary and involuntary responses, voluntary responses, autonomic responses the brain theory, processing higher functions, brain function, pain relief using tens, eeg carotid doppler scanning, cerebral angiography, lumbar puncture, subdural hemorrhage visual sensations, forming an image, light-sensitive retina, grey vision and movement color vision, secrets of your lens, the tears, structure of the eye, how the eye works accommodation and the near point of vision, action of the pupil, visual pathways rods and cones, cataract surgery, slit-lamp examination, applanation tonometry, ophthalmoscopy ears, hearing and balance, sound waves, balance and movement, connecting passageways components of the ear, the mechanism of hearing, your body's microphone, physiology of hearing the sense of balance, physiology of equilibrium, the role of hair cells, linear movement and static position rotational movement, otoscopy, stapedotomy, hearing aids, protecting your hearing, cochlear implants

TEETH AND GUMS

The structure of the teeth, The role of the gums, development of teeth, Types of tissue in teeth in humans Teeth and gums, Using the jaws, The dawn of dentistry, Common misconceptions, disorders of the teeth the importance of oral hygiene, Toothache, What causes toothache? , How can toothache be avoided? What should i do if i have toothache? , Caring for your teeth and gums, Brushing your teeth Cleaning between teeth, Tooth filling, Root canal treatment, Orthodontic treatment, Crowns and replacement teeth Replacement teeth, The development of toothpaste throughout history:, The development of toothbrush throughout history:

DIGESTIVE SYSTEM

Absorption, Regulating digestion, hunger and appetite, Stimulating hunger and appetite, Overview of digestive process The digestive tract, Mouth, Tongue, Salivary glands, Teeth, Mechanical digestion – swallowing, Chemical digestion Esophagus and stomach, Small and large intestines, Absorption and feces formation in the large intestine, Peristalsis Liver, gallbladder, and pancreas, liver functions, Regulation of gastric emptying, Digestive enzymes, Preventing constipation Barium swallow, Upper digestive tract endoscopy, Liver biopsy, Liver transplant, Ercp, Colonoscopy, colectomy, Colostomy banding hemorrhoids, Aging and the digestive system, Developmental anatomy of the digestive system

THE HORMONES AND METABOLISM

Endocrinologist, feedback mechanism, the endocrine system, Hormone-secreting glands and cells, Pituitary and pineal glands thyroid stimulating hormone (tsh), Pineal gland, Thyroid, parathyroid, the structure of thyroid and parathyroid glands. Adrenal glands, Pancreas, Structure of the pancreas, Metabolism, Anabolism and catabolism, other endocrine glands How the body uses food, endocrine diseases and disorders, Needle aspiration of the thyroid gland, Insulin Monitoring your blood glucose

THE URINARY SYSTEM

Blood filtration, hormone production, The sexual difference, Urinary system, Kidneys, Balancing your blood, Regulating blood pressure, When kidneys go wrong, Urine formation and excretion, Urine formation, Water reabsorption, What is urine made of Intravenous urography, problems in the urinary system, Why do kidneys fail?, Kidney stones, Kidney biopsy, Dialysis Peritoneal dialysis, hemodialysis, Kidney transplant, urodynamic studies, Bladder catheterization, Cystoscopy

The Reproductive System

Reproduction, Sexual reproductive systems, Asexual reproduction, Sexual reproduction

Male reproductive system, Male structure, Testes produce sperm and male sex hormones, The penis and erections, Sperm production Semen and ejaculation, Male hormones, puberty, physical development, Disorders of the testes, scrotum, and penis Epididymal cyst, Torsion of the testis, Examining your testes, hydrocele, vasectomy, Circumcision, Prostate gland biopsy Radical prostatectomy

Female reproductive system, eggs, ovaries and sex hormones, Female structure, Female fertility, Female hormones Puberty, Female reproductive system, Menstrual cycle, Changes during menopause, Role of the breasts Breast self-examination, aspiration of a breast lump, Breast reduction, Endometrial sampling, Laparoscopy tubal ligation, hysteroscopy, Hysterectomy, Pap test, Colposcopy, mammography, Surgery of the breast cancer

Sex, Pregnancy, and Childbirth

Sex and reproduction, Human sexuality, fertility, Sexual intercourse, Fertilization, Sperm journey Sexual problems, Sex therapy, Infertility, Pregnancy and childbirth, multiple pregnancies Pregnancy & childbirth week 1- week 40

THE HUMAN DISEASES

Introduction, Alzheimers, AIDS, Diabetes, Coronary heart disease (chd), Sars (severe acute respiratory syndrome), Cancer

Alzheimers

Introduction, Alzheimers, Alzheimer's Disease, Dementia, Progression, Biology, Age and family history, Genetics Other factors, Common symptoms, Studies

AIDS

HIV, Transmission, The development Aids, HIV infection, HIV symptoms & signs HIV infection prevention, Guidelines: , Diagnosis & tests, Diagnosis of aids Sexually transmitted disease, Venereal disease (VD), Retrovirus, Causes & risk factors Transmission, Aids prevention

Diabetes

Diabetes, Type 1 diabetes (insulin-dependent diabetes), Symptoms, Type 2 diabetes (non-insulin dependent diabetes), Symptoms, Diabetes is treated, Controlling diabetes and its possible complications, Blood glucose levels, Hypoglycemia (low blood glucose) in diabetic patients, Diabetic kidney disease, Diabetic neuropathy, Diabetes in children

Coronary Heart disease

Coronary heart disease (chd), Cholesterol, cholesterol and the heart at a glance Knowing the symptoms of heart disease could save your life, Chest pain Causes, Heart attack, Angina, Other cardiac

SARS (Severe acute respiratory syndrome)

SARS (severe acute respiratory syndrome), Sars infection, Sars mutation Sars affect, History, Sars coronavirus, HIV& SARS, Sars and polio Sars and animals, Bird flu, Clinical criteria

Cancer

Cancer, Causes of cancer, Carcinogens in the environment, Your own habits your environment, your family history, Cancerous tumors, Noncancerous tumors How cancer starts, Formation of a tumor, Tumor growth, Tobacco use and cancer Low-strength radiation, High-strength radiation, pap test, Mammograms Blood tests, Biopsy, Microscopic appearance of cancer cells, Tumor grading Tumor staging, Viruses, Examples of human cancer viruses, Bacteria and stomach cancer Heredity and cancer, Heredity can affect many types of cancer, Genetic testing Cancer risk and aging, Genes and cancer, DNA structure, DNA mutation Gene mutations and cancer, Oncogenes, Cancer prevention, Avoiding tobacco Avoid cancer viruses

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