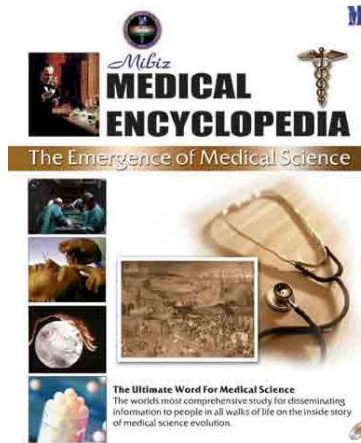


THE EMERGENCE OF MEDICAL SCIENCE



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 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



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