## **Content Outline**

## **Unit B History and Trends of Health Care**

HT02.01 Discuss medical treatments and beliefs from ancient civilizations through the Renaissance.

- A. 4000 BC 3000 BC Primitive Times
- 1. Illness and diseases were a punishment from the Gods
- 2. Tribal witch doctors treated illness with ceremonies
- 3. Herbs and plants used as medicines (morphine and digitalis)
- 4. Trepanation or trephining
- B. 3000 BC 300 BC Ancient Egyptians
- 1. Physicians were priests
- 2. Bloodletting or leeches used as medical treatment
- C. 1700 BC AD 220 Ancient Chinese
- 1. Used therapies such as acupuncture
- D. 1200 BC -200 BC Ancient Greeks
- 1. First to observe the human body and the effects of disease led to modern medical sciences.
- 2. Believed illness is a result of natural causes
- 3. Used therapies such as massage, art therapy, and herbal treatment
- E. 753 BC AD 410 Ancient Romans
- 1. Established first hospital (caring for solders in their homes)
- 2. First public health and sanitation systems by building sewers and aqueducts
- F. AD 400 AD 800 Dark Ages
- 1. Began after the fall of the Roman Empire
- 2. Emphasis on saving the soul and study of medicine was prohibited
- 3. Monks and priests treated patients with prayer
- G. AD 800 AD 1400 Middle Ages
- 1. Renewed interest in medical practices of Greek and Romans
- 2. Bubonic Plague killed 75% of population in Europe and Asia
- H. AD 1350 AD 1650 Renaissance
- 1. Dissection of body led to increased understanding of anatomy and physiology
- 2. Invention of printing press allowed medical knowledge to be shared

HT02.02 Describe medical advances made in the 16th - 20th centuries.

- A. 16th. 17th. and 18th Centuries
- 1. Cause of disease still not known many people died from infections
- 2. Invention of the microscope allowed physicians to see disease-causing organisms.
- 3. Apothecaries led to development of pharmacies
- 4. First vaccination developed smallpox

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- B. 19th Century
- 1. Formal training for nurses began
- 2. Infection control developed once microorganisms were

associated with disease

- 3. Viruses discovered in 1892
- 4. Women became active participants in health care
- C. 20th Century
- 1. Increased knowledge about the role of blood in the body
- a. ABO blood groups discovered
- b. Found out how white blood cells protect against disease
- 2. New medications were developed
- a. Insulin discovered and used to treat diabetes
- b. Antibiotics developed to fight infections
- c. Vaccines were developed
- 3. New machines developed
- a. Kidney Dialysis Machine
- b. Heart Lung Machine
- 4. Surgical and diagnostic techniques developed to cure once fatal conditions
- a. Organ Transplants
- b. Test tube babies
- c. Implanted first artificial heart
- 5. Health Care Plans developed to help pay the cost of care
- a. Medicare and Medicaid marked the entry of the

federal government into the health care arena

- b. HMOs provided an alternative to private insurance
- c. Hospice organized

HT02.03 Research men/women who made historical contributions to health care

- A. Hippocrates (c. 460 377 BC)
- 1. Greek physician known as the "Father of Medicine
- 2. Authored code of conduct for doctors known as the

"Hippocratic Oath" that is the basis of medical practice today

- 3. Believed illness was not caused by evil spirits and stressed importance of good diet, fresh air, cleanliness, and exercise
- B. Anton van Leeuwenhoek (1632-1723)
- 1. Invented the microscope lens that allowed visualization of organisms
- 2. Scraped his teeth and observed the bacteria that causes tooth decay
- C. Benjamin Franklin (1706-1790)
- 1. Invented bifocals
- 2. Found that colds could be passed from person to person
- D. Edward Jenner (1749-1823) Developed a vaccination for smallpox in 1796

E Rene Laennec (1781-1826)

- 1. Invented the stethoscope in 1819
- 2. First stethoscope was made of wood
- F. Elizabeth Blackwell (1821-1910) First female physician in the

United States in 1849 HT7210 Health Team Relations

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- G. Florence Nightingale (1820-1910)
- 1. Known as the "Founder of Modern Nursing"
- 2. Established efficient and sanitary nursing units during

the Crimean War in 1854

- 3. Invented the call bell system and use of dumbwaiters to deliver meals
- 4. Begin the professional education of nurses
- H. Louis Pasteur (1822-1895)
- 1. Known as the "Father of Microbiology"
- 2. His germ theory proved that microorganisms cause disease
- 3. Proved that heat can be used to destroy germs through a process called pasteurization
- 4. Created a vaccine for rabies in 1885
- 5. Founded the basic rules for sterilization
- I. Joseph Lister (1827-1912)
- 1. Used carbolic acid on wounds to kill germs
- 2. First doctor to use an antiseptic during surgery
- J. Clara Barton (1821-1912)
- 1. Volunteer nurse for wounded soldiers during the Civil War
- 2. After Civil War, established a bureau of records to search for missing men
- 3. Campaigned for the USA to sign the Treaty of Geneva, which provided relief for sick and wounded soldiers
- 4. Formed American Red Cross in 1881 and served as its first president
- K. Robert Koch (1843-1910)
- 1. Developed the culture plate method to identify pathogens
- 2. Isolated the bacterium that causes tuberculosis
- L. Wilhelm Roentgen (1845-1923)
- 1. Discovered roentgenograms (X-rays) in 1895
- 2. Let doctors see inside the body
- 3. X-rayed wife's hand
- M. Sigmund Freud (1836-1939)
- 1. Discovered the conscious and unconscious part of the mind
- 2. His studies were the basis for psychology and psychiatry
- N. Sir Alexander Fleming (1881-1955) Discovered penicillin in 1928 which is considered one of the most important discoveries of the twentieth century
- O. Jonas Salk (1914-1995) and Albert Sabin (1906 1993)
- 1. Discovered polio vaccine
- 2. Saved many people from this virus that paralyzed thousands of adults and children each year.
- P. Francis Crick and James Watson
- 1. Described the structure of DNA and how it carries genetic information in 1953
- 2. Built a three-dimensional model of the molecules of DNA
- 3. Shared the Noble Prize in 1962
- Q. Christian Barnard Performed first successful heart transplant in 1968

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- R. Ben Carson
- 1. Famous for his surgeries to separate Siamese twins
- 2. Currently Director of Pediatric Neurosurgery at John

## Hopkins

3. He has refined hemispherectomy, a surgery on the brain to stop seizures

HT02.04 Explore current trends in health care.

- A. Cost containment
- 1. Reasons for high health care costs
- a. Technological advances
- b. Aging population
- c. Health-related lawsuits
- 2. Methods of cost containment
- a. Diagnostic related groups (DRG)
- b. Combination of services
- c. Outpatient services
- d. Mass or bulk purchasing
- e. Early intervention and preventive services
- B. Home health care
- C. Geriatric care
- 1. Types of facilities
- 2. Omnibus Budget Reconciliation Act (OBRA)
- D. Telemedicine
- E. Wellness
- 1. Physical wellness
- 2. Emotional wellness
- 3. Social wellness
- 4. Mental and intellectual wellness
- 5. Spiritual Wellness
- 6. Holistic Health
- F. Alternative and Complementary Methods of Health Care
- 1. Ayurvedic practitioners
- 2. Chinese medicine practitioners
- 3. Chiropractors
- 4. Homeopaths
- 5. Hypnotists
- 6. Naturopaths

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