

Revised: Fall 2016

HLT 144

Medical Terminology II

COURSE OUTLINE

Prerequisite: Successful completion of HLT 143.

Course Description:

Provides an understanding of medical abbreviations and terms. Includes the study of prefixes, suffixes, word stems, and technical terms with emphasis on proper spelling, pronunciation, and usage. Emphasizes more complex skills and techniques in understanding medical terminology. Part II of II.

Semester Credits: 3 Lecture Hours

HLT 144

Course Outcomes

At the completion of this course, the student should be able to:

1. Understand the concepts and importance of medical terms and meanings in healthcare also understanding pertinent anatomy, physiology and pathology of terms.
2. Be familiar and be able to state medical prefixes, suffixes, combining vowels and roots.
3. Be able to define medical terms.
4. Be able to combine prefixes, suffixes, combining vowels and roots to make medical terms.

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SPECIFIC CLASS OUTCOMES

After completion of specific sections of each chapter the student will be able to identify, define, build term combinations, understand anatomy, pathology and physiology plus understand pronunciation of terms for the following:

- I. Female Reproductive System, Chapter 8
 - A. Organs of the female reproductive system
 1. Uterus
 2. Ovaries
 3. Fallopian tubes
 - B. Accessory organs of the reproductive system
 1. Breasts
 2. Glandular tissue
 3. Fibrous and fatty tissue
 - C. Menstruation and Pregnancy
 1. Menstrual cycle
 2. Pregnancy
 3. Hormonal interactions
 - D. Vocabulary
 1. Review of related terms
 - E. Terminology
 1. Combining forms
 2. Prefixes
 3. Suffixes
 4. Definition of terms
 - F. Pathology: Gynecological/Breast, Pregnancy & Neonatal
 1. Uterus
 2. Ovaries
 3. Fallopian tubes
 4. Breast
 5. Pregnancy
 6. Neonatal
 - G. Clinical Tests & Procedures
 1. Clinical tests
 2. X-ray studies
 3. Ultrasound & MRI
 4. Pregnancy
 - H. Abbreviations

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- II. Male Reproductive System, Chapter 9
 - A. Anatomical Structure
 - 1. Penis
 - 2. Scrotum
 - 3. Testes
 - 4. Prostate gland
 - B. Vocabulary
 - 1. Review of related terms
 - C. Terminology
 - 1. Combining forms
 - 2. Prefixes
 - 3. Suffixes
 - 4. Definition of terms
 - D. Pathologic conditions: Sexually Transmitted Disorders
 - 1. Testes
 - 2. Prostate gland
 - E. Sexually Transmitted Diseases (STDs)
 - F. Laboratory Tests
 - G. Clinical Procedures
 - H. Abbreviations

- III. Nervous System, Chapter 10
 - A. General Structure
 - 1. Brain
 - 2. Cranial nerves
 - 3. Thoracic nerves
 - 4. Lumbar nerves
 - 5. Sacral nerves
 - 6. Cauda equina
 - B. Neurons, Nerves, and Glial Cells
 - 1. Anatomical structure
 - C. Brain
 - 1. Anatomical structure
 - D. The Spinal Cord and Meninges
 - 1. Anatomical structure
 - E. Vocabulary
 - 1. Review of related terms
 - F. Terminology



1. Combining forms
 2. Prefixes
 3. Suffixes
 4. Definition of terms
- G. Pathology
1. Congenital disorders
 2. Degenerative, movement, and seizure disorders
 3. Infectious disorders
 4. Neoplastic disorders
 5. Traumatic disorders
 6. Vascular disorders
- H. Laboratory Tests and Procedures
- A. Lab tests
 - B. X-ray procedures
 - C. MRI
 - D. Radionuclide studies
 - E. Ultrasound
 - F. Other procedures
- I. Abbreviations
- IV. Cardiovascular System, Chpt. 11
- A. Blood Vessels and Circulation
1. Blood vessels structure
 2. Circulation of blood
- B. Anatomy of the Heart
1. Atria
 2. Ventricles
 3. Major vessels
- C. Physiology of the Heart
1. Heartbeat and heart sounds
 2. Conduction system
- D. Blood Pressure
1. Systolic
 2. Diastolic
 3. Measurement of
- E. Vocabulary
1. Review of related terms
- F. Terminology
1. Combining forms

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- 2. Prefixes
 - 3. Suffixes
 - 4. Definition of terms
 - G. Pathology: The Heart and Blood Vessels
 - 1. Heart
 - 2. Blood vessels
 - H. Laboratory Test and Clinical Procedures
 - 1. Laboratory tests
 - 2. X-ray and electron beam tests
 - 3. Ultrasound
 - 4. MRI
 - 5. Other diagnostic procedures
 - I. Clinical Procedures: Treatment
 - J. Abbreviations
- V. Blood System, Chpt. 13
- A. Composition and Formation of Blood
 - 1. Cells
 - 2. Erythrocytes
 - 3. Platelets (Thrombocytes)
 - B. Blood Types
 - C. Blood Clotting
 - D. Vocabulary
 - 1. Review of terms
 - E. Terminology
 - 1. Combining forms
 - 2. Prefixes
 - 3. Suffixes
 - F. Pathology
 - 1. Disease of RBC
 - 2. Disorders of Blood Clotting
 - 3. Disease of WBC
 - G. Laboratory Tests and Clinical Procedures
 - 1. Laboratory tests
 - H. Clinical Procedures
 - I. Abbreviations
- VI. Lymphatic and Immune System, Chpt. 14
- A. Lymphatic System



1. Anatomy
 2. Spleen & Thymus Gland
 - B. Immune System
 1. Natural and Acquired Immunity
 2. Immunotherapy
 - C. Vocabulary
 1. Review of terms
 - D. Terminology
 1. Combining forms
 2. Prefixes
 3. Suffixes
 - E. Pathology
 1. Immunodeficiency
 2. Hypersensitivity
 3. Malignancies
 - F. Laboratory Tests and Clinical Procedures
 1. Laboratory tests
 2. Clinical procedures
 - G. Abbreviations
- VII. Sense Organs: The Eye and The Ear
- A. The Eye
 1. Anatomy and Physiology
 - B. Vocabulary
 1. Review of terms
 - C. Terminology – The Eye
 1. Combining forms
 2. Suffixes
 3. Prefixes
 - D. Errors of Refraction
 - E. Pathology – The Eye
 - F. Pathology – The Eye
 - G. The Ear
 1. Anatomy and Physiology
 - H. Vocabulary
 1. Review of terms
 - I. Terminology – The Ear
 1. Combining forms
 2. Prefixes
 3. Suffixes

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- J. Pathology – The Ear
- K. Clinical Procedures – The Ear
- L. Abbreviations

- VIII. Endocrine System, Chpt. 18
 - A. Introduction
 - B. Thyroid Gland
 - 1. Location and Structure
 - 2. Function
 - C. Parathyroid Glands
 - 1. Location and Structure
 - 2. Function
 - D. Adrenal Glands
 - 1. Location and Structure
 - 2. Function
 - E. Pancreas
 - 1. Location and Structure
 - 2. Function
 - F. Pituitary Gland
 - 1. Location and Structure
 - 2. Function
 - G. Ovaries
 - 1. Location and Structure
 - 2. Function
 - H. Testes
 - 1. Location and Structure
 - 2. Function
 - I. Vocabulary
 - 1. Review of terms
 - J. Terminology
 - 1. Combining forms
 - 2. Prefixes
 - 3. Suffixes
 - K. Pathology
 - L. Laboratory Tests
 - M. Clinical Procedures
 - N. Abbreviations

- IX. Cancer Medicine, Chpt. 19

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- A. Characteristics of Tumors
 - B. Carcinogenesis
 - 1. What causes cancer
 - 2. Environmental agents
 - 3. Heredity
 - C. Classifications of Cancerous Tumors
 - 1. Carcinomas
 - 2. Sarcomas
 - 3. Mixed-tissue Tumors
 - D. Pathologic Descriptions
 - 1. Gross descriptions
 - 2. Microscopic descriptions
 - E. Grading and Staging
 - F. Cancer Treatment
 - 1. Surgery
 - 2. Radiation Therapy
 - 3. Chemotherapy, biological therapy, and Differentiating agents
 - G. Vocabulary
 - 1. Review of terms
 - H. Terminology
 - 1. Combining forms
 - 2. Prefixes
 - 3. Suffixes
 - I. Clinical Procedures
 - J. Abbreviations
-
- X. Pharmacology, Chpt. 21
 - A. Introduction
 - B. Drug Names, Standards, and References
 - C. Administration of Drugs
 - D. Drug Actions and Interactions
 - E. Drug Toxicity
 - F. Classes of Drugs
 - 1. Analgesics
 - 2. Anesthetics
 - 3. Antibiotics and Antivirals
 - 4. Anticoagulants and Antiplatelet Drugs
 - 5. Anticonvulsants
 - 6. Antidepressants and Anti-Alzheimer Drugs

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- 7. Antidiabetics
 - 8. Antihistamines
 - 9. Antiosteoporosis Drugs
 - 10. Cardiovascular Drugs
 - 11. Endocrine Drugs
 - 12. Gastrointestinal Drugs
 - 13. Respiratory Drugs
 - 14. Sedative-hypnotics
 - 15. Stimulants
 - 16. Tranquilizers
 - G. Vocabulary
 - 1. Review of terms
 - H. Terminology
 - 1. Combining forms
 - 2. Prefixes
 - 3. Suffixes
 - I. Abbreviations
- XI. Psychiatry, Chpt. 22
- A. Introduction
 - B. Psychiatric Clinical Symptoms
 - C. Psychiatric Disorders
 - 1. Anxiety Disorders
 - 2. Delirium and Dementia
 - 3. Dissociative Disorders
 - 4. Eating Disorders
 - 5. Mood Disorders
 - 6. Personality Disorders
 - 7. Pervasive Developmental Disorders
 - 8. Schizophrenia
 - 9. Sexual and Gender Identity Disorders
 - 10. Somatoform Disorders
 - 11. Substance-related Disorders
 - D. Therapeutic Modalities
 - 1. Psychotherapy
 - 2. Electroconvulsive Therapy
 - 3. Drug Therapy
 - E. Vocabulary
 - 1. Review of terms
 - F. Terminology

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2. Combining terms
 3. Prefixes
 4. Suffixes
- G. Abbreviations

Topical Descriptions

- XII. Female Reproductive System, Chapter 8
- I. Organs of the female reproductive system
 4. Uterus
 5. Ovaries
 6. Fallopian tubes
 - J. Accessory organs of the reproductive system
 4. Breasts
 5. Glandular tissue
 6. Fibrous and fatty tissue
 - K. Menstruation and Pregnancy
 4. Menstrual cycle
 5. Pregnancy
 6. Hormonal interactions
 - L. Vocabulary
 2. Review of related terms
 - M. Terminology
 5. Combining forms
 6. Prefixes
 7. Suffixes
 8. Definition of terms
 - N. Pathology: Gynecological/Breast, Pregnancy & Neonatal
 7. Uterus
 8. Ovaries
 9. Fallopian tubes
 10. Breast
 11. Pregnancy
 12. Neonatal
 - O. Clinical Tests & Procedures
 5. Clinical tests
 6. X-ray studies
 7. Ultrasound & MRI

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- 8. Pregnancy
- P. Abbreviations

XIII. Male Reproductive System, Chapter 9

- I. Anatomical Structure
 - 5. Penis
 - 6. Scrotum
 - 7. Testes
 - 8. Prostate gland
- J. Vocabulary
 - 2. Review of related terms
- K. Terminology
 - 5. Combining forms
 - 6. Prefixes
 - 7. Suffixes
 - 8. Definition of terms
- L. Pathologic conditions: Sexually Transmitted Disorders
 - 3. Testes
 - 4. Prostate gland
- M. Sexually Transmitted Diseases (STDs)
- N. Laboratory Tests
- O. Clinical Procedures
- P. Abbreviations

XIV. Nervous System, Chapter 10

- J. General Structure
 - 7. Brain
 - 8. Cranial nerves
 - 9. Thoracic nerves
 - 10. Lumbar nerves
 - 11. Sacral nerves
 - 12. Cauda equina
- K. Neurons, Nerves, and Glial Cells
 - 2. Anatomical structure
- L. Brain
 - 2. Anatomical structure
- M. The Spinal Cord and Meninges
 - 2. Anatomical structure
- N. Vocabulary



- 2. Review of related terms
 - O. Terminology
 - 5. Combining forms
 - 6. Prefixes
 - 7. Suffixes
 - 8. Definition of terms
 - P. Pathology
 - 7. Congenital disorders
 - 8. Degenerative, movement, and seizure disorders
 - 9. Infectious disorders
 - 10. Neoplastic disorders
 - 11. Traumatic disorders
 - 12. Vascular disorders
 - Q. Laboratory Tests and Procedures
 - G. Lab tests
 - H. X-ray procedures
 - I. MRI
 - J. Radionuclide studies
 - K. Ultrasound
 - L. Other procedures
 - R. Abbreviations
- XV. Cardiovascular System, Chpt. 11
- K. Blood Vessels and Circulation
 - 3. Blood vessels structure
 - 4. Circulation of blood
 - L. Anatomy of the Heart
 - 4. Atria
 - 5. Ventricles
 - 6. Major vessels
 - M. Physiology of the Heart
 - 3. Heartbeat and heart sounds
 - 4. Conduction system
 - N. Blood Pressure
 - 4. Systolic
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 - 6. Measurement of
 - O. Vocabulary
 - 2. Review of related terms

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 - 5. Combining forms
 - 6. Prefixes
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 - S. Clinical Procedures: Treatment
 - T. Abbreviations
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 - 4. Cells
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 - 6. Disease of WBC
 - P. Laboratory Tests and Clinical Procedures
 - 2. Laboratory tests
 - Q. Clinical Procedures
 - R. Abbreviations



- XVII. Lymphatic and Immune System, Chpt. 14
 - H. Lymphatic System
 - 3. Anatomy
 - 4. Spleen & Thymus Gland
 - I. Immune System
 - 3. Natural and Acquired Immunity
 - 4. Immunotherapy
 - J. Vocabulary
 - 2. Review of terms
 - K. Terminology
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- XVIII. Sense Organs: The Eye and The Ear
 - M. The Eye
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 - P. Errors of Refraction
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 - 4. Combining forms



- 5. Prefixes
- 6. Suffixes
- V. Pathology – The Ear
- W. Clinical Procedures – The Ear
- X. Abbreviations

- XIX. Endocrine System, Chpt. 18
 - O. Introduction
 - P. Thyroid Gland
 - 3. Location and Structure
 - 4. Function
 - Q. Parathyroid Glands
 - 3. Location and Structure
 - 4. Function
 - R. Adrenal Glands
 - 3. Location and Structure
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 - S. Pancreas
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 - T. Pituitary Gland
 - 3. Location and Structure
 - 4. Function
 - U. Ovaries
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 - 4. Function
 - V. Testes
 - 3. Location and Structure
 - 4. Function
 - W. Vocabulary
 - 2. Review of terms
 - X. Terminology
 - 4. Combining forms
 - 5. Prefixes
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 - Y. Pathology
 - Z. Laboratory Tests
 - AA. Clinical Procedures
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- XX. Cancer Medicine, Chpt. 19
 - K. Characteristics of Tumors
 - L. Carcinogenesis
 - 4. What causes cancer
 - 5. Environmental agents
 - 6. Heredity
 - M. Classifications of Cancerous Tumors
 - 4. Carcinomas
 - 5. Sarcomas
 - 6. Mixed-tissue Tumors
 - N. Pathologic Descriptions
 - 3. Gross descriptions
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- XXI. Pharmacology, Chpt. 21
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 - K. Drug Names, Standards, and References
 - L. Administration of Drugs
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 - 20. Anticoagulants and Antiplatelet Drugs

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- 21. Anticonvulsants
- 22. Antidepressants and Anti-Alzheimer Drugs
- 23. Antidiabetics
- 24. Antihistamines
- 25. Antiosteoporosis Drugs
- 26. Cardiovascular Drugs
- 27. Endocrine Drugs
- 28. Gastrointestinal Drugs
- 29. Respiratory Drugs
- 30. Sedative-hypnotics
- 31. Stimulants
- 32. Tranquilizers

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- XXII. Psychiatry, Chpt. 22
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 - 12. Anxiety Disorders
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 - 14. Dissociative Disorders
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 - 17. Personality Disorders
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 - 19. Schizophrenia
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 - 21. Somatoform Disorders
 - 22. Substance-related Disorders
 - K. Therapeutic Modalities
 - 4. Psychotherapy
 - 5. Electroconvulsive Therapy
 - 6. Drug Therapy
 - L. Vocabulary

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- 5. Review of terms
- M. Terminology
 - 6. Combining terms
 - 7. Prefixes
 - 8. Suffixes
- N. Abbreviations

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Medical Terminology II

Required Materials

Textbook:

“The Language of Medicine”, Davi-Ellen Chabner, 10th Edition
ISBN: 978-1-4557-2846-6

The following supplementary materials are available:

1. Several resource textbooks are located in the Radiography Lab
2. Textbook contains online support material for students.

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