

## PREVENTIVE MEDICINE CORE

### BOOKS

- Heymann, D.L. (Ed.): Control of Communicable Diseases Manual, 19th Ed., American Public Health Assn, 2008.
- Jekel, James F., et al: Epidemiology, Biostatistics and Preventive Medicine, 3rd Ed., W.B. Saunders Company, Philadelphia, 2007.
- Last, J.M., Wallace, R.: Maxcy-Rosenau-Last, Public Health and Preventive Medicine, 15th Ed., McGraw Hill, 2007.

### WEBSITES

- U.S. Preventive Services Task Force: Guide to Clinical Preventive Services. <http://www.ahrq.gov>
- Medical Guidelines for Airline Travel, 2nd Ed. <http://www.asma.org/pdf/publications/medguid.pdf>
- Morbidity Mortality Weekly Reports; <http://www.cdc.gov/mmwr/>

### PERIODICALS (PREVIOUS FIVE YEARS) INCLUDING:

- American Journal of Preventive Medicine.

### STUDY QUESTIONS

- Hebel JR and McCarter RJ: A Study Guide to Epidemiology and Biostatistics, 7th Ed., Jones and Bartlett, Sudbury, MA, 2012.
- Katz, David L.: Epidemiology Biostatistics and Preventive Medicine Review, 3<sup>rd</sup> Ed., W.B. Saunders Company, Philadelphia, 2007.
- Ratelle, S.: Preventive Medicine and Public Health, Pre-Test Self-Assessment and Review, 9th Ed., McGraw-Hill, New York, 2000.

## PERCENTAGE DISTRIBUTION OF TEST ITEMS

- I. Health Services Management (Systems-Based Practice) 15%
- II. Epidemiology and Biostatistics 35%
- III. Clinical Preventive Medicine 20%
- IV. Behavior and Mental Health 12%
- V. Environmental 18%

## CORE OUTLINE

- I. HEALTH SERVICES MANAGEMENT (SYSTEMS-BASED PRACTICE)
  - A. Organization
    - 1. Government
    - 2. Service Delivery
  - B. Health Care Delivery
    - 1. Models
    - 2. Medical Management
    - 3. Business Management
    - 4. Utilization Management
  - C. Finance and Economics
    - 1. Health Care Economics
    - 2. Services Payment and Financing
    - 3. Financial Management
  - D. Organizational Structure and Development
    - 1. Bureaucracy Characteristics
    - 2. Strategic Planning and Policy Development
    - 3. Program Assessment and Evaluation
    - 4. Quality and Patient Safety
    - 5. Organizational Development/Effectiveness
  - E. Legal and Ethical Issues
    - 1. Ethics
    - 2. Legislation and Regulatory Compliance
- II. EPIDEMIOLOGY AND BIOSTATISTICS
  - A. Design and Methods
    - 1. Data Sources and Coding
    - 2. Study Design
    - 3. Biases and Control Measures
    - 4. Confounding
    - 5. Decision Analysis
  - B. Interpretation
    - 1. Measures of Central Tendency
    - 2. Tests of Significance
    - 3. Probability
    - 4. Hypothesis Testing
    - 5. Type I error
    - 6. Type II error
    - 7. Confidence intervals
    - 8. Power
    - 9. Sample Size
    - 10. Multivariate analysis
    - 11. Correlation
    - 12. Multiple regression
    - 13. Survival Analysis
    - 14. Meta-Analysis
    - 15. Number Needed to Treat
    - 16. Causation and Association
    - 17. Measurement of Effect
  - C. Vital Statistics and Demography
    - 1. Rates and Measures
    - 2. Trends
  - D. Prevention and Control
    - 1. Disease Surveillance-Active and Passive
    - 2. Screening Tests
    - 3. Outbreak Investigation and Intervention

### III. CLINICAL PREVENTIVE MEDICINE

- A. Cardiovascular Diseases
  - 1. Coronary Artery Disease
  - 2. Cerebrovascular Disease
  - 3. Hypertension
  - 4. Hyperlipidemia
- B. Respiratory Diseases
  - 1. Asthma
  - 2. COPD
  - 3. Other
- C. Neoplastic Diseases
  - 1. Bladder Cancer
  - 2. Breast Cancer
  - 3. Cervical Cancer
  - 4. Gastrointestinal Cancers
  - 5. Hematological Malignancies
  - 6. Lung Cancer
  - 7. Oral Cancer
  - 8. Ovarian Cancer
  - 9. Prostate Cancer
  - 10. Skin Cancer
  - 11. Testicular Cancer
  - 12. Thyroid Cancer
- D. Infectious Diseases
  - 1. Bacterial
  - 2. Viral
  - 3. Parasitic
  - 4. Fungal
  - 5. Spirochete
  - 6. Atypical
  - 7. Food-borne Illnesses
  - 8. Sexually Transmitted
  - 9. Immunizations
  - 10. Emerging Infections
- E. Metabolic Disorders and Nutrition
  - 1. Diabetes Mellitus
  - 2. Thyroid Diseases
  - 3. Obesity
  - 4. Clinical Nutrition
- F. Musculoskeletal Disorders
  - 1. Osteoporosis
  - 2. Back Pain & Sciatica
  - 3. Arthritis
- G. Neurological Disorders
- H. Oral Health, Vision and Hearing Disorders
  - 1. Oral Health
  - 2. Visual Disorders
  - 3. Hearing Impairment
- I. Maternal & Child Health
- J. Genetics
- K. Complementary and Alternative Care

### C. Health Promotion and Health Screening

- 1. Health Education Theories and Models
- 2. Individual
- 3. Population

### V. ENVIRONMENTAL

- A. Agents
  - 1. Chemical
  - 2. Physical
  - 3. Biological
- B. Community health
  - 1. Air quality
  - 2. Water quality
  - 3. Climate
  - 4. Food safety
  - 5. Sanitation
  - 6. Hazardous materials management
  - 7. Radiation
  - 8. Heat/cold
  - 9. Noise
  - 10. Injury
- C. Occupational medicine
- D. Aerospace medicine
- E. Travel
- F. Risk Assessment
- G. Risk Management
- H. Risk Communication
- I. Disaster planning and management
  - 1. Natural
  - 2. Manmade/Bioterrorism

### IV. BEHAVIOR AND MENTAL HEALTH

- A. Mental/Behavioral Disorders
  - 1. Epidemiology
  - 2. Prevention/Intervention
  - 3. Risk Factors
- B. Substance Abuse
  - 1. Epidemiology
  - 2. Risk Factors
  - 3. Screening
  - 4. Prevention/Intervention