# Public Health and General Preventive Medicine 2017 Examination Blueprint

<table>
<thead>
<tr>
<th>Core Content Areas</th>
<th>I. Health Services Administration (Systems-Based Practice)</th>
<th>II. Environmental Health</th>
<th>III. Biostatistics</th>
<th>IV. Epidemiology</th>
<th>V. Clinical Preventive Medicine</th>
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<td>B. Financing and delivery</td>
<td>C. Public health practice</td>
<td>D. Systems-based practice</td>
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1. Air quality
2. Water quality
3. Food quality
4. Physical stressors
5. Solid waste management
6. Hazardous materials management
7. Land use and planning
8. Environmental site assessment

C. Risk assessment
   1. Hazard identification
   2. Exposure assessment
   3. Dose response assessment
   4. Risk characterization

III. Biostatistics

A. Describing data
   1. Frequencies and distributions
   2. Measures of central tendency
   3. Measures of variation
   4. Probability
   5. Standard scores
   6. P-values

B. Statistics
   1. Statistical inference
   2. t test
   3. Analysis of variance (ANOVA)
   4. Simple linear regression
   5. Multiple regression
   6. Analysis of covariance
   7. Time series analysis
   8. Chi-square
   9. Measurement scales
   10. Binomial test
   11. Fisher exact test
   12. McNemar test
   13. Mann-Whitney test
   14. Median test
   15. Sign test

II. Environmental Health

A. Global issues
   1. Climate change
   2. Threat of nuclear warfare
   3. Biological warfare and bioterrorism
   4. Chemical warfare and terrorism

B. Public health protection
16. Wilcoxon test
17. Spearman Rank Correlation Coefficient
18. Life table (or survival) analysis
19. Logistic regression
20. Multivariable analysis of variance
21. Multiple correlation coefficient
22. Partial correlation
C. Hypothesis testing
D. Meta-analysis

IV. Epidemiology
A. Data sources
   1. Vital records
   2. Reportable diseases
   3. Surveys
   4. Registries
   5. Morbidity
   6. Census
   7. National health surveys
B. Study design
   1. Experimental studies
   2. Quasi-experimental studies
   3. Observational studies
C. Measurements of morbidity and mortality
   1. Rates, ratios and proportions
   2. Life expectancy
   3. Population pyramids
   4. Measures of disability
D. Measures of effect
   1. Attributable risk (risk difference)
   2. Relative risk
   3. Odds ratio
E. Epidemiologic associations and data interpretation
   1. Causality
   2. Bias (systematic error)
   3. Generalizability
F. Epidemiology of infectious diseases
   1. Agents
   2. Characteristics of infectious agents
   3. Host characteristics
   4. Environment characteristics
   5. Modes of transmission
   6. Measures of disease outbreaks
   7. Outbreak investigation and intervention
   8. Evaluation of intervention
G. Legal and ethical aspects of epidemiologic studies
   1. Human subjects review
   2. Screening
   3. Conflicts of interest
   4. Community involvement
   5. Archived samples

V. Clinical Preventive Medicine
A. Primary prevention
   6. Personal health behaviors
   7. Infectious diseases
   8. Chemoprophylaxis
B. Secondary prevention
   1. Principles of screening
   2. Cardiovascular disease
   3. Cancer
   4. Infectious diseases
   5. Metabolic disorders
   6. Hematologic disorders
   7. Respiratory disorders
   8. Ophthalmologic and otologic disorders
   9. Mental disorders
   10. Musculoskeletal disorders
   11. Prenatal screening
   12. Pediatric health supervision/anticipatory guidance
   13. Genetic screening
C. Tertiary prevention and disease management
   1. Antibiotic resistant organisms
   2. Organ transplantation