

M.D. COMMUNITY MEDICINE

SYLLABUS

1. Theory

1. Historical background of public health.
2. Concepts of health and disease
3. Principles of Epidemiology and epidemiological methods; history and development, physiology and relevance in health, techniques, research strategies, identification of research question, planning and conduct of epidemiologic studies of different kinds, uses, in depth theoretical knowledge of factors which influence the selection and interpretation of data such as bias, randomization confounding, blinding etc. Epidemiologic surveillance and epidemic preparedness, investigation and management of an outbreak.
4. Disease screening, immunology, tools and techniques of diagnosis
5. Epidemiology of communicable and new techniques of diagnosis
6. Emerging and re emerging disease
7. Demography
8. Services for mother, children and family welfare: Measuring of maternal and child health, health problems of mothers and children. Challenges in improving maternal health in India, evolution of family, limitation, RCH, NRHM.
9. Geriatrics
10. Social sciences: Relevance of social sciences in Medicine, Psychosocial and cultural determinants of Health, Models of health behavior, Communication in health. Social security, social science research methods qualitative and quantitative, questionnaire design, FGDs, in depth interview; community participation, social marketing.
11. Principles and usage of genetics in public health.
12. Environment in relation to health.
13. Nutrition
14. Mental health.
15. Health planning and management including qualitative and quantitative techniques.
16. Hospital administration
17. Health education & Communication
18. Bio statistics; Elements of biostatistics, analysis and presentation of statistical data, central tendency, dispersion, probability theory, distributions, tests of significance correlation and regression, multivariate analysis, survival analysis, nonparametric tests ,analysis of qualitative data:- principles, method of usage and relevance in health, sources of vital statistics.
19. National programmes
20. Health care delivery system
21. International health and regulation
22. Occupation health
23. Entomology and Parasitology
24. Basics of health economics
25. Voluntary health agencies and NGOs
26. Public health chemistry
27. Public health laboratory services.
28. Urban health
29. Disaster management
30. Modern techniques of teaching & training

31. Bio terrorism
32. Waste management
33. Medical ethics
34. First Aid
35. Gender issue
36. Community rehabilitation
37. Public health technologies, Health information & management system, Use of geographic information system in health, Telemedicine

2. Practicals

1. Class room teaching consisting of lectures, seminars, symposia, workshops, journal clubs and assignments.
2. Field and laboratory posting in
 - a. PHC– 2 months
 - b. District health administration- 1 week
 - c. Urban health administration – 1 week
 - d. Obstetrics and gynecology including FP– 2 weeks
 - e. Paediatrics – 2 weeks
 - f. DHS-1 week
 - g. General Medicine – 1 month
 - h. Tuberculosis Centres -1 week
 - i. Institute for GIS-1 week
 - j. Dermatology – 1 week
 - k. Microbiology practical – 1 week
 - l. Govt analyst lab /similar – 1 week
3. Other field Activities: - as many of the following types of activities as possible.
 - a. Epidemic investigation
 - b. Natural disasters – Management
 - c. Health programme evaluation
 - d. Surveys
 - e. Training and orientation to national programme
4. Regular participation in teaching undergraduate as well as public
5. Formal training in computer applications.
6. Preparation of thesis
7. Practical sessions for entomology, epidemiology, Parasitology and biostatistics scheduling of the field postings and other activities will be carried out in the following sequence.
Maintain logbooks by PG students.
Organise presentations during posting, Supervision and concurrent evaluation by staff members.

First Year

6 month – Theory classes
 Selection of thesis topic
 Thesis registration

6 Months –Involvement in regular activities of the department including undergraduate teaching.

Second Year

6 Months: Postings- different clinical posting with district and state health administration.

6 Months: Thesis preparation.

During this period, they will attend journal clubs, seminars and undertake undergraduate teaching

Study tour-1 Month. All India study tour to national institution of health, reference laboratories, Port health and industrial health administration *depending upon the discretion of HOD of Community Medicine.*

Third Year

6 Month: Thesis submission

During this period, they will attend journal clubs, seminars.

Involvement in regular activities of the department including undergraduate teaching.

Thesis should be submitted 6 months ahead of Final Examination.

Text Books Recommended

A. Public Health

1. Principles of Public Health Administration- John I Hanlon
2. Theory and Practice of Public Health – Hobson
3. Oxford text book of public health
4. Preventive medicine for the doctor in his community – Leavel and Clark
5. Preventive medicine and Public Health Maxcy and Kenneth F Rosenau
6. A treatise on Hygiene and Public health
7. Mansons Tropical disease- Wilcocks & Mansion Bahr
8. Public health & its promises in future- Smile
9. Public Health in Medicine for Medical Professional - Burton & Smith

B. Epidemiology

1. Epidemiology – Clinical practice – Barker
2. Epidemiology – Principles and methods- Brain Mac Mahan

C. Nutrition

1. Human Nutrition and Dietetics – Garro James
2. Human Nutrition and diet – Swaminathan. M
3. Nutrition in Health and Disease – Lenna.F Cooper et al
4. Introductory Nutrition – Helen Andrews and guthre

D. Infectious Disease

1. Treatment and control of infectious diseases in Man – Pascal James Imperatd
2. Principles and practice of infectious disease - Mandell, Benet and Dolin
3. Microbiology and microbial infections – Topley and Wilson

E. Occupational Health

1. Hunters diseases of Occupations
2. Health in industry – Donold Hunter
3. Occupational Health practice – Schilling.

F. Statistics

1. Statistics in Medicine
2. Biostatistics – A foundation for analysis in Health sciences.

G. Sociology

1. Social Epidemiology edited by – Lisa F Berkman, Ichiro Kawachi
2. Text book of Sociology in Medicine – Renisan
3. Hand book of Medical Sociology – Graham S & L. Reeder
4. Essentials in Qualitative research – a note Book for the field – Willms D.G. & Johnson NA

Journals and Periodicals

In addition to the journals related to public health, the candidate should regularly gather updated information from WHO periodicals, monographs and serial publications.
