

DATTA MEGHE INSTITUTE OF MEDICAL SCIENCES  
JAWAHARLAL NEHRU MEDICAL COLLEGE  
Sawangi (Meghe), Wardha

**DEPARTMENT OF COMMUNITY MEDICINE**

**PO - CO Mapping**

Name of Topic - Concept of Health and Disease

Number of Competencies - 10

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM1.1	Define and describe the concept of Public Health	3	2	2	2	3	3	2
CM1.2	Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	2	1	2	2	1	1	2
CM1.3	Describe the characteristics of agent, host and environmental factors in health and disease and the multi factorial etiology of disease	3	1	3	3	3	3	3
CM1.4	Describe and discuss the natural history of disease	3	2	3	3	3	3	2
CM1.5	Describe the application of interventions at various levels of prevention	3	2	2	3	3	2	2
CM1.6	Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	2	2	3	3	3	3	2
CM1.7	Enumerate and describe health indicators	2	1	2	2	2	2	2

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM1.8	Describe the Demographic profile of India and discuss its impact on health	1	3	2	3	2	3	3
CM1.9	Demonstrate the role of effective Communication skills in health in a simulated environment	3	3	3	3	3	1	1
CM1.10	Demonstrate the important aspects of the doctor patient relationship in a simulated environment	3	3	3	3	3	2	1

**Name of Topic - Relationship of social and behavioural to health and disease**

**Number of Competencies - 05**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM2.1	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community	2	2	3	3	2	2	2
CM2.2	Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status	2	2	3	3	2	2	2
CM2.3	Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior	2	2	3	2	1	2	2
CM2.4	Describe social psychology, community behaviour and community relationship and their impact on health and disease	3	2	3	3	2	2	2
CM2.5	Describe poverty and social security measures and its relationship to health and disease	2	2	1	2	3	2	2

**Name of Topic - Environmental Health Problems**

**Number of Competencies - 08**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM3.1	Describe the health hazards of air, water, noise, radiation and pollution	3	2	2	3	3	2	3
CM3.2	Describe concepts of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards , concepts of water conservation and rainwater harvesting	1	2	2	2	1	3	3
CM3.3	Describe the aetiology and basis of water borne diseases / jaundice/hepatitis/ diarrheal diseases	3	0	3	3	3	2	2
CM3.4	Describe the concept of solid waste, human excreta and sewage disposal	0	2	1	2	2	2	2
CM3.5	Describe the standards of housing and the effect of housing on health	2	1	1	3	3	3	2
CM3.6	Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control Program	3	1	2	3	3	2	2
CM3.7	Identify and describe the identifying features and life cycles of vectors of Public Health importance and their control measures	3	1	2	3	3	2	2
CM3.8	Describe the mode of action, application cycle of commonly used insecticides and rodenticides	0	1	1	2	1	2	3

**Name of Topic - Principles of health promotion and education**

**Number of Competencies - 03**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM4.1	Describe various methods of health education with their advantages and limitations	1	2	3	2	1	1	3
CM4.2	Describe the application of interventions at various levels of prevention	3	1	2	3	3	3	3
CM4.3	Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	3	3	3	3	3	2	2

**Name of Topic - Nutrition**

**Number of Competencies - 08**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	3	2	1	3	3	3	3
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	3	1	2	2	3	3	3
CM5.3	Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management	3	3	3	3	3	3	3
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment	3	1	3	2	1	2	2

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM5.5	Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio- cultural factors.	2	1	1	3	2	2	2
CM5.6	Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	2	1	2	1	2	2	2
CM5.7	Describe food hygiene	1	1	3	3	1	1	1
CM5.8	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration	1	1	1	2	1	1	2

**Name of Topic - Basic statistics and its applications**

**Number of Competencies - 04**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM6.1	Formulate a research question for a study	2	2	2	3	2	2	2
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	1	1	1	2	2	3	3
CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	2	1	1	2	2	3	3
CM6.4	Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	1	1	1	2	2	3	3

**Name of Topic - Epidemiology**

**Number of Competencies - 09**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM7.1	Define Epidemiology and describe and enumerate the principles, concepts and uses	2	1	1	2	2	2	3
CM7.2	Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non- communicable diseases	3	3	3	3	3	3	3
CM7.3	Enumerate, describe and discuss the sources of epidemiological data	2	1	2	2	2	2	2
CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data	1	2	1	2	2	3	3
CM7.5	Enumerate, define, describe and discuss epidemiological study designs	3	2	3	3	3	3	3
CM7.6	Enumerate and evaluate the need of screening tests	3	1	2	2	2	3	3
CM7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures	3	3	3	3	3	3	3
CM7.8	Describe the principles of association, causation and biases in epidemiological studies	2	1	2	2	2	2	2
CM7.9	Describe and demonstrate the application of computers in epidemiology	1	1	1	3	2	2	2

**Name of Topic - Epidemiology of communicable and non- communicable diseases**

**Number of Competencies - 07**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases	3	3	3	3	3	3	3
CM8.2	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for Non Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.)	3	2	3	3	3	3	3
CM8.3	Enumerate and describe disease specific National Health Programs including their prevention and treatment of a case	3	3	3	3	3	3	3
CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	3	3	3	3	3	3	3
CM8.5	Describe and discuss the principles of planning, implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease	2	3	3	3	3	3	3
CM8.6	Educate and train health workers in disease surveillance, control & treatment and health education	2	1	2	2	2	1	2
CM8.7	Describe the principles of management of information systems	2	2	1	2	2	1	2

**Name of Topic - Demography and vital statistics**

**Number of Competencies - 07**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM9.1	Define and describe the principles of Demography, Demographic cycle, Vital statistics	2	1	2	2	3	3	3
CM9.2	Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	2	1	1	3	2	2	3
CM9.3	Enumerate and describe the causes of declining sex ratio and its social and health implications	2	1	1	2	2	2	2
CM9.4	Enumerate and describe the causes and consequences of population explosion and population dynamics of India.	2	2	2	2	3	3	3
CM9.5	Describe the methods of population control	2	1	2	2	2	2	3
CM9.6	Describe the National Population Policy	2	1	3	1	2	2	3
CM9.7	Enumerate the sources of vital statistics including census, SRS, NFHS, NSSO etc	1	2	2	1	2	2	2



**Name of Topic - Reproductive maternal and child health**

**Number of Competencies - 09**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM10.1	Describe the current status of Reproductive, maternal, newborn and Child Health	3	3	3	3	3	3	3
CM10.2	Enumerate and describe the methods of screening high risk groups and common health problems	3	3	3	3	3	3	3
CM10.3	Describe local customs and practices during pregnancy, childbirth, lactation and child feeding practices	3	2	3	3	3	3	3
CM10.4	Describe the reproductive, maternal, newborn & child health (RMCH); child survival and safe motherhood interventions	3	3	3	3	3	3	3
CM10.5	Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (IMNCI) and other existing Programs.	3	3	3	3	3	3	3
CM10.6	Enumerate and describe various family planning methods, their advantages and shortcomings	2	1	2	3	3	3	3
CM10.7	Enumerate and describe the basis and principles of the Family Welfare Program including the organization, technical and operational aspects	2	3	2	2	2	2	2
CM10.8	Describe the physiology, clinical management and principles of adolescent health including ARSH	3	3	3	3	3	3	3
CM10.9	Describe and discuss gender issues and women empowerment	3	3	3	3	3	3	3

**Name of Topic - Occupational Health****Number of Competencies - 05**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM11.1	Enumerate and describe the presenting features of patients with occupational illness including agriculture	3	2	2	3	3	2	3
CM11.2	Describe the role, benefits and functioning of the employees state insurance scheme	2	1	2	1	2	2	2
CM11.3	Enumerate and describe specific occupational health hazards, their risk factors and preventive measures	2	1	2	2	1	2	2
CM11.4	Describe the principles of ergonomics in health preservation	3	2	1	2	2	2	2
CM11.5	Describe occupational disorders of health professionals and their prevention & management	3	1	2	1	2	2	2

**Name of Topic -Geriatric services****Number of Competencies - 05**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM12.1	Define and describe the concept of Geriatric services	3	2	3	3	3	2	3
CM12.2	Describe health problems of aged population	3	2	3	3	3	2	3
CM12.3	Describe the prevention of health problems of aged population	3	2	3	3	3	2	3
CM12.4	Describe National program for elderly	2	1	2	1	2	2	2

**Name of Topic - Disaster Management****Number of Competencies - 04**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM13.1	Define and describe the concept of Disaster management	1	3	2	3	3	3	3
CM13.2	Describe disaster management cycle	1	2	2	2	2	2	3
CM13.3	Describe man made disasters in the world and in India	1	2	2	2	2	2	3
CM13.4	Describe the details of the National Disaster management Authority	1	3	2	3	2	3	3

**Name of Topic - Hospital waste management****Number of Competencies - 03**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM14.1	Define and classify hospital waste	2	1	1	3	2	2	3
CM14.2	Describe various methods of treatment of hospital waste	1	1	1	3	2	2	3
CM14.3	Describe laws related to hospital waste management	1	3	2	3	2	2	3

**Name of Topic - Mental Health****Number of Competencies - 03**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM15.1	Define and describe the concept of mental Health	3	1	3	3	3	3	3
CM15.2	Describe warning signals of mental health disorder	3	1	3	3	3	3	3
CM15.3	Describe National Mental Health program	1	1	1	1	2	2	2

**Name of Topic - Health planning and management****Number of Competencies - 04**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM16.1	Define and describe the concept of Health planning	1	3	1	1	1	3	3
CM16.2	Describe planning cycle	1	3	1	1	1	3	3
CM16.3	Describe Health management techniques	1	3	2	2	3	3	3
CM16.4	Describe health planning in India and National policies related to health and health planning	1	3	2	2	3	3	3

**Name of Topic -Health care of the communitiy****Number of Competencies - 05**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM17.1	Define and describe the concept of health care to community	1	2	3	3	1	2	3
CM17.2	Describe community diagnosis	3	3	3	3	2	2	3
CM17.3	Describe primary health care, its components and principles	1	3	1	2	1	1	2
CM17.4	Describe National policies related to health and health planning and millennium development goals	1	3	2	2	1	1	2
CM17.5	Describe health care delivery in India	1	3	2	2	1	1	2

**Name of Topic - International Health****Number of Competencies - 02**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM18.1	Define and describe the concept of International health	1	1	2	2	2	2	3
CM18.2	Describe roles of various international health agencies	1	1	2	2	2	2	2

**Name of Topic - Essential Medicine**

**Number of Competencies - 03**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM19.1	Define and describe the concept of Essential Medicine List (EML)	3	1	1	3	3	3	3
CM19.2	Describe roles of essential medicine in primary health care	3	1	1	3	3	3	3
CM19.3	Describe counterfeit medicine and its prevention	3	1	1	3	3	3	3

**Name of Topic - Recent advances in Community Medicine**

**Number of Competencies - 04**

Number	C.O	Clinician	Leader & member of the health care team & system	Communicator	Life long learner	Professional	Critical thinker	Researcher
CM20.1	List important public health events of last five years	1	3	1	3	3	3	3
CM20.2	Describe various issues during outbreaks and their prevention	3	3	3	3	3	3	3
CM 20.3	Describe any event important to Health of the Community	2	2	2	1	2	3	1
CM 20.4	Demonstrate awareness about laws pertaining to practice of medicine such as Clinical establishment Act and Human Organ Transplantation Act and its implications	3	3	3	3	3	3	3