

Year:	Fourth Year
Subject Name:	Public Health Dentistry
Subject Code:	1DS1010308
Pre-requisite:	-None-

INTRODUCTION

Public Health Dentistry works for the promoting oral health and preventing oral disease. The department strives to take education to the masses to improve their quality of life. We believe the key to ultimate oral health lies in educating and motivating people and bringing positive social change.

GOAL

To prevent and control oral diseases and promote oral health through organized community efforts

OBJECTIVES

1. Apply the principles of health promotion and disease prevention
2. Have knowledge of the prevalence of common dental condition in India
3. Have knowledge of community based preventive measures
4. Have knowledge of the social cultural and environmental factors which contribute to health or illness.
5. Educate patients about the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health

Syllabus:

- 1. Introduction to dentistry: Definition of Dentistry, History of dentistry, Scope aims and objectives of Dentistry.**
- 2. Public Health:**
 - I. Health & Disease: Concepts, Philosophy, Definition and Characteristics
 - II. Public Health : Definition and Concepts, History of Public health
 - III. General Epidemiology: Definition, objectives, methods
 - IV. Environmental Health: Concepts, principles, protection, sources, environmental sanitation purification of water disposal of waste, role in mass disorder.
 - V. Health education: Definition, concepts, principles, methods, and health education aids.
 - VI. Public health administration: Priority, establishment, manpower, private practice management, hospital management.

- VII. Ethics and jurisprudence: Professional liabilities, negligence, malpractice, consents, evidence, contracts and methods of identification in forensic dentistry
- VIII. Nutrition in oral diseases
- IX. Behavioral science: Definition of sociology, anthropology and psychology and their influence in dental practice and community.
- X. Health care delivery system: Center and state, oral health policy, primary health care, national programmes, health organizations.

3. Dental Public Health:

- 1. Definition and difference between community and clinical health
- 2. Epidemiology of dental disease-dental caries, periodontal diseases, malocclusion, dental fluorosis and oral cancer
- 3. Survey procedures: planning, implementation and evaluation, WHO oral health survey methods 2013, indices for dental diseases.
- 4. Delivery of dental care: Dental auxiliaries, operational and non-operational incremental and comprehensive health care, school dental health
- 5. Payments of dental care: Methods of payments and dental insurance, government plans
- 6. Preventive Dentistry: definition, levels, role of individual, community and profession, fluorides in dentistry, plaque control programmes.

4. Research Methodology and Dental Statistics

- 1. Health information: Basic knowledge of computer, MS Office, window 2000, statistical programmes.
- 2. Research Methodology: Definition, types or research, designing a written protocol
- 3. Bio-statistics: introduction, collection of data, presentation of data, measure of central tendency, measures of dispersion, tests of significance, sampling and sampling techniques-types, errors, bias, blind trails and calibration.

PRACTICALS/CLINICALS/FIELD PROGRAMME IN COMMUNITY DENTISTRY:

These exercises designed to help the student in IV year students:

- 1. Understand the community aspects of dentistry
- 2. To take up leadership role in solving community oral health programme.

Exercises:

- A. Collection of statistical data(demographic) on population in India, birth rates, morbidity and mortality, literacy, per capita income.
- B. Incidence and prevalence of common oral diseases like dental caries, periodontal disease, oral cancer, fluorosis at national and international levels.

- C. Preparation of oral health education materials like posters, models, slides, lectures, play etc.
- D. Oral health status assessment of the community using indices and WHO basic oral health survey methods
- E. Exploring and planning setting of private dental clinics in rural, semi urban and urban locations, availment of finances for dental practices-preparing project report.
- F. Visit to primary health center to acquaint with activities and primary health care delivery
- G. Visit to water purification plant/public health laboratory/center for treatment of biochemical wastes and sewage water.
- H. Visit to schools to assess the oral health status of school children, emergency treatment and health education including possible preventive care at school (tooth brushing technique demonstration and oral rinse programme etc)
- I. Visit to institution for the care of handicapped, physically, mentally, or medically compromised patients
- J. Preventive dentistry: in the department application of pit and fissure sealants fluoride gel application procedure, ART, comprehensive health for 5 pts, at least 2 patients.

The colleges are encouraged to involve in the N.S.S programme for college students for carrying out social work in rural areas.

CLINICAL QUOTA FOR 4th YEAR BDS STUDENTS

Student has to learn to evaluate various oral diseases and oral health conditions. In view of the above each student shall maintain a record of work done.

- ❖ The following is minimal prescribed work (at the end of IV BDS)

Sl.No:	Index	Requirement
1	DMFT – DMFS	2 cases
2	deft - defs	1 cases
3	OHI	1 cases
4	OHI -S	1cases
5	Sillness & Loe Plaque Index	3 cases
6	Loe & Sillness Gingival Index	3 cases
7	WHO Proforma	5 cases
8	ART	3 cases
9	Pit & Fissure Sealant	3 cases

10	APF Gel Application	3 cases
11	Comprehensive Treatment Done	3 cases

FIELD WORK FOR IV BDS

SN	Visits (In 3 rd or 4 th Year)
1.	Water purification plant
2.	Primary health center / Community health centre
3.	Survey

RECOMMENDED BOOKS FOR READING

Sr. No.	Title	Author
1	Essentials of preventive and community Dentistry (4 th ed.)	Peter, Soben
2	Infection control in dental practice (1st rev. ed.)	Anil, S.
3	Dentistry, Dental practice and the community (6 th ed.)	Burt, Brian A.
4	Textbook of preventive and community Dentistry (1 st ed.)	Hiremath, S. S
5	Dental clinical advisor (1 st ed.)	Hupp, james R
6	Principles and practice of public health dentistry (1 st ed.)	Krishna, madhusudan
7	Oxford hand book of clinical dentistry (4 th ed.)	Mitchell, david A.
8	Diagnosis and risk prediction of dental caries (1 st ed.)	Axelsson per.
9	Oral health surveys basics methods (4 th ed.)	WHO, geneva
10	Dental hygiene theory and practice (3 rd ed.)	Darby Michele leonardi, Walsh Margaret M
11	public health and preventive medicine (15 th ed.)	Wallace Robert
12	Methods in biostatistics for medical students and research workers (7 th ed.)	Mahajan, B. K

13	Modern epidemiology (1 st ed.)	Rothman Kenneth J
14	Primer of epidemiology (5 th ed.)	Friedman gary D
15	Park's textbook of preventive and social medicine (21 st ed.)	Park.K

RECOMMENDED JOURNALS FOR READING

1. Community Dentistry and Oral Epidemiology
2. Journal of Public Health Dentistry
3. Journal of Community Dental Health
4. Journal of Indian Association of Public Health Dentistry

Examination Pattern

Theory Examination Total Marks - 100	Practical/Clinical Examination Total Marks – 100
1. Theory University Written Exam – 70 Marks	1. University Practical – 90 Marks
2. Internal Assessment -10 Marks	2. Internal Assessment – 10 Marks
3. Viva Voce – 20 Marks	

Marks distribution in University Practical/Clinical Examination*

Total – 90 Marks

1. Case History + Indices/WHO Proforma + Chair side viva – 50 Marks
2. Project + Record Book + Seminar + Health Talk + Research – 20 Marks
3. Spotting – 20 Marks

***Marks distribution may be changed by University Practical External Examiner.**