

Department of Public Health Dentistry

UG Curriculum

Under graduate in Public Health Dentistry has been designed to enable the qualifying dental surgeons to diagnose, analyze Public oral health problem and how to prevent, promote and organize in the community. Following instructional procedures are to be adopted to achieve the above objectives:

MODULE 1

Introduction to dentistry, public Health & Public health dentistry.

Expected outcome:	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> *Introduction and history to dentistry, public health& dental public health. *Changing concepts of health *Concepts of causation *Changing concepts in public health *Primary health care * *Concept of prevention *Characteristics and Tools of dental public health *Duties of public health dentist *Public health problem *procedural steps in dental public health *Private practice and public health dentistry *Constitution and composition of DCI *Dentists (amendment) Act 1993 * Indian Dental Association 	<p>MUST KNOW</p> <ul style="list-style-type: none"> -Population based strategy for prevention -Intersectorial strategy for health promotion -Application of evidence based dentistry at community level <p>MAY KNOW:</p> <ul style="list-style-type: none"> *Landmark committees in the history of public health in India 	<ul style="list-style-type: none"> - Attend lectures / seminars within the department -Independent study -Web based e-learning sources 	<ul style="list-style-type: none"> -Written examination -Multiple choice question (MCQ) -OSCE & OSPE

MODULE 2

General Epidemiology, Epidemiology (Dental caries, Periodontal diseases & Malocclusion)

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
*Introduction and history *Aims and principles of epidemiology *Tools of measurement *Epidemiological methods *Uses of epidemiology *Association of causation * Epidemiology of Dental caries *Theories of etiology * Etiological factors *Prevention * Caries risk assessment *Caries vaccine *Caries activity tests * Epidemiology classification, etiology & prevention of periodontal disease * Epidemiology classification, etiology & prevention of Malocclusion	MUST KNOW -Size and distribution of disease problems in human populations - Provision of Data essential for Planning implementation and evaluation of health services - Identify etiological factors in pathogenesis of disease - Understand Etiology, epidemiology and prevention about Dental caries, periodontal diseases and Malocclusion MAY KNOW: *Current trends in caries experience *Dietary studies on controlled human populations *Cariogram	-Attend lectures / seminars within the department -Independent study -clinical posting. - Demonstration and training in clinic -Web based e-learning sources	-Written examination -Workplace based assessment - Multiple choice question (MCQ) -OSCE & OSPE

MODULE 3

Oral cancer, Tobacco control and habit cessation

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> * Epidemiology & etiology of oral cancer *Potentially malignant disorders *Squamous cell carcinoma *TNM system of tumor staging *Prevention, control *Counselling for tobacco cessation (5A's) *Nicotine replacement therapies * Counselling for those willing to quit * Fagerstom test 	<p>MUST KNOW</p> <ul style="list-style-type: none"> *Etiology and risk factors <p>MAY KNOW:</p> <ul style="list-style-type: none"> *cancer registration in India *National tobacco control programme. * Global initiatives in prevention of oral cancer like: The CRETE Declaration, FCTC, Bloomberg initiative 	<ul style="list-style-type: none"> - Attend lectures / seminars within the department - Independent study -Web based e-learning sources 	<ul style="list-style-type: none"> -Written examination -Objective StructuredClinical Examination& OSPE -Workplace basedassessment -Multiple choice question (MCQ)

MODULE 4

Preventive Dentistry (Fluorides)

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
*Introduction and historical evolution of fluorides. *Fluoride in the environment *Sources of fluorides * Metabolism of fluoride *Estimation of fluoride concentration *Mechanism of action of fluoride *fluoride delivery methods *Toxicity of fluoride * fluorosis *Defluoridation of water	MUST KNOW -Understand knowledge of Fluoride delivery methods: systemic and topical * Understand and Identify various types of fluoride toxicity *Nalgonda Technique MAY KNOW: * Controlled water fluoridation studies	- Attend lectures / seminars within the department - Independent study -Web based e-learning sources	-Written examination -Objective Structured Clinical Examination & OSPE -Workplace based assessment -Multiple choice question (MCQ)

MODULE 5

Nutrition & Oral Health and Plaque control

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<p>*Introduction and Classification of foods</p> <p>*Nutrients</p> <p>*Balanced diet</p> <p>*Effect of nutrition on oral tissues</p> <p>.Nutrition in the elderly</p> <p>.Preventive & social measures</p> <p>. Composition of dentifrices</p> <p>.Tooth brushing and Flossing techniques</p>	<p>MUST KNOW</p> <p>-Understand effect of nutrition on Dental caries, malocclusion, periodontal disease and oral cancer</p> <p>* Preventive and social measures at Family level, community level, national level and international level</p> <p>*Disclosing agents and its uses</p> <p>*Mechanical and chemical Plaque control aids</p> <p>*Toothbrush – types, ADA specification and techniques</p> <p>*Composition of dentifrices and flossing.</p> <p>MAY KNOW:</p> <p>*Nutrition in elderly</p>	<p>-Attend lectures / seminars within the department</p> <p>- Independent study</p> <p>-Web based e-learning sources</p>	<p>-Written examination</p> <p>-OSCE & OSPE</p> <p>-Workplace basedassessment</p> <p>- Multiple choice question (MCQ)</p>

MODULE 6

Health care delivery & Health agencies around the world,

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none">*Evolution of health systems*Levels of health care in India*Health system administration in India*Health care sectors in India*The national oral health policy*Health agencies around the world	<p>MUST KNOW- Understand the health systems administration in India at center, state and district level</p> <p>MAY KNOW: *Five year plans</p>	<ul style="list-style-type: none">-Attend lectures / seminars within the department-Independent study· Web based e-learning sources	<ul style="list-style-type: none">- Written examination- Objective Structured Clinical Examination-Workplace based assessment- Multiple choice question (MCQ)-OSCE & OSPE

MODULE 7

School Dental Health Programme & Dental Auxiliary

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> *Aspects of school health programs *Objectives and ideal requirements *advantages *Elements/ components *Some school oral health programs *Who global school health initiates *Incremental care *Comprehensive care *Definition and classification by WHO and revised classification *Description and duties of all types of dental auxiliaries 	<p>MUST KNOW- Understand the importance of healthy mouth, relationship of dental health to general health and appearance of school child -To understand about dental auxiliary for facilitating the provision of dental services</p> <p>MAY KNOW: *Dental manpower in India</p>	<ul style="list-style-type: none"> -Attend lectures / seminars within the department -Independent study · Web based e-learning sources 	<ul style="list-style-type: none"> -Written examination -Objective Structured Clinical Examination -Workplace based assessment -Multiple choice question (MCQ)

MODULE 8

Research methodology and Biostatistics, Basic knowledge of computers,

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<p>*Introduction and categories of research</p> <p>*Scientific method</p> <ul style="list-style-type: none"> - Problem formulation -Hypothesis formulation -Writing a protocol -sampling and sample designs - collection of data -presentation of data: types of tables , charts and diagrams -Analysis and interpretation:measures of central tendency,dispersion, standard deviation, Normal curve & tests of significance -Writing a report 	<p>MUST KNOW</p> <ul style="list-style-type: none"> -how to contribute new knowledge or reevaluate current knowledge to improve all phases of oral health -To improve techniques of identifying, preventing and treating oral diseases in individuals and groups - to develop and test theories related to oral health care - To test real and chance occurrence - to correlation between attributes in same population - measurement of mortality and morbidity -to evaluate achievements of public health programs and fix priorities -to fix priorities in public health programes -Microsoft word, Excel and Powerpoint <p>MAY KNOW:</p> <p>Citation and reference styles</p>	<ul style="list-style-type: none"> -- Attend lectures / seminars within the department - Independent study -Web based e-learning sources 	<ul style="list-style-type: none"> - Written examination - Objective Structured Clinical Examination& OSPE -Workplace based assessment -Multiple choice question (MCQ)

MODULE: 9

Practice management and administration, Hospital administration :

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> -Biological Hazards -Chemical Hazards -Physical Hazards -Psychological Hazards -categories of task in relation to risk -personal barrier techniques -Vaccines for dental health-care workers -use and care of sharp instruments -sterilization and disinfection of instruments -cleaning and disinfection of dental unit and environmental surfaces -use and care of handpieces -handling of biopsy specimens -goals of practice management -Dental office setting -Management of the dental office -Financial aspects of a dental practice -Decision on the need for a mobile dental clinic -Goals, objectives and target populations for mobile dental services -Specifications, advantages and disadvantages of a mobile dental clinic 	<p>MUST KNOW - Understand the key to prevent occupational exposure and identify the hazards and determine appropriate controls</p> <ul style="list-style-type: none"> - Understand inflectional control strategies for health care delivery settings - Understand “universal precautions” <p>-to develop business management skills that enable dentist to enjoy good dentistry with a harmonious staff resulting in satisfied patients and a good income.</p> <ul style="list-style-type: none"> - Understand need to provide oral health care to populations that have difficulty gaining access to the traditional dental care delivery system <p>MAY KNOW:</p> <ul style="list-style-type: none"> -Types of economic evaluation: Cost minimization analysis, cost effectiveness analysis, cost benefit analysis, cost utility analysis. 	<ul style="list-style-type: none"> -- Attend lectures / seminars within the department - Independent study -Web based e-learning sources 	<ul style="list-style-type: none"> - Written examination - Objective Structured Clinical Examination & OSPE -Workplace based assessment -Multiple choice question (MCQ)

MODULE 10

Finance in Dental care

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> -Private fee for service - Post payment plans -Private third party prepayment plans: <ol style="list-style-type: none"> 1.commercial insurance companies 2.Non- profit :Delta dental plans, Blue cross/ Blue shield 3. Prepaid group practice 4.Capitation plans -Salary -Public programs: Medicare, Medicaid, National health insurance. 	<p>MUST KNOW – Understand methods to ease cost either by legislation or by development of a variety of funding approaches</p> <p>-Mechanism of payment for dental care</p> <p>MAY KNOW: -Financing dental health services in India</p>	<ul style="list-style-type: none"> - Attend seminars / tutorials -Independent study -Web based elearning - 	<ul style="list-style-type: none"> -Workplace based assessment -Written exam - OSCE - MCQ

MODULE 11

Ethics and Jurisprudence in Dentistry

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> -Hippocratic oath -Ethical principles -Ethical rules for dentists -The Nuremberg code -Declaration of Geneva -World medical association -Declaration of Helsinki -Doctor patient contract -Consent -Professional negligence -consumer protection act -Do'and Don'ts for health professionals 	<p>MUST KNOW Know about ethics/ moral duties and obligations of the dentist towards his patients, professional colleagues and to the society</p> <ul style="list-style-type: none"> -to understand autonomy and self-determination, protect the vulnerable and promote the welfare and equality of human beings -To understand jurisprudence as study and theory of law <p>MAY KNOW:</p> <ul style="list-style-type: none"> -international code of medical ethics -Other legal avenues for aggrieved patients 	<ul style="list-style-type: none"> -Attend seminars / tutorials -Independent study - Web based e-learning <p>Sources</p>	<ul style="list-style-type: none"> - Workplace based assessment -Written exam - OSCE - MCQ

MODULE 12

Pit and fissure sealants, Atraumatic restorative treatment,

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none"> -Morphology of pits and fissures -Types of sealants -Materials used as sealants -Indications and contraindications of sealants -Procedure of sealant application -Factors affecting sealant retention -Cost effectiveness -Preventive resin restorations - Principle, indications, contraindications and advantage of Atraumatic restorative treatment -Essential instruments and materials (ART) - Procedure of ART Failed /defective restorations 	<p>MUST KNOW</p> <ul style="list-style-type: none"> -understand cariostatic properties of sealants that are attributed to the physical obstruction of pits and fissures - understand the cost effectiveness and treatment modalities of sealants Use of sealants on teeth of children at high risk for dental caries -to understand modern knowledge about minimal intervention, minimal invasion and minimal cavity preparation for carious lesions -Understand ART as minimally invasive care approach in preventing dental caries and stopping its further progression. <p>SHOULD KNOW</p> <ul style="list-style-type: none"> Use of sealant application and as routine preventive measure for pits and fissures and educating parents on the importance of dental sealants 	<ul style="list-style-type: none"> -Attend seminars / tutorials - Independent study - Web based e-learning Sources 	<ul style="list-style-type: none"> - Workplace based assessment -Written exam -OSCE, OSPE - MCQ

MODULE 13

Health education, Environment and Health

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<ul style="list-style-type: none">-Introduction and objectives of health education-Approaches to achieve health-Models of health education-Principles and contents of health education-Stages in the adoption of new ideas and practices-Health education and propaganda-Communication-Educational aids used in health education-Methods in health education- Health promotion-Water and its uses-Sources of water-Guidelines for drinking water quality-Purification of water-Waste management-Disposal of solid waste-Disposal of health care waste	<p>MUST KNOW</p> <ul style="list-style-type: none">-Understand the objectives of health education regarding, how to inform people, motivate people and guiding in to action. -understand control of air pollution, radiation control, noise control and solid waste management	<ul style="list-style-type: none">- Attend lectures / seminars within the department - Independent study - Web based e-learning sources	<ul style="list-style-type: none">-Written examination -Workplace based assessment - Multiple choice question (MCQ) -OSCE & OSPE

MODULE 14

Indices in Dentistry

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
-Ideal requisites of Index -Criteria for selecting an index Classification of index Uses of index -OHI-S index -DMFT&DMFS Index -LOE and SILLNESS index -SILLNESS and LOE index -CPI index -Dean's Fluorosis index	MUST KNOW -Understand Indices to quantitate clinical conditions on a graduated scale, facilitating comparison among populations examined by the same criteria and methods -Understand indices used for assessing oral hygiene and plaque, gingival and periodontal diseases, dental caries, dental fluorosis, malocclusion and learn proforma for recording indices MAY KNOW: -Russel's index -CPITN index -Dental aesthetic index	- Attend seminars / tutorials - Independent study - Web based e learning Sources	- Workplace based assessment -Written exam - OSCE, OSPE -MCQ

MODULE 15

Survey Procedures in dentistry & Planning and evaluation,

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
<p>Types of survey -Uses of survey -Methods of data collection -Steps in surveying -WHO Oral Health Survey methods 1997</p> <p>-Uses of planning -Types of health planning -Steps in planning process -Evaluation</p>	<p>Understand monitoring trends in oral health and disease, policy development, program evaluation, assessment of dental needs and providing visibility for dental issues with the help of surveying</p> <p>-Understand planning to match limited resources with many problems - How to eliminate wasteful expenditure. -How to develop the best course of action to accomplish a defined objective</p>	<p>-Attend lectures / tutorials -Independent study -Web based elearning</p>	<p>- Workplace based assessment - Written exam -OSCE, OSPE -MCQ</p>

MODULE 16

Behavioral and social sciences,

Expected outcome	Intended learning objectives	Teaching learning Methods	Assessment tools
-Social sciences -Health behavior and life style -Theories of behavior change -Lifestyle and oral health -Social stratification and oral health -risk behaviour -Utilization of dental services.	MUST KNOW -Understand social environment as the physical and biological environment in relation to health and disease in man -understand cultural values, customs, habits, beliefs, attitudes, morals, religion, education, income, occupation, standard of living, community life and the social and political organization. MAY KNOW: -Behaviour of child in dental office -sociology, Anthropology and psychology and their relevance in dental practice and community	- Attend seminars / tutorials - Independent study - Web based e-learning Sources <i>Integrated teaching with Pedodontics</i>	-Workplace based assessment - Written exam - OSCE, OSPE - MCQ

Schedule of Practical Training

- 1 Each student is posted in BDS III yr. & BDS Final yr. for 3 hours and 4 hours respectively in clinics as per Dean's Order
- 2 Each student is trained in various community setting like, schools, slums, rural areas etc.
- 3 A detailed description of these exercises is available in the exercise workbook.

N.B All the above mentioned syllabus and curriculum is being followed in accordance with Dental Council of India regulations 2007

