

## STUDY GUIDE

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| <b>PROGRAM</b>                            | <b>BDS</b>  |
| <b>COURSE TITLE</b>                       | <b>COMMUNITY &amp; PREVENTIVE DENTISTRY</b>   |
| <b>ACADEMIC YEAR</b>                      | <b>2nd YEAR, 2024</b>   |
| <b>INTRODUCTION</b>                       | <p>It is a branch, discipline, or specialty of dentistry that deals with the community and its aggregate dental or oral health rather than that of the individual patient.</p> <p>Department of Community &amp; Preventive Dentistry, KM&amp;DC since its conception in 1993 is committed to get excellence in teaching and research involving diagnosis and preventive management of diseases of the oral cavity and behavioral sciences for dentistry, that impact oral health, including: the basic principles and application of Epidemiology, Public Health and the Pakistani Dental-Health Care System. This course covers current issues on the prevalence, distribution and influence of plaque-related diseases and emerging oral conditions and the impact of social, cultural and environmental factors on dental health and disease. It introduces the organisation of oral healthcare in Pakistan, application of oral epidemiology research activities and community based oral health promotion activities.</p> <p>The Department of Community and preventive dentistry has been involved in undergraduates since many decades. The department is committed to provide standardized learning opportunities in its programs with provision of skill enhancing workshops ,tutorials, and CMEs link with platforms of different associations.</p> |
| <b>DEPARTMENT INVOLVED</b>                | Department of Dentistry.  |
| <b>Learning Objectives &amp; Outcomes</b> | <p><b>Introduction to Community Dentistry and Dental Public Health:</b></p> <ul style="list-style-type: none"> <li>● Describe the concepts of health.</li> <li>● Changing concepts of public health</li> <li>● Define dental public health</li> <li>● Identify the links between clinical practice and dental public health.</li> <li>● Outline the influence the concept of health may have on need and service use.</li> </ul> <ul style="list-style-type: none"> <li>● Describe disease , illness, and ill health from the perspective of a professional and a lay person</li> <li>● Outline the criteria used to determine if a condition is a dental</li> </ul>  |

public health problem

- Describe the central arguments presented by the critiques of the biomedical approach to health care delivery
- Discuss how the gap between professional and lay concepts of health may have an impact on how healthcare is delivered, used, evaluated.

**Oral epidemiology:**

- Define epidemiology and its requirements.
- Describe the uses of epidemiology
- Outline the steps necessary to undertake an epidemiological study.
- Understand the different types of epidemiological study and how they apply to dental care.

- Define surveys
- Classify types of surveys
- Outline uses of surveys
- Outline methods of surveys
- Outline the steps in surveys

- Outline principles of screening

- Understand the principles of measuring disease.
- Describe the ideal features of an index and know some of the limitations of existing indices.

- Describe aetiology of oral cancer.

- Describe the trends in oral health of children and adults.
- Describe the trends in oral health inequality

**Prevention of oral and dental diseases:**

- Describe differing strategy approaches in prevention
- Describe the rationale for choosing between approaches

- Provide a definition of oral health promotion.
- Outline the key principles of oral health promotion.
- Describe the 5 areas for action outlined in the Ottawa Charter and provide oral health examples of each.
- List potential partners for oral health promotion.

- Describe plaque control

- Define cariogenic food
- Describe caries control by dietary restriction

- Explain link between nutrition and oral disease
- Outline the optimal level of fluoride concentrations in different requirements.
- Describe caries reduction from fluoridation
- Understand about fluoride exposure.
- Outline method of delivery with examples
- Describe the differences between self and topically applied fluorides
- Outline the differences between dif methods of its application
- Define fissure sealant
- Describe method of fissure sealant application.
- Describe method of plaque control.
- Definitions(Principles and strategies of dental health education and promotion; infection control; protection from radiation and mercury hazards in dental practice.)
  - Different approaches of dental health education
  - Understand CDC guidelines of cross infection control.
  - Understand guidelines for protection from radiation and mercury hazards .

**Dental health care delivery system**

- Describe the structure
- Describe the financing
- Classify dental auxiliaries
- Classify types of supervisions
- Classify the category of people with special care needs.
- Describe the strategy for oral care of such category
- Describe the strategy for oral care of such category
- Describe the strategy for oral care of such category
- Define ethics
- Outline the principles of ethics
- Describe the principle of ethics

**Behavioral sciences:**

- Define determinants of health
- Describe different approaches to bring about changes in health behavior .

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|                   | <ul style="list-style-type: none"> <li>• Describe 3 different types of theories</li> <li>• Define communication</li> <li>• Describe different components of communication skills</li> <li>• Describe different types of dental stressors</li> <li>• Differentiate between patients with dental anxiety, dental phobia and dental fear. <ul style="list-style-type: none"> <li>• Describe dental anxiety</li> <li>• List different assessment methods</li> <li>• Outline components of dental anxiety</li> <li>• Outline management methods of dental anxiety</li> </ul> </li> <li>• Outline different assessment methods of dental anxiety in children. <ul style="list-style-type: none"> <li>• Outline management of dental anxiety in children</li> </ul> </li> <li>• Describe different counselling techniques in general practice and in private on better oral hygiene practice</li> <li>• Describe with examples different types of motivation.</li> <li>• Define patient compliance</li> <li>• Define patient adherence</li> <li>• Outline steps lead to commitment</li> </ul> <p><b>Introduction to bio – statistics:</b></p> <p><b>Define terms</b></p> <p><b>Outline differences</b></p> <p><b>Describe application</b></p> <ul style="list-style-type: none"> <li>• Types of variables, Frequency distribution.</li> <li>• Measures of central tendency and variability in data.</li> <li>• Methods of sampling, 37 sampling errors.</li> <li>• Probability.</li> <li>• Normal distribution</li> <li>• Confidence interval.</li> <li>• Tests of statistical significance.</li> <li>• Kappa test.</li> </ul> |
| <b>ASSESSMENT</b> | <p><b>Exam Weightage</b></p> <ul style="list-style-type: none"> <li>• Total 20% internal assessment and 80% professional exam weightage</li> <li>• Internal assessment of annual professional university examinations will remain the same for supplementary examination.</li> </ul>  |