

## STUDY GUIDE

<b>PROGRAM</b>	<b>BDS</b>
<b>COURSE TITLE</b>	<b>COMMUNITY DENTISTRY</b>
<b>ACADEMIC YEAR</b>	<b>2<sup>nd</sup> Year 2023</b>
<b>INTRODUCTION</b>	Community and Preventive dentistry is the dynamic field of dentistry which provides basic & advanced health knowledge to an individual and group of people. It teaches the prevention of oral/dental diseases & creates awareness of oral hygiene in the population. Community Dentistry is a basic science subject taught in the Second Professional year of BDS. The department deals appropriate academic and clinical environment to organize our undergraduate students in the field of Community and Preventive Dentistry. We support to develop clinical skills and self-confidence in our students by taking them to the community outreach programs and make them understand their importance and role in the oral health issues
<b>RATIONALE</b>	The main purpose of the community dentistry is to establish oral hygiene and oral health awareness through organized community effort the main objective is to motivate students to search community health issues and their association to clinical experience. The subject also help the students to understand the primary health care approach, an introduction to epidemiology of oral diseases and dental research ,biostatistics and oral health services , understanding of oral health promotion.
<b>OUTCOMES</b>	By the end of the course, students will be able to describe the principles of Community Dentistry in order to implement preventive aspects in clinical practice
<b>DEPARTMENTS INVOLVED</b>	Community/ Preventive Dentistry
<b>COURSE OBJECTIVES</b>	By the end of the course, the students will be able to: <u>DENTAL PUBLIC HEALTH</u> <ul style="list-style-type: none"> <li>• Define health, public health, dental public health, ethics in dentistry</li> </ul>

- Describe public health services and problems
- Discuss surveillance and its types and the planning cycle.
- Discuss the issues in dental public health.
- Compare community health work and private practice with regard to their characteristic features.

#### ETHICS

- Discuss ethical principles for biomedical decision making
- Discuss ethics in research and in patient care

#### HEALTH PROMOTION AND ORAL HEALTH EDUCATION

- Define oral health promotion.
- Describe the Ottawa charter for health promotion.
- List the global goals for oral health in year 2000.
- Discuss knowledge and attitudes about oral health.
- Describe principles of oral health education.
- Conduct dental health education sessions.

#### DENTAL AUXILIARIES

- Classify dental auxiliaries.
- Discuss the various types of dental auxiliaries
- Discuss the various levels of supervision.

#### MEASUREMENT OF ORAL DISEASES

- Discuss epidemiology
- Define the various methods of measuring oral diseases
- Define the various types of scales used in disease measurement
- Discuss the various properties of an ideal index.

#### DENTAL HEALTH PRACTICE: INFECTION CONTROL AND MERCURY SAFETY

- Discuss the Infection control guidelines described by American Dental Association (ADA), Centres For Disease Control And Prevention (CDC) and Occupational Safety and Health Administration (OSHA).
- Describe HIV infection and AIDS, Hepatitis B and C.
- Discuss dental unit waterlines and infection control practices.

- Discuss public and professional perception of infectious disease.
- List safety and environmental issues of dental amalgam

#### DENTAL CARIES

- Discuss the distribution, etiology of dental caries.
- Discuss the relation between diet and caries.
- Describe root and early childhood caries.
- Discuss the indices used to measure caries.

#### PERIODONTAL DISEASES

- Classify periodontal diseases.
- Discuss the etiology, current models, distribution and systemic conditions for periodontal diseases.
- Explain the indices used to measure oral hygiene and periodontal diseases.

#### ORAL CANCER AND OTHER CONDITIONS OF ORAL DISEASES

- Explain the occurrence, distribution and risk factors of oral cancer.
- Discuss soft tissue lesions of the oral cavity, cleft lip and palate, malocclusion and temporomandibular joint disorders.

#### DENTAL FLUOROSIS

- Discuss the prevalence and etiology of fluorosis.
- List sources and amounts of fluoride intake.
- Describe fluoride physiology.
- Explain the relation between fluoride and dental caries.
- Discuss fluoride toxicity.
- Describe early studies of fluoridated water.
- Discuss the indices used to measure fluorosis.
- Differentiate between milder forms of fluorosis and non-fluoride opacities on the basis of their characteristics.

#### PRIMARY HEALTH CARE

- Define disease and illness
- Discuss the various levels of prevention
- Discuss the Iceberg Phenomenon

	<ul style="list-style-type: none"> <li>• Define the characteristics, components and principles of primary health care</li> <li>• Describe the Declaration of Alma Atta.</li> </ul> <p><u>FISSURE SEALANTS</u></p> <ul style="list-style-type: none"> <li>• Discuss the various types of fissure sealants</li> <li>• Describe the uses, indications, contraindications, application and retention of fissure sealants</li> <li>• Explain the issues related to the use of fissure sealants</li> </ul> <p><u>PLAQUE CONTROL</u></p> <ul style="list-style-type: none"> <li>• Discuss the cariogenicity of different sugars</li> <li>• Describe the nature of dental plaque.</li> <li>• Discuss the rationale and various methods of plaque control</li> </ul> <p><u>TOBACCO AND ITS RESTRICTIONS</u></p> <ul style="list-style-type: none"> <li>• Discuss the types of tobacco</li> <li>• Explain the prevalence and pathological effects of tobacco use</li> <li>• Discuss the laws proposed to restrict tobacco use</li> <li>• Discuss the role of dental professionals in restricting tobacco use.</li> </ul> <p><u>BEHAVIOURAL SCIENCES</u></p> <ul style="list-style-type: none"> <li>• Discuss various behavior patterns.</li> <li>• Describe theories of behavior change.</li> <li>• Discuss anxiety and fear management in dentistry.</li> </ul>
<b>PRACTICALS</b>	<p><u>TOOTH NUMBERING SYSTEMS</u></p> <p>By the end of this practical, students will be able to</p> <ul style="list-style-type: none"> <li>• Identify different tooth numbering systems</li> <li>• Predict age of patients using clinical pictures and study models</li> </ul> <p><u>CLINICAL ORAL EXAMINATION</u></p> <ul style="list-style-type: none"> <li>• By the end of this practical students will able to demonstrate the basic ergonomics, history taking and examination in dental OPD.</li> </ul> <p><u>CHAIR SIDE PREVENTIVE DENTAL PROCEDURES</u></p> <p>By the end of this practical students will able to</p>

	<ul style="list-style-type: none"> <li>• Perform high fluoride gel application, varnish application and Fissure sealant on models</li> <li>• Give Instructions about Oral Hygiene measures to patients</li> </ul> <p><u>INDICES FOR ORAL DISEASES</u></p> <p>By the end of this practical, students will be able to;</p> <ul style="list-style-type: none"> <li>• Demonstrate measurement of different indices on study models</li> <li>• Calculate score for different indices in outdoor patients</li> <li>• Discuss merits and demerits of different oral disease indices</li> </ul> <p><u>PRIMARY PREVENTIVE SERVICES</u></p> <p>By the end of this sessions students will be able to;</p> <ul style="list-style-type: none"> <li>• Demonstrate application of fissure sealants and topical fluoride gel on extracted teeth</li> </ul> <p><u>ART (A TRAUMATIC RESTORATION)</u></p> <ul style="list-style-type: none"> <li>• Perform ART(Atraumatic Restorations) on the basis of their indications, contraindications and method of application.</li> </ul> <p><u>PLAQUE CONTROL METHODS</u></p> <ul style="list-style-type: none"> <li>• Students will be able to perform different mechanical methods of plaque control on Brushing models.</li> <li>3. Disclosing agents activity on patients</li> </ul> <p><u>ORAL HEALTH CARE FOR SPECIAL GROUPS IN DIFFERENT FIELD VISIT</u></p> <p>By the end of these field visits, students will be able to</p> <ul style="list-style-type: none"> <li>• Demonstrate Oral Care for Pregnant, Newborn baby, handicapped child, and for mentally disabled patients</li> <li>• Perform screening of special group for various oral health diseases</li> <li>• Design the dental hygiene care plan for a special group.</li> </ul>
<b>INTERNAL ASSESSMENT</b>	10% (Pre-professional Examination, Midterm Examination, Assignments and Class Presentations)
<b>ANNUAL EXAMINATION</b>	90% (MCQS, OSPE)
<b>COURSE EVALUATION</b>	This course will be evaluated as per JSMU & HEC policies