



**ALTAMASH INSTITUTE OF DENTAL MEDICINE
(JINNAH SINDH MEDICAL UNIVERSITY)**

**BDS Second Year
Community Dentistry
Study Guide**

Introduction:

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

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.

Outcomes:

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

Teaching and learning:

1. Flipped Classroom (FC)
2. Interactive lectures (IL)
3. Field visits (FV)
4. Tutorials (case based discussion)
5. Visual Demonstration (VD)
6. Model Demonstration (MD)
7. Phantom Head Demonstration (PHD)

Assessment tools:

1. Multiple Choice Questions: (MCQs)
 - One Correct Type
 - One Best Type
2. Observed structured practical examination (OSPE)
3. Short Answer Question (SAQ)



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| s.n o. | Topic | Course Objectives: By the end of the course, 2nd year students will be able to: | Teaching method | Assessment Tool |
|---------------|--|--|-----------------------------|------------------------|
| 1 | Dental Public Health | <ul style="list-style-type: none"> • Define health, public health, dental public health, ethics in dentistry • 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. | IL SGD | MCQS |
| 2 | Ethics | <ul style="list-style-type: none"> • Discuss ethical principles for biomedical decision making • Discuss ethics in research and in patient care | IL | MCQ |
| 3 | Health Promotion & Oral Health Education | <ul style="list-style-type: none"> • 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. | IL SGD | MSQ |
| 4 | Dental Auxiliaries | <ul style="list-style-type: none"> • Classify dental auxiliaries. • Discuss the various types of dental auxiliaries • Discuss the various levels of supervision. | IL | MCQ |
| 5 | Measurement Of Oral Diseases | <ul style="list-style-type: none"> • 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. | IL SGD | MCQ |
| 6 | Dental Health Practice: Infection Control & Mercury Safety | <ul style="list-style-type: none"> • 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. | IL SGD | MCQ |



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| | | <ul style="list-style-type: none"> • Discuss public and professional perception of infectious disease. • List safety and environmental issues of dental amalgam | | |
| 7 | Dental Caries | <ul style="list-style-type: none"> • 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. | IL CBL | MCQS |
| S | Periodontal Diseases | <ul style="list-style-type: none"> • 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. | IL | MCQS |
| 9 | Oral Cancer & Other Conditions Of Oral Diseases | <ul style="list-style-type: none"> • 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. | IL` | MCQS |
| 10 | Dental Fluorosis | <ul style="list-style-type: none"> • 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. | IL SGD | MCQS |
| 11 | Primary Health Care | <ul style="list-style-type: none"> • Define disease and illness • Discuss the various levels of prevention • Discuss the Iceberg Phenomenon • Define the characteristics, components and principles of primary health care • Describe the Declaration of Alma Atta. | IL SGD IL | MCQS |
| 12 | Fissure Sealants | <ul style="list-style-type: none"> • Discuss the various types of fissure sealants • Describe the uses, indications, contraindications, application and retention of fissure sealants | IL | MCQS |



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| | | <ul style="list-style-type: none"> Explain the issues related to the use of fissure sealants | | |
| 13 | Plaque Control | <ul style="list-style-type: none"> Discuss the cariogenicity of different sugars Describe the nature of dental plaque. Discuss the rationale and various methods of plaque control | SGD IL | MCQS |
| 14 | Tobacco & Its Restrictions | <ul style="list-style-type: none"> Discuss the types of tobacco Explain the prevalence and pathological effects of tobacco use Discuss the laws proposed to restrict tobacco use Discuss the role of dental professionals in restricting tobacco use. | SGD IL | MCQS |
| 15 | Behavioral Sciences | <ul style="list-style-type: none"> Discuss various behavior patterns. Describe theories of behavior change. Discuss anxiety and fear management in dentistry. | SGD IL | MCQS |
| PRACTICALS : By the end of this practical, students will be able to | | | Teaching method | Assessment Tool |
| 1 | Tooth Numbering Systems | <ul style="list-style-type: none"> Identify different tooth numbering systems Predict age of patients using clinical pictures and study models | VD MD | OSPE |
| 2 | Clinical Oral Examination | demonstrate the basic ergonomics, history taking and examination in dental OPD | PHD | OSPE |
| 3 | Chair Side Preventive Dental Procedures | <ul style="list-style-type: none"> Perform high fluoride gel application, varnish application and Fissure sealant on models Give Instructions about Oral Hygiene measures to patients | PHD VD | OSPE |
| 4 | Indices For Oral Diseases | <ul style="list-style-type: none"> Demonstrate measurement of different indices on study models Calculate score for different indices in outdoor patients Discuss merits and demerits of different oral disease indices | MD | |
| 5 | Primary Preventive Services | Demonstrate application of fissure sealants and topical fluoride gel on extracted teeth | PHD VD | OSPE |



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| 6 | ART (A Traumatic Restoration) | Perform ART(Atraumatic Restorations) on the basis of their indications, contraindications and method of application. | VD | OSPE |
| 7 | Plaque Control Methods | <ul style="list-style-type: none"> • perform different mechanical methods of plaque control on Brushing models. • disclosing agents activity on patients | MD AND VD | MCQS AND OSPE |
| 8 | Oral Health Care For Special Groups In Different Field Visit | <ul style="list-style-type: none"> • Demonstrate Oral Care for Pregnant, Newborn baby, handicapped child, and for mentally disabled patients • Perform screening of special group for various oral health diseases • Design the dental hygiene care plan for a special group. | VD PHD MD | MCQS AND OSPE |

Reading Sources:

Text Books:

Dentistry, Dental Practice and Community by Brain A. Burt and Stephen A.Eklund 7th Edition

Community Dentistry Lab: Have Different Models and Instruments on which students are taught Different Indices such as CPITN or DMFT index, basic dental instruments and tooth numbering systems.

Phantom Heads lab: is used for various purposes for example to Teach Basic Oral Examination, Fissure Sealants application and Fluoride gel application.

Field Visits: Field trips are held at different schools. Our students take complete history and perform Basic Oral Examination, give oral hygiene instructions and teach Tooth Brushing Techniques.

Internet resources: With easy excess to digital library students will use internet resources with added time flexibility to enrich and update their knowledge and its application.

Library: It provides wealth of resources, space to study alone or in a group. It also provide world of books to discover and borrow.

Assessment Criteria :

Knowledge: MCQs (Multiple Choice Questions) are used to asses objectives covered in each module.



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- A MCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.
- Students mark their responses on an answer sheet provided by examination department.

Skills:

- OSPE: Objective Structured Practical Examination:
- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 12-25 stations.
- Each station may assess a practical tasks include practical skills and application of knowledge
- Stations are observed, interactive, application of knowledge based and rest.
- In Observed and Interactive Stations these will be assessed by internal or external examiners through structured viva or a task.
- Application of knowledge Stations: it will be static stations in which there will be pictures, clinical scenarios with related questions for students to answer on the provided answer copy.
- Rests: It is a station where there is no task given and in this time student can organize his/her thoughts.

AIDM Internal Assessment Policy

Students will be assessed to determine achievement of learning objectives through the following:

- Midterm Examination will be scheduled on completion of half of the course
- Mock Examination will be scheduled on completion of whole course
- The method of examination comprises theory exam which includes MCQs, and practical examination by OSPE (Objective Structured Practical Examination).
- Student's behaviors and attitudes will be observed during all academic activities.

Annual Examination:

- Marks of both internal assessments will constitute 20% weightage as per JSMU policy.
- University Annual examination will be based on MCQs and OSPE.



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Attempts: There are 2 attempts in the third professional examination only. 2nd attempt is the supplementary examination which if not passed student has to repeat the year.

Course Evaluation:

- Pass/fail ratio of continuous and summative assessments will be evaluated.
- 75% attendance is mandatory to be eligible for annual professional examination
- Feedback will be taken
 - Regarding course from students and faculty
 - Student feedback regarding faculty
 - Faculty feedback of students

Course Faculty:

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