

**The University of Jordan**  
**Faculty of Dentistry**  
**Department of Paediatric Dentistry, Othodontics and Preventive Dentistry**

**Course Title:** Preventive Dentistry Theory 2

**Course Code:** 1303583

**Prerequisite:** Preventive Dentistry 1

**Course Coordinator:** Dr. Hawazen Sonbol

**Year:** 4<sup>th</sup> year, second semester

**Credit:** 1 credit hour

**Prerequisite for:** None

**Instructor:**

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**Course Objectives:**

By the end of the course students will have attained the following:

1. Gained knowledge and confidence to incorporate the theories of prevention into patient care and treatment planning
2. Use evidence based practices in the prevention of oral diseases
3. Identify different risk groups of oral diseases to implement preventive strategies

**Learning Outcomes:**

Successful completion of this module should lead to the following learning outcomes:

**A. Knowledge and Understanding (student should)**

A1) Understanding the methods of prevention and control of periodontal diseases using teeth cleaning including, scaling and root planning, polishing, tooth brushing, interdental cleaning, toothpastes, frequency of tooth cleaning, duration and technique of tooth cleaning including the evidence supporting their use

A2) Understanding the methods of prevention and control of periodontal diseases using antimicrobials Chlorhexidine (mode of action, mouthwash, oral irrigation, toothpaste, tooth gel, spray, safety and side effects, clinical applications), phenolic compounds and quaternary ammonium compounds.

A3) Understanding the aetiological factors of dental wear and specifically dental erosion and what preventive advice to give in the clinic

A4) Understanding the methods of prevention of dental trauma including primary protection, playground surface, provision of mouthguard protection in sports, criteria of mouthguard construction, mouthguard design, types of mouthguards, and secondary prevention.

A5) To be aware of non-accidental injury and the signs that may indicate physical abuse.

A6) Understanding the methods of prevention of oral mucosal disease including tobacco and alcohol use and the effects of vitamins and essential minerals, and the prevention of oral cancer, candidosis, and viral infections.

A7) Understanding the methods of prevention in the aging dentition including management and prevention of periodontal disease, root caries and tooth wear in the elderly.

## **B. Intellectual skills - with ability to**

B1) Incorporate preventive methods of periodontal disease, erosion, dental trauma and oral mucosal lesions into treatment planning.

B2) Employ the risk management methods to identify patients at high risk of caries.

## **C. Subject specific skills – with ability to**

C1) identifying the need for prevention of dental disease in special groups, reasons for inadequate dental care.

C2) identifying public health problems, dental public health and the private practitioner, and the collection of data in dental public health.

## **C1) Transferable skills – with ability to**

D1) Strike the balance between self-reliance and seeking help when necessary.

D2) Display an integrated approach to the deployment of communication skills.

### **Teaching methods:**

- Duration: 16 weeks, 16 hours in total.
- Lectures: 14 hours, 1 per week + two weeks for exams.

### **Modes of assessment:**

- Midterm exam: 40 points, MCQs.
- Final Exam: 60 points, MCQs.

### **Attendance policy:**

Lecture attendance is obligatory. The handout and recommended textbook are not comprehensive and additional material will be covered in lectures. You are responsible for all material covered in lectures.

### **Expected workload:**

On average you should expect to spend between 3 and 5 hours per week on this course.

### **Course Content & Weight:**

No. of lectures	Lecture title	Material covered
1	Prevention of Periodontal Disease 1 Mechanical Plaque Control	Aetiology of periodontal disease Mechanical plaque control - tooth brushing, interdental cleaning Scaling, root planning
2	Prevention of Periodontal Disease 2 Chemical Plaque Control	Chemical plaque control, Chlorhexidine (mode of action, mouthwash, oral irrigation, toothpaste, tooth gel, spray, safety and side effects, clinical applications), Phenolic compounds. Quaternary ammonium compounds. other Indications for use
3	Prevention of Tooth Wear – Erosion	Causes of tooth wear. Causes of erosion – intrinsic and extrinsic. Factors that increase susceptibility. Management and prevention of erosion
4	Prevention of Oral Mucosal Disease 1	Infections in the immunocompromised – fungal, viral and bacterial Mucositis Management of oncology patients
5	Prevention of Oral Mucosal Disease 2	Prevention of oral cancer – Risk factors Tobacco and alcohol use, Identifying premalignant lesions Effects of Vitamins and essential minerals
6	Prevention of Dental Trauma	Primary protection, playground surface, provision of mouthguard protection in sports, criteria of mouthguard construction, mouthguard design, types of mouthguards, secondary prevention.
7	Non-accidental Injury	Questions to ask in the clinic when child comes with dental trauma What signs are suspicious of non-accidental injury
8	Prevention in the ageing dentition	Management and prevention of periodontal disease, root caries, tooth wear in the elderly.
9	Impairment – Preventing a disability	Classifications of handicap persons, dental handicap, mental handicap, the need for prevention of dental disease in special groups, reasons for inadequate dental care.
10	Fluoride use in the Clinic	Fluoride prevention in the clinic – case reports of children with rampant caries and guidelines on fluoride supplement use and dosage, varnish use etc.
11	Introduction to Dental Public Health	What is public health, identifying a public health problems, dental public health and the private practitioner, collection of data in dental public health, personal and community health care: the similarities and the differences,
12	Epidemiology – 1	Epidemiology-an introduction, early studies, uses of epidemiology, epidemiology and the practitioner, measuring disease, the human populations studied
13	Epidemiology - 2	Epidemiology of caries, periodontal disease, fluorosis with special reference to Jordanian population

### **Feedback:**

Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lectures, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail.

### **References and Supporting Material:**

1. *Strongly recommended:*

**Prevention of Oral Disease.** Murray (2003) Oxford University Press

2. *Also recommended:*

- **Essential Dental Public Health,** Daly, B., Watt, R. Batchelor, (2002) Oxford Press