

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
First Semester

Course Information	
Course Title	Preventive Dentistry
Course Number	ADS 445
Prerequisites	ADS 303
Course Website	-
Instructor	Suhair R. Obeidat BSc ADS, MSDH
Office Location	M5 L-4 Room #7
Office Phone	02/ 7201000 ext. (23847)
Office Hours	Mondays & Wednesdays 1:00 – 2:00 pm
E-mail	saobeidat@just.edu.jo
Teaching Assistant	-
Course Description	
<p>This course will introduce the ADS students to the current knowledge in the prevention of dental diseases and the dental hygienists' important role in this field. The course will cover the dental preventive strategies that could be applied to prevent dental diseases and problems such as dental caries, periodontal diseases, malocclusion, etc. The practical part will be an application of the theoretical knowledge given in the lectures, either by seeing clinical slides, demonstrations, group discussions, or practice on partners. Practical exam will be assigned later</p>	

Text Book	
Title	Clinical practice of the dental hygienist
Author(s)	Wilkins, E
Publisher	Philadelphia, Lea and Febiger
Year	1999
Edition	8 th
Book Website	-
References	<ol style="list-style-type: none"> 1. Geurink, K. V. (2002). <u>Community oral health practice for the dental hygienist</u>. 1st ed., Philadelphia, Pennsylvania, W.B. Saunders Company 2. Darby, M. L. (2002). <u>Mosby's comprehensive review of dental hygiene</u>. 5th ed., St. Louis, Missouri, Mosby, Inc. 3. Jong's community dental health (available in the library) 4. Handouts given by the instructor

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	Week 6	20%
Second Exam	Week 11	20%
Final Exam (practical & theoretical)	Week 15, 16	40%
Lab work	Weekly	5%
Educational aid material	Week 12	15%

Course Objectives	Weights
1. Define preventive dentistry, dental health education, patient education and motivation, and learning	5%
2. Describe the three levels of prevention	5%
3. Discuss the role of the dental hygienists in dental disease prevention and oral health promotion	5%
4. Discuss public health career options for dental hygienists	20%
5. Discuss the benefits of primary prevention programs, including fluoridation, sealants, and oral health education	10%
6. Discuss effective learning and teaching principles that could be applied to educate patients about dental diseases and dental preventive strategies	10%
7. Explain the role of plaque control in preventing dental diseases	5%
8. Identify effective diet analysis and counseling principles	5%
9. Describe the strategies to prevent oral mucosal lesions and orofacial traumas and injuries such as wearing mouth-guards for those practicing sports	5%
10. Describe the importance of community water fluoridation as a public health measure	10%
11. Identify smoking as a risk factor for many dental diseases and explain the interventions that could be applied to help a client stop smoking	10%
12. Discuss the concepts of preventing malocclusion	10%

Teaching & Learning Methods
Lectures, group discussion, homework assignments, reading assignments, lab demonstration and practice, handouts

Related Objective(s)	Learning Outcomes
1	Correctly define preventive dentistry
1, 2, 7, 8	Mention examples of every level of dental prevention
3	Appreciate role of DH in preventing dental diseases and promoting oral health
3, 4	Discuss career options of DH in dental public health
5, 8, 10	Indicate examples of preventive programs that could be applied in the community to prevent dental diseases
6	Discuss effective learning principles that could be utilized to educate individuals and public about oral health
7	Discuss role of plaque as the main etiologic factor to dental and periodontal diseases and the importance of plaque control in preventing dental diseases
7	Mention mechanical and chemical methods of plaque control such as brushing, flossing, auxiliary aids, etc.
9	Mention examples of preventive measures that could be utilized to prevent oral mucosal lesions and orofacial traumas
12	Mention examples of preventive measures that could be utilized to prevent malocclusion
10	Discuss mechanisms of fluoride in preventing dental caries
11	Understand how smoking could be a risk factor for oral cancer and other dental diseases

Useful Resources

Course Content

Week	Topics	Chapter in Text (handouts)
1	Introduction into the course	Orientation
2	Preventive dentistry overview -3 levels of prevention -Oral health education and motivation -Dental hygienist's role in prevention and promotion	Reading assignments: DH career options in dental public health Wilkins CH. 22
3	Plaque control/Oral health - Dental plaque role in dental disease formation - Plaque detection-Disclosing agent - Brushing - Flossing - Patient education about plaque and its control	Wilkins Ch 16, 23, 24
4	Diet analysis & nutritional counseling I	Wilkins Ch 28
5	Diet analysis & nutritional counseling II	Wilkins Ch 28
6	First Intra-semester Exam	Study well!!!
7	Dental Caries Prevention-Fluoride I - Mechanism of D. caries formation (Demineralization) - Fluoride role in caries prevention (Remineralization) - Systemic Fluoride –.fluoridated water, dietary fluoride supplements	Wilkins Ch 29 First draft of educational material due
8	Dental Caries Prevention-Fluoride II - Topical Fluoride- Mouth rinses, varnish, gel, tooth paste - Professional fluoride application-NaF, APF	Wilkins Ch 29
9	Dental Caries prevention-pit and fissure sealants	Wilkins Ch 30
10	Prevention of oral mucosal lesions	Handouts
11	Second Intra-semester Exam	Study Hard
12	Prevention of orofacial traumas	Handouts
13	Prevention of occlusal problems/malocclusion	Guest Speaker Wilkins Ch.15 Due date of educational material
14	Tobacco and oral health Tobacco cessation interventions	Wilkins Ch. 27

15	Prevention of oral cancer & precancerous lesions Oral cancer professional & self-examination	Handouts
16	Final Exams Week (Final exam date to be announced)	GOOD LUCK

Additional Notes	
Assignments	<u>Homework and reading assignments:</u> students are expected to complete the required reading and homework assignments mentioned in the course and lab schedules prior to that assigned lab or lecture.
Exams	<u>1st and 2nd intra-semester Exams:</u> two exams will be given in the date assigned for each exam in the course schedule. <u>Final exam:</u> comprehensive final examination will be administered in the final exams week.
Cheating	Cheating the commitment of the Acts of Cheating and deceit such as copying during examinations is dishonest and will not be tolerated; JUST policy will be applied.
Attendance	<u>Student attendance and responsibility:</u> students are required to attend 90% of the course lectures and labs. For <i>necessary excused absence</i> e.g. family emergency, extreme illness, etc., please contact course coordinator immediately (within one week). Lab session missed due to accused absence must be made on another session as arranged by the coordinator. <i>Each Unexcused absence</i> will result in <u>one point deduction</u> from the overall course grade.
Workload	-
Graded Exams	-
Participation	-
Laboratory	<ul style="list-style-type: none"> - <i>Small group and class discussions:</i> students are required to participate in the lab discussions mentioned in the schedule by preparing for that discussion prior to the lab session. - <i>Diet analysis and counseling:</i> each student is required to complete one diet analysis and counseling on a partner by preparing a 3-days food list prior to the designed lab date. - <i>Professional Fluoride and sealant application:</i> each student is required to apply one topical fluoride (NaF or APF gel) and one sealant on a partner. - <i>Mouth-guard:</i> each student is required to fabricate a mouth guard by the end of the semester.
Projects	<u>Educational aid:</u> Each student is required to write (in Arabic) and develop an educational material for the public on one of the dental preventive strategies that could be used to educate public and patients how to prevent dental caries, periodontal diseases, and other dental diseases