

University of Detroit Mercy School of Dentistry
Multidisciplinary and Interdepartmental
Course Syllabus

Strategies for the Prevention of Oral Diseases
DRD 829/DH 814

Course Information

Web Address: <http://knowledge.udmercy.edu>

Course Director:

Kenneth Hillenburg, DDS, MS Office: 364 Office Hours: Email for appointment. Phone: 313-494-6665 or 517-673-6000 Cell Email: hillenkl@udmercy.edu

Winter Term , 2008

DS2 Students (Class of 2010)

DH1 Students (Class of 2009)

Room 2460, Mondays, 2:00 p.m. – 3:50 p.m.

Room 1460

Credit Hours: Dental 2.0
Dental Hygiene 2.0

Prerequisites:

None

Lecturers/Support Faculty

Lecturers:

K. Hillenburg, DDS, MS

K. Werth, RDH, MA

D. Hoelscher, DDS, MS

D. Mattana, RDH, MS

J. Loewen, RDA, MS

J. Geist, DDS, MS

M. Buehner, RDH, RDA, MSHA

S. Ceresnie, PhD

Academic Policies:

All policies in the School of Dentistry Academic Policies Handbook including but not limited to academic integrity, mandatory attendance, professional decorum & dress code, identification (ID) badges, preclinical and classroom decorum, use of cell phone and electronic devices, examination policies and exam/quizz absences apply.

Accommodations:

If you would like to request a classroom, testing, preclinical, clinical, or other accommodation because of a legally protected disability, or if you might require any special assistance in the event of an emergency or evacuation, please contact the University of Detroit Mercy's Office of University Academic Services (UAC) at 313-578-0310 or email your request for information to gallegem@udmercy.edu

Student Evaluation of Instruction

Student feedback is valued by the faculty and the administration. All students are required to complete the School of Dentistry's on-line course evaluation by a specified date. Failure to comply by posted deadline dates will result in the receipt of an F (Failing) grade of record for the Evaluation Responsibility Course. Only constructive, professional recommendations will be reported and considered.

Course Description

Purpose of the course:

This course is designed to introduce concepts and strategies utilized in the promotion of oral health and prevention of oral diseases for the individual patient. Strategies for the prevention of periodontal diseases will build upon information already learned in other courses, including DPE 820/DH 809, The Biological Basis To Oral Soft Tissue Disease and concurrently in DPE 821/DH823, Periodontal Therapy I. Strategies for the prevention of dental caries will build upon information already learned in DBS 825/827, Microbiology I & II and in BS 814, Microbiology.

Course Goals:

- Assist the student in the application of critical thinking skills necessary to develop a comprehensive oral health preventive program for individual patients.

Course Objectives:

At the conclusion of the course, the dental student will be able to:

- Function as an integral member of the oral health team to encourage oral health promotion and provide preventive therapies for individual patients.
- Utilize baseline information to assess patient needs in the prevention of caries and periodontal diseases.

- Utilize information in regard to epidemiology, microbiology, and pathogenesis of dental caries to assess patient prevention needs.
- Identify intervention strategies for patients exhibiting active or rampant caries and/or periodontal diseases.
- Outline a fluoride program for the individual patient.
- Evaluate oral health products making a prevention claim.
- Explain the role of diet in the caries process and the role of nutrition in periodontal diseases.
- Identify methods for mechanical plaque removal and provide recommendations for individual patients.
- Discuss antimicrobial agents in the prevention of oral diseases and provide recommendations for individual patients.
- Utilize principles of adult learning and communication to increase patient adherence to preventive recommendations (change behavior).
- Provide tobacco cessation education and counseling for patients using tobacco products.
- Describe the origins of halitosis and identify opportunities for patients to reverse this process.

Dental Hygiene Specific Instructional Objectives:

At the conclusion of learning unit one, the dental hygiene student will be able to:

- Utilize baseline information to assess patient needs in the prevention of caries and periodontal diseases.
- Utilize information in regard to epidemiology, microbiology, and pathogenesis of dental caries to assess patient prevention needs.

At the conclusion of learning unit two, the dental hygiene student will be able to:

- Utilize principles of adult learning and communication to increase patient adherence to preventive recommendations (change behavior).

At the conclusion of learning unit three, the dental hygiene student will be able to:

- Identify intervention strategies for patients exhibiting active or rampant caries and/or periodontal diseases.

At the conclusion of learning unit four, the dental hygiene student will be able to:

- Outline a fluoride program for the individual patient.

At the conclusion of learning unit five, the dental hygiene student will be able to:

- Evaluate oral health products making a prevention claim.

At the conclusion of learning unit six, the dental hygiene student will be able to:

- Explain the role of diet in the caries process and the role of nutrition in periodontal diseases.

At the conclusion of learning unit seven, the dental hygiene student will be able to:

- Identify methods for mechanical plaque removal and provide recommendations for individual patients.

At the conclusion of learning unit eight, the dental hygiene student will be able to:

- Discuss antimicrobial agents in the prevention of oral diseases and provide recommendations for individual patients.

At the conclusion of learning unit nine, the dental hygiene student will be able to:

- Provide tobacco cessation education and counseling for patients using tobacco products.

At the conclusion of learning unit ten, the dental hygiene student will be able to:

- Describe the origins of halitosis and identify opportunities for patients to reverse this process.

At the conclusion of learning unit eleven, the dental hygiene student will be able to:

- Function as an integral member of the oral health team to encourage oral health promotion and provide preventive therapies for individual patients.

Instructional Methods:

Instructional methods may include online quizzes, lectures, small group discussions, hands-on practice in the simulation or computer lab, and completion of a report.

School of Dentistry Competencies

Competency-based Education: Assumes that learning to become an entry-level professional is a progression through stages from novice to competent.

Stages of Progression to Competence:

F or Foundation Knowledge: Basic knowledge, skills, and attitudes needed to begin the journey to competence.

N or Novice Level: Ability to articulate or describe the appropriate skills, knowledge, and professional attitudes. Novices need structure, clarity of goals, single and clearly explained approaches.

B or Beginner Level: Combines the appropriate skills, knowledge, and professional attitudes, all of which are performed with guidance and correction.

C or Competent Level: Combines the appropriate supporting skills, knowledge, and professional attitudes, all of which are performed reliably without assistance.

	Competencies of the Graduating Dental Student	Addressed	Evaluated	Method
1.	The graduating student obtains, records, updates and organizes accurate and completed medical/dental histories including pertinent psychological and socioeconomic information.	YES	N	Written Evaluation NA NA
2.	The graduating student performs, records and organizes a physical assessment appropriate for dental care.	NO	NO	NA NA NA
3.	The graduating student determines differential, provisional or definitive diagnoses by correlating and interpreting examination and assessment findings.	NO	NO	NA NA NA
4.	The graduating student develops alternative treatment plans which are sequenced to address the chief complaint, eliminate oral disease, restore function, and maintain health, and prevent oral disease consistent with assessment and diagnoses.	NO	NO	NA NA NA
5.	The graduating student establishes with the patient a mutually acceptable treatment plan.	NO	NO	NA NA NA
6.	The graduating student monitors and provides for patient comfort associated with dental care.	NO	NO	NA NA NA
7.	The graduating student delivers and/or manages the planned treatment in sequence and in accordance with accepted standards of care.	YES	N	Written Evaluation NA NA
8.	The graduating student promotes health maintenance and disease prevention.	YES	N	Written Evaluation NA NA

	Competencies of the Graduating Dental Student	Addressed	Evaluated	Method
9.	The graduating student applies the principles of infection control and environmental safety.	NO	NO	NA NA NA
10.	The graduating student makes professional decisions affecting the practice of dentistry based on values that satisfy legal and ethical principles and service to society.	NO	NO	NA NA NA
11.	The graduating student performs routine self evaluation.	NO	NO	NA NA NA
12.	The graduating student applies business and practice management skills.	NO	NO	NA NA NA
13.	The graduating student demonstrates interpersonal skills to function successfully in a multicultural work environment.	NO	NO	NA NA NA
14.	The graduate critically evaluates the validity of new information, new products, and/or techniques and their relevance to the practice of dentistry.	YES	N	Written Evaluation Written Project/Report NA

	Competencies of the Graduating Dental Hygiene Student	Addressed	Evaluated	Method
1.	The graduate demonstrates interpersonal communication skills to function successfully in a multicultural work environment with diverse populations.	NO	NO	NA NA NA
2.	The graduate makes professional decisions affecting the practice of dental hygiene that satisfy legal, societal and ethical principles.	NO	NO	NA NA NA
3.	The graduate performs routine evaluation of self and staff members and takes corrective action to address perceived deficiencies.	NO	NO	NA NA NA
4.	The graduate critically evaluates the validity of new information, new products, and/or techniques and their relevance to the practice of dental hygiene.	YES	N	Written Evaluation Written Project/Report NA
5.	The graduate applies business and practice management skills.	NO	NO	NA NA NA
6.	The graduate promotes health maintenance and disease prevention.	YES	N	Written Evaluation NA NA
7.	The graduate applies the principles of infection control and environmental safety.	NO	NO	NA NA NA
8.	The graduate obtains, records, updates and organizes accurate and complete medical/dental histories including pertinent psychological and socioeconomic information.	NO	NO	NA NA NA
9.	The graduate performs, records and organizes a physical assessment appropriate for dental care.	NO	NO	NA NA NA

	Competencies of the Graduating Dental Hygiene Student	Addressed	Evaluated	Method
10.	The graduate determines differential, provisional or definitive dental hygiene diagnoses related to and congruent with the diagnosis of the dentist and other health professionals.	NO	NO	NA NA NA
11.	The graduate develops alternative dental hygiene care plans which are sequenced to address patients' needs, consistent with assessment and diagnoses.	YES	N	Written Evaluation NA NA
12.	The graduate establishes with the patient a mutually acceptable dental hygiene care plan.	YES	N	Written Evaluation NA NA
13.	The graduate monitors and provides for patient comfort associated with dental hygiene care.	NO	NO	NA NA NA
14.	The graduate delivers and/or manages planned dental hygiene treatment and education in sequence and in accordance with accepted standards of care.	YES	N	Written Evaluation NA NA

Course Policies

Attendance

The attendance policy is in accordance with the Academic Policies Handbook of the School of Dentistry. Prompt attendance for all classroom sessions is expected.

Textbook and Resource Materials

Norman O. Harris, Franklin García-Godoy, Primary Preventive Dentistry, sixth edition, Pearson Prentice Hall, 2004. (ISBN 0-13-091891-1)

Course handouts, articles, and web site addresses will be distributed to provide the most current information.

Evaluation and Grading

Grading Scale, Dental

A	=94-100%
A-	=90-93%
B+	=87-89%
B	=83-86%
B-	=80-82%
C+	=77-79%
C	=73-76%
C-	=70-72%
D	=60-69%
F	=below 60%
W	Withdraw, no credit
I	Incomplete, a temporary grade not of record

Grading Scale, Dental Hygiene

A	=94-100%
A-	=90-93%
B+	=87-89%
B	=83-86%
B-	=80-82%
C+	=77-79%
C	=73-76%
C-	=70-72%
D+	=67-69
D	=60-66
F	=below 60%
W	Withdraw, no credit
I	Incomplete, a temporary grade not of record

Course Grade Components

Quizzes	10%
Report	20%
Midterm Exam	35%
Final Exam	<u>35%</u>
	100%

Required but not graded:

- **Completion of CD Exercise.**
- **Mechanical Aids Lab Participation**
- **Two Online Lecture/Assignments**

Course Evaluation Methods

Quizzes

Quizzes are scheduled to be completed online **but quizzes may also be given unannounced during class**. Scheduled quizzes will be posted on the course website approximately three days before they are due and must be completed by 5:00 p.m. of the due date. If for some reason the quiz is not posted as scheduled, students will be notified as soon as it is posted and the due date will be announced by email. The average of all quiz scores represents **10%** of the course grade. Students receive credit for each quiz according to the score earned. Uncompleted quizzes or quizzes completed after the due date will receive a zero. If you are unable to complete a quiz due to technical problems with the computer or browser, send an email **immediately** to both course directors and the problem can be resolved and you will be instructed how to proceed. The lowest quiz score will be dropped before computing the total quiz score for the course.

Product Evaluation Report

Students will choose an oral health product from an established list and after researching the product, students will prepare a report. *See report guidelines including evaluation criteria and a model provided.* The report will be submitted by the due date (hard copy). Please be sure to check spelling and grammar. After correction and grading, students are required to resubmit by digital dropbox on the course website.

The report represents **20%** of the course grade (10% for the original submission and 10% for the digital dropbox submission).

Midterm Examination

See the course schedule for the date of the examination. This examination is based on all information and reading assignments to date. Questions may be based on patient cases. Practical application of information to patient care will be emphasized. The examination represents **35%** of the course grade.

The examination will last two hours.

Students wishing to review the midterm must do so by appointment **before** April 11, 2008.

Final Examination

The Office of Academic Administration schedules the examination sometime during final exam week. Again, questions may be based on patient cases and practical application of information to patient care will be emphasized. The examination is cumulative, but an emphasis will be placed on information presented after the midterm examination. The examination represents **35%** of the course grade.

COURSE SCHEDULE 2008

DATE	TOPIC	HOURS	READINGS	FACULTY
January 28 Session 1	Course Introduction & Overview. Strategies for the prevention of caries.	2.0		Hillenburg
February 4 Session 2	Quiz # 1 Due 5:00 p.m. Introduction to Preventive Needs Assessment and Planning Working with Adult Patients: Principles of Learning	1.0 1.0	Harris, Chaps. 1 & 2. Harris, Chaps. 3 & 4.	Mattana Werth
February 11 Session 3	Quiz # 2 Due 5:00 p.m. Group A , Mechanical Aids Lab (Rm 1460) Group B, C , Work on Caries CD. (Online Lecture: Tobacco Cessation CE Methods & Scientific Evidence.)	2.0	Harris, Chaps. 5 & 7.	Faculty
February 18 Session 4	Quiz # 3 Due 5:00 p.m. Group B , Mechanical Aids Lab (Rm 1460) Group A, C , Work on Caries CD. (Online Lecture: Tobacco Cessation CE, Methods & Scientific Evidence.)	2.0	Harris, Chaps. 10 & 14.	Faculty
February 25 Session 5	Group C , Mechanical Aids Lab (Rm 1460) Group A, B , Work on Caries CD. (Online Lecture: Tobacco Cessation CE, Methods & Scientific Evidence.)			Faculty

DATE	TOPIC	HOURS	READINGS	FACULTY
March 3 Session 6	Quiz # 4 Due 5:00 p.m. Communication Skills and Practice	2.0	Harris, Chap. 16.	Werth
March 10 Session 7	Midterm Examination	2.0		Faculty
March 17 Session 8	Product Evaluation Dentifrices	1.0 1.0	Harris, Chap. 6	Mattana Buehner
March 24 Session 9	Quiz # 7 Due 5:00 p.m. The medical model of caries treatment--Old Paradigm and New Paradigm Caries Risk Assessment & Clinical Form Rampant Caries Treatment Product Evaluation Hard Copy Due	2.0	Harris, Chap. 12, Chap. 23 pp. 652-662.	Holescher
March 31	No School--Spring Break			
April 7 Session 10	Quiz # 6 Due 5:00 p.m. Tobacco Cessation Counseling: How to Help Your Patients Quit Working with Difficult Patients	1.0 1.0		Loewen Ceresnie/Werth
April 14 Session 11	Quiz # 5 Due 5:00 p.m. Oral and Systemic Effects of Tobacco Halitosis	2.0	Harris, Chap. 22 pp. 605-621	Geist

DATE	TOPIC	HOURS	READINGS	FACULTY
April 21 Session 12	Quiz # 8 Due 5:00 p.m. History, Metabolism and Mechanism of Fluoride Pre and Post Eruptive, Systemic/ Topical Fluorides: Professional and Home Use Product Evaluation Digital Copy Due	2.0	Harris, Chap. 8 & 9.	Mattana
April 28 Session 13	Quiz # 9 Due 5:00 p.m. Mouthrinses and Antimicrobial Irrigation of the sulcus	2.0	Handouts Harris, Chap. 23, pp. 662-671	Mattana