Course Syllabus Reporting Form  
New York University College of Dentistry

Course Title: Fundamentals of International Dental Public Health Practice
Course Number: U10.2510.001
No. of Credits: 3
Academic Term: Spring
Course Hours: One 2-hour lecture per week for a full semester

Course Director: YiHong Li, DDS, MPH, Dr.PH
Department: Basic Science and Craniofacial Biology
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E-mail: yihong.li@nyu.edu
Phone: (212) 998-9607
Office Hours: By appointment

Course Requirements:
1. Students are expected to attend all class sessions. There are no makeup opportunities for missed sessions.
2. Students are responsible for all assigned readings and lecture materials.
3. Students must do all of the required readings before each class and participate in class discussions about the readings and the issues that are raised.

Course Evaluation:
Final grade will be based on class participation (40%) and written work (60%). The written work includes:
1. short assays (2-page summary) based on class required readings;
2. two case-study presentations on specific topics related to oral health issues as midterm examinations;
3. a term-paper (10-15 pages, typed, double-spaced) on oral health program development or oral health care system in a country of their choice.

Required Texts:

Recommended Texts:
**Course Description:** Dental, oral and craniofacial diseases and disorders are amongst the most common health problems in all regions of the world. Caries, periodontal infections, orofacial pain, temporomandibular joint diseases (TMD), and salivary gland dysfunction in the form of Sjogren's syndrome, significantly affect the quality of life of people around the world due to their high prevalence and incidence. Some of these conditions are more prevalent in certain countries or regions, while others are found virtually in all countries, but to varying degrees. Other oral health burdens are imposed by a variety of oral diseases and disorders with oral manifestations, such as HIV/AIDS, birth defects, head and face injuries, and head and neck cancers. As oral health is part of total health and is essential to quality of life, the World Health Organization, through international collaborative partnerships, gives priority to integration of oral health with general health programs at community or national levels for oral health promotion and disease prevention. This course will cover several thematic units (basic philosophy, epidemiology of oral diseases, etiologies of oral disease, social and culture risk factors, prevention of oral disease in public health), each of which will include a lecture component and a group discussion component.

**Course Goals:** To teach the students the core theory and practice of public health dentistry with an emphasis on basic knowledge and skills necessary for conducting oral epidemiological and experimental research; planning and evaluating dental public health programs; and understanding the organization, delivery, and financing of dental health care.

**Course Objectives:** By the end of this course, the student will be able to:

1. understand the core functions of dental public health and define the following key terms: program planning, program goals and objectives, community, resource evaluation, needs assessment, program implementation and program evaluation.
2. determine the association between social, economic and behavioral risk factors and national prevalence of dental caries, periodontal disease, oral cancer, and other oral and craniofacial diseases and disorders;
3. understand the cross national dental care delivery systems and the variety of financing mechanisms that are available to meet the needs of specific population groups;
4. discuss the benefits and efficacy/effectiveness of health promotion program including tobacco cessation, diet and nutrition counseling, use of fluorides, sealants and other measures that promote optimal health and prevent oral diseases in the community;
5. describe basic strategies and administrative means for community-based preventive program;
6. understand the seven-step model for assessing oral-health-care needs and apply theories of community-based oral health promotion programs for targeted populations;
7. discuss the advantages and disadvantages for the development of national guidelines for preventive oral diseases.
## Course Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Lecture Topic</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/24</td>
<td>6:45-8:25 p.m.</td>
<td>Introduction and overview</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>1/31</td>
<td>6:45-8:25 p.m.</td>
<td>The methods of oral epidemiology - I.</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>2/7</td>
<td>6:45-8:25 p.m.</td>
<td>The methods of oral epidemiology - II.</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>2/14</td>
<td>6:45-8:25 p.m.</td>
<td>Socioeconomic impact on oral diseases, conditions, and treatment</td>
<td>Dr. G. Cruz</td>
</tr>
<tr>
<td>2/21</td>
<td>6:45-8:25 p.m.</td>
<td>Community-based risk factor identification for dental caries</td>
<td>Dr. Y. Li</td>
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<tr>
<td>2/28</td>
<td>6:45-8:25 p.m.</td>
<td>Global Oral Data Bank</td>
<td>Dr. Y. Li</td>
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<tr>
<td></td>
<td></td>
<td>Case study* -- Comparison of oral disease profiles between industrialized and developing countries</td>
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<tr>
<td>3/7</td>
<td>6:45-8:25 p.m.</td>
<td>The scientific basis for preventive programs for oral diseases I – fluoride, ART, and sealant</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>3/14</td>
<td>6:45-8:25 p.m.</td>
<td>The scientific basis for preventive programs for oral diseases II</td>
<td>Dr. Y. Li</td>
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<tr>
<td></td>
<td></td>
<td>Case study* -- Review clinical trials</td>
<td></td>
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<tr>
<td>3/21</td>
<td></td>
<td>Spring recess – no class</td>
<td></td>
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<tr>
<td>3/28</td>
<td>6:45-8:25 p.m.</td>
<td>The seven-step model for assessing oral-health-care needs for special needs populations and a WHO Guideline</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>4/3</td>
<td>6:45-8:25 p.m.</td>
<td>Oral health and general health, the systemic links.</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>4/10</td>
<td>6:45-8:25 p.m.</td>
<td>Nutrition, diet and oral health -- Global impact</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>4/17</td>
<td>6:45-8:25 p.m.</td>
<td>New guidelines and evidence-based recommendations for infection control in dental health-care settings</td>
<td>Dr. Y. Li</td>
</tr>
<tr>
<td>4/24</td>
<td>6:45-8:25 p.m.</td>
<td>Continuous improvement of oral health in the 21st century – the role of WHO and PAHO in promoting oral health</td>
<td>Dr. G. Cruz</td>
</tr>
<tr>
<td>5/2</td>
<td>6:45-8:25 p.m.</td>
<td>Oral health surveillance systems and oral health indicators</td>
<td>Dr. J. Kumar</td>
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<tr>
<td>5/9</td>
<td>6:45-8:25 p.m.</td>
<td>Final Exam – Students’ term papers due</td>
<td>Dr. Y. Li</td>
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*Student presentation - a critical review of a topic from dental literatures.*

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**Fundamentals of International Dental Public Health Practice**

11/6/2008
Course Topics and Readings:

1. **Introduction and overview: Basic principles of international dental public health – the scope of the discipline, definition of dental public health, structure and organization of the dental public health professions.**

   **Readings:**

2. **The methods of oral epidemiology - I. Indices, measurements of oral diseases.**

   **Readings:**

3. **The methods of oral epidemiology - II. The distribution and trend of oral diseases in the United States and the global profile.**

   **Readings:**

4. **Socioeconomic impact on oral diseases, conditions, and treatment.**

   **Readings:**


Readings:

6. Case studies* -- Global Oral Data Bank. Comparison of oral disease profiles between industrialized and developing countries.

*Student presentation - a critical review of oral health profiles of selected countries based on the dental literature and information available in the Global Oral Data Bank.

7. The scientific basis for preventive programs for oral diseases I. – The impact of community water fluoridation, ART and school-based sealant programs on caries prevention.

Readings:

8. The scientific basis for preventive programs for oral diseases II – clinical trials

Readings:


Readings:
• Dicks JL. Outpatient Dental Services For Individuals With Mental Illness: A Program Description. Spec Care Dentist 1995 Nov-Dec; 15(6):239-42.

10. Case study -- Oral health and general health, the systemic links.

Readings:


Readings:

Readings:
- Controlling Occupational Exposure to Bloodborne Pathogens in Dentistry. US Department of Labor, Occupational Safety and Health Administration. 1992


Readings:


Readings:

Fundamentals of International Dental Public Health Practice
11/6/2008