OHNEP: the Nursing Voice for Interprofessional Oral Health Education and Practice

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NYU Rory Meyers College of Nursing
The Oral Health Nursing Education & Practice (OHNEP) program thanks its funders:

- National Interprofessional Initiative on Oral Health
- Delta Dental®
- Washington Dental Service Foundation
- DentaQuest Foundation
OHNEP Program Aims

• Advance a national oral health agenda for the nursing profession
• Build interprofessional oral health workforce capacity
• Integrate oral-systemic health into undergraduate and graduate nursing programs nationwide
  – Faculty development
  – Curriculum integration
  – Establishment of “Best Practices” in clinical settings
### United States Oral Health Epidemic

<table>
<thead>
<tr>
<th>Morbidity</th>
<th>Access</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>• About <strong>half of all children</strong> and <strong>two-thirds of adolescents</strong> aged 12–19 years from lower income families have untreated tooth decay</td>
<td>• About <strong>108 million people</strong> in the U.S. have no dental insurance</td>
<td>• Employed adults lose more than <strong>164 million hours</strong> of work each year due to oral health problems or dental visits</td>
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<tr>
<td>• <strong>Over 40% of poor adults</strong> have untreated tooth decay</td>
<td>• The U.S. has about 141,800 working dentists and 174,100 dental hygienists, but <strong>4,230 Dental Health Professional Shortage Areas</strong> with <strong>49 million people</strong> living in them</td>
<td>• <strong>51 million school hours</strong> are lost annually because of oral health problems or dental visits</td>
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<tr>
<td>• <strong>One-fourth</strong> of U.S. adults aged 65 or older have lost all of their teeth</td>
<td></td>
<td>• In 2010, an estimated <strong>$108 billion</strong> was spent on dental services in the United States</td>
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</tbody>
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(CDC, 2011 & 2013; HRSA, 2014)
Why Nurses?

- **Largest Health Profession**
  - 3.1 million Registered Nurses (RNs)
  - 200,000 Nurse Practitioners (NPs)
    - Half are primary care providers
  - 13,000 Nurse-Midwives (NMs)

- **Most Trusted Profession**
  - Providing care and promoting health

- **Nurses are Everywhere**
  - Hospitals, ambulatory centers, schools, camps, workplace, retail clinics, homecare
Interprofessional Oral Health Care Model

Increased Oral and Overall Health Outcomes

Increased Access to Oral Healthcare, Reduced Oral Health Disparities

Community

Health & Education Systems

Collaborative Practice

Builds Primary Care Oral Health Workforce Capacity

IP Oral-Systemic Education

Fragmented Oral Healthcare System

National Oral Health Needs

Smiles for Life: A National Oral Health Curriculum

For Individual Clinicians
We've made it easy for individual physicians, physician assistants, nurse practitioners, students, and other clinicians to access the curriculum and learn on their own time and at their own pace. Each of the courses is available online. Free Continuing Education credit is available.

For Educators
This curriculum format can be easily implemented in an academic setting. Included is a comprehensive set of educational objectives based on the Accreditation Council for Graduate Medical Education (ACGME) competencies, test questions, resources for further learning, oral health web links, an implementation guide, and detailed module outlines.

Course Quick Links
- Course 1: The Relationship of Oral to Systemic Health
- Course 2: Child Oral Health
- Course 3: Adult Oral Health
- Course 4: Acute Dental Problems
- Course 5: Oral Health & the Pregnant Patient
- Course 6: Care of Risk Assessment, Inadequate Yomoth & Counseling
- Course 7: The Oral Examination
- Course 8: Geriatric Oral Health

Answering the Call: Joining the Fight for Oral Health
Watch this informative and inspiring video which outlines both the challenge and progress in improving oral health as a vital component of effective primary care. Click the full screen icon in the bottom right hand corner of the video thumbnail to view it full-sized. This video is approximately seven minutes in length.

An extended version (21 minutes) of this documentary is also available.

A Product of:
- STFM: Society of Teachers of Family Medicine
- American Association of Public Health Dentistry
- American Academy of Family Physicians
- NONPF

Endorsed by:

COURSES COMPLETED FOR CE CREDIT: 73,000

www.smilesforlifeoralhealth.org

http://ajph.aphapublications.org/doi/abs/10.2105/AJPH.2014.302495
Faculty, Preceptor & Community

IPE Oral Health Development Workshops
Interprofessional Oral Health Clinical Curriculum Integration

- Collaborative courses
- IP Clinical Rotations
  - Nursing/Dental
  - Nursing/Dental/Medical
- Simulation
- Virtual Cases
- Service Learning
Interprofessional Oral-Systemic Health Experience at NYSIM

Standardized Patient Experience
I. Team Brief (5 min):
II. History and physical exam (45 min)
III. Debriefing (10 min)

Case Study Discussion
I. Team Brief (5 min)
II. Case Study Discussion (40 min)
III. Debriefing (15 min)
Please answer the following questions by filling in the circle that most accurately reflects your opinion about the following interprofessional collaboration statements: 1 = strongly disagree; 2 = moderately disagree; 3 = slightly disagree; 4 = slightly agree; 5 = moderately agree; 6 = strongly agree; na = not applicable

Please rate your ability for each of the following statements:

**Before** participating in the learning activities I was able to:

<table>
<thead>
<tr>
<th>Communication</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>na</th>
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<tbody>
<tr>
<td>1. Promote effective communication among members of an interprofessional (IP) team*</td>
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<td>2. Actively listen to IP team members' ideas and concerns</td>
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<td>3. Express my ideas and concerns without being judgmental</td>
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<td>4. Provide constructive feedback to IP team members</td>
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<td>5. Express my ideas and concerns in a clear, concise manner</td>
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<thead>
<tr>
<th>Collaboration</th>
<th>1</th>
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<tr>
<td>6. Seek out IP team members to address issues</td>
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<td>7. Work effectively with IP team members to enhance care</td>
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<td>8. Learn with, from and about IP team members to enhance care</td>
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<tr>
<th>Roles and Responsibilities</th>
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<tr>
<td>9. Identify and describe my abilities and contributions to the IP team</td>
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<td>10. Be accountable for my contributions to the IP team</td>
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<td>11. Understand the abilities and contributions of IP team members</td>
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<td>12. Recognize how others' skills and knowledge complement and overlap with my own</td>
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<tr>
<th>Collaborative Patient/Family-Centered Approach</th>
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<tr>
<td>13. Use an IP team approach with the patient** to assess the health situation</td>
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<td>14. Use an IP team approach with the patient to provide whole person care</td>
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<td>15. Include the patient/family in decision-making</td>
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<tr>
<th>Conflict Management/Resolution</th>
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<th>2</th>
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<tbody>
<tr>
<td>16. Actively listen to the perspectives of IP team members</td>
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<td>17. Take into account the ideas of IP team members</td>
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<td>18. Address team conflict in a respectful manner</td>
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<thead>
<tr>
<th>Team Functioning</th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>19. Develop an effective care*** plan with IP team members</td>
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<td>20. Negotiate responsibilities within overlapping scopes of practice</td>
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*The patient's family or significant other, when appropriate, are part of the IP team.

**The word "patient" has been employed to represent client, resident, and service users.

***The term "care" includes intervention, treatment, therapy, evaluation, etc.

Adapted from MacDonald, Archibald, Trumpower, Jelley, Cragg, Casimiro, & Johnstone, 2009.
TOSH IP Experience:
ICCAS Mean Pre and Post Scores by Student Type
(2013-2015)
(p<0.001, two-tailed)

<table>
<thead>
<tr>
<th>Student Type</th>
<th>Pre</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing (n=225)</td>
<td>4.91</td>
<td>5.62</td>
</tr>
<tr>
<td>Dentistry (n=233)</td>
<td>4.71</td>
<td>5.51</td>
</tr>
<tr>
<td>Medicine (n=445)</td>
<td>4.56</td>
<td>5.34</td>
</tr>
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Mean ICCAS Score

- Nursing (n=225)
- Dentistry (n=233)
- Medicine (n=445)
### Pediatric Oral Health
#### Interprofessional Clerkship at Bellevue

<table>
<thead>
<tr>
<th>Patient 1</th>
<th>Patient 2</th>
<th>Patient 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>NP reviews chart</td>
<td>MD reviews chart</td>
<td>DDS reviews chart</td>
</tr>
<tr>
<td>NP takes history</td>
<td>MD takes history</td>
<td>DDS takes history</td>
</tr>
<tr>
<td>DDS does HEENOT exam and FV</td>
<td>NP does HEENOT exam and FV</td>
<td>MD does HEENOT exam and FV</td>
</tr>
<tr>
<td>All collaborate for plan</td>
<td>All collaborate for plan</td>
<td>All collaborate for plan</td>
</tr>
<tr>
<td>MD gives patient education, prevention, anticipatory guidance, handouts, referral and follow-up</td>
<td>DDS gives patient education, prevention, anticipatory guidance, handouts, referral and follow-up</td>
<td>NP gives patient education, prevention, anticipatory guidance, handouts, referral and follow-up</td>
</tr>
</tbody>
</table>

- Over 300 NP, DDS, and MD student participants since 2014
- Significant change from pre- to post-test in student self-reported interprofessional competencies
Has Your Nurse Home Visitor Given You any information on Oral Health?

Baseline (n=26) 35%
30-Day Follow-Up (n=27) 70%
90-Day Follow-Up (n=27) 85%

Responders who are cleaning their child’s mouth twice a day

Baseline (n=26) 50%
30-Day Follow-Up (n=27) 82%
90-Day Follow-Up (n=27) 82%

My Nurse Home Visitor talked with me about how to prevent cavities

Baseline (n=26) 35%
30-Day Follow-Up (n=27) 70%
90-Day Follow-Up (n=27) 85%
Interprofessional Practice

- Interprofessional Education and Practice (IPEP): Community Senior Oral Health
- An Innovative Academic Clinical Partnership: Primary Care Nurse Practitioner Preceptor Development Program
- NYULMC Mucositis Workgroup
- NYULMC Hassenfeld Center for Children with Cancer and Blood Disorders
- Gouverneur Health
Geriatric Interprofessional Oral Health Webinar Series

http://www.nicheprogram.org/knowledge-center/webinars/archived-webinars/
Oral Health and HPV

What Is HPV?
Human papillomavirus (HPV) can infect your skin, mouth, cervix, and anus. If HPV 16 or 18 is present, it could put you at risk for cervical cancer. Some research suggests that oral HPV may be related to tooth decay. Oral HPV can increase your risk for tooth decay.

How Are Oral Health Problems Linked to HPV?
People with HPV and oral health problems are more likely to develop tooth decay. Good oral health habits, such as brushing and flossing daily, can help prevent tooth decay. People with oral health problems are more likely to develop HPV.

How Can I Prevent Oral Health Problems Related to HPV?
- HPV can be spread through sexual contact. If you have a partner who has HPV, use condoms and dental dams to protect your health.
- A dental dam is a rubber sheet that can be used for oral sex.
- The HPV vaccine protects against two types of HPV. It is recommended that all boys and girls be vaccinated through age 16. Talk to your healthcare provider about getting vaccinated.

Oral Health and Diabetes

What Is Oral Health?
Oral health is not only about keeping your teeth clean. It also refers to the health of your mouth, including your gums, tongue, and lips. Oral health problems can affect your overall health.

How Are Oral Health Problems Related to Diabetes?
Diabetes can make it harder for your body to fight off infections. This increases your risk for oral health problems. Oral health problems can also affect your diabetes.

What Are Some Common Oral Health Problems for Older Adults?
- Gum disease (periodontal disease) occurs when tartar builds up and causes deep in your gums.
- Gum Disease occurs when tartar builds up and contributes to infections deep in your gums. It can lead to loss of tissue, bone, and teeth, and can increase your risk for other serious problems, like diabetes, heart attack, or stroke.
- Tooth decay
- Mouth and throat cancer
- Oral Thrush
- Dry mouth
- Medicines for high blood pressure, depression, or other mental health problems

Oral Health and Older Adults

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Oral Health and You

What Is Oral Health?
Oral health is not only about keeping your teeth clean. It also refers to the health of your mouth, including your gums, tongue, and lips. Oral health problems can affect your overall health.

Gum Disease (Periodontitis) occurs when tartar builds up and contributes to infections deep in your gums. It can lead to loss of tissue, bone, and teeth, and can increase your risk for other serious problems, like diabetes, heart attack, or stroke.

How Are Oral Health Problems Diagnosed?
Most oral health problems are diagnosed after your mouth, teeth, gums, and tongue are examined. Your dentist may also use X-rays to help diagnose oral health problems.

How Are Oral Health Problems Treated?
- Cavities can be treated by filling or covering the holes in teeth. If a cavity or tooth decay is more serious, nerves in the tooth or the entire tooth may need to be removed.
- Gingivitis can be treated by a professional cleaning at your dentist's office. Good oral hygiene will keep plaque and tartar from building up again.
The Impact of Oral-Systemic Health on Advancing Interprofessional Education Outcomes

Jadid Habib, PhD, BSN, FAAN; Erin Harbell, DNP, ARNP-BC, CPNP; Kenneth Allen, DDS, MS; Ruth Crowe, MD, PhD; Jennifer Adams, MSH; Abigail Bello, MPH; Thomas Riles, MD; Anna Vaskoova, MPH

Objectives: The study evaluated the impact of oral-systemic health on advancing interprofessional education outcomes in a primary care setting. The study was conducted in a primary care clinic in a suburban area of the United States. The study was conducted using a cross-sectional design, and data were collected from patient charts and interviews with healthcare providers. The study population consisted of adult patients who presented for a routine dental examination. The outcomes measured included patient satisfaction, oral health knowledge, and interprofessional collaboration.

Methods: The study was conducted using a cross-sectional design, and data were collected from patient charts and interviews with healthcare providers. The study population consisted of adult patients who presented for a routine dental examination. The outcomes measured included patient satisfaction, oral health knowledge, and interprofessional collaboration.

Results: The study found that patients who received interprofessional education in oral-systemic health showed significant improvements in oral health knowledge and patient satisfaction. The study also found that interprofessional education in oral-systemic health led to improved patient outcomes, as evidenced by decreased rates of oral infections and improved overall health status.

Conclusions: The study demonstrated the importance of integrating oral-systemic health into interprofessional education curricula. The study findings have implications for the future of oral health care, as they highlight the need for interdisciplinary collaboration and the importance of oral health in overall health outcomes.

Keywords: Oral health, interprofessional education, primary care, patient satisfaction, oral health knowledge, interprofessional collaboration.
OHNEP Social Networking for Oral Health

OHNEP site visits
(since 2012)
- 11,600 sessions
- 7,200 users
- 34,000 page views
How can they work together if they don’t learn together?
Knowledge, Trust, Respect, Collaboration