An Initiative to Prepare Adult Nurse Practitioners and Family Nurse Practitioners (ANP/FNP) And Dental Students for Deliberative Interprofessional Collaborative Practice
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Goals of the Collaborative Between Schools of Nursing and Dentistry
The University of Louisville School of Nursing and School of Dentistry have formed a collaborative partnership to advance interprofessional education and improve access to high quality primary health care including oral health care.

Objectives of the Collaborative

- Implement and evaluate a technology-enhanced Interprofessional Education model through team based learning in the Interprofessional Education Collaborative (IPEC) core interprofessional competencies.
- Improve interprofessional communication and collaboration in the identification and management of oral-systemic diseases.
- Change practice patterns in patient assessment, consultation, and management to improve outcomes for the underserved.
Gap in integrating oral health care into overall primary health care, especially for the underserved in the community

Need for IPE to prepare for deliberative interprofessional collaborative practice

Gap in interprofessional education for ANP/FNP and dental students regarding the oral-systemic health connection

Comparison of the Age-adjusted Death Rates per 100,000 Population for the Leading Causes of Death

<table>
<thead>
<tr>
<th>Cause of Death</th>
<th>Louisville</th>
<th>Kentucky</th>
<th>United States</th>
<th>Healthy People 2020 Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>256</td>
<td>201</td>
<td>174</td>
<td>191</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>237</td>
<td>201</td>
<td>183</td>
<td>191</td>
</tr>
<tr>
<td>COPD</td>
<td>83</td>
<td>80</td>
<td>42</td>
<td>99</td>
</tr>
<tr>
<td>Stroke</td>
<td>87</td>
<td>45</td>
<td>36</td>
<td>34</td>
</tr>
</tbody>
</table>

Health Disparities in Louisville, Kentucky

Oral Health Disparities in Kentucky
- 21.2% (1 in 5) of Kentucky’s adults report having had 6 or more teeth extracted.
- Adults aged 65+ with all natural teeth extracted was 23.7% . (National average is 18%)
- An estimated 814,012 adult Kentuckians smoke cigarettes every day.
- 757,041 adults in Kentucky (24.9%) report having had oral pain within the past three months.
- An estimated 649,825 (21.4%) adults in Kentucky have open, active dental caries.
- Over 1 million adults (36.1%) in Kentucky have NOT made a visit to the dentist, for any reason, in the past year.

Kentucky Adult Oral Health Survey, 2002, Conducted by the University of Louisville School of Dentistry, Under a contract from the Oral Health, KY Department of Public Health.
Core Competencies for Interprofessional Collaborative Practice

- Values and Ethics
- Roles and Responsibilities
- Interprofessional Communications
- Teams and Teamwork

Interprofessional Education Collaborative Core Competencies as a Foundation for Team Based Learning

- Increase knowledge of the roles and responsibilities of each discipline.
- Increase knowledge of students about their role as a member of an interprofessional team.
- Increase favorable attitudes of NP and Dental students toward IPE in comparison to baseline attitudes.
- Evaluate the effectiveness of students as members of an interprofessional team.
- Increase students perception of self-efficacy related to functioning as a part of an interprofessional team.

Methodology – Interprofessional Education Model

- Spring 2013
- Introduction to Interprofessional Education Course
  (One hour credit course)
  - 120 D1 dental and 33 graduate FNP and ANP students in teams
  - IPEC interprofessional core competencies
  - Scope of practice for each profession
  - Smiles for Life: A National Oral Health Curriculum delivered via the web
  - Blackboard-supported peer to peer problem-based learning exercises and team based study
Methodology - IP communication and collaboration in the identification and management of oral-systemic diseases

Summer 2013
- Advanced Physical Assessment Course (12 hours)
  - 45 NP students and 120 D2 dental students
  - Four selected lectures will be delivered to NP and dental students in a combined lecture and lab setting
    - HEENT/oral assessment
    - Common oral findings
    - Dermatological assessment
    - Basic office laboratory testing
  - Standardized Patients to evaluate competencies in oral communication and physical assessment

Methodology – Continued Development

Summer 2014 and 2015
- Provide a fully integrated IPE and Advanced Health Assessment Course to D2 dental and NP students
- Anticipated revisions could include:
  - Content
  - Structure
  - Delivery method
  - Location

Evaluation

Interprofessional Education
- Pre- and post-test data collected
  - Knowledge of Interprofessional Core Competencies
  - Knowledge of and attitudes about interprofessional collaboration
  - Perceptions of self-efficacy in functioning as a member of an interprofessional team
  - Attitudes toward working with a team
  - Peer evaluation of team members' effectiveness
- Baseline dental knowledge obtained from online course and interaction with dental students
Evaluation
- Change in practice patterns in patient assessment, consultation, and management to improve outcomes for the underserved
- Practice patterns of ANP/FNP students
  - Oral, written and electronic record presentation of clinical data
  - Nursing School Student Tracking System to evaluate practice patterns of ANP/FNP students on rotation
- Number of student practicum experiences in IPC in Federally Funded Health Centers

Outcomes and Lessons Learned so far...
- Evaluation data has been gathered and is under review
- Some logistics and barriers in preparing for an interprofessional educational collaborative
  - Classroom and lab space for 120 dental students and 45 graduate FNP/ANP students
  - Scheduling
  - Addition of new course to Nursing and Dental curriculum
    - Approval by curriculum committees
    - Tuition

Outcomes and Lessons Learned so far...
- Point in educational journey
  - IPE course – D1 and graduate NP
  - Foundational knowledge
    - Pathology
    - Communication with patients
    - Health disparities
  - View of oneself as a primary care provider
- Opportunities
  - Early introduction to oral-systemic connection for primary care and oral health care students
  - Scope of practice understanding among faculty, staff, and students
TEAM WORK: Interprofessional Education to Collaborative Care

Acknowledgement

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University of Louisville School of Nursing

Enhancing Inter-professional Collaborative Practice Between Nursing and Dental Students via a Technology Enhanced IPE Model Focused on the Oral-Systemic Health Connection D09HP25034-01-00

Thank You!