UDM Dental MDFD III Program Report

Deirdre D. Young, DDS
Divesh Byrappagari BDS, MSD
UDM Dental MDFD III Programs

UDM program goals aim to address eliminating oral health disparities, increasing faculty diversity, and cultural competency.
Aided in development of Strategic Partnerships.

Implemented through three different programs:
  - URM Recruitment Programs
  - School Based Sealant Program
  - URM Provider Development Program
Through active partnerships, UDM School of Dentistry actively recruits, trains and retains under-represented minority (URM) students to become allied dental health and dental professionals.
The majority of the funding was used to support the activities managed by Dr. Deirdre Young (Co-PD).

- Dental Imprint Program.
- Dental Hygiene Emphasis Workshop.
- Tour 4 Diversity.
- Annual Recruitment Activities.
Dental Imprint Program

- Through interactive enrichment experiences, we exposed underrepresented minority (URM) high school students to careers in allied dental health and dentistry.
Dental Hygiene Emphasis Workshop (DHEW)

Through a 3-day interactive workshop, we exposed underrepresented minority students to allied dental career opportunities.
What is a Dental Hygienist?

Dental hygienists are licensed oral health professionals who focus on preventing and treating oral diseases, both to protect teeth and gums and also to protect patients’ total health. Hygienists are graduates of accredited dental hygiene education programs in colleges and universities.

Workshop applicants must be an Underrepresented minority (African American, American Indian, or of Hispanic origin) and have at least one of the following qualifications:

- High school senior
- High school or GED graduate
- Dental assistant
- Work experience in the health profession
- College student
- Veteran

The candidate must demonstrate an interest in the profession of dentistry.

UDMSD Core Values

Excellence
We value and reward excellence.

Service
We are committed to serving our community, students, colleagues, institution and the profession of dentistry.

Respect
We promote respect of self and others and value diversity.

Life-long Learning
We value life-long learning and promote development to achieve our potential.

Integrity
We embrace integrity in all our daily activities and consider it essential to our identity.

Office of Multicultural Affairs

Dental Hygiene Exploration Workshop
November 14 - 16, 2013

University of Detroit Mercy School of Dentistry presents a 3-day workshop entitled “Explorations in Dental Hygiene.” This interactive workshop is designed to help you gain exposure to the exciting field of dental hygiene.
Comparison of 2013/2014 Pre/Post-Test Results

Pre Test

Post Test

- 2012
- 2013

UDM Dental
ADVANCING DENTAL KNOWLEDGE. ADVANCING DENTAL CARE.
Survey Data Results of 2014

- Level of Interest DH
- Course helpful DH
- Dental Terminology
- Dental Anatomy
- Impressions
- DH Instruments
- Career Option

Pre-Course 2014
Post-Course 2014
Tour for Diversity Program (Partnership with Aetna, AAMC, ADEA, and US ARMY):

- Aids to promote medicine and dentistry to undergraduate students of racial and ethnic underrepresented minorities.
- Introduced underrepresented minority undergraduate students at campuses across the US to premedical enrichment activities.

Two Stops

- East Coast-CN, NY, NJ, MD, and DC
- West Coast-NM, AZ, CA, and NV
Short Term and Long Term Outcomes

- Increase the number of URM students and faculty in allied dental professions.
- Strengthening the academic and service pipeline.
Pipeline Impact

Dental Imprint Program:

- Two schools within the Detroit HPSA area participated in a dental career day, and over 100 students within the school district were exposed to careers in dental hygiene and dentistry.

- 40 students, 9-12th grade, participated in a tour of University of Detroit Mercy and University of Detroit Mercy School of Dentistry. A total of 80 students have participated for both cohorts (2012/2013).

- 95% of participants expressed an interest in pursuing a career in allied and other health professions.
Pipeline Impact cont.

Dental Hygiene Emphasis Workshop:

- One hundred percent increased their knowledge of careers in allied dental health professions, community outreach activities, oral hygiene health and research. (N=24)
- About 250 students were targeted for recruitment to UDM Dental School (All Pipeline Programs).
- 1 Student from DHEW 2012 is enrolled in our Dental Hygiene Class of 2016.
DHEW 2014

Student Teacher Leaders

Lunch with current SNDA/SNDHA Students

Dental Hygiene Emphasis Workshop 2014
In partnership with Michigan Department of Community Health, UDM Dental works towards reducing oral health disparities among school-aged children.

- Ms. Laura Wright, Community Programs Coordinator and Ms. Christiana Morton, RDH, dental hygiene faculty, plan and implement the school-based dental sealant program.
- UDM Dental dental hygiene students provide preventive services to K-12 students in Detroit Area Schools.
This student based model not only delivers the preventive care needed in the Detroit area schools but also trains the next generation of dental hygiene providers - who are culturally competent and have the clinical skills and the technical knowledge to plan and implement school based dental sealant programs as well as other community based oral health programs.
Program Objectives
UDM Dental School-Based Dental Sealant Program

- Placement of dental sealants on 100 percent of the children with positive parent consent. - Completed
- Oral health education delivered to 100 percent of target children with 100 percent completing pre and post-tests. - Completed
- Contact made with 100 percent of parents whose child was found to be in need of urgent care outside the school program. - Completed
- One hundred percent of sealant placements will be rechecked within six months and ensure a 90 percent retention rate. – Completed; Retention Rate – 94%
- One hundred percent of un-retained sealants will be replaced at no cost to the child. - Completed
Dental sealants will be placed on the molar teeth of 80% of the low income children screened in the program. **Objective met - 100%**
### School & Student Eligibility

<table>
<thead>
<tr>
<th>County</th>
<th>HPSA Y=Yes N=No</th>
<th>Name of School</th>
<th>Free &amp; Reduced School Lunch Program Participation % per School</th>
<th>Total # of K-7th Grade Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Amelia Earhart‡</td>
<td>100</td>
<td>788</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Holy Redeemer*</td>
<td>90</td>
<td>144</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Thirkell Elementary</td>
<td>89</td>
<td>589</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Stewart Academy‡</td>
<td>100</td>
<td>321</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Loving‡</td>
<td>100</td>
<td>202</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Ross Hill Academy‡</td>
<td>100</td>
<td>115</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County</th>
<th>HPSA Y=Yes N=No</th>
<th>Name of School</th>
<th>Free &amp; Reduced School Lunch Program Participation % per School</th>
<th>Total # of 9-12th Grade Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>Cristo Rey*</td>
<td>96</td>
<td>253</td>
</tr>
<tr>
<td>Wayne</td>
<td>Y</td>
<td>CMA High School</td>
<td>89</td>
<td>525</td>
</tr>
</tbody>
</table>
## Summary for Procedures Completed in the School-Based Dental Sealant Program between 10/1/2013 - 5/30/2014 ‡

<table>
<thead>
<tr>
<th>School</th>
<th>Oral Prophylaxis</th>
<th>Fluoride Varnish</th>
<th>Sealants</th>
<th># of Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amelia Earhart</td>
<td>11</td>
<td>7</td>
<td>32</td>
<td>11</td>
</tr>
<tr>
<td>Holy Redeemer</td>
<td>29</td>
<td>20</td>
<td>39</td>
<td>29</td>
</tr>
<tr>
<td>Thirkell Elementary</td>
<td>112</td>
<td>111</td>
<td>151</td>
<td>112</td>
</tr>
<tr>
<td>Stewart Academy</td>
<td>95</td>
<td>95</td>
<td>165</td>
<td>95</td>
</tr>
<tr>
<td>Loving</td>
<td>81</td>
<td>81</td>
<td>123</td>
<td>81</td>
</tr>
<tr>
<td>Ross Hill Academy</td>
<td>54</td>
<td>54</td>
<td>49</td>
<td>54</td>
</tr>
<tr>
<td>CMA High School *</td>
<td>9</td>
<td>0</td>
<td>30</td>
<td>9</td>
</tr>
<tr>
<td>Cristo Rey *</td>
<td>29</td>
<td>29</td>
<td>80</td>
<td>29</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>420</strong></td>
<td><strong>397</strong></td>
<td><strong>669</strong></td>
<td><strong>420</strong></td>
</tr>
</tbody>
</table>

‡ Data obtained from UDM Dental AXIUM® database and is restricted to only those children who were Medicaid enrolled and for procedures that were billed to Medicaid. This table does not include data for all children that were served in the program and for all billable procedures provided.

* High school programs
# Questions Frequency

<table>
<thead>
<tr>
<th></th>
<th>Questions</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>Understand the role of a PA161 Collaborative RDH in a school based setting.</td>
<td>27</td>
</tr>
<tr>
<td>Q2</td>
<td>Apply basic principles of pediatric dentistry.</td>
<td>27</td>
</tr>
<tr>
<td>Q3</td>
<td>Perform a complete oral assessment on pediatric patients and accurately record the information.</td>
<td>27</td>
</tr>
<tr>
<td>Q4</td>
<td>Provide oral hygiene instructions and nutritional counseling to patients and, when appropriate, recommend and provide &quot;OTC&quot; preventive products.</td>
<td>26</td>
</tr>
<tr>
<td>Q5</td>
<td>Competently perform an oral prophylaxis and fluoride treatment on pediatric patients ranging from cooperative to mildly uncooperative.</td>
<td>27</td>
</tr>
<tr>
<td>Q6</td>
<td>Recognize the indications and contraindications of dental sealants and be competent in the placement of dental sealants.</td>
<td>27</td>
</tr>
<tr>
<td>Q7</td>
<td>Apply basic appropriate pediatric patient management techniques.</td>
<td>27</td>
</tr>
<tr>
<td>Q8</td>
<td>Understand when and how to appropriately refer pediatric dental patients.</td>
<td>26</td>
</tr>
<tr>
<td>Q9</td>
<td>Communicate with members of the interdisciplinary health care team and school personnel.</td>
<td>27</td>
</tr>
<tr>
<td>Q10</td>
<td>Recognize the extent of the dental needs of pediatric patients in the Detroit school-based populations.</td>
<td>27</td>
</tr>
<tr>
<td>Q11</td>
<td>Utilize mobile dental equipment and modify dental hygiene skills to meet the oral health needs of pediatric patients.</td>
<td>27</td>
</tr>
<tr>
<td>Q12</td>
<td>Improve time management skills and increase efficiency.</td>
<td>27</td>
</tr>
</tbody>
</table>
Focus groups for parents and school administrators are being developed to gather data about the usefulness of the program, get feedback for program improvements and to increase participation.

Planned for Fall 2014
Establishing best practices for community-based and academic partnerships.

Strengthening school-based oral health care.

Supporting best practice guidelines that result in preventative oral care for children and reduce dental carries of children in K-12th grades.
Long Term Outcomes

→ OH-1.2: Reduce the proportion of children aged 6 to 9 years with dental caries experience in their primary and permanent teeth.

→ OH-1.3: Reduce the proportion of adolescents aged 13 to 15 years with dental caries experience in their permanent teeth.

→ OH-8: Increase the proportion of low-income children and adolescents who received any preventive dental service during the past year.

→ OH-9.1: Increase the proportion of school-based health centers with an oral health component that includes dental sealants.

→ OH-9.2: Increase the proportion of school-based health centers with an oral health component that includes dental care.

→ OH-9.3: Increase the proportion of school-based health centers with an oral health component that includes topical fluoride.

→ OH-12.2: Increase the proportion of children aged 6 to 9 years who have received dental sealants on one or more of their permanent first molar teeth.

→ OH-12.3: Increase the proportion of adolescents aged 13 to 15 years who have received dental sealants on one or more of their permanent molar teeth.
Goal 2: Implement evidence-based preventive practices that maintain optimal oral health for Michigan communities.

Goal 7: Increase access to oral health services in underserved populations and communities.
Established community-based and academic partnerships to eliminate oral health disparities in children.

School-based Dental Sealant Program will expand into a School-based Dental Services Program, which will provide both preventive and restorative care to high risk school children in City of Detroit and Wayne County in partnership with Wayne County Department of Public Health and Wayne County Healthy Communities (FQHC).
Elements Contributing to Success

- Urban location
- Commitment to community service based on our Jesuit traditions
- Support from leadership at dental school
- URM alumni support
- Long standing partnership with community organizations
Acknowledgements

- Principal Investigator - Dr. Mert N. Aksu, Dean

- URM Recruitment and Retention Program - Ms. Barbara Purifoy-Seldon, RDH, MS

- School Based Sealant Programs - Ms. Christiana Morton, RDH & Ms. Laura Wright, Community Programs Coordinator.