



**Oregon Health Authority
 Dental Pilot Project Program**

Dental Pilot Project: Application #200

Abstract
Training Dental Hygienists to Place Interim Therapeutic Restorations
 June 23, 2017

Applicant/Sponsor:	Oregon Health & Science University, School of Dentistry, 3181 SW Sam Jackson Park Road, Portland, OR 97239
Project Director:	Eli Schwarz, DDS, MPH, PhD Department of Community Dentistry, Oregon Health & Science University 3030 SW Moody Ave, Suite 135B Portland, OR 97201
Training Supervisor(s):	Eli Schwarz, DDS, MPH, PhD & Richie Kohli, BDS, MS

Sponsor Type:	Non-Profit Educational Institution
<p>Oregon Health & Science University is a nationally prominent research university and Oregon's only public academic health center. It educates health professionals and scientists and provides leading-edge patient care, community service and biomedical research.</p> <p>The OHSU School of Dentistry shares the mission of the Oregon Health & Science University to provide educational programs, basic and clinical research, and high quality care and community programs. We strive to foster an environment of mutual respect where the free exchange of ideas can flourish. The dental school prepares graduates in general dentistry and the dental specialties to deliver compassionate and ethical oro-facial health care.</p> <p>The mission of the Department of Community Dentistry is to promote critical analysis of social, behavioral, and policy-influenced factors that affect oral health outcomes in both individual patients and the entire population. These goals are achieved through a comprehensive didactic and experiential learning curriculum that begins in year one of the pre-doctoral program and culminates with the DS4 clinical rotations in community based dental clinics. We strive to develop curricula that lay the foundation for the student's life-time professional</p>	

development, commitment to service and community collaboration, and ensure awareness and cultural competency of the comprehensive and complex nature of health care for vulnerable populations.

Project Objectives:

Short-Term Objectives:	<ul style="list-style-type: none"> • Train EPDHs and evaluate their competence to place ITRs.
Long-Term Objectives:	<ul style="list-style-type: none"> • Through the performance of these duties to allow EPDHs working in community settings with underserved populations to facilitate collaboration with a dentist and to develop an appropriate plan of care for the patient. The placement of ITRs when directed to do so by a collaborating dentist will allow EPDHs to stabilize patients' oral health from further deterioration until they can be seen by a dentist in an appropriate setting. • To facilitate the development of new models of care designed to improve the oral health status of underserved populations.

Approved Project Period:	3/14/2016 – 9/1/2020
Project Site Locations	
Training/Didactic Phase:	<ul style="list-style-type: none"> • Didactic training will be held via online management system called Sakai, webinars, and in-person meetings in the conference rooms at Capitol Dental Care. • Didactic resources are available through University of the Pacific (UoP). • Laboratory and clinical training will take place at Capitol Dental Care which has fully equipped dental clinics.

Employment/ Utilization Phase Sites	Locations Under Sites
Childhood Health Associates of Salem	Childhood Health Associates of Salem 891 23rd Street NE Salem, OR 97301
Community Action Head Start	Community Action Head Start Independence Site 246 I Street Independence, OR 97351
Polk County School District	Ash Creek Elementary School 1360 North 16th Street Monmouth, Oregon 97361
Polk County School District	Falls City Elementary School 177 Prospect Ave Falls City, OR 97344
Polk County School District	Independence Elementary 150 South 4th Street Independence, Oregon 97351
Polk County School District	Monmouth Elementary 958 East Church Street Monmouth, Oregon 97361

Oregon Child Development Coalition	Oregon Child Development Coalition Concordia – Salem Lancaster Migrant, Seasonal, Early Head Start 4611 Lancaster Drive NE Salem, OR 97305
Oregon Child Development Coalition	Oregon Child Development Coalition Independence Migrant, Seasonal, Early Head Start 535 G Street Independence, OR 97351

Proposed Number of Trainees:	10-12
Proposed Number of Supervisors:	4
Number of Collaborating Dentists:	4
Proposed Number of Sites:	5

Estimated Cost and Funding Source(s):

Estimated Cost:	\$111,797.01
Funding Source(s) Committed:	Three sources of funding have been identified: 1) Oregon Health Plan (OHP) covers dental care for Medicaid members through capitated payments to the Dental Care Organization (DCO) to which the CCO has assigned the members; 2) The training, technical assistance, and evaluation will be funded in the initial year through a telehealth grant from the Oregon Health Authority through September 2016; 3) A group of funders of Oregon Oral Health Funders Collaborative that has supported the planning grant to develop the present application has expressed an interest to fund ongoing support of the evaluation and testing of the pilot project.
Total Committed:	\$111,797.01 for first 18 months

Background and History of the Project:
Selected Passages from the DPP #200 Application

Need for the Project:
Numerous reports within the last ten years have addressed workforce shortages in the dental field, lack of access to oral health care among low-income, rural, and other disadvantaged population groups, and the resulting profound oral health disparities experienced by these groups. Recent reports document that very slow progress is being made in improving the access to oral health care for these population groups. The health transformation process underway in Oregon has recently expanded access to the Oregon Health Plan for around 250,000 additional members. However, since the workforce situation has not been addressed, the existing dental workforce is under additional pressure and overall, access to dental care may further deteriorate. According to an Oregon Healthcare Workforce Institute analysis, the number of dentists practicing in Oregon decreased by 8% from 2010 to 2012 which may

indicate a continuous trend. The traditional dental care delivery model of stationary dental offices or community health centers with dental practitioners and auxiliaries needs to be expanded to test alternative and sustainable models.

Studies in other states have shown that a remotely located dentist, working with an Expanded Practice Dentist Hygienist (EPDH), who is seeing a patient at a different location, can collaboratively deliver quality dental care. Led by an EPDH, Capitol Dental Care will implement telehealth-connected oral health teams to reach children who have not been receiving dental care on a regular basis and to provide community-based dental diagnostic, prevention and early intervention services, including ITR placement when indicated by the dentist.

Description of Target Population(s):

Demographic Data about Availability of Health Care Services

Polk County continues to show an increase in diversity, especially within the Hispanic population. 11.2% of the population considers themselves Hispanic compared to 10% in 2007. The Caucasian population has grown from 86% to 87.9% while the American Indian/Alaskan Native population has remained consistent at 1.9%. There were slight increases in the African American population from .4% to .5% and in the Asian/Pacific Islander population from 1.6% to 1.9% in 2009. According to the 2005-2009 US Census Bureau data, 11.4% of Polk County residents speak a language other than English in their home compared to 14% of Oregon residents and 19.6% of US residents.

Oral Health needs assessment suggested that 34.3% of the Polk County residents had no dental visit in the last 12 months. Currently, only about 20% of Oregon dentists accept Oregon Health Plan (OHP) members. In Marion and Polk Counties, there are 122 OHP enrolled dentists. This is approximately 1 dentist for every 550 members of the Willamette Valley Community Health (WVCH) Coordinated Care Organization. Although this may be considered an acceptable ratio issues remain of provider timely availability, appointment timing, and insurance coverage; thus, there are still barriers for OHP members' access.

Oregon 2012 Smile Survey: This statewide survey gauges the health of the Oregon dental system by looking at the oral health, access, and overall quality of dental care for school children, aged 6 to 9. The survey examines the percentage of children who need urgent dental care, have any tooth decay, have rampant tooth decay (7 or more cavities), and have received dental sealants. The survey showed those with lower incomes, non-English speaking, and Hispanic background generally have worse dental health outcomes than those who have higher incomes, speak only English, and are white.

Purpose of the Project:

To train Expanded Practice Dental Hygienists (EPDHs) and demonstrate that EPDHs can successfully place "Interim Therapeutic Restorations" (ITRs) when directed to do so by a collaborating dentist. The ITR is an interim restoration designed to stop the progression of dental caries until the patient can receive treatment for that tooth by a dentist.

Oregon is in the midst of a dental health care crisis with more than 91 areas in the state designated as dental care health professional shortage areas (Kaiser Family Foundation study, April 28, 2014). This level of "deficiency" translates to more than 61% of Oregon residents not

having their dental care needs met. One county where the need is particularly great is Polk County, and it is within this county - and the Polk County School District that a collaborative consisting of OHSU School of Dentistry, University of the Pacific Center for Special Care, and Capitol Dental Care (CDC) will implement its pilot project to train Expanded Dental Hygienists to place interim therapeutic restorations (ITR) within the context of a telehealth connected dental team.

This OHSU project has been planned and developed in collaboration with the University of the Pacific, Arthur A. Dugoni School of Dentistry (UoP) and Capitol Dental Care (CDC).

Project Description:

Under the dental pilot project program [Capitol Dental Care] CDC will build upon existing community outreach programs in Polk County by adding the telehealth model to existing preventive services, which include assessment, radiographs, intra-oral photographs, cleanings, sealants, fluorides, oral health instruction, and ITR if indicated. CDC's telehealth connected dental team of Expanded Practice Dental Hygienists, dental assistants, and supervising dentist, will visit three schools within the District, serving approximately 10 children per day~75 per month with a total expected population of 1200-1500 measurable encounters over the life of the 15-month project.

Those children with advanced disease in need of additional care will be referred for care either through CDC's mobile van operator, or directed to a dental clinic for restorative care, as needed.

This Dental Workforce Pilot Project (DWPP) will add one new duty to those currently permitted for Expanded Practice Dental Hygienists (EPDHs) that are part of a community-based telehealth connected team system of care already under way.

The Oregon Health and Science University will train Expanded Practice Dental Hygienists (EPDH) to perform a new duty in community settings to improve the oral health of underserved populations and demonstrate their ability to carry out this duty.

Laws and Regulations Pertinent to the Proposed Project:

The Dental Practice Act governs the scope of practice for both dentists and dental hygienists operating in the state of Oregon. The key provisions can be found at Oregon Revised Statutes, Chapter 680 (680.010 – 680.210 and 680.990 (Dental Hygienists).

Currently, an Expanded Practice Dental Hygienist (EPDH) may only perform the placement and finishing of direct alloy and direct composite restorations after the supervising dentist has prepared the tooth (teeth) for restorations (ORS 818-035-0072).