

Utilization of AAPHD HRSA dental public health curriculum

Vinodh Bhoopathi

Ana Karina Mascarenhas

Kathryn Atchison

2016 National Oral Health Conference

Background

- In 2010, the American Association of Public Health Dentistry was supported by a 5 year grant through Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number D83HP19949 Predoctoral Training in General, Pediatric, and Public Health Dentistry and Dental Hygiene, grant amount \$650,000.

Goal

To develop and implement a model pre-doctoral core curriculum in dental public health for dental and dental hygiene students that will result in increased public health awareness, knowledge and skills of dental and hygiene students nationally.

Objectives of the grant

- **Objective I:** Develop a set of core dental public health competencies for pre-doctoral dental and dental hygiene education.
- **Objective II –** Develop a model dental public health curriculum based on the previously determined core competencies for pre-doctoral dental and dental hygiene students.
- **Objective III –** Conduct pilot programs to test the curriculum at dental and dental hygiene schools.
- **Objective IV –** Establish a Speaker's Bureau through AAPHD of instructors who can provide training on the model pre-doctoral dental public health curriculum to educational institutions throughout the United States.

Objective 1

Eight Competencies

1. Incorporate ethical reasoning and actions in oral health care
2. Synthesize, critique, and apply information from scientific and lay sources to improve the public's oral health
3. Describe social and health care systems and determinants of health and their impact on the oral health of the individual and population
4. Assess risk and select preventive interventions and strategies to promote health and control oral diseases at the individual and population level

Objective 1

Eight Competencies

5. Demonstrate the ability to access and use population health data for health promotion, patient care, and quality improvement
6. Communicate and collaborate with all stakeholders, to advocate for oral and general health
7. Develop a capacity for lifelong learning and professional growth in order to provide leadership in utilizing the principles of dental public health
8. Demonstrate the ability to participate in interdisciplinary care across the lifespan with people from diverse communities and cultures

23 DPH Topics

- **Ethical reasoning**
- **Cultural competency**
- **Critical evaluation of literature**
- **Social and health care systems**
- **Determinants of health**
- **Risk or needs assessment**
- **Evidence based dentistry**
- **Promoting health and control of oral diseases**
- **Prevention (Primary, Secondary, Tertiary)**
- **Patient care and quality improvement**
- **Research methodology**
- **Communication**
- **Collaboration**
- **Oral health advocacy**
- **Oral Health Literacy**
- **Oral health and systemic connection**
- **Professional growth and leadership**
- **Lifelong learning**
- **Principles of dental public health**
- **Inter-professional care**
- **Financial program planning**
- **Individual and population level motivational interviewing**
- **Service learning**

Objective 2

Curriculum

- **6 courses were developed**
 - **Principles in Dental Public Health**
 - **Evidence based dentistry**
 - **Ethics and Dental Public Health**
 - **Dental Public Health Policy and Advocacy**
 - **Oral Health Promotion and Disease Prevention**
 - **Oral health Literacy and Dental Public Health**

Objective 3

Pilot testing

University/institution	Type of program	Courses						Students trained
		Principles in dental public health	Oral health literacy and dental public health	Dental public health policy and advocacy	Ethics and dental public health	Evidence-based dentistry	Oral health disease prevention and health promotion	
Ohio State University, OH	D					X		107
Creighton University, NV	D					X		86
Nova Southeastern University, FL	D	X				X		248
University of California at Los Angeles, CA	D		X					66
Indiana University, IA	D	X	X	X	X			110
University of New England, ME	D	X	X					64
University of California at San Francisco, CA	D	X	X					178
University of Missouri at Kansas City, MO	D	X	X	X				105
State University of New York at Buffalo, NY	D	X					X	111
Indian River College, FL	DH					X		10
University of Michigan, MI	DH	X	X	X	X			59
University of Minnesota, MN	DH	X	X	X		X	X	22
University of Bridgeport, CT	DH	X	X		X	X		95
Tunxis Community College, CT	DH		X		X		X	25
Pueblo Community College, CO	DH						X	16
Lincoln College, CT	DH	X	X	X	X		X	23
							Overall	1,325

D, dental program; DH, dental hygiene. Value in bold shows the total number of students trained using the DPH curriculum.

Objective IV

Speakers bureau

Speakers Bureau

As there is a shortage of faculty with Dental Public Health training to establish a Speaker's Bureau through AAPHD to teach the dental public health Speaker's Bureau is a resource to dental schools and dental hygiene programs. The background and expertise may be lacking. The following are the Speakers Bureau members.

Dr. Bunmi Adekugbe, DDS, MPH

Dr. Adekugbe is a compassionate, competent and caring public health professional. Excelling in the predoctoral curriculum at the University of Ibadan, he pursued excellence to obtain advanced training at the Harvard School of Dental Medicine where he obtained the Master of Public Health, and University of Pennsylvania where he obtained the DMD. While at UPenn, Dr. Bunmi was awarded the Pierre Fauchard Award based on demonstrated leadership qualities. He completed a Dental Public Health Residency at the New York State University of Dental Medicine. His work on cost savings in the state Medicaid program from water fluoridation has received national attention and increased community water fluoridation in New York State. Dr. Bunmi's unique background in dentistry combines his exceptional education and training in public health dentistry with compassionate clinical care. Email: bunmiadekugbe@yahoo.com

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Dr. Folasayo Adunola, DDS, MPH Office of Minority Health

Dr. Adunola is a graduate of the Doctor of Dental Surgery-Master of Public Health (DDS-MPH) program at the University of Maryland, Baltimore. Her Master of Public Health concentration was in Community and Population Health. She completed her dental public health residency at the National Institute of Dental and Craniofacial Research (NIDCR), National Institute of Health (NIH). Her primary research interest is to understand the role of non-financial factors such as health literacy and perceived need on health care utilization. She is currently a Health Policy Specialist in the Office of Minority Health/Office of the Secretary. Moreover, she is currently a dental public health career in the U.S. Public Health Service Commissioned Corps. Email: sadunola@gmail.com

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Dr. Susan Kass, EdD, RDH Professor, Miami Dade College

Dr. Kass graduated from the University of Pennsylvania, University of North Carolina at Chapel Hill, University of Miami and Florida International University with her doctorate in Community Counseling and Teaching. Dr. Kass has been teaching Community Dental Health to dental hygiene students for several decades and won three Endowed Teaching Chairs in part due to her involvement in the community promoting oral health. Dr. Kass served as the American Dental Education Association's Board Director for Allied Dental Program Directors from 2012 to 2015. Email: skass@mdc.edu

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Dr. Elham Khateeb, BDS, PhD Assistant Professor, AIQuds University School of Dental Medicine

Dr. Khateeb is a dentist who graduated from University of Jordan, completed a Master of Public Health from University of Massachusetts and earned her PhD from University of Iowa. She is a diplomate of the American Board of Dental Public Health. She is now an assistant professor of Dental Public Health and the head of the Oral Health Research and Promotion unit at Al Quds University School of Dental Medicine at East Jerusalem and a research associate at the Public Policy Center/University of Iowa. Dr. Khateeb is currently working on many research projects that target vulnerable kids groups such as kids receiving chemotherapy and kids residing in areas with difficult access to care. Dr. Khateeb also interested in education research. Email: Elhame20@gmail.com

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Dr. Esther E. Kim, DMD, MPH Program Coordinator, Perinatal and Infant Oral Health Quality Improvement New York State Department of Health, Bureau of Dental Health

Dr. Kim earned her Master of Public Health degree at Harvard School of Public Health in 2013, Doctor of Dental Medicine degree with Certificate in Dental Public Health at Arizona School of Dentistry and Oral Health in 2012. She is currently the program coordinator at the New York State Department of Health, Bureau of Dental Health. Dr. Kim works with Health Resources and Services Administration on the Perinatal and Infant Oral Health Quality Improvement pilot program. She also manages the statewide program to integrate oral health into primary care for pregnant women and infants. Additionally, Dr. Kim's areas of study include geographic differences in dental care and unmet oral health needs among children with special health care needs, and innovations in dental care delivery for vulnerable populations.

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Robin Knowles, RDH, MPH Professor, Tunxis Community College

Robin Knowles is a Professor of Dental Hygiene at Tunxis Community College in Farmington, Connecticut where she serves as course leader for Community Oral Health I & II and teaches dental hygiene clinic and Research Seminar II. She has extensive experience in school based dental programs and developed the dental program at a community health center in Hartford. She recently completed a year as President of the CT Oral Health Initiative, a non-profit oral health advocacy organization. Email: knowles@tunxis.edu



Dr. Dawn Brown, DDS, MPH Dentist, California Forensic Medical Group, Santa Rosa

Dr. Dawn Brown graduated dental school from the University of California at Los Angeles and received her Masters degree in Public Health (MPH) from UCLA and Dental Public Health residency at the University of California, San Francisco (UCSF). Dr. Brown has been a faculty member at the University of California, Department of Dental Hygiene, teaching community oral health at UCSF School of Dentistry as a 3rd/4th year clinical instructor. Dr. Brown directs dental services for California Forensic Medical Group at the County Main Adult Detention Facility and provides continuing education courses for the California Dental Association. Email: dawnb@gmail.com



Dr. Diane Hagan, RDH, MPH Associate Professor, Colorado Denver School of Dental Medicine

Dr. Hagan is the Director of Public Health and Interprofessional Education at the University of Colorado Denver School of Dental Medicine. Prior to taking this position in 2008, she was the state dental director for Colorado for 15 years. Diane received her Masters of the University of Colorado with a B.S. in Dental Hygiene, she received her Masters in Public Health from the University of Northern Colorado, a graduate of the Regional Institute for Health and Environmental Health. She is a past president of the American Association of Public Health Dentists and the Association of State and Territorial Dental Directors. She is the author of the chapter "Social Responsibility" in *Community Oral Health Practice for the 21st Century Hygienist*, currently in its third edition. Email: diane.hagan@ucdenver.edu



Dr. Catherine Cadoret, RDH, MPH Associate Professor, Education Programs Dentistry, Public Service Programs and Social Sciences Westchester Community College

Dr. Catherine Cadoret received her Associate Degree of Science, Dental Hygiene from Westchester Community College and holds a Master of Public Health Degree from the University of Massachusetts Amherst. She has over 30 years of experience as a dental hygienist and has worked in a variety of settings, including private practice, public health and academia. She spent 8 years as a faculty member at the University of Massachusetts School of Dental Medicine, where her responsibilities included research on education, dental public health and oral health disparities. Dr. Cadoret is an active member of the American Dental Hygienists' Association (ADHA), American Public Health Association (APHA), American Dental Association (ADA) and Better Oral Health of Massachusetts Coalition. Email: c_cadoret@mwcc.mass.edu



Final curriculum launched on aaphd webpage

- August 2015



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Developing Dental Public Health Competencies and Curriculum for Predoctoral Dental and Dental Hygiene Programs

About this Project

Dental professionals are an "underutilized" workforce, when it comes to advocating for prevention and wellness in populations. This HRSA-funded project developed dental public health competencies and curriculum for use in predoctoral dental and dental hygiene programs in the US. These competencies and accompanying curriculum are to train an oral health workforce better prepared to meet the needs of the US population. By increasing the dental public health knowledge and competency of all graduating dental providers, the number of providers who can respond the public's unmet needs and challenges, both in private practices and publicly supported clinics, will increase.

Eight Dental Public Health Competencies

1. Demonstrate the ability to incorporate ethical reasoning and actions that promote culturally competent oral health care to individuals and populations.
2. Critique, synthesize and apply information from scientific and lay sources to improve the public's oral health.
3. Describe social and health care systems and determinants of health and their impact on the oral health of the individual and population.
4. Assess risk for oral diseases and select appropriate, evidence-based preventive interventions and strategies to promote health and control oral diseases at the individual and population level.
5. Demonstrate the ability to access and describe the use of population-based health data for health promotion, patient care, and quality improvement.
6. Demonstrate the ability to communicate and collaborate with relevant stakeholders to advocate for policies that impact oral and general health for individuals or populations.
7. Develop a capacity for lifelong learning and professional growth in order to provide leadership that utilizes principles of dental public health.
8. Demonstrate the ability to participate in inter-professional care across the lifespan of people from diverse communities and cultures.

Courses

[Principles in Dental Public Health](#)

[Oral Health Literacy and Dental Public Health](#)

[Ethics and Dental Public Health](#)

[Dental Public Health Policy and Advocacy](#)

[Oral Health Promotion and Disease Prevention](#)

[Evidence Based Dentistry](#)

Other Resources

[Speakers Bureau](#)

Share



PROJECT DIRECTORS: Dr. Ana Karina Mascarenhas, Dr. Kathryn Ann Atchison

Purpose of this study

- To determine the potential utilization of the AAPHD HRSA DPH curriculum in dental and dental hygiene programs since its release in August 2015.

Methods

- Monitored the utilization of courses since released in August 2015
- To do this, a form was developed that collected data from users.
- Data collected consisted of demographic data and data on the curriculum's intended use.
- Google Analytics was used to capture and monitor the data.

HRSA AAPHD Survey Form

Contact Information

First Name Last Name

Institution

Please set up your profile Username and Password:

Username

Password

Confirm Password

Street Address 1

Address 2

City State/Province Postal Code

Country

Email Office Phone

The type of students you teach:

Dental

Dental Hygiene

Other:

What dental public health related course (s) do you currently teach?

a) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
b) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
c) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
d) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
e) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>

Among the courses you teach, in which of the following will you include the HRSA AAPHD dental public health curriculum?

a) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
b) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
c) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>
d) Course Name	<input type="text"/>	Year	<input type="text"/>	Class Size	<input type="text"/>

Number of individuals downloaded in US and internationally

	Principles in DPH	Oral health promotion and disease prevention	Oral health literacy and DPH	DPH ethics	Advocacy	Evidence Based Dentistry
US	103	57	66	42	49	54
International	8	7	4	4	4	6

Canada, Taiwan, Egypt, Malaysia, Saudi Arabia, United Kingdom, Korea

Distribution of number of individuals who downloaded by course and type of students they taught

	Principles in DPH	Oral health literacy and DPH	Health promotion and disease prevention	Evidence Based Dentistry	DPH Policy and Advocacy	DPH ethics
Individuals teaching Dental students	33	25	23	24	22	16
Individuals teaching DH students	50	26	22	21	16	20
Individuals teaching Both	9	5	7	5	6	3
Other	19	14	11	10	9	7
TOTAL	111	70	64	60	53	46

Distribution of other category

- **Faculty teaching**
 - **DPH residents**
 - **Dental residents**
 - **Dental Assistants**
 - **Dental therapy**
- **Medical program faculty**
- **Dental administrators**
- **Air Force**
- **Private dentists**
- **To work on a DPH HRSA training grant**

Number of students to be trained

	Principles in DPH	Oral health literacy and DPH	Evidence Based Dentistry	DPH Policy and Advocacy	Health promotion and prevention	DPH ethics
Dental	1123	840	937	602	649	585
DH students	403	311	253	205	293	251
Both	325	75	180	88	90	60
DPH residents	24	24	-	-	-	-
Other (medical, DAs, DTs, Pediatric residents)	458	270	102	285	72	46
TOTAL	2333	1710	1472	1180	1150	942

Conclusion

- DPH curriculum is being accessed and possibly utilized in dental and dental hygiene programs at the pre-doctoral level nationally, as intended, including across the globe.

Next Steps

- **Survey the curriculum users**
 - Modes of use
 - Students actually been trained
 - Pros and cons
 - Receptiveness of the students
 - Recommendations

Next Steps

- **Developing curriculum for those in MPH program**
- **Offering certificate programs DAs, DTs**
- **Degree completion for DHs**

- **This grant was funded by HRSA through American Recovery and Reinvestment Act (ARRA) Funding.
Grant #D83HP19949**