

**OSU – College of Dentistry
Outreach and Engagement Annual Report
2008-2009**

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Director of Community Outreach and Engagement Programs**

- **Community service** is a point of strong emphasis at The Ohio State University College of Dentistry, in line with the University’s three pronged mission of teaching, research and service. In Dentistry, a key form of service is patient care. The College of Dentistry offers one of the University’s leading outreach programs, which takes care of the dental needs of the community with emphasis on serving the underserved. Dental students are an integral part of this work. Students have the opportunity to increase their skills while providing a valuable service. They also learn to work with patients from a range of different cultural and socioeconomic backgrounds, including developmentally disabled children, adults and elderly (ambulatory, institutionalized, urban and rural, disadvantaged and medically complex patients).
- **The Outreach and Engagement Program** activities throughout the school continue to expand and currently the school can boast of over 60 active programs with over 42 extramural sites. Our objectives are to increase the awareness of the significance Outreach and Engagement to the community among students, faculty and staff. The Outreach and Engagement section of the College of Dentistry website continues to serve our patient community, partners, students, faculty, staff and administration at the University. This site is updated periodically and new features are being added continuously. Currently, the outreach program operates the following dental care programs in central and southern Ohio. More contents have been added, for example, the outreach website now allows the underserved and patients on limited income to download an application to receive Dental Care on a sliding fee scale. We continue to receive many referrals through the website, as it continues to serve our patient community, our partners, our students and faculty, staff and administration at the University.

Scholastic Activities in Outreach and Engagement

Publications

1. Mohammad, A.R.: Author of “Geriatric Dentistry”, 5th edition, 2008. A textbook and 2 CD-ROM publications, Montrose Publishing Company.
2. Mohammad, A.R.: Author of CD-ROM “Training Program for Nursing Home Caregivers on Recognition of Oral Conditions in the Elderly”. Funded by the Ohio Dental Association Foundation, 2008.
3. Mohammad, A.R.: Author of CD-ROM “Training Program for Oral Health Professionals on Diagnosis and Management of Oral Conditions in Nursing Home Residents”. Funded by Ohio Dental Association Foundation, 2008.

I. Grants and Fellowships

II. Committee Appointments

Dr. Abdel R. Mohammad

- 1) Member of the Board of the American Academy of Oral Medicine (2004-present).
- 2) Chairman of the Academic Fellowship Committee that supervises the Academy Fellowship Examination in Oral Medicine, American Academy of Oral Medicine (2007-present).
- 3) Chairman-elect of the Gerontology and Geriatric Dental Education Section of the American Dental Education Association (2005-present).
- 4) Member of Tobacco Cessation and Intervention Advisory Committee of The Ohio State University James Cancer Hospital and Solove Research Institute (2004-present).
- 5) Reviewer of the Medical Science Monitor (MSM). This is a scientific medical journal with a printed circulation in 15 European countries and the U.S.A. (2004-present).
- 6) Member of the Editorial Board of “Forum Stomatologiczne”. A peer reviewed International Dental Journal, published in Krakow, Poland (2004-present).
- 7) Member of the Scientific Editorial Council of “Dental Forum Redakcja”. A peer reviewed scientific journal published by the Polish Dental Association, Poznan Branch, Poznan, Poland (2004-present).
- 8) Member of the Oversight Committee on P-12 Project, appointed by the OSU Provost to provide guidance on direction of P-12 outreach project (2004-present).
- 9) Member of the Executive Committee, College of Dentistry, The Ohio State University (2003-present).
- 10) Fellow of the American College of Dentists.
- 11) Member of the American Society of Geriatric Dentistry.
- 12) Director of Community Outreach and Engagement Office, College of Dentistry, The Ohio State University
- 13) Contributor to “Ask an Expert”, a program feature of the Netwellness Website (<http://www.netwellness.org>).

- 14) Vice-President of the Oral Health Section of the Gerontological Society of America (2001-present).
- 15) Member of the Advisory Council to oversee the activities and execution of the grant entitled “Enhancing Gerontology and Geriatric Medicine in Undergraduate Medical Education” awarded to the College of Medicine, Office of Geriatrics and Gerontology from the Association of American Medical Colleges (AAMC) and the Hartford Foundation to develop a four-year integrated geriatric curriculum that will serve as a model for other medical schools (2001-present).

III. Presentations and Activities

1) The Geriatric Dentistry Program:

The Ohio State University (OSU) College of Dentistry Geriatrics Program began decades ago but was expanded and reorganized in 1998 to assume a greater role in the pre-doctoral dental curriculum and to increase community outreach and engagement activities. In addition to didactic courses in Geriatric Dentistry and Gerontology offered at the end of the third year of the DDS Program, all senior dental students rotate in multiple clinical experiences within and outside the dental school. These experiences include:

A) Intramural rotation at the Geriatric Dental clinic at the OSU College of Dentistry:

Students gain knowledge in management of oral health conditions in ambulatory elderly patients. The Geriatric Dental Clinic is a half day weekly clinic within the College of Dentistry that provides comprehensive care for more than 250 ambulatory elderly patients. In this weekly clinic, students rotate in groups of four under supervision of a Geriatric Dentistry trained professor.

B) Extramural rotations in Geriatric Dentistry include three programs:

1) The Appalachian Geriatric Dental Program:

This program was launched in 2001 in cooperation with the Area Agency on Aging #7, Inc., to provide rural elderly patients residing in 10 Appalachian counties in southeastern Ohio with comprehensive dental care. This weekly program visits community senior centers of each of the 10 participating Appalachian counties in the southeastern Ohio region (Adams, Brown, Galia, Highland, Jackson, Lawrence, Pike, Ross, Scioto and Vinton). The population of these counties totals over 500,000 people and residents age 65+ constitute over 13% of the population. Upon arrival, four dental units are set up and registered patients are physically evaluated for dental treatment. Comprehensive dental care is delivered under supervision of an accompanying geriatric dentistry faculty. Over 300 patients are seen annually. The Appalachia Geriatric Dentistry Program was the recipient of the 2006 Geriatric Oral Health Care Award. This award is presented each year by The American Dental Association’s Council on Access,

Prevention, and Interprofessional Relations, the Pfizer Consumer Healthcare Group and the ADA Foundation.

A recent survey of assessment of Appalachian elderly attitudes to Mobile Geriatric Dental Program on patient satisfaction with the quality and comprehensiveness of dental care provided at these programs has shown that at least 97% of respondents rated the program as either satisfactory or every satisfactory. This report was presented at the annual ADEA meeting (Abstract #1254, J Dent Ed 70(1), 2006.

2) The Geriatric Dental Nursing Home Program:

This program continues to provide comprehensive dental care to residents in 15 nursing homes and adult day care facilities in Franklin County and other counties with a combined total of 3,210 residents in central Ohio. Students, supervising faculty, and dental assistants are transported along with mobile dental equipment where comprehensive dental care is provided to nursing home residents on a weekly basis. Treatment includes annual exams, oral cancer screenings, prophylaxis and cleanings, restoration of decayed teeth, extraction of non-restorable teeth, periodontal conditions. Oral ulcerations, fungal, viral and bacterial infections are treated. Fabrication of new dentures, relining of loose dentures, repair of dentures (including missing teeth) are also included in the students rotation. Any condition that is beyond the scope of the student's experience is referred to the geriatric clinic at the College of Dentistry for further follow-up.

The program is funded by patient fees and Medicaid. It was expanded in 1998 from an earlier homebound program that started in the 1960's.

The objectives of the Geriatric Dental Program can be summarized as follows:

1. Provide the student with a broad and diversified experience in Geriatric Dentistry that includes elderly ambulatory, institutionalized, rural and urban patients.
2. Enhance student awareness to the needs of the elderly patients and instill compassion and sensitivity in the management of older patients.
3. Train our students on developing a comprehensive and properly sequenced treatment plan that addresses the patient's needs. This plan may include appropriate referrals to specialists. This plan must demonstrate a sequence that prioritizes care into phases and provides alternatives.
4. Provide and maintain timely care to patients.
5. Train our students to communicate effectively with older patients and other caregivers.
6. Design an appropriate oral health maintenance program for each patient. Document the program as well as patient progress.
7. Demonstrate adherence to established infection control guidelines.
8. Make appropriate referral of older patients to other health care providers and community agencies.
9. Conduct in-service training in nursing home settings to caregivers on provision of oral hygiene services, recognition of oral lesions and denture making.

In addition to the educational objective of this program, we also strive to provide comprehensive dental care to multiple elderly populations including those underserved residents in the city of Columbus, many of whom are minorities, migrant workers, and Somali refugees.

2) The Tobacco Cessation Clinic:

The Tobacco Cession Clinic was launched in the year 2001 for the purpose of assisting individuals interested in quitting tobacco use. This weekly clinic is staffed by faculty, students, and a dental assistant. In addition, a behavioral consultant is also available. Two patients are scheduled weekly. Patients will be treated over three visits. The first visit consists of examination and determining patient quitting date and prescribing of medication. The second visit patients receive behavioral modification and follow-up. The third visit consists of dental cleaning. Patients are followed for a minimum of 6 months after quitting date.

3) The Ohio Project:

The Dental H.O.M.E. (Health Outreached Mobile Experience) Coach rolled through the streets of Franklin County providing dental treatment to over 20,000 children in the Columbus Public School Districts in a 10-month period. In as many cases as possible, public insurance was billed, however children without insurance were treated as well. Children with Medicaid totaled 1,756 and children uninsured totaled 246. The graduating class of 2008 provided over 7,338 procedures to children in elementary schools of the Columbus Public Schools which equates to an estimated \$236,000.00 in dental services to families in the area when college fees are applied.

The Dental H.O.M.E. Coach brings dental care to the children while they are at school. It provides quality care provided by students who are supervised by the highly-trained dental professionals of Nationwide Children's Hospital. The Dental Coach services have made a difference in the quality of life of children in the Columbus Public School system by a decrease in absenteeism and unnecessary pain.

Head Start Screenings:

The OSU College of Dentistry provided dental screenings to 1,064 children of the Franklin County Head Start Program during the 07/08 academic year. During these screenings 355 children needed follow-up care and were referred to a pediatric dentist for treatment. Of those 1,064 children, 852 of them received fluoride varnish. A dental screening is a requirement of admission into the Head Start program for children. This dental screening is a requirement with 90 days of acceptance into the program and is part of an overall medical screening to ensure the health of all children in the program. The dental exam creates a problem for families who do not have a regular dental "Home" for routine and preventative care. The requirement is also a problem for families who do not

have Medicaid or dental insurance to cover the cost of the dental exam. The OHIO Project assembles faculty members, along with a group of students, to provide these dental screenings and fluoride varnish on site. This screening identifies the need for routine cleanings or for immediate follow up with a dental professional.

Give Kids a Smile (GKAS):

The OHIO Project participated in the annual Gives Kids a Smile event promoted by the American Dental Association in order to promote routine oral health care for children. The event was spotlighted as the state kick off event at the State House in Ohio's capitol city, Columbus. Children from the Academy of Columbus Elementary School were screened and restorative treatment was provided on the Dental H.O.M.E. Coach for a family of five who had no dental insurance. In total, 200 children in grades 1 through 6 were screened and were given an application of fluoride varnish as well as provided tooth prints for personal safety identification. The Ohio Dental Association and the Columbus Dental Society participated in this local event that was being organized all over the country in a variety of ways and in many places to promote oral health care for children.

4) The Children's Hospital Dental Clinic

Located at the Columbus City Center, the Children's Hospital Dental Clinic began in 1970 with funding from Children's Hospital. The Clinic serves poor and minority children of Columbus as well as providing endodontic service for individuals up to 21 years of age.

5) The College of Dentistry Emergency Program provides care and education for dental emergencies of adult central Ohio residents.

6) The Coshocton Children's Dental Clinic is a joint project between the OSU College of Dentistry, Section of Pediatric Dentistry and the Children's Dental Clinic of Coshocton, a private foundation. The clinic provides dental care for Medicaid and poverty level children.

7) The Dental Care for Handicapped Preschoolers at Johnstown Project provides care and education to mentally and physically handicapped and other preschool children for students from the College of Dentistry and Columbus Children's Hospital. The Johnstown Road Clinic began in 2003 and is funded through ODH service community population.

8) Dental Hygiene Program provides multiple outreach and engagement activities for central Ohio residents and education for dental hygiene students. For example: The Head Start Program which began in February of 2002 provides screening, oral hygiene instructions, and applied fluoride varnish to 653 children, ages 3-5 and is funded by the Sam Harris Foundation. Students have also gone to a few nursing homes where they have discussed home care and xerostomia and middle schools to discuss dental career options and avoiding tobacco.

- Dental Hygiene students provide sealant treatment for underserved children of Coshocton County. Faculty and students volunteer time and materials. This program started in 1987.

Other Dental Hygiene Outreach Programs: Minority Fitness and Health Professional Career Fair, Jump Start Health Fair, Minority Health Matters Health Fair, Franklin County Board of Health & Wellness Fair, Asian Health Fair, Women's Student's Health Fair, Centennial High School Health Fair, Ohio Avenue School Health Fair, Parkmoor Urban Academy Career Day, Women in Science Day, Asian Festival, Special Olympic Special Smile Program, Columbus International Festival Health Fair – Kensington Village, Columbus Dental Society Mouthguard Program, Mom's Study Group, Columbus Public Schools Health Service Workers Health Fair, WIC Symposium Health Fair, MedCentral Health Systems Health Fair 116 Oral Health presentations in central Ohio in daycare centers, elementary and middle schools, nursing homes and special population groups. Dental Hygiene students participate in the following Outreach and Engagement activities: Oral hygiene screenings, cleanings, instructions in the practice of good oral hygiene. They also took part in health fairs located throughout Columbus and included the following locations: University Hospital East, Southside Community Action Center, Columbus International Festival Celebration of Wellness and Healthful Living, the Franklin County Board of Health 2003 Health and Wellness Fair and they participated in Ohio Dental Association's Make a Kid Smile Day. The students also participated at many of the Give Kids a Smile sessions and assisted Children's Hospital Dental Clinic staff with oral screenings at 6 different sites. As part of their practicum the students also assist the staff of the Ohio Department of Health, Bureau of Oral Health Services, University Hospitals, Department of Nutrition and Dietetics, Veterans Hospital, American Cancer Society, Columbus City Health Department Dental Clinic, Dental Center of Northwest Ohio Toledo and the Dental Clinic of Coshocton in Coshocton, Ohio.

Dental Hygiene:

1. Veteran's Day and November 12, 2008 – DH students visited all classrooms at West Mound Elementary giving presentations and distributing tooth brushes to 436 children. The school nurse spread the word and DH has been contacted by school nurses all over Columbus Public Schools, including West Mound.
2. Since November 2008, DH students have visited classrooms in 12 elementary schools, 1 middle school and 4 special needs preschools/elementary schools. In 3 of the elementary schools, the students visited nearly all of the classrooms. In the other schools they have been presenting to 2-4 classrooms. With this being Children's Dental Health month, DH has several more schools scheduled over the next few weeks.

Ms. Denise Kissell:

Ms. Kissell presented several oral health presentations for multiple local elementary and preschools (including low-income elementary schools like Ohio Avenue, Indianola, and 5th Avenue, Career Day at Heritage Middle School in Westerville). Booths at both the Asian Festival and Healthy Lifestyles Health Fair Oral Screenings for Somalians after-school programs.

9) The General Practice Dentistry Residency (GPR) engage in a variety of outreach activities, including the following: This program is the primary resource for special-needs patients in a large part of Ohio, including those people with disabilities, frail elderly, medically frail, those with developmental disorders requiring treatment in the hospital or in the operating room and under various forms of anesthesia (general and conscious sedation). Referrals from the geriatric program are also treated in this program. The program is self-funded by patient and Medicaid fees. General practice residents and faculty participate in the annual international dental/medical mission in Honduras, Central America (February 2006). GPR residents and faculty participate in Special Olympics on an annual basis.

10) Graduate Dental Clinics provide specialty dental care for Ohio residents and education for graduate students.

11) The Honduras Dental Healthcare Project consists of a team of dentists and healthcare specialists who provide basic dental care to indigent natives in remote areas of Honduras, Central America, targeting indigent natives in remote areas of Honduras, Central America.

12) The Section of Oral & Maxillofacial Surgery at OSU has been for a number of years now the providers of dental care for the population in prisons and other correctional facilities in our state. With an overage of 800 outpatient visits per year and 110 major surgical cases performed in the operating rooms at OSU Hospital, this activity provides care for a subgroup of the state population that sometimes is forgotten by others. Both residents and faculty alike participate in the surgical care of these individuals. Also, the Section of Oral & Maxillofacial Surgery provides care to patients with cleft lip and palate as well as other craniofacial deformities under the auspices of Children's Hospital of Columbus. An average of 60 to 80 of these young patients receives care every year, mainly by Dr. Peter Larsen and the Oral and Maxillofacial Surgery residents.

13) La Clinica Latina is a free dental clinic which provides limited dental services to the Hispanic community in central Ohio. Soraya C. Villarroel, DDS, MS has been working for the Dental Clinica Latina since 2004 as a volunteer and supervisor of dental student work, 5:30-8:00 p.m. Every 2-3 weeks, there are several faculty involved who take turns supervising. Also Dr. Villarroel did an oral presentation at the ADEA 2009 meeting in Arizona with Dr. Binnaz Leblebiciouglu. The ADEA Perio-Pros Committee invited Dr. Villarroel and Dr. Leblebiciouglu to present complex case management (perio-pros) as an OSU model.

14) The Nisonger Dental Center serves a developmentally disabled population of mainly adults from Franklin County. The dental clinic provides a full range of dental services or referral for clients. Students in dentistry, dental hygiene, pediatric dentistry and general practice residency serve as clinician-trainees and learn care of special needs patients at Nisonger.

15) The Orthodontics Department's Children's Hospital Dental Clinic Craniofacial Abnormalities Program, Columbus, Ohio is funded by Medicaid and BCMH, targeting underserved populations of the Columbus area.

- State Science Day, Columbus, Ohio features volunteers who provide dental health care advice to children in grades 7-12.
- The faculty in the Orthodontic department participates in a new research project starting March 1, 2004 in a pilot program on smokeless tobacco cessation in Hocking, Morgan, and Washington counties. This program is funded by The Ohio's TUPCF, in collaboration with the OSU Extension and Nursing College.
- Orthodontic treatment is provided to children at the night clinic at Children's Hospital and at OSU
- Orthodontic faculty and staff participate in the annual OSU Benefits Fair

16) OSU Hospital Dental Emergency provides care for after-hours dental emergencies of adult central Ohio residents.

17) The Section of Periodontology began in November 2002 to provide services in collaboration with the **Central Ohio Diabetes Association Annual Health Fair** in Dublin, Ohio. Volunteers serve the community population.

18) Netwellness Consulting: Faculty provide answers to questions related to oral health posted by the public on the web.

19) The Section of Restorative and Prosthetic Dentistry conducts an annual oral cancer screening in collaboration with the Columbus Dental Society and the American Cancer Society of Franklin County as well as the Columbus Iodine Deficiency Disorder Screening Program with the Kiwanis Club of Central and Southeastern Ohio. A free health screening sponsored by The Ohio State University College of Medicine Student National Medical Association, the Student National Dental Association, OSU College of Optometry, N.O.S.A.A.S.E., Central Ohio Diabetes Association and Columbus Public Health was conducted on Saturday, April 14, 2007 at the Columbus Public Health Auditorium (240 Parsons Avenue).

- Dental treatment is provided to residents of the Faith Mission Homeless Shelter on East Long Street in Columbus on Tuesday evenings, beginning Winter quarter 2007.
- Dental care is offered to residents of the Homereach Hospice at Kobacher House, Riverside Hospital
- Faculty accompany 3rd and 4th year dental students on a mission to Uganda, Africa, December 9-20, 2008.

20) The Graduate Advanced Prosthodontics Program was awarded a Patient Care Grant from the Osseointegration Foundation to provide treatment for an edentulous patient with a rare disease: Dominant Dystrophic Epidermolysis Bullosa. The Ohio State University College of Dentistry Graduate Prosthodontics and Graduate Periodontics programs will receive narrative recognition at all opportunities (e.g. at official Academy meetings), and written recognition in several forums, including Academy News, the Academy Bulletin Board in the International Journal of Oral and Maxillofacial Implants, and the Osseointegration Foundation Report.

21) The Section of Endodontics: No activity in Outreach and Engagement has been reported.

22) Community Education (The Ohio Project): The Office of Community Education has been awarded a \$25,000 OSU AHEC grant to provide dental care to underserved children in Licking County. The primary providers of the care will be fourth year dental students on the Dental H.O.M.E. Coach. This effort will involve a collaboration with the Licking County Health Department as well as the local dental society. It is anticipated that the two year involvement of the OSU College of Dentistry will enable the local dental workforce to continue to address the dental needs of underserved children.

International Outreach & Engagement activities :These activities are posted on the outreach activities under Global Outreach

1) Uganda :

Two trips were organized students OSU Dental students Rebecca Goldberg and Charu Gupta to Uganda the purpose of the visit was to provide outreach activities in oral health care to rural area in Uganda in December of 2007 and December 2008.

2) Hondouras:

College of Dentistry fourth year students Aaron Carroll, Suzanne Delima, Missy Rogers, and Rachel Tepe, accompanied by part time instructor Dr. Jan Tepe, spent fall break from September 8 to September 20 in Honduras providing dental care. The group worked through Shoulder to Shoulder, a non profit organization that has two major medical and dental clinics in the Department of Intibuca in rural Honduras. Because the clinics are located in remote mountainous areas near the border with El Salvador, travel to and from the sites requires two days of travel to make the eight to ten hour drive over dirt roads. En route, the group was able to tour the local hospital in La Esperanza and observe conditions there, as well as speak to the hospital dentist. Two days were spent at the first clinic in Concepcion and five full days at the clinic in Santa Lucia. Residents came for treatment from outlying areas, some leaving their homes as early as three a.m. by foot in order to reach the clinic. Some of the students opted to accompany the Honduran dentist to a school where they gave a talk on dental care and then applied dental varnish to the children's teeth and gave each child a toothbrush. In all, the students saw 154 patients and were able to place 153 restorations (both amalgam and composite), perform 189 extractions, and provide a total of 72 cleanings and sealants. The students worked from 7:30 a.m. until 6:00 p.m. each day, or until they had seen all the patients for that day. All treatment was free and supplies and translators were provided by Shoulder to Shoulder.

In addition to the experience of providing treatments, students had the option of experiencing local rural Honduran life by visiting the local market, attending a church service, walking through the villages, and observing the Honduran Day of Independence on September 15th, complete with fireworks and dancing. Non-optional, was the experience of sudden storms of the rainy season, the heat and humidity of a tropical country, washed out roads, a three hour traffic delay, and loss of electrical power.

The students returned to Columbus tired, but with enthusiasm for the patients they saw and the treatment they were able to provide.

Despite these inconveniences, students returned to Columbus with a first hand knowledge of a third world country and the satisfaction of knowing they have helped many people to save their teeth.

What the dental students say:

“I was glad we could see patients who had never had previous dental care. I thought the experience might be too overwhelming for the pediatric patients, but they were happy to see us. Some walked as much as five or six hours to the clinic....”

“This experience opened my eyes to those who do not have access to health and dental care, and when the opportunity arises for them they are extremely grateful and appreciative for what we can do for them.”

“Providing dental care for those who are in desperate need of treatment has made me happy and proud to soon be able to call myself a healthcare provider.”

“It was the children...at home the children go to the dentist when their parents tell them. In Honduras, children take it upon themselves to walk for hours through the forest, alone and in the dark, only to wait in line behind other children, just for the chance.”

“...not only could we provide dental restorations and extractions, but we were able to educate children and parents about proper dental hygiene and nutrition. For me, it was most satisfying to be able to look at a 16-year old girl whose central incisors were sure to be lost and tell her that we would be able to fix them. I look forward to returning to give care to those who are truly lacking in access to dental care.” “What the dental students had to say...

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