

Henry M. Goldman School of Dental Medicine

Global and Population Health

Annual Report 2012-2013

In the 2012-2013 academic year, in support of the Boston University Henry M. Goldman School of Dental Medicine's (GSDM) Applied Strategic Plan, Community Health Programs (CHP) was reorganized and renamed Global and Population Health (GPH). The mission of the Office of Global and Population Health is to develop, promote, and sustain interdisciplinary domestic and international health initiatives with the aim of enhancing the educational experience of students and improving the health of our global community. The Office actively supports students, faculty, and staff in their efforts to improve the health of the world's populations, and facilitates interdisciplinary health research, teaching, and practice across all departments and programs in the University, with a special emphasis on global health.

Teaching: GPH faculty contributed to GSDM pre and postdoctoral courses on preventive and community dentistry; preclinical general dentistry, and community based rotations. Faculty served as course directors, lecturers, preclinical instructors, and thesis readers, and mentored the fourth year students in their community outreach projects completed during their Externship.

Service Learning: As part of the first year DMD curriculum's *GD 510* course, GPH faculty and staff managed the community-based experiences that serve as the foundation for the students' service learning activities. During these experiences, under the supervision of GPH faculty, each first year student created grade-level appropriate lesson plans, provided oral health education for classrooms, and provided preventive services (dental screening, sealants, and fluoride varnish treatments) to students enrolled in 6 public elementary schools in Boston.

Advising/Mentoring: GPH faculty served as advisors for GSDM students, faculty, alumni, and community members who are interested in community-based clinical research and public health and community service; as mentors to pre and postdoctoral students' community outreach and research projects; and as mentors to students in BUMC's Division of Graduate Medical Sciences and School of Public Health. Additionally, GPH faculty supervised five Sargent College students in a semester internship program and four predoctoral students from several other colleges and programs in volunteer activities with GPH.

Service: GPH faculty provided service to the profession and the community. Dr. Michelle Henshaw served on the Massachusetts Association of Community Health Workers Oral Health Advisory Board, as Immediate Past President of the Boston Chapter of the American Association of Dental Research, as a member of the Boston Task Force on Improved Perinatal Clinical Care, as a member of the Healthy Birth Boston, as a member of the Massachusetts Coalition for Oral Health, on the Advisory Board of the Massachusetts Early Childhood Oral Health Consortium, on the Advisory Board of the Better Oral Health for Massachusetts Coalition, as a member of the Boston Oral Health Improvement Coalition. Kathy Lituri served as Oral Health Consultant to ABCD Head Start and Early Head Start and as a member of the

Health Advisory Board of the South Boston Head Start, Dorchester Early Head Start, and Roxbury Early Head Start. She also served as a member of the Boston Eligible Metropolitan Area (EMA) Planning Council and on the Boston EMA Planning Committee. Dr. Corinna Culler served as a member of the Massachusetts Early Childhood Oral Health Consortium and Chair of the Surveillance Work Group for the Better Oral Health for Massachusetts Coalition. Additionally, Dr. Ana Keohane served on the Lawrence Mayor's Oral Health Task Force, and Dr. Gladys Carrasco served on the CAPIC Head Start Health Advisory Committee and the Chelsea Family Network Advisory Council, both in Chelsea, Massachusetts. On a national level, Kathy Lituri served from July through November as Section Councilor and as Chair of the Scientific Program Planning Committee for the Oral Health Section of the American Public Health Association (APHA), and since November as Chair-Elect of the APHA's Oral Health Section and as a member of APHA's Intersectional Council.

School-Based Oral Health Programs

Boston University Henry M. Goldman School of Dental Medicine currently runs five city wide prevention programs and operates in 61 schools in Boston, Chelsea, Framingham, Natick, and Lawrence delivering preventive services to thousands of children, including oral health education, dental screenings, fluoride applications, and placement of sealants. During the 2012-13 academic year, 15,442 children were provided oral health education; 5,008 received oral screenings and fluoride applications; and 3,158 dental sealants were placed for 1,041 children.

Chelsea Comprehensive School-Based Dental Program: For the 13th year in Chelsea, GSDM provided city-wide comprehensive services including classroom education, dental screenings, dental sealant placement, fluoride varnish applications, and restorative dental care for children enrolled in the 5 public schools. Through partnerships with CAPIC Head Start and the Chelsea Family Network, services are also provided to many of Chelsea's preschoolers. This comprehensive oral health program is included in the Agency for Healthcare Research and Quality's Health Care Innovations Exchange, a national program designed to support health care professionals in sharing and adopting innovations that improve the delivery of care to underserved patients.

During the 2012-13 school year, this school-based program provided classroom oral health education to 2815 students in pre-kindergarten through grade 4 in the Chelsea Public Schools. Dental screenings and fluoride varnish treatments were provided to 1273 students, and 126 dental sealants were placed for 43 first through fourth graders in Chelsea.

Since opening in April of 2003, GSDM's Chelsea School Dental Center (CSDC) has provided preventive and restorative services for thousands of children. Located in the Williams Middle School, the CSDC gives care to Chelsea public school students regardless of their grade level or ability to pay for services. Many of the patients, who range in age from preschoolers to high school seniors, have never been to the dentist and would have no other source of dental care if it were not for the CSDC. Five bilingual dentists devote time to treating patients in the clinic.

Framingham School Dental Program: GPH operates a town wide school-based dental program for grade school children within all 8 public elementary schools. During the 2012-13 school year, oral health education was presented to 1336 students in grades kindergarten through

3rd grade. Additionally, 552 children received a dental screening and fluoride treatment. A total of 561 sealants were placed for 187 children.

Natick School Dental Program: GPH runs a town wide school-based dental program for grade school children within all 5 public elementary schools. During the 2012-13 school year, through this program 442 children received oral health education, 114 received oral screenings and fluoride varnish treatments, and 168 sealants were placed on 47 children.

Lawrence School Dental Program: GPH provides children in all 10 elementary schools and 2 middle schools in the City of Lawrence with oral health education, dental screenings, fluoride applications, and sealants. In total, oral health education was presented to 5,164 students, dental screenings and fluoride varnish applications were given for 1476 students, and 1,011 sealants were placed on the teeth of 364 students.

Smart Smiles in Boston Public Schools: During the 2012-13 school year, GSDM provided education for 5685 children; 1593 students received dental screenings, cleanings and fluoride varnish applications; and 1292 sealants were provided to 400 children in 31 Boston Public Schools including: Beethoven, Boston Teachers Union, Roger Clap, George Conley, Paul A. Dever, Edison K-8, English High, Everett, Gardner Pilot Academy, Henry Grew, Dennis C. Haley, Dr. William Henderson, Higginson/Lewis, John P. Holland, Joseph J. Hurley, Thomas J. Kenny, Joyce Kilmer, Patrick Lyndon, Samuel W. Mason, Donald McKay K-8, McCormack Middle School, Mission Hill K-8, Wolfgang Mozart, Orchard Gardens K-8, Michael J. Perkins, Franklin D. Roosevelt Lower, Franklin D. Roosevelt Upper, Charles Sumner, William Monroe Trotter, Winthrop Elementary and Young Achievers.

Preschool Oral Health Programs

GSDM's community outreach includes providing screenings and/or oral health education to over 2000 children in Boston area preschools, day care centers, Early Head Start, and Head Start programs; oral health education to parents and guardians; and oral health education to preschool teachers, staff, and administrators.

Action for Boston Community Development (ABCD) Early Head Start and Head Start: GPH faculty conducted Early Head Start oral health screenings, examinations, fluoride varnish, and referrals for 242 children enrolled in ABCD Early Head Start Centers located in Dorchester, East Boston, Old Colony, Infants and Other People, Bradshaw, Roxbury, the South End, and Madison-Park High School in Boston. Additionally, oral health education was provided for 200 children enrolled at Dorchester Head Start and 160 children enrolled at South Boston Head Start. An oral health presentation was given by a GPH faculty member to the ABCD Central Health Advisory Committee.

Allston Brighton Area Planning Action Council (APAC): Interactive classroom dental health education was conducted at an APAC child care center by GSDM faculty, and goodie bags with toothbrushes, toothpaste, stickers, and other items were given to the children at the end of the session.

Ashmont Nursery School: Classroom dental education was provided to 27 preschool

children enrolled at Ashmont Nursery School in Dorchester, Massachusetts. The preschoolers enjoyed interactive activities, including brushing the teeth of our popular dental puppet, and goodie bags were distributed at completion of the program.

Associated Early Care and Education: Each year GPH conducts an oral health program offering dental health education, oral screenings, and fluoride varnish applications to 470 children, as well as staff and parent training, at the Jamaica Plain, Sunnyside, Ruggles/Gilday, and Castle Square sites.

Chelsea Family Network: GPH provided oral health education and dental screenings for 37 children between the ages of 3 and 5 years of age at Kangaroo's Pouch during the 2012-2013 school year. Dental education was provided for parents of enrolled children, helping to remind parents of the importance of initiating good oral health habits and routine dental care early in their children's lives. A GPH faculty member serves each year as the health representative on the Family Network Advisory Council.

Community Action Programs Inter-City (CAPIC) Head Start: Dental health education, screenings, and fluoride varnish applications were provided twice during the 2012-2013 school year for 265 Head Start children ages 3 to 5 years enrolled in the CAPIC Head Start (Chelsea, Revere, Winthrop) Program. At the Irene O'Connell Center Open House in Revere, GSDM faculty and staff talked with parents about the Chelsea School Dental Program. Included in the parent presentations were explanations about the oral health promotion activities offered through the program and the availability of resources offered to all Chelsea Head Start and public school children at the Chelsea School Dental Center. A GPH representative is an active member of the CAPIC Head Start Health Advisory Committee.

Crispus Attucks Children's Center: Dental screenings and oral health education were offered to 230 children enrolled in Crispus Attucks Children's Center in Dorchester, which serves children between the ages of 6 weeks to 6 years.

Framingham South Middlesex Opportunity Council (SMOC) Head Start: As a part of the Framingham School Dental Program, 170 preschool age children were provided oral health education, and 86 children received dental screenings and fluoride treatments. Two oral health information sessions were presented to SMOC staff and parents of enrolled children, providing an opportunity to educate both staff and parents about oral health and to increase parents' awareness of the many community services available to them in the Framingham area.

Greater Lawrence Community Child Care Center: Oral health education, dental screenings, and fluoride varnish applications were provided to 150 preschool children enrolled at the Greater Lawrence Community Child Care Center.

Horizons for Homeless Children: Oral health education, dental screenings, and fluoride varnish treatments were offered to 76 children ages 6 weeks to 6 years enrolled at Horizons for Homeless Children in Dorchester.

Step Forward Learning Center: Oral health education was provided to 40 children ages 3 to 5 years, and 12 children received dental screenings and fluoride varnish applications at this Framingham based day care program.

Temple Emeth Nursery School: Oral health education was provided to 30 children ages 3 to 5 years attending the Temple Emeth Nursery School located in Chestnut Hill. The children enjoyed interactive activities, including a toothbrushing lesson with our popular dental puppet, and goodie bags with oral hygiene supplies and stickers were given out at the end of the session.

Community Outreach and Partnerships

Global and Population Health continued to expand its community outreach activities and recruit dental students, faculty, and staff volunteers into its various service programs. In 2012-13, 63% of GSDM's predoctoral students 376/599 participated in school-sponsored community outreach activities. Of the 376 students who participated in one or more of GSDM's outreach events, 235 (63%) students participated in volunteer activities and 141 (38%) participated as part of their ongoing curriculum. Additionally, 7 postdoctoral students and 58 faculty and staff members volunteered to serve in one or more community outreach activities.

Strategic partnerships form the foundation for many of the research, teaching, and service programs managed by GPH. This past year GPH developed new partnerships with the following organizations and/or participated in the following new events: Ashmont Nursery School, BMC Health and Fitness Exposition, Book Bag Give-a-Way, Boston Sikh Sangat Society, Christmas in the City, Countdown to Kindergarten Somerville, Generation Next, MY CHIP Program, Roger Wellington Elementary School, St. Agnes School, St. Brendan School, and the Temple Emeth Nursery School.

Community Based Oral Health Promotion Programs

In addition to GSDM's work in Boston area elementary schools and preschools, we were involved in 72 additional oral health promotion programs, initiatives, school field trips, and other community-based outreach activities providing care for populations that have difficulties accessing oral health services including the homeless, financially disadvantaged, uninsured and underinsured, elders, refugees, and individuals with HIV. We have been able to reach individuals from very diverse backgrounds and educational levels with oral health preventive services, and in doing so, have helped to promote the oral health and overall health of thousands in the greater Boston area. Additionally, pre-dent, pre-doctoral and post-doctoral students have been trained to provide oral health services for underserved, at-risk populations.

GSDM's Community Based Programs

Blackstone School 14th Annual Third Grade Field Trip: Eighty-nine third grade children from the Blackstone Elementary School were invited to GSDM for a full day of oral health activities, including presentations on oral health and nutrition, a lesson on mouth guards, and interactive activities in the Simulation Learning Center in which they learned about sealants

and dental impressions. This field trip provided both interactive health education for children and an opportunity for Boston University dental students to inspire young children to pursue a higher education and possibly a career in dentistry.

Boston Medical Center (BMC) Food Pantry Food Drive: GSDM's chapter of the American Student Dental Association collected food and raised money for the BMC food pantry. The Food Pantry distributes items to referred patients from all BMC clinics, feeding approximately 80 families per day and providing three days' worth of food to patients every two weeks.

Boston Sikh Sangat Society Oral Health Fair: GPH faculty and GSDM students sponsored an oral health fair for the Boston Sikh Sangat Society, one of the largest Sikh congregations in Massachusetts. The GSDM volunteers offered health promotion, education, engaging dental activities, screenings, and referrals for both children and adults.

Community Health Outreach Workers' Oral Health Training: A representative from GPH provided a three hour workshop on oral health to Community Outreach Workers enrolled in a certificate program.

Edward W. Brooke Charter School Field Trip: Third grade students from Brooke School, a Roslindale charter school, enjoyed a day of educational and fun activities at GSDM in both the classroom and the Simulation Learning Center. The children were eager to learn about life as a dental student and many came armed with questions to ask the students. They participated in lessons on nutrition and sealants, dressed up as dental students, and made thumbprints using an alginate impression and dental stone.

HIV Dental Care/Ryan White: Through support from the Ryan White Care Act, GSDM provided treatment to patients with HIV and AIDS throughout New England. A network for education referral has been established and includes Cambridge Cares about AIDS, Boston University Medical Center, and the AIDS Support Group of Cape Cod.

Mexican Consulate Oral Health Presentation: GPH is one of several organizations who were invited to speak to those waiting for appointments to discuss passports at the Mexican Consulate in Boston. GPH faculty gave an interactive presentation on oral health, which was very well received by the engaged audience. A variety of oral hygiene supplies, educational materials, and flyers were distributed with a listing of Boston area dental clinic locations.

New Pentecostal Church Oral Health Outreach: GPH faculty and GSDM's chapter of American Student Dental Association held an oral health outreach effort at the New Pentecostal Church in Mattapan. The outreach event included oral health promotion activities geared toward children, oral health screenings, and referrals. The group screened about 40 people, both children and adults, and handed out oral health supplies.

Notre Dame Educational Center (NDEC) Oral Health Outreach: The NDEC provides instruction to adult immigrants from all over the world, giving students an opportunity to rebuild their lives as they develop confidence in their ability to communicate in English and further their education. Each year GSDM faculty and students from GSDM's chapter of

American Student Dental Association provide oral health outreach to NDEC students, including oral health education, dental screenings, referrals, and provision of oral hygiene supplies.

Refugee Dental Care Week: The Chelsea School Dental Center (CSDC) held its annual Refugee Dental Care Week, providing oral health care to refugees from Somali and Nepal. Patients received an initial comprehensive oral exam, full mouth x-rays, prophylaxis, in some cases scaling, and fluoride varnish application. Those patients requiring further treatment were given an appointment for their next visit and all patients received their next six month recall appointment. Coordination of the event was facilitated by a pediatric dentist from Chelsea's MGH satellite clinic, along with the CSDC's clinical coordinator. GSDM's annual Refugee Dental Care Week has proven to be very beneficial to the refugee populations living in Chelsea.

Roger Wellington Elementary School Oral Health Awareness Day: GSDM provided interactive oral health games and activities, including a puppet toothbrushing demonstration, for 30 children with special needs at the Roger Wellington Elementary School in Belmont, Massachusetts. Goodie bags with toothbrushes, toothpaste, and stickers were passed out at the end of the presentation.

Rosie's Place Outreach: Rosie's Place, a sanctuary for poor and homeless women, offers emergency and long-term assistance to women who have nowhere else to turn. Founded in 1974, Rosie's Place welcomes each guest with respect and unconditional love. Rosie's Place accepts no government funds, and relies instead on committed volunteers and private supporters to accomplish its effective and innovative work. GPH has several initiatives at Rosie's Place, including:

- **Rosie's Place Clothing Drive and Fundraiser:** The student-run GSDM clothing drive collects items needed during the winter holidays including socks, gloves, boots, and winter coats for clients at Rosie's Place.
- **Rosie's Place, Childworks Program, Dental Health Fair**
Each year GPH faculty and students from GSDM's student chapter of the American Association of Women Dentists set up an interactive dental health fair for children at Rosie's Place. As in the past, this year children were taught about the importance of good dental hygiene and how to properly care for their teeth by use of a dental "passport" to guide them through each of the fair's six dental-themed stations. At the end of the tour the children received goodie bags containing prizes and oral hygiene supplies.
- **Rosie's Place Wellness Fair:** GSDM has a long-standing program that enables women at Rosie's Place to receive oral health information and complementary hygiene supplies. At this year's annual Rosie's Place Wellness Fair, GPH faculty and student volunteers distributed toothbrushes and toothpaste and talked with those attending the fair about the importance of dental health, healthy eating, consequences of tobacco, and other health topics of interest.
- **Rosie's Place "Women to Women" Program:** Two years ago, GPH faculty and GSDM's student chapter of the American Association of Women Dentists launched a monthly community service initiative named "Women to Women," aimed at improving

the oral health of the women of Rosie's Place. The main goal of the monthly events is to improve the oral health of the women by providing screenings and educational information, and by answering any dental-related questions. Over the past twelve months, the students screened 122 women and many more women stopped by for oral health information and/or oral hygiene supplies. An added bonus for the student volunteers has been getting to know some of the other groups volunteering at the monthly events and learning about their perspective on oral health and overall health.

St. Agnes School Oral Health Education: Oral health education was provided to 20 children enrolled at St. Agnes School in Arlington, Massachusetts. The children enjoyed a variety of interactive activities, including brushing the teeth of our popular dental puppet. Goodie bags with oral hygiene supplies and parent handouts were given out at the end of the session.

St. Brendan School Oral Health Education: Oral health education was given for 120 pre-kindergarten and kindergarten children attending St. Brendan School in Dorchester, Massachusetts. Proper toothbrushing techniques were demonstrated and the importance of healthy eating was discussed. The children were eager to talk about their dental experiences and brushing habits and happily received goodie bags with oral hygiene materials and stickers.

Yawkey Club of Roxbury Dental Health Fair: GSDM's chapter of American Student Dental Association partnered with GPH faculty and staff to host their annual interactive dental health fair for children at the Yawkey Boys and Girls Club of Roxbury. More than 100 children of the Yawkey Club, ranging in age from elementary to high school, attended this event. The fair included dental "stations" focusing on various aspects of dental health, including brushing and flossing, the negative effects of tobacco on oral health, tooth protectors, the importance of regular dental visits, and the importance of eating healthy for good oral health. All who complete their "passport" to health, after visiting each station, received goodie bag prizes at the end of the tour.

April 2013 Global Days of Service – GSDM Service Events and Collections

Throughout April 2013 Boston University students, faculty, staff, alumni, and their families and friends participated in Global Days of Service, an initiative offering service opportunities to Boston University friends worldwide. At GSDM, Global and Population Health and Alumni Relations offered several volunteer opportunities designed specifically for our GSDM family. Global Days of Service events and collections included the following:

- **Rosie's Place, Boston:** On Tuesday, April 2, and Monday, April 29, pre and post-doctoral students volunteered to serve food at Rosie's Place, a sanctuary for homeless, displaced, and battered women, located in the South End. On April 2, pre-doctoral students from the BU student chapter of the American Association of Women Dentists volunteered to serve dinner and on April 29, post-doctoral students in the Dental Public Health program served lunch.
- **The Food Project, Lincoln, Massachusetts:** GSDM volunteers convened at the Food Project in Lincoln on Saturday, April 6, to get the fields ready for the planting season.

Volunteers spread mulch between blackberry bushes, weeded the raspberry bushes, and exposed 2500 garlic plants by removing the straw that has covered them for the winter. The goal was to make a difference for those who lack healthy, affordable food in the Greater Boston area. Since 1991, the Food Project has built a national model of engaging young people in personal and social change through sustainable agriculture. Each year, more than 150 teenagers and thousands of volunteers farm 40 acres in eastern Massachusetts in the towns and cities of Beverly, Boston, Lincoln, and Lynn. Food from the farms is distributed through their community-supported agriculture programs and farmers' markets and donated to local hunger relief organizations.

- **Greater Boston Food Bank (GBFB):** On Tuesday, April 9, GSDM staff and faculty met at the GBFB. They sorted, packed, and inspected food and groceries for people in need. GBFB is the largest hunger relief organization in New England and among the largest food banks in the United States. Last year GBFB distributed almost 41 million pounds of food, enough to provide healthy meals to as many as 545,000 people. The organization is committed to increasing its food distribution in 2013 to provide at least one meal per day to every person in need in eastern Massachusetts.
- **Relay for Life, Boston University:** Boston University Relay for Life took place at the Track and Tennis Center on the Charles River Campus beginning at 6 p.m. on Saturday, April 13, and running until 6 a.m. Sunday. This is GSDM's fifth year participating in the 12-hour, overnight event, where GSDM students, faculty, staff, and friends walk the track to honor cancer survivors, remember people who died of cancer, and raise money for the American Cancer Society. Three GSDM teams raised more than \$1,700.
- **Cradles to Crayons, Brighton:** Members of BU's Hispanic Student Dental Association and another group of BU volunteers served at Cradles to Crayons in Brighton on Wednesday, April 17, and Tuesday, April 23. Voted 2012 best local charity by Boston A-list, the organization provides children from birth through age 12 living in homeless or low-income situations with the essential items they need to thrive, free of charge.

Collections: Each week in April, Global and Population Health organized collections for local organizations, including Cradles to Crayons (April 1–5), the Salvation Army and Orchard Gardens School (April 8–12), the Greater Boston Food Bank (GBFB) (April 15–19), and Rosie's Place and Pine Street Inn (April 22–26). A total of approximately 560 items were collected.

- For **Cradles to Crayons**, GSDM volunteers collected clothes and shoes for children newborn to age 12.
- For the **Salvation Army**, volunteers collected back-to-school supplies, including backpacks, markers, crayons, notebooks, lined paper, construction paper, pencils, pens, and rulers.
- For **Orchard Gardens School**, where GSDM often runs community health programs, volunteers collected soccer supplies for elementary and middle school children: cleats, shin pads, shorts, shirts, and new mouth guards and socks.
- For the **Greater Boston Food Bank**, volunteers collected non-perishable food items.

- For **Rosie's Place** and **Pine Street Inn**, toiletries, new socks, and reading glasses were collected.

GSDM's Integration of Oral Health Into Other Community Based Programs:

Bay Cove, Lindemann, and VinFen Wellness Fair: GPH faculty and students promoted oral health to the attendees of the Bay Cove Wellness Fair. The group offered oral health education, screenings, and referrals to the adults who utilize the services offered by Bay Cove Human Services. This private, not-for-profit corporation provides a wide variety of services to individuals and their families who face the challenges of developmental disabilities, aging, mental illness, and drug and alcohol addiction.

Book Bag Give-A-Way Event: This back to school celebration was hosted by Garden Neighborhood Charities, the City of Boston, and the Salvation Army. School supplies were provided to over 3,000 children living in Boston's low income communities. Students received a pep talk from Mayor Menino and the Massachusetts Teacher of the Year and enjoyed shooting on the Celtics hoops and the Bruins nets. GPH faculty and staff offered oral health screenings and education to children and their families.

Boston Area Health Education Center (BAHEC) aims to diversify the pool of health professionals in Boston by increasing middle and high school students' awareness of health professions, and public health issues and concepts. Through its Youth to Health Careers (Y2HC) program, BAHEC provides academic enrichment, job shadowing, leadership training, and college preparation for middle and high school students.

- **BAHEC Youth to Health Careers Summer Enrichment Program Health Career Expo:** The purpose of this annual BAHEC event is to connect Boston adolescents who are interested in exploring health careers with a variety of health professionals representing a broad range of career fields. GSDM's Dental Public Health Division provided BAHEC students with an understanding of the range of oral health careers, their education and fiscal requirements, and the roles and function of each profession in providing and supporting health care.
- **BAHEC Summer Program Oral Health Class:** As part of their summer program, BAHEC students visited GSDM to participate in a two hour oral health class given by GSDM faculty, staff, and dental students. The purpose was to gain exposure to the full range of careers available in the dental field, to see how the Simulation Learning Center functions, take a tour of the school, and provide the BAHEC students an opportunity to ask a panel of dental students any questions that arose during their visit.
- **BAHEC Students at GSDM:** Twelve BAHEC students visited GSDM for a question and answer session with 13 students from GSDM's chapter of the Student National Dental Association and 2 members of the GSDM faculty. A valuable exchange occurred and BAHEC students left with new insights into the path to dental school and encouragement to diligently pursue a dental career.

Boston Medical Center Health Exposition: Boston Medical Center partnered with Channel 7 for the 2013 Health and Fitness Expo, a free-to-the-public community health event at the Hynes Convention Center. The event attracted thousands of people from the Greater Boston region. The Health and Fitness Expo offered fun activities and a wealth of information on products and services that relate to healthy living. GSDM faculty and student volunteers gave information on promoting oral health, oral cancer, nutrition, and other related topics, including how to access oral health services at GSDM. Over 150 dental screenings were provided for adults, and oral hygiene supplies were distributed to those who received screenings.

Boston Public Schools Parent University: Boston Public Schools hosted Parent University at Northeastern University. Parent University was designed to help parents increase their understanding of how children learn and develop, and to offer workshops in parent advocacy, family health and wellness, and much more. GSDM provided families with information (in English and Spanish) on the importance of children's oral health and gave out toothbrushes, toothpaste, and educational brochures.

Boston University Residence Life Wellness Fair, Charles River Campus: This annual Boston University Wellness Fair exposes undergraduates to a wide range of health and wellness activities and concepts. GSDM faculty and students provide oral health promotion activities geared to oral health issues faced by college students.

Chelsea Back to School Celebration: This annual summer event is sponsored by Chelsea Public Schools and focuses on information needed to help students return to school healthy and ready to learn. Held at the Williams Middle School, this highly successful Back-to-School Fair is attended by nearly one thousand people. GSDM faculty and staff distribute educational materials, oral hygiene supplies, and information about the free oral health services provided to Chelsea students at the Chelsea School Dental Center.

Chelsea Early Learning Center Open House: Faculty and staff from the BU/Chelsea Partnership Dental Programs are invited each year to set up an information table at the Early Learning Center's Open House for parents of children in grades pre-kindergarten and kindergarten. Information is distributed to parents about the importance of early dental care and the availability of the Chelsea School Dental Center.

Christmas in the City: Christmas in the City is an event for thousands of mothers and children from Boston area homeless shelters. It is a large party with a banquet, live entertainment, games, rides, a petting zoo, and kid friendly activities. GSDM supports this large outreach event by providing dental health activities and offering dental screenings for children.

Countdown to Kindergarten Boston: Countdown to Kindergarten is a non-profit collaborative that engages families, educators, and community members in a city wide effort to celebrate and support children's transition into kindergarten. The Celebration is part of a year-long process that helps parents register their children for kindergarten at Boston Public Schools and includes connecting parents with resources that help children thrive in school. Each year GPH along with GSDM student volunteers attend the Celebration to offer dental screenings, host toothbrushing and arts and crafts stations, and distribute toothbrushes and oral health information to children and parents. Staffed this year by 29 GSDM students, 120 dental screenings were

provided to children as students addressed the oral health needs of young children and the concerns of their parents.

Countdown to Kindergarten Somerville: Patterned after Countdown to Kindergarten Boston, hundreds of children and parents attended this celebration held at the Boston Children's Museum to help prepare preschool children for entry into kindergarten. GSDM faculty and students provided oral screenings for children, hosted its usual tooth brushing and dental arts and crafts stations, and distributed oral health information and oral hygiene materials.

Early Childhood Center Field Day: Smart Smiles in Boston Public Schools was invited to join this field day at the Early Childhood Center to promote the program and to provide oral health education to children ages 3 to 5 years with special needs. Flyers were given to parents about the Smart Smiles Program, nutrition, and oral health.

Everett School Open House: At the Everett School Open House, GPH informed parents about Smart Smiles in Boston Public Schools, encouraging them to both enroll their children in the program and take them to a local dentist for any recommended follow up oral health care. Educational handouts and oral hygiene supplies were given out.

Generation Next Academy Teen Center's Safe Love Dance and Resource Fair: GSDM faculty and students volunteered at the annual Safe Love Dance and Resource Fair sponsored by the Generation Next Academy Teen Center. GSDM offered the teenagers oral health promotion, education, dental activities, screenings, and referrals.

Healthy Baby Healthy Child (HB/HC) Summer Camp Program: Each year GPH participates in the Boston Public Health Commission's HBHC summer camp picnic activities. Oral health education, interactive dental activities, and oral health screenings are offered to those attending this summer camp event.

Kids Be Aware Program: Kids Be Aware enables children to grow and develop the whole person through proper nutrition, physical activities, and healthy lifestyles. GSDM participated in an event in the greater Boston area which offered workshops on numerous health topics of interest to parents and their children. Five BU faculty, staff, and students volunteered to talk with families about oral health, and goodie bags were provided to all participants.

Lawrence Oral Health Fair: The Lawrence Mayor's Oral Health Task Force held its second Oral Health Fair, *Healthy Teeth, Healthy Families*, at the Lawrence Senior Center. The goal of this event was to provide oral health education to attendees of all ages and to introduce the public to oral health services available in their area. Families obtained information about a variety of oral health topics, including the use of tobacco and oral cancer, gum disease, nutrition, brushing, flossing, and caries control. Other groups hosting tables were local dental clinics and social service agencies.

Massachusetts Area Health Education Center (MassAHEC) Network Summer Brockton Program: The MassAHEC Network connects students to careers, professionals to communities, and communities to better health. AHEC strives to inspire, train, recruit, and retain a diverse and broad range of health professionals to practice in communities where the

need is greatest. As part of their summer program, the Brockton area students were offered a class on oral health. In an effort to supplement their class, students visited GSDM to gain exposure to the full range of careers available in the oral health field as well as build on the knowledge they gained in class.

Massachusetts Dental Society/Boston Collaborative Group Back to School Event

The Boston Collaborative Group, a co-sponsored initiative of the American Dental Association, the Massachusetts Dental Society, and the Metropolitan District Dental Society, participated in this back to school event. The goal was to provide dental screenings and promote oral health in an effort to get Boston area school children prepared for the new school year. GSDM faculty and students contributed to this effort through interactive and educational games, and provided 29 dental screenings for children.

Massachusetts Operation Stand Down for Homeless Veterans: This two-day annual event, sponsored by the VA Boston Healthcare System in cooperation with Volunteers of America Massachusetts, offers homeless and at-risk veterans in Boston critical benefits and services such as food, clothing, medical and dental treatment, housing referrals and placement, and career and job counseling. GSDM provided dental screenings, toothbrushes, toothpaste, denture cleanings, and referrals to the veterans. In total 22 students and several GSDM faculty and staff volunteered their time and efforts to this event, and they were able to screen 143 veterans over the two day period. Many of the student volunteers are attending GSDM through the Armed Forces Health Professions Scholarship Program and the U.S. Public Health Service Commissioned Corps.

Mattapan Community Health Center's Health Care Revival: Mattapan Community Health Center's Health Care Revival is an annual event that provides up-to-date information on a variety of health topics and community resources. GPH faculty shared a tent with staff from the Mattapan Community Health Center, engaging families in dental health conversations and interactive activities on topics such as tooth brushing, flossing, healthy eating, and cavity prevention, as well as the importance of fluoride, mouth guards, and sealants. Over 60 dental screenings were conducted, and oral hygiene supplies and educational pamphlets were handed out. Hundreds of families attended this popular health fair.

MGH Chelsea 16th Family Summer Safety Fair: The MGH Chelsea Health Center's Summer Safety Fair is an annual summer kick-off celebration which focuses on keeping children safe during the summer months. This year, as in the past, children received free bicycle safety checks and bike helmets. Many agencies participated, providing tips on home, fire, bicycle, and automobile safety. Children were offered the opportunity to participate in games and dance contests, designed to promote physical activity. GPH faculty and staff provided oral health education, promoted the use of mouth guards, invited children to the Chelsea School Dental Center, and distributed toothbrushes and toothpaste to hundreds in attendance at one of Chelsea's most popular and anticipated events.

Middle O! Orientation: The annual Middle O! event offers an occasion for students entering 6th grade to become oriented with middle school. The event is held at Fenway Park and proves to be very exciting for both students and vendors alike. Boston University's chapter of the Student National Dental Association led GSDM's involvement in this most recent Middle O

effort. Oral health promotion activities included dental screenings as well as discussions around dental topics relevant to middle school students, such as mouth guards, oral piercing, and dental caries.

MY CHIP (Child ID Program) Event at Charles C. Yancey Book Fair: Boston University faculty and students collaborated with MY CHIP to obtain bite registrations and DNA samples for their Child Identification Program at a Boston school readiness event designed to encourage youth in the City of Boston to enjoy reading and learning.

Peace in the Family Revere: GPH faculty participated in the 12th annual Peace in the Family Day in Revere distributing handouts, toothbrushes, toothpaste, and dental stickers as they talked with many event participants about oral health. Over 300 people attended this fair to promote peace and health in the families in Revere, Chelsea, and vicinities.

Perkins School Open House: At the Perkins School Open House, faculty and staff distributed informational materials and talked with parents about GSDM's Smart Smiles in Boston Public Schools Program. Oral health promotion activities included a demonstration of proper toothbrushing techniques and a discussion about the importance of regular dental visits. Goodie bags with oral hygiene supplies, pencils, and stickers were given out at the end of the program.

Research Science Institute: Since 1994 GSDM has been a participant in the Research Science Institute, a six-week summer program for high school students. Sponsored by the Center for Excellence in Education in collaboration with the Massachusetts Institute of Technology, the students experience college-level classes and complete hands-on research guided by selected mentors at corporations, universities, and other organizations.

Special Olympics Special Smiles® Program: GSDM staff, students, and faculty came together with other dental schools, hygiene schools, and dental practitioners at the Special Olympics Massachusetts games held at Harvard University. At the games volunteers registered athletes, gave free oral health screenings, made mouth guards, demonstrated proper hygiene, provided nutrition counseling, and gave out goodie bags filled with dental supplies as part of the Healthy Athletes® Special Smiles® Initiative.

Suffolk University Health and Wellness Fair: GSDM promoted oral health to Suffolk University college students in attendance at this health fair by offering dental screenings and providing information on oral health topics of interest and relevance to this age group.

TET in Boston Festival: Organized by the Vietnamese-American Community of Massachusetts and the Intercollegiate Vietnamese Student Association, this annual festival attracts around 1000 attendees and hundreds of vendors. Festivities include games, food, and music, and people from all around Massachusetts come to celebrate. GPH faculty and student volunteers from GSDM's chapter of the Asian Student Dental Organization manned a table at this year's event to promote oral health and healthy eating. Numerous games taught the children about the importance of oral health, and puppets were used to show the children proper toothbrushing technique. Oral hygiene supplies were distributed to those visiting the GSDM booth, and mouth guards were given to children over age 12 involved in sports.

Trotter School Open House and Career Night: At the Trotter School Open House, information about dental health and the Smart Smiles in Boston Public Schools Program was presented to parents and families of children attending the event. On a separate occasion, a City Year career night program allowed Trotter School third through fifth graders the opportunity to learn about a variety of careers by interacting with professionals working in a variety of fields. A GPH staff member spoke to the children about opportunities in the field of dentistry and the importance of doing well in school in order to prepare for college and a professional career.

Toys for Tots: GSDM's chapter of the American Student Dental Association continued their tradition of making the holidays more joyful for Boston children in need by once again hosting their toy drive prior to GSDM Intersession. The GSDM community donated new, unwrapped toys to the U.S. Marine Corps' Toys for Tots Initiative.

Wang YMCA Holiday Party: Members of the Boston University Chapter of Asian Student Dental Organization volunteered at the annual holiday party at the Wang YMCA in Chinatown in December. Volunteers set up four tables for children's oral health activities and distributed oral health educational materials and hygiene supplies to parents.

Yankee Dental Congress 38/HIV Dental Work Group: Seventeen Boston University dental students joined with dental students from Harvard and Tufts to staff the HIV Workgroup table sponsored by the Boston Public Health Commission. The HIV Dental Workgroup is part of the Boston Public Health Commission's AIDS program, the HIV dental program which facilitates access to oral health care for persons with HIV. This was the HIV Workgroup's 18th year of providing an educational exhibit on HIV oral health issues and infection control at Yankee Dental. GSDM students handed out packets of oral health information, talked with people who stopped by the booth, and assisted in collecting consumables donated for use in programs for persons with HIV.

Global Programs

GSDM's International Dental Missions: GSDM continued its involvement in international elective externships, which provide our students with an opportunity to both make a positive impact on the oral health of our global community and enrich and diversify their dental education. Because of the efforts of the 42 students who participated in these programs, thousands of individuals across the world have improved oral and overall health. During this past year, GSDM students participated in twelve international mission trips to Columbia, Guatemala, Honduras, Mexico, Nicaragua, and Panama.

Elective Externship Program in China: Both Shanghai Jiaotong University School of Stomatology and The Fourth Military Medical University School of Stomatology will provide our DMD students the opportunity to gain additional experience in the evaluation and treatment of patients with head and neck cancer. Both universities have great strength in clinical services for oral cancer patients. They have state-of-the-art inpatient operating facilities, where more than 10,000 major operations on oral cancers per year and more than 40,000 routine oral surgery operations per year are performed. These world renowned sites with advanced teaching

facilities, well qualified English speaking faculty, and massive numbers and diversity of oral cancer patients will provide a solid foundation for this externship program.

1) Shanghai Jiaotong University School of Stomatology (SJUSS)

SJUSS is one of the five key Schools of Stomatology in China. It has 260 dental units, serving 880,000 outpatients per year and 180 hospital beds serving 6,000 oral cancer patients per year. The school has the largest department of Oral and Maxillofacial Surgery in the world and is currently the International Training Center of the Oral and Maxillofacial Oncology and Reconstructive Surgery Training Fellowship Program authorized by the International Association of Oral and Maxillofacial Surgeons.

2) The Fourth Military Medical University School of Stomatology (FMMUSS)

FMMUSS is also one of the five key Schools of Stomatology schools in China. It has 280 dental units and 144 hospital beds for oral surgery patients. The school has over 120 professors and associate professors.

Grants/Research Activities

Health Resources and Services Administration	PI: M. Henshaw	9/1/12-8/31/13
<i>Community Based Dental Partnership Program</i>		\$300,000

Publications

Halpern LR, Kaste LM, Briggs C, DiPietro LA, Erwin K, Frantsve-Hawley J, Gordon S, Heaton B, Henshaw MM, Joskow R, Reisine ST, Sinkford JC. "Women's oral health: growing evidence for enhancing perspectives". *Dent Clin North Am.* 2013 Apr;57(2):xv-xxviii. doi: 10.1016/j.cden.2013.02.007.

Geltman PL, Adams JH, Cochran J, Doros G, Rybin D, Henshaw M, Barnes LL, Paasche-Orlow M. "The Impact of Functional Health Literacy and Acculturation on the Oral Health Status of Somali Refugees Living in Massachusetts." *Am J Public Health.* 2013 Jan 17. [Epub ahead of print]

Oral Health Policy

Better Oral Health for Massachusetts Coalition – Michelle Henshaw is a member of the Steering Committee and member of the Assessment and Surveillance Work Group. Corinna Culler is Chair of the Assessment and Surveillance Work Group and member of the Steering Committee.

Massachusetts Coalition for Oral Health – Michelle Henshaw is a member.

Oral Health Advocacy Task Force – Michelle Henshaw is a member.