

HARVARD

SCHOOL OF DENTAL MEDICINE



2016 DEAN'S REPORT

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MESSAGE FROM THE DEAN

Reflecting on the last fiscal year, I'm pleased to see that progress has been made to advance the mission of the School on all levels. This year, we saw significant changes in our curriculum. By all accounts, our students took these changes in stride and ran with them. First-year DMD students now gain hands-on clinical experience earlier in their education through a new primary care clinic rotation. In the same clinic, fourth-year students serve as mentors and teachers. This is a wonderful illustration of how the curriculum continues to support, develop, and foster leadership in our students.

This year, the School also rolled out innovative new programs that demonstrate the benefit of integrating oral health and medicine. Through a Health Resources and Services Administration (HRSA) grant, dental students work side-by-side in the clinic with North-eastern University nurse practitioner students to address patients' overall health, not just their dental health. This promising integrated model has received positive reviews from both patients and students alike. Through numerous community programs, students and faculty volunteer their time to improve human health

and the health of our communities by offering public education, oral screenings, and dental treatments to underserved populations.

While some HSDM faculty, staff, and students are out in the community making a difference, others are right here in our laboratories. Dedicated HSDM researchers are making strides studying debilitating bone diseases and other skeletal and developmental conditions. In this report, you'll find a list of more than 50 research projects underway.

Much of the work detailed in this report is made possible through the steadfast support of alumni, donors, and friends who share a commitment to the School and its mission. While our School is small, our impact is great. The HSDM community continues to grow as our graduates make their mark in the profession in all corners of the globe. We are well-poised to celebrate these accomplishments during the School's 150-year anniversary in 2017. I thank you, and I hope you'll join us for the celebration.



Bruce Donoff, DMD67, MD73

Dean and Walter C. Guralnick Distinguished
Professor of Oral and Maxillofacial Surgery



Education

BUILDING A STRONG FOUNDATION

HSDM offers a unique educational experience that continues to attract the best and the brightest students to its pre-doctoral (DMD) and advanced graduate (AGE) programs. Students cite the integration of medical and dental instruction, the small class size, and faculty mentors as some of the distinct advantages of the HSDM experience. With the launch of the new curriculum in Fall 2015, first-year dental students have the opportunity to work in a clinical setting earlier in their education and make the connection between their medical courses and their future profession.

In an innovative primary care clinic rotation—the Foundational Continuity Clinic (FCC)—first-year dental students spend four-hour sessions in the Harvard Dental Center’s Teaching Practices Clinic every other week. Their work is overseen by fourth-year dental students and primary care physicians who serve as their teachers and mentors. The experience has been particularly gratifying for the students.



“The dental FCC curriculum has proven continuously rewarding.”

I have seen the benefits in my skill and comfort in the dental clinic this year; moreover, many of the patients have expressed great appreciation for the primary health aspects of our Wednesday clinic.”

—Mirissa Price, DMD19 Candidate



By the Numbers: Class of 2019

Thirty-five talented individuals were chosen from nearly 1,000 applicants. They hail from 16 different states and three countries and represent a wide range of backgrounds and interests. Sixty-six percent of the entering class is female—the largest percentage to date.

66%
FEMALE

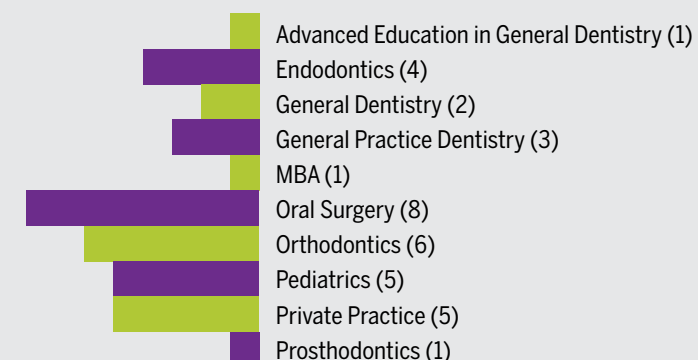
34%
MALE

947
APPLICATIONS

35
ENROLLEES

4.8%
ADMIT RATE

Class of 2016 Postgrad Plans



“The aim of this experience is to teach foundational clinical skills and primary care medicine with a focus on oral health, using the primary care rotations for students in a dental setting as a platform for change in our approach to patient care.”

—Dr. Sang Park, Associate Dean for Dental Education



Making News

The *Boston Globe*’s medical publication, *STAT* reported on the program in a November 9, 2015 article: “Fluoride and a physical: Patients see docs at the dentist.”

An article about the program and its results was published in the Winter 2016 *Journal of the Massachusetts Dental Society*. “A New Integrated Oral Health and Primary Care Education Program in the Dental Student Clinic” by Drs. Sang Park, Fidencio Saldana, and Bruce Donoff.



Local and Global Impact

COMBATING OPIOID MISUSE THROUGH EDUCATION

Dean Bruce Donoff joined the deans of Boston University School of Dental Medicine, Tufts University School of Dental Medicine, and Massachusetts' Governor Charlie Baker to announce new dental education core competencies for the prevention and management of prescription drug misuse.

"Educating our dental providers on prescribing practices for opioids is a critical step toward preventing drug misuse as we continue to combat this public health crisis," said Governor Baker. "We are thrilled to stand with the Commonwealth's dental schools and the Massachusetts Dental Society to introduce our second set of core competencies that are bound to educate our students and help curb this epidemic."

The core competencies will support future dentists over the course of their dental education with both skills and a foundational knowledge in the prevention of prescription drug misuse and effective management of pain. More than 1,800 enrolled undergraduate dental students and 550 advanced graduate dental students in the state will receive enhanced training in primary, secondary, and tertiary prevention strategies regarding prescription drug misuse.

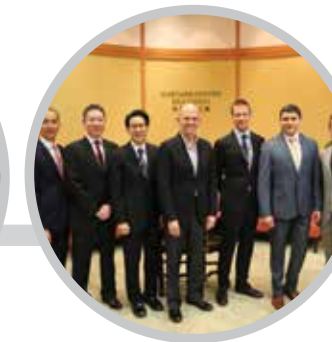
"Dentists are in a particularly unique position to have an impact, as they typically have regular contact with their patients and commonly address issues of preventive health and wellness in their oral health regimes," Dean Bruce Donoff said.



EDUCATING WORLDWIDE LEARNERS

HSDM's continuing education programs have expanded and are making an impact in far corners of the globe. Last year, HSDM offered its first continuing education course in Shanghai, China at the Harvard Center Shanghai. The course, "A Comprehensive Guide to Advanced Implant Dentistry," was led by Drs. T. Howard Howell and David M. Kim and drew participants from as far as Australia, Hong Kong, Japan, the Philippines, South Korea, Taiwan, and Macau.

Dentists in attendance participated in a collaborative learning environment to discuss standards of comprehensive treatment planning and the clinical decisions that go into saving a tooth or replacing it with a dental implant. They also had the opportunity to perform regenerative and surgical procedures on simulator models. The popularity of such programs continues to grow. Another course was offered in Shanghai in May 2016.



July 1, 2015 through June 30, 2016

10
COURSES

PARTICIPANTS FROM
17 COUNTRIES

Argentina, Australia, Canada, Chile, China, Costa Rica, France, Indonesia, Italy, Japan, Philippines, Poland, Portugal, Thailand, Vietnam, UK, US

247
PARTICIPANTS

COURSES TOOK PLACE AT
HSDM &
SHANGHAI,
CHINA



Campaign Update



The Harvard School of Dental Medicine

INVESTING IN THE FUTURE

Significant progress has been made toward the \$8 million goal of the Campaign for the Harvard School of Dental Medicine. By the end of FY16 the School has reached 89 percent of its campaign goal. Two notable gifts by former faculty members funded scholarships that will support future HSDM students, faculty, and researchers.



\$2 Million Planned Gift by Gordon and Ruth Macdonald

Gordon and Ruth Macdonald were inspired by a lifelong connection to HSDM that began with Dr. Macdonald's mentor Dr. Roy O. Greep, dean of the School from 1952 to 1967.

Macdonald spent 10 years at HSDM conducting research with Dean Greep. He also taught anatomy and histology at Harvard Medical School and spent four years studying the reproductive biology of primates at the New England Regional Primate Center. In 1973, Macdonald left Harvard to become a professor at Rutgers Robert Wood Johnson Medical School. However, he never forgot his connection to Harvard and to his mentor.

The Macdonalds supported the work of HSDM for many years, contributing to the Roy O. Greep Fund and others. They decided to make a \$2,000,000 planned gift to establish an assistant or associate professorship in their memory.

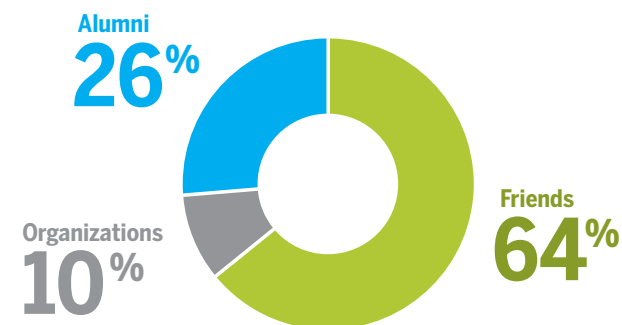


“My experience at Harvard set me up for a career in academics that I could only dream about. My wife, Ruth and I believe in the Harvard School of Dental Medicine and its mission.”

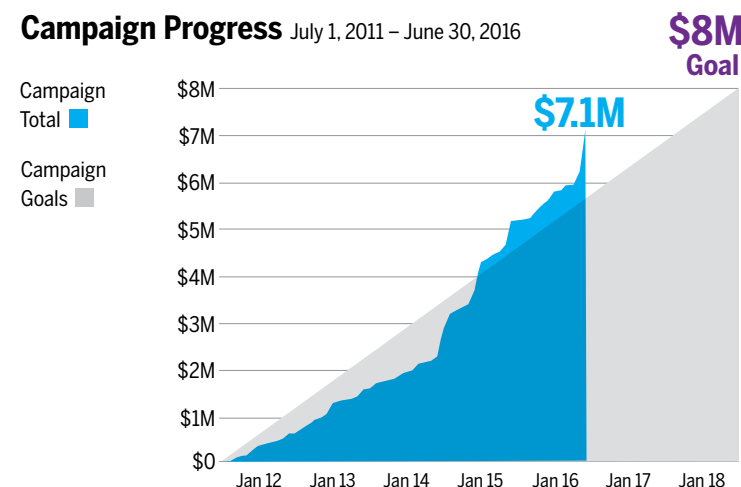
—Dr. Gordon Macdonald

Fundraising Progress

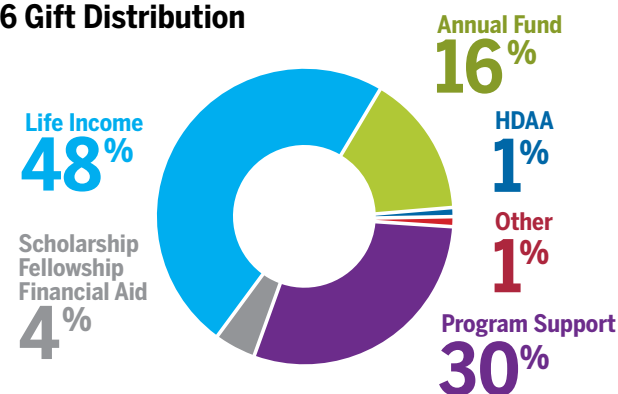
FY16 Gifts by Alumni, Friends, and Organizations



Campaign Progress July 1, 2011 – June 30, 2016



FY16 Gift Distribution



The Harvard School of Dental Medicine is deeply grateful for all the individuals and organizations who support the School and its mission. Our Honor Roll of Donors for the 2015 calendar year can be found at hsdm.harvard.edu/honor-roll.

Sakamoto Gift Funds DMD Scholarship and Research Award

Drs. Seizaburo and Masako Sakamoto were husband and wife research collaborators at HSDM. Together they studied connective tissue metabolism and bone resorption in an attempt to halt its pathological process. Their groundbreaking work led to HSDM developing a strong reputation in musculoskeletal-disease research.

Their \$400,000 gift established the Masako and Seizaburo Sakamoto DMD Scholarship in Masako's memory. The earnings from the Masako and Seizaburo Sakamoto DMD Scholarship will yield one of the largest scholarships awarded at HSDM. They also established the Melvin J. Glimcher, MD Research Award to honor their mentor, distinguished scientist Melvin J. Glimcher.



“My wish is to keep the name Masako Sakamoto in public health education with a special emphasis on dental education at HSDM by this endowment donation.”

—Dr. Seizaburo Sakamoto

Research

PROMOTING SCIENTIFIC DISCOVERY

Understanding Osteoporosis

HSDM is well known for its research strengths in the areas of skeletal biology and the pathology of bones, joints, and vascular and connective tissues. By studying genetic disorders of the skeleton, greater insights on common skeletal ailments, like osteoporosis, can often be gained.

A study by Dr. Roland Baron, professor and chair of the Department of Oral Medicine, Infection, and Immunity at HSDM, and Dr. Francesca Gori, assistant professor of Oral Medicine, Infection, and Immunity, may have implications for treating osteoporosis.

Baron and Gori collaborated with the research team of Dr. Superti-Furga, professor of pediatrics at the University of Lausanne in Switzerland, to study cortical bone fragility in individuals with Pyle's disease—a human genetic disorder characterized by increased amounts of trabecular bone, cortical bone thinning, and limb deformity—and identified a recessive genetic mutation in SFRP4, a Wnt signaling inhibitor, that causes the disease.

Their findings, published in the June 30, 2016 issue of *The New England Journal of Medicine*, may shed light on the causes of and potential treatment for cortical-bone fragility.

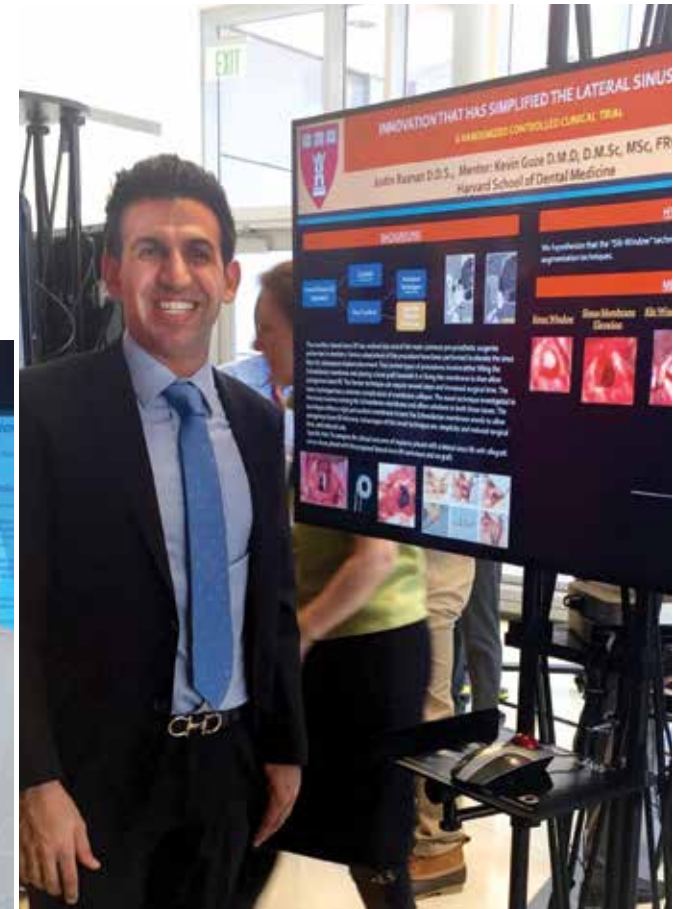


“One of the most interesting aspects of our finding is the demonstration that the regulation of trabecular bone (the main component of vertebrae) and of cortical bone (predominant in long bones like the hip or wrist) differs to some degree. This may help explain why some drugs are very efficient in preventing vertebral fractures, but not so good for hip fractures, and may open a new avenue for research, ultimately refining our diagnostic and therapeutic approaches.”

—Dr. Roland Baron, Professor and Chair of the Department of Oral Medicine, Infection, and Immunity

Student Research

HSDM Student Research Day is an annual event where DMD, MMSc, and DMSc students present research posters to faculty evaluators as part of their research requirements for graduation.



2015-16 HSDM Dean's Scholars

The Dean's Scholars program provides financial support to bridge a scholar's transition from postdoctoral study to faculty, allowing them time to develop and refine their research skills. From 2001-2015, HSDM has funded 46 Dean's Scholars; 42 of these individuals now have full-time careers in academia, and four in biotechnology. The following were inducted as Dean's Scholars for the 2015-2016 year:

WILLIAM ADDISON

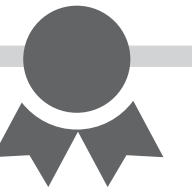
Studying “Transcriptional control of lineage commitment by ZFP521 and ZPF423” in the Baron Lab.

XUCHEN (AIMEE) DUAN

Studying “Mechanisms by which MSC produced VEGF determines osteoblast/adipocyte fates at different time points after birth” in the Olsen Lab.

YI FAN

Studying the “Role of PTH1R in the early mesenchyme using a conditional deletion mouse model” in the Lanske Lab.



Funded Research Projects

FISCAL YEAR 2015-16

Alaa Ahmed
A Retrospective Radiographic Analysis of Peri-implant Bone Remodeling
Funder: DentiumUSA

Roland Baron
Role of Zfp521 in Bone Formation and Anabolic Responses
Funder: NIH/NIAMS

AP1-Dependent Regulation of Bone Mass and Energy Expenditure in the Hypothalamus
Funder: NIH/NIAMS

R-Spondin3 as a Target for Anabolic Bone Therapy
Funder: NIH/NIAMS

Mechanisms and Function of the Microtubule Podosome Connection in Osteoclasts
Funder: NIH/NIAMS

Role of CathepsinK in Osteocytes During Lactation, Calcium Deprivation and Skeletal Unloading
Funder: Merck Sharp & Dohme Corp.

Seyed Hossein Bassir
Clinical Outcomes of Early Implant Placement vs. Immediate or Delayed Implant Placement
Funder: American Academy of Implant Dentistry

Agnes Berendsen
VEGF-Dependent Control of Osteoblast/Adipocyte Differentiation
Funder: Massachusetts General Hospital

Joshua Chou
The Effects of Nanostructure on Bone Cell Responses: Role of YAP/TAZ and Wnt Signaling
Funder: ITI International Team for Implantology

John Da Silva
Ryan White HIV/AIDS Program 2015
Funder: HRSA-HIV/AIDS Bureau-Public Health Service

Nurse Education, Practice, Quality, and Retention (NEPQR) Program -Interprofessional Collaborative Practice
Funder: Northeastern University

German Gallucci
A Comparison of Zirconia CAD/CAM and Conventionally Fabricated Single Implant Abutments and Restorations in the Esthetic Zone: A Randomized Controlled Clinical Trial
Funder: ITI Foundation for the Promotion of Oral Implantology

Efficiency and Accuracy of Digital vs. Conventional Impressions for Implant Rehabilitation
Funder: ITI International Team for Implantology

Kevin Guze
A Prospective Clinical Trial Comparing Conventional Dental Implants and Trabecula Metal Dental Implants After Staged Sinus Floor Elevation Procedures
Funder: Zimmer Dental Inc

Laura Jacox
Role of the Bradykinin Pathway in Craniofacial Development
Funder: NIH/NIDCR

Jian Jiao
Soft Tissue Volumetric Change After Guided Tissue Regeneration Using OSTEON
Funder: DentiumUSA

Elsbeth Kalenderian
A Cognitive Approach to Refine and Enhance Use of a Dental Diagnostic Terminology
Funder: NIH/NIDCR

Implementing Dental Quality Measures in Practice
Funder: University of Texas Health Science Center at Houston

Development of an Electronic Health Record with Comprehensive Dental Diagnostics and Information Exchange Functionality and Optimized for Public Dental Health Environments
Funder: Oral Health Solutions

A Whole Systems Approach to Implementing Standardized Dental Diagnostic Terms
Funder: NIH/NIDCR

Measuring Occurrence of and Disparities in Dental Clinic Adverse Events
Funder: University of Texas Health Science Center at Houston

Developing a Patient Safety System for Dentistry
Funder: University of Texas Health Science Center at Houston

David Kim
The Efficacy and Safety of Chlorhexidine Perio Chip in Therapy of Peri-Implantitis
Funder: Dexcel Pharma Technologies Ltd

Yefu Li
An Herbal Derivative as the Basis for a New Approach to Treating Post-Traumatic Osteoarthritis
Funder: Department of Defense

Chondro-Protective Effects of the Deletion of HtrA1 and Ddr2 in Mouse Knee Joints Against Osteoarthritis
Funder: Servier

Eli Machtei
The Use of Extra-Short Dental Implants for Rehabilitation of Missing Teeth
Funder: Medical Implant System Implants Technologies Inc.

Beate Lanske
The Regulation of the Parathyroid Gland
Funder: NIH/NIDDK

Role of Klotho in Osteoporosis and Renal Osteodystrophy
Funder: Department of Defense

Determine the Reproductive Phenotype of Fgf23 and Klotho Knock-out Mice
Funder: University of Copenhagen

Christine Murphy
Family Intervention with Caregivers of Children with Dental Needs
Funder: Case Western Reserve University

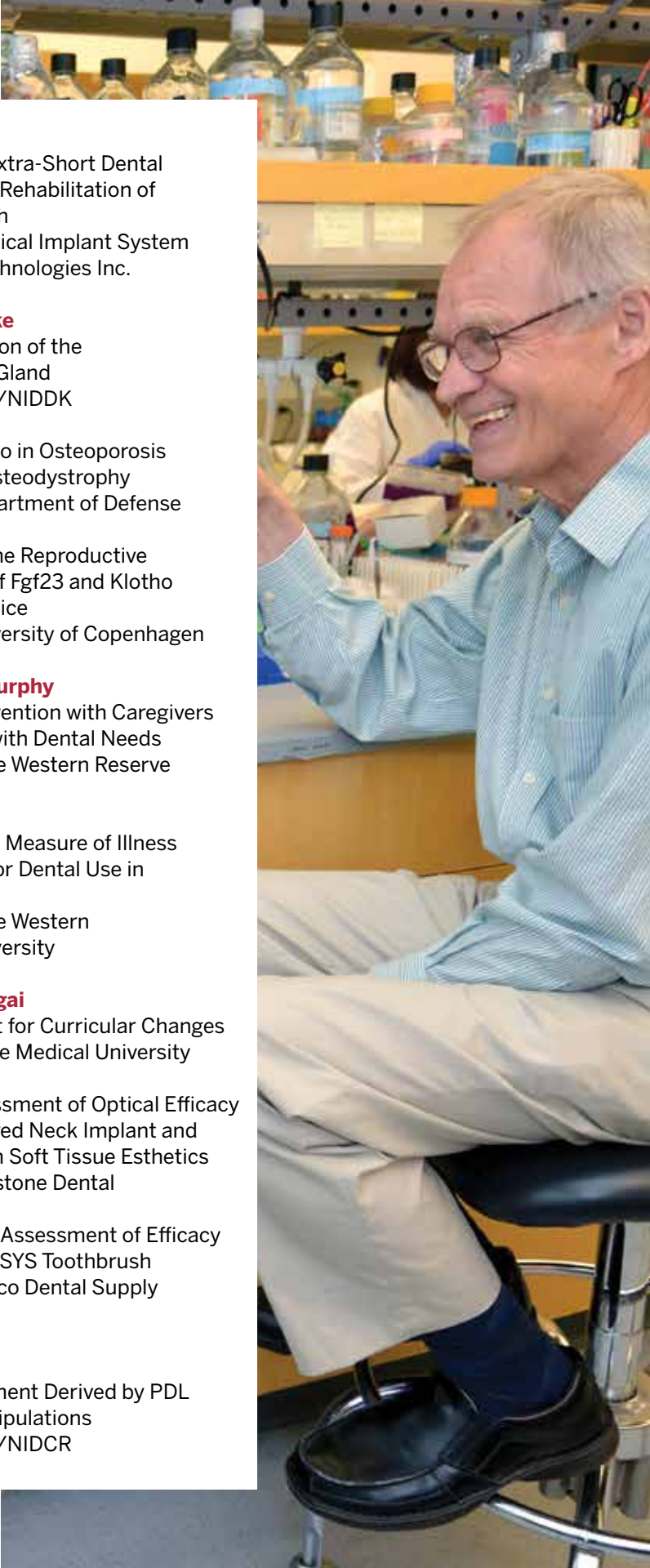
Developing a Measure of Illness Perception for Dental Use in Older Adults
Funder: Case Western Reserve University

Shigemi Nagai
Iwate Project for Curricular Changes
Funder: Iwate Medical University

In Vivo Assessment of Optical Efficacy of Pink Colored Neck Implant and Abutment on Soft Tissue Esthetics
Funder: Keystone Dental

Quantitative Assessment of Efficacy of New PRO-SYS Toothbrush
Funder: Benco Dental Supply Company

Gili Naveh
Tooth Movement Derived by PDL Cellular Manipulations
Funder: NIH/NIDCR





Martin Nweeia

Inuit Collaborative Workshop in Preparation for the Smithsonian Exhibit

Funder: National Science Foundation

Bjorn Olsen

Molecular and Cellular Mechanisms of Vascular Anomalies

Funder: NIH/NIAMS

COBRE for Skeletal Health and Repair

Funder: Rhode Island Hospital

Biogenesis of Extracellular Matrix

Funder: NIH/NIAMS

Vicki Rosen

BMP2 Signaling of the Development of Osteoarthritis

Funder: NIH/NIAMS

Identification, Characterization, and Utilization of Adult Meniscal Progenitor Cells

Funder: Department of Defense

Adult Bone Mass Regulation by Type 2 BMP Receptors

Funder: NIH/NIAMS

Jeffrey Shaefer

LMA-Inter-Professional Case-Based Pain Medicine Curriculum for Students of Dentistry, Medicine, Pharmacy, Psychology, and Nursing in Boston, MA

Funder: NIH/NIDA

LMA-Evaluation of the DentalVibe Injection Comfort System

Funder: DentalVibe Inc

Erica Shapiro

The Role of Salivary Mucin in Preventing Cariogenic Streptococcus Biofilm Formation

Funder: NIH/NIDCR

Paul Sohn

Cuspal Protection In the Age of Adhesive Dentistry

Funder: Greater New York Academy of Prosthodontics

Lisa Thompson

Geriatric Training Program for Physicians, Dentists, and Behavioral and Mental Health Professionals

Funder: Beth Israel Deaconess Medical Center

Oluwabunmi Tokede

Improving the Quality of Dental Care by Implementing a Clinical Checklist

Funder: NIH/NIDCR

Malcolm Whitman

Role of a Novel Secreted Protein Tyrosine Kinase in Development

Funder: NIH/NIDCR

Role of the First Secreted Tyrosine Kinase in Bone Development, Homeostasis, and Repair

Funder: NIH/NIAMS

The First Secreted Tyrosine Kinase

Funder: NIH/NIGMS

An Herbal Derivative as the Basis for a New Approach to Treating Post-Traumatic Osteoarthritis

Funder: Department of Defense

Identification of Cellular Regulators and Biomarkers of Fibrosis Targeted by AAR and EPRS Inhibitors

Funder: Allied Bristol Life Sciences

Clinical Care

PIONEERING NEW MODELS IN CARE

Connecting Dental Patients with Primary Care Resources

Harvard School of Dental Medicine DMD students and Northeastern University School of Nursing students have been working side-by-side in the Harvard Dental Center Teaching Practices as part of a collaboration to integrate dental and primary care service in a dental practice. The work is supported by funding from a \$1.2 million HRSA grant.

"The program has had a positive impact connecting patients with primary care providers," nurse practitioner Chantelle Marshall said.

Primary care nurse practitioners in the clinic have helped dental patients connect with care for other health concerns. In some cases, patients may not have seen a doctor in years. Nurse practitioners work with patients to find appropriate doctors and to acquire health insurance, which is one of the greatest barriers to primary care.

The presence of primary caregivers in the dental office has been especially effective in treating systemic health issues. A patient at the center can receive integrated care, for example, for both diabetes and periodontal disease as the two are related.

"What we're hearing from patients at the Harvard Dental Center is that they do have a great experience of care. They feel like the dental students and faculty there truly respect them and care about their overall health, not just their dental health," Program Director Jessica Holloman said.

One of the goals of the project is to increase access and quality of care to Boston-area patients, particularly those in diverse, vulnerable, or underserved communities, who may or may not have a primary care provider. By bringing more than one type of care to one clinic, the students are able to provide care for the whole patient and connect patients with other health services they may require.

Going forward, the project will continue to work towards its objectives to improve health outcomes and educate students in performing interdisciplinary care.





Dean's Innovation Challenge

The Dean's Innovation Challenge was launched in FY16 as a program to inspire HSDM faculty to consider innovative projects aimed at enhancing research, education, or patient care. Twenty-two projects in basic, clinical, translational, and social sciences were considered and evaluated based on the following criteria: their ability to gather pilot data that may be used to support future grant applications; their likeliness not to be funded by other mechanisms; their ability to build collaborative relationships across disciplines; and their sustainability and future growth potential. Four individuals were awarded Dean's Innovation Challenge awards of up to \$25,000:

DR. JASON LEE

(Restorative Dentistry and Biomaterials Sciences) – Virtual Patient Project

This project is a proof-of-principle for the development of a 4D virtual patient model. It aims to fuse several discrete data subsets to create a virtual patient with a dynamic jaw and facial tissue movements to redefine the approach to medical care.

DR. LISA SIMON

(Oral Health Policy and Epidemiology) – Preventative Periodontal Treatment

This project will assess the feasibility and impact of providing periodontal treatment to hospitalized patients with diabetes.

DR. ROSALYN SULYANTO

(Developmental Biology) – Human Oral Microbiome

This project will investigate the acquisition of the human oral microbiome and examine the effect of minimally invasive caries treatments on the oral microbiome in children.

DR. ALESSANDRO VILLA

(Oral Medicine, Infection, and Immunity) – Mobile Health Application

This project will evaluate an innovative, smartphone-based application to optimize measurement of faculty guidance and dental student or resident autonomy and articulate a common language with which faculty and residents can discuss criteria for success.



PROVIDING CARE AND EDUCATION

HSDM provides care to thousands of patients in the greater Boston area through many community clinics and programs. HSDM students and faculty offer public education, oral screenings, and dental treatments through programs such as: Action for Children and Teens in Oral Health Need (ACTION), Increasing Special Care Access and Patient Equality (ISCAPE) Special Needs Clinic, Pediatric Screening Program at the Boys and Girls Club, Project Bridge, Women, Infants, and Children (WIC) Pop-up Clinic, Give Kids a Smile, Operation Mouthguard, Wampanoag Tribe: Oral Health Relief Effort, and others.



Give Kids a Smile

Every year, HSDM participates in the Give Kids a Smile program, which brings children, ages one to 17 into the Harvard Dental Center for free dental screenings and fun, educational games that teach positive oral health habits. In February 2016, the program saw nearly 50 children in one day.

Give Kids a Smile is also an opportunity for HSDM students, from first- to fourth-years, to get hands-on experience working with young patients. Twenty-two HSDM students volunteered to work in the clinic or provide oral health education at the event.

“The majority of the patients that come to the event do not have a dental ‘home.’ We actually get a lot of patients who have just moved to this country or state, so it is an excellent opportunity for us to provide oral health care for our local community.”

–Dr. Zameera Fida, Director of Predoctoral Pediatric Dentistry



2015-16 HSDM Presidential Scholars

The Presidential Scholars program funded by HSDM and Harvard University's Office of the President, provides financial support for individuals who are committed to public service through career pathways, such as academic dentistry, research, leadership roles in public health or public policy, and a commitment to underserved populations or international health issues.

The following individuals were named Presidential Scholars in 2015-2016:

- NEGIN KATEBI, Orthodontics, Class of 2016
- SEYED HOSSEIN BASSIER, Periodontics, Class of 2017
- KARIM EL KHOLY, Implant Dentistry, Class of 2017
- MARCELO FRIERE, Periodontics, Class of 2016

- PETER CHEN, Orthodontics, Class of 2017
- JAE YOUNG KIM, Prosthodontics, Class of 2017
- LAURA JACOX, DMD/PhD, Class of 2016
- ROXANNE BAVARIAN, Oral Medicine, Class of 2019
- LIVIA VALVERDE, Periodontics, Class of 2019



Nashua Street Jail

Through the Crimson Care Collaborative, HSDM faculty and students work in a collaborative jail-based clinic serving inmates at the Nashua Street Jail in Boston who are pre-trial detainees or engaged in court processes. The clinic provides compassionate, evidence-based health and dental care to inmates with a specific focus on the transition back to community healthcare.

Crimson Care Collaborative: MGH Chelsea Healthcare Center

Dental care is provided to underserved and recent immigrant/refugee populations through the collaboration of HMS medical and HSDM dental students, as well as attending physicians and a licensed dentist. Patients who indicate they do not have a dental home, are experiencing a dental complaint, or who have findings of concern on exam are seen by the dental team in tandem with the medical team.



Wampanoag Tribe: Oral Health Relief Effort

HSDM faculty and students partner with the Wampanoag Tribe of Gay Head (Aquinnah) to provide better access to oral and systemic health care for the tribe and other underserved community members on the island of Martha's Vineyard, Mass. HSDM volunteers spend one day each month providing care at Martha's Vineyard Hospital (MVH) facilities. Students assist with all dental procedures, including extractions, endo, prophylaxis, cleaning, composite/amalgam restorations, crown preparation, and dentures. Students and faculty also participate in Wampanoag pow-wows and tribal meetings to learn more about the community and culture, as well as assess the range of oral health needs through screenings. The goal of the program is to improve access to care and to develop the possibility of a sustainable, comprehensive, and family-centered oral health care system for the native population.



SINCE 2014, THE HSDM TEAM HAS COMPLETED APPROXIMATELY
\$37,000
WORTH OF CLINICAL TREATMENT

Leadership

THE HSDM MISSION

To develop and foster a community of global leaders dedicated to improving human health by integrating dentistry and medicine at the forefront of education, research and patient care.

THE HSDM VISION

To transform dentistry by removing the distinction between oral and systemic health.



HSDM DEANS

DEAN

Bruce Donoff, DMD67, MD73,
Walter C. Guralnick Distinguished Professor
of Oral and Maxillofacial Surgery

VICE DEAN

John D. Da Silva, DMD87, MPH87, PD89, PD91
Associate Professor of Restorative
Dentistry and Biomaterials Sciences

DEAN FOR ADMINISTRATION AND FINANCE

Charles Frizzell

DEAN FOR RESEARCH

Bjorn R. Olsen
Professor of Developmental Biology;
Hersey Professor of Cell Biology, HMS

ASSOCIATE DEAN, DENTAL EDUCATION

Sang Park, MMSc01, PD01
Associate Professor of Restorative Dentistry
and Biomaterials Sciences

ASSOCIATE DEAN, DEVELOPMENT AND ALUMNI RELATIONS

Wanda Mock

ASSISTANT DEAN, CLINICAL AFFAIRS AND BUSINESS DEVELOPMENT

Catherine Ramos

ASSISTANT DEAN, GLOBAL AND COMMUNITY HEALTH

Jane Barrow, AB84, MS87

HSDM DEPARTMENTS

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Vicki Rosen, Chair and Professor
of Developmental Biology

ORAL HEALTH POLICY AND EPIDEMIOLOGY

Christine Ann Riedy Murphy, Interim
Chair and Associate Professor of Oral
Health Policy and Epidemiology; Delta
Dental of MA Professor in Oral Public
Health and Epidemiology

ORAL AND MAXILLOFACIAL SURGERY

Maria J. Troulis, Chair of Oral and
Maxillofacial Surgery; Walter
C. Guralnick Professor of Oral and
Maxillofacial Surgery

ORAL MEDICINE, INFECTION AND IMMUNITY

Roland Baron, Chair and Professor of
Oral Medicine, Infection, and Immunity;
Professor of Medicine, Massachusetts
General Hospital

RESTORATIVE DENTISTRY AND BIOMATERIALS SCIENCES

German Gallucci, Chair of Restorative
Dentistry and Biomaterials Sciences;
Raymond J. and Elva Pomfret Nagle
Associate Professor

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C. Leon Chen, DMD93
Robert Compton

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Bart J. Doedens
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Gerard M. Moufflet

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Dan Perkins
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Financial Summary



COMPARATIVE FINANCIAL STATEMENT

YEAR ENDED JUNE 30TH	2015	2016
Income Summary		
Tuition and fees	\$12,325,800	\$12,179,700
Endowment	8,628,400	8,730,300
Dean's endowment	858,300	912,200
Gifts for current use	563,200	327,200
Faculty Group Practice indirect	700,000	700,000
Other income	19,100	(600)
Government		
Direct	5,414,000	4,589,900
Indirect	2,901,100	2,740,700
Nongovernment		
Direct	988,400	1,270,600
Indirect	299,800	318,400
TOTAL INCOME	\$32,698,100	\$31,768,200

*Includes Offices of the Dean, Administration and Finance, Development and Alumni Relations, and Research

Expenses Summary		
Academic departments	\$4,188,900	\$4,330,700
Harvard Dental Center		
net clinical operations	6,200	749,700
Educational services	6,469,200	7,357,100
Administration*	6,966,500	6,607,500
University assessments	1,865,300	2,074,600
Operations and debt service	6,482,100	4,719,800
Research and training	6,637,800	6,084,500
TOTAL EXPENSES	\$32,616,000	\$31,923,900

Thank you for supporting the mission of the Harvard School of Dental Medicine.



HARVARD SCHOOL OF DENTAL MEDICINE

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PRODUCED BY
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PRINTING
Puritan Press



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With my compliments.

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