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2017 Dean’s Report // Fiscal Year 2016-2017
(July 1, 2016 through June 30, 2017)
MESSAGE FROM THE DEAN

In 2017, Harvard School of Dental Medicine (HSDM) celebrated a remarkable milestone – its 150th anniversary. It’s clear that many of the early ideals the School was founded on continue to reinforce and guide our educational mission to this day. As the first U.S. dental school associated with a university and its medical school, we are guided by the view that oral health is a vital part of overall health. We have produced leaders in dentistry that uphold this vision, and they have gone on to shape dental education at numerous dental schools and programs worldwide.

An assessment by the Commission on Dental Accreditation (CODA) this year reaffirmed our educational strengths. An early report by the accreditation committee supports HSDM’s culture and curriculum.

Our educational programs remain strong and competitive. Our DMD students receive unique training in comprehensive patient care and interdisciplinary teamwork that prepares them to be excellent clinicians and collaborators providing the best level of patient care. Our postdoctoral programs also continue to grow and thrive. This year, we launched a new two-year specialty program leading to a MMSc in Dental Education. In the spirit of our mission, the program is designed to train leaders who can drive change to meet advances in dentistry and shape the future of dental education.

In our research, we are leading scientific exploration into therapeutic strategies to treat craniofacial malformations, looking at early signals in liver cancer, and exploring the cause of inflammation in osteoarthritis, among other important projects. Grant projects have also put HSDM in the spotlight as a leader in interdisciplinary training. With funding from the Health Resources and Services Administration, we established a national Center for Integration of Primary Care and Oral Health, which serves as a resource for systems-level research on oral health integration into primary care training.

We also continue to lead efforts to promote oral health on a global level, with ongoing work in support of Rwanda’s first dental school and the nation’s first ever oral health survey. HSDM students and faculty travel around the globe to pursue research collaborations in Costa Rica, Dubai, Haiti, India, Vietnam and numerous other countries.

Underpinning all of these efforts, are dedicated and generous alumni, donors and friends. This year, their unprecedented support led to the establishment of an endowed student scholarship, as well as unrestricted gifts that will help fund the School’s most pressing needs. We have a lot to be proud of and inspired by, as we reflect on our 150-year history and look to the future. Thank you for your dedication to HSDM.

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

Making the Grade

The Commission on Dental Accreditation (CODA) reviews and evaluates dental education programs on a seven-year cycle. In FY17, the School’s faculty and administration prepared an extensive self-study for the CODA site visit in October 2017.

The areas of focus included
• Instruction and Curriculum
• Biomedical Sciences
• Behavioral Sciences
• Practice Management and Ethics
• Clinical Sciences
• Admissions
• Facilities and Resources
• Student Services and Financial Aid
• Health Services

CODA representatives reviewed the DMD program and advanced education programs, and had the opportunity to meet with students, faculty and staff. The verbal report from the Accreditation Committee supports HSDM’s educational efforts, culture, and curriculum. A full report is expected in 2018.

Making News

NPR’s All Things Considered interviewed HSDM faculty and students for a segment on how the opioid crisis has affected dental education. Drs. Jeffry Shaefer and David Keith, as well as students from the Class of 2019: Joshua Levine and Mindy Truong, and Class of 2018: Gabriel Grisham, Yisi (Daisy) Ji, Samuel Lee, Kellie Moore and Jonathan Shapiro talked with host Robert Seigel about new educational core competencies for pain management.
Advanced Graduate Education programs are offered in 16 different specialties and lead to a Doctor of Medical Sciences (DMSc) or Master of Medical Sciences (MMSc) degree and/or a specialty certificate. Forty advanced graduate education students entered this year, resulting in a total of 103 advanced graduate education students on campus and at affiliated sites.

NEW ADVANCED DEGREE PROGRAM

Training Dental Leaders

This year, HSDM launched a new two-year specialty program that leads to a MMSc in Dental Education. It is designed to train leaders who can drive change to meet advances in dentistry and shape the future of dental education. The MMSc in Dental Education Program is open to applicants who have completed or are expecting to complete a professional degree such as, but not limited to, DMD/DDS.

The academic program for the MMSc Program in Dental Education is based on related scientific evidence applied to educational quality, educational research, curriculum design, and academic leadership. The objective of this new program is to enable highly motivated individuals with proven scholarship and excellence in research to become strong academic leaders in curriculum design and mentorship of students and faculty.
SECOND YEAR TRANSITION

Ensuring Student Success

As second-year DMD students transition from HMS to HSDM, new seminars prepare them for comprehensive patient care and interdisciplinary teamwork. An Interprofessional Education (IPE) Series was introduced this year as part of the second-year curriculum. These sessions aim to help dental students make connections between oral and general health and appreciate the roles of an interprofessional team. The team included dental, medical, nurse practitioner, and public health faculty facilitators.

A new longitudinal program incorporates test case patients into several second-and-third-year courses to better prepare students for their clinical experience. In the Preclinical Simulation Continuum, second-year students were assigned two blank test patients (related to hypertension and diabetes) which allowed them to understand the patient model in AxiUm along with entering chart notes.

During the Give Kids a Smile event, HSDM students provide free dental care to local children.

Student Life & Learning
DIVERSITY AND INCLUSION
Promoting an Inclusive Community

Josephine Kim, PhD, joined HSDM in FY17 as director of diversity and inclusion. With a dual faculty appointment in the Department of Oral Health Policy and Epidemiology at HSDM and the Prevention Science and Practice/CAS in Counseling programs at the Harvard Graduate School of Education, Dr. Kim has brought new ideas and energy to the office. Student Diversity and Inclusion Fellows have an active role in planning programming and encouraging School-wide dialogue about diversity issues. Programming has included a series of Diversity Dialogues exploring subjects such as classism, belonging, community activism, culturally sensitive care, stereotypes, and other timely topics. A weekly newsletter “Diversity Roots and Canals,” serves as another resource to collectively engage with works that offer multiple perspectives on diversity issues.

NEW STUDENT SPACE
Classroom Upgrade

New classroom space was added to support an expanded number of classes, and meet technology and teaching needs. The Root Lounge in the Research and Education Building was designed and outfitted to support the instructional needs of the new curriculum. Equipped with state-of-the-art educational technology, the space can be configured as a flipped classroom, lecture hall, conference room, student/staff lounge, media sharing space, or function room for up to 50 people. Four large electronic displays in the room offer opportunities for sharing and viewing presentations and online resources.

Diversity and Inclusion Fellows

Thirteen Fellows from the Class of 2018, 2019, and 2020 were recognized for their outstanding leadership.

Ty Adeseye, 2019
Fiorella Candamo, 2019
Christina Cho, 2019
Jenay Davis, 2018
Vicky Herrera, 2019
Justin Montenegro, 2019
Edirin Sido, 2019

Jeffrey Taylor, 2020
Mindy Truong, 2019
Leonie Waldon, 2018
Chloe Wong, 2018
Leigh Yarborough, 2018
Nancy Zhu, 2020
Knowing that a substantial gift could make a big impact for a small school like Harvard School of Dental Medicine, Robert Chuong, DMD77, MD77, PD82, and his wife Elaine Wong, DMD, established a Charitable Lead Annuity Trust in the amount of $1 million for HSDM. The trust will provide the School with an annual sum for a term of 20 years.

"I feel thankful for the opportunity to go to Harvard. HSDM was naturally the place to give my gift. I appreciate that the School gave me a great education," Chuong said.

Chuong, an oral maxillofacial surgeon now in private practice, and Wong, a public health dentist, were inspired to give an unrestricted gift that would allow the School to fund core operations, or possibly allow students to attend HSDM who may not have had the chance to due to financial limitations.

"Bob and Elaine exemplify the spirit of HSDM’s mission. Bob has made an impact in the lives of countless patients throughout his career. Now his and Elaine’s gift to the School will make a difference in the lives of HSDM students," Dean Bruce Donoff said.
HSDM’s 150 Days of Giving campaign, which began on February 17 and culminated on July 17, 2017 (the School’s Founding Day) exceeded its goal of reaching 150 gifts within 150 days and secured a $20,000 matching gift from the Sesquicentennial Committee. More than $250,000 in total was raised for the endowed scholarship fund, opening a new source of financial assistance for the best and brightest students in need.

“...scholarships have not only made this experience possible, but have reduced my debt load that would otherwise make a community health career financially unfeasible.”

– Kellie Moore, DMD 2018 Candidate
RESEARCH HIGHLIGHTS

Battling Facial Birth Defects Through Science

A research finding by Harvard School of Dental Medicine’s Intini Lab could potentially lead to therapies that address craniofacial malformations in children. Craniofacial malformations are deformities that affect a child’s head and facial bones—disorders such as cleft palate, or craniosynostosis that are present at birth.

The Intini Laboratory, led by Dr. Giuseppe Intini assistant professor of Oral Medicine, Infection, and Immunity at HSDM and principal faculty member of the Harvard Stem Cell Institute, studied skeletal stem cells found in the skull and bones of the head (calvarial bone). As the skull forms to protect the brain, the sutures (or fibrous joints) of the skull remain an active site of bone formation during post-natal development. By studying a post-natal cell population of calvarial bone in mice, Intini’s team learned that skeletal stem cells expressing PRX1 live exclusively in the skull’s suture niches, decrease in number with age, and are a requirement for bone regeneration. Further, they discovered that upon transplantation the cells are able to regenerate bone. Their findings were published in Stem Cell Reports. Additional investigation of these cells could lead to novel and more effective therapeutic strategies for treatment of craniofacial malformations.

“We have been able to characterize the role of PRX1 expressing cells during post-natal life. Harnessing these cells for better regenerative therapies in humans is a challenge that lies in front of us. In collaboration with the surgeons at Boston Children’s Hospital we are ready to tackle it.”

– Dr. Giuseppe Intini
Investigating Osteoarthritis

The Ionescu Laboratory led by Dr. Andreia Ionescu, assistant professor of Developmental Biology, launched this year with funding from an NIH-NIAMS R01 Award to explore *Hypertrophy and Inflammation in Osteoarthritis*. The Lab focuses on the epigenetic regulation of skeletal development and disease, studying skeletal remodeling, pathology and regeneration.

Dr. Andreia Ionescu also received an Eleanor and Miles Shore 50th Anniversary Fellowship Award this year in honor of Aina M. Auskaps, DMD. This Award will help support her project, *Isolation and Characterization of a Chondrocyte Progenitor Population with Relevance to Osteoarthritis*. The purpose of the Shore Fellowship Program is to enhance the quality and diversity of the Faculty of Medicine at all ranks. Junior faculty are offered stipends at the most critical point in their academic careers.

National Cancer Institute Grant

Dr. Intini was also awarded an NIH/National Cancer Institute grant to identify the role of cancer stem cells in osteosarcoma development and metastasis. Osteosarcoma (OS) is the most common non-hematological malignant primary tumor in bone, mainly diffused in children and often very aggressive. Intini and his research team will explore the cellular architecture of OS, describing the location of various fluorescent cell populations within the neoplastic tissue, and the role these cell populations may have in OS recurrence.

Student Research

Student Research Day is an annual event, held in April, where DMD, MMSc, DSMc, and PhD candidates present research posters to faculty evaluators.
Funded Research Projects

FISCAL YEAR 2016-17

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

Roland Baron
Cellular Mechanisms of PTH1R Activation with Osteoporosis Treatments
Funder: Maine Medical Center

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

RSpondin: 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

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

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

Erica Frenkel
The Role of Salivary Mucin in Preventing Cariogenic Streptococcus Biofilm Formation
Funder: NIH/NIDCR

Bernard Friedland
Development Initiative for Ethical Review and Oversight of Health Research Involving Human Subjects in Rwanda
Funder: NIH/FIC

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

Andrea Ionescu
Hypertrophy and Inflammation in Osteoarthritis: Epistasis or Synergy
Funder: NIH/NIAMS

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
Dissemination: A Whole Systems Approach to Implementing Standardized Dental Diagnostic Terms
Funder: NIH/NIDCR
BigMouth: Implementing Dental Quality Measures in Practice  
**Funder:** University of Texas Health Science Center at Houston

Measuring Occurrence of and Disparities in Dental Clinic Adverse Events  
**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

**Soo-Woo Kim**
Comparison of Volumetric Changes of Soft Tissue around Dental Implants Following Connective Tissue Graft  
**Funder:** American Academy of Implant Dentistry

**Satya Kota**
Epigenetic Regulation of Skeletal Patterning and Morphogenesis During Development  
**Funder:** NIH/NIAMS

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

Chondroprotective 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.

Dimensional Changes of the Keratinized Gingiva and Vestibular Depth Following Socket Preservation Procedure Using Two Surgical Protocols  
**Funder:** Valeant Pharmaceuticals, LLC

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

PTH Resistance and Marrow Adipogenesis-R56 Bridge  
**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

Academic Units for Primary Care Training and Enhancement  
**Funder:** Health Resources and Services Administration

Patient Safety: Developing a Patient Safety System for Dentistry  
**Funder:** University of Texas Health Science Center at Houston
Shigemi Nagai
Quantitative Assessment of Efficacy of New PRO-SYS Toothbrush
Funder: Benco Dental Supply Company

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

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
Biogenesis of Extracellular Matrix
Funder: NIH/NIAMS

Vicki Rosen
Identification, Characterization, and Utilization of Adult Meniscal Progenitor Cells
Funder: U.S. Department of Defense

Adult Bone Mass Regulation by Type 2 BMP Receptors
Funder: NIH/NIAMS

11th International BMP Meeting
Funder: NIH/NIAMS

Jeffry Shaefer
Inter-professional Case-based Pain Medicine Curriculum for Students of Dentistry, Medicine, Pharmacy, Psychology, and Nursing in Boston, MA
Funder: NIH/NIDA

Lisa Simon
Interprofessional Oral-Systemic Health Curricular Innovation Awards
Funder: New York University

Paul Sohn
Cuspal Protection In the Age of Adhesive Dentistry
Funder: Greater New York Academy of Prosthodontics

Malcolm Whitman
Identification of Cellular Regulators and Biomarkers of Fibrosis Targeted by AAR and EPRS Inhibitors
Funder: Allied Bristol Life Sciences

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

Role of the First Secreted Tyrosine Kinase in Bone Development, Homeostasis, and Repair
Funder: NIH/NIAMS

Role of a Novel Secreted Protein Tyrosine Kinase in Development
Funder: NIH/NIDCR

The First Secreted Tyrosine Kinase
Funder: NIH/NIGMS

Yingzi Yang
Gas-Hedgehog Signaling In Intramembranous Bone Formation and Expansion
Funder: NIH/NIDCR

Molecular Mechanism of Wnt/Planar Cell Polarity Signaling
Funder: NIH/NCATS
Clinical Care

PATIENT FOCUS

The Harvard Dental Center’s mission is to set the standard of excellence and innovation in patient-centered care. The comprehensive dental care facility, houses the Teaching Practices where treatment is delivered by predoctoral dental students and advanced graduate education students, supervised by faculty; and the Faculty Group Practice, where care is provided by HSDM faculty members. As a multi-specialty group dental practice, the Faculty Group Practice combines general dentists, specialists in all areas of dental medicine, and dental hygienists.

Harvard Dental Center
By the Numbers

<table>
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<td>Staff Members</td>
<td>Faculty Group Practice Providers</td>
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- **35,265**: Patients as of Fall 2017
- **24,992**: Patient visits to the Teaching Practices (FY17)
- **17,625**: Patient visits to the Faculty Group Practice (FY17)
Faculty Provider Spotlight

Nalton Ferraro, DMD74, MD76

Dr. Ferraro served as an oral surgeon with Boston Children’s Hospital for 18 years. He joined the Faculty Group Practice in FY17. Over his career Dr. Ferraro has treated children with medical problems, congenital abnormalities, obstructive sleep apnea and facial pain. His oral surgical interests include: oral surgery for special needs and medically compromised children and adults.

Dr. Ferraro was honored by the DMD Class of 2017 with an Outstanding Teaching Faculty Award, an award voted on by the class to recognize faculty mentors.

“He is always encouraging and extremely helpful to his students in the operating room, not to mention, kind and comforting to all of our patients. He not only teaches us how to treat patients, he teaches us how to treat people,” said the students who nominated him.

Faculty provide teaching and patient care in both the Faculty Group Practice and Teaching Practices. From top: Drs. Peter Grieco, Negin Katebi, and Hiroe Ohyama.
With a five-year, $3.5 million cooperative agreement grant from the Health Resources and Services Administration (HRSA), Harvard School of Dental Medicine, in collaboration with Harvard Medical School, the University of Massachusetts Medical School, Massachusetts College of Pharmacy and Health Sciences, and the State University of New York at Stony Brook, has established a national Center for Integration of Primary Care and Oral Health (CIPCOH). CIPCOH serves as a resource for systems-level research on oral health integration into primary care training with special emphasis on enhancements that will train primary care providers to deliver high quality, cost-effective, patient-centered care that promotes oral health, addresses oral health disparities and meets the unique needs of all communities.

**LEADING NATIONAL EFFORTS TO INTEGRATE ORAL HEALTH AND PRIMARY CARE TRAINING**

With a five-year, $3.5 million cooperative agreement grant from the Health Resources and Services Administration (HRSA), Harvard School of Dental Medicine, in collaboration with Harvard Medical School, the University of Massachusetts Medical School, Massachusetts College of Pharmacy and Health Sciences, and the State University of New York at Stony Brook, has established a national Center for Integration of Primary Care and Oral Health (CIPCOH). CIPCOH serves as a resource for systems-level research on oral health integration into primary care training with special emphasis on enhancements that will train primary care providers to deliver high quality, cost-effective, patient-centered care that promotes oral health, addresses oral health disparities and meets the unique needs of all communities.

**Work in the first year of the project included:**

- Reviewing and synthesizing all currently available sets of oral health competencies and evaluating these competencies within primary care programs across the learning spectrum.

- Understanding the effects of implementing oral health curricula in primary care training on measurable changes (number of referrals and oral exams performed) in primary care practice.

- Assessing the quantity and quality of oral health and IPE (Interprofessional Education) training in primary care education at medical and dental schools.

Interprofessional training takes place in the Teaching Practices, where nurse practitioner students learn alongside dental students to treat the whole patient.
**International Collaboration**

**HAITI**
HSDM faculty are helping to build oral health capacity at the National Dental School and with Partners in Health’s University Hospital in Mirebalais.

**PERU AND COSTA RICA**
HSDM is working with local health authorities to train community health workers in oral health competencies.

**HSDM ALSO PARTICIPATES** in various levels of collaborations (clinical, social or basic science research or teaching initiatives) in the following countries:

- Austria
- Australia
- Belgium
- Bolivia
- Canada
- China
- Denmark
- Finland
- France
- Germany
- Italy
- Israel
- Japan
- Korea
- Malawi
- Mexico
- Netherlands
- Nigeria
- Norway
- Spain
- Sweden
- Thailand
- Uganda
VIETNAM
HSDM is exploring a partnership with Vietnam’s Ministry of Health to create a competency-based curriculum and national assessment for all dental schools.

DUBAI
HSDM is collaborating with private and public partners to improve health outcomes for diabetics with periodontal disease.

INDIA
HSDM is working to improve maternal-child health status and reduce prevalence of oral cancer.

RWANDA
HSDM faculty worked with colleagues in Rwanda on the country’s first ever National Oral Health Survey. The survey was conducted to establish baseline national oral health status, inform strategic planning, and build research capacity. Development and implementation of oral health promotion, prevention, disease management, and infrastructure relies on the availability of baseline national oral health information that was not available until now.
Leadership

HSDM hosted a Leadership Forum with leaders in healthcare and academia, as well as an Educational Summit focusing on the future of dental education.

150 YEARS OF LEADERSHIP IN DENTISTRY

During the School’s Sesquicentennial in 2017, Boston City Council passed a resolution in honor of HSDM’s 150th anniversary.

Councilors Ayanna Pressley and Josh Zakim presented the resolution to the School’s dean, Bruce Donoff, at a session in Boston’s historic Faneuil Hall.

The School’s Founding Day, July 17, was declared Harvard School of Dental Medicine Day in Boston.

“The Harvard School of Dental Medicine has long been a place of firsts, a place for pioneers who devote themselves to the deeply humane work of caring for people through the creation and application of knowledge. That work is visible today in the education of students, in the work of clinicians and researchers, and in the impact of efforts to promote oral health in communities both down the street and around the world.”

– Harvard President Drew Faust
ACADEMIC AND ADMINISTRATIVE 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

INTERIM DEAN, RESEARCH
Malcolm Whitman, PhD
Professor of Developmental Biology

ASSOCIATE DEAN, DENTAL EDUCATION
Sang Park, MMSc01, PD01
Associate Professor of Restorative Dentistry and Biomaterials Sciences

ASSOCIATE DEAN, DEVELOPMENT AND ALUMNI RELATIONS
Wanda Mock, MA

ASSISTANT DEAN, CLINICAL AFFAIRS AND SPECIAL PROJECTS
Catherine Ramos

ASSOCIATE DEAN, GLOBAL AND COMMUNITY HEALTH
Jane Barrow, AB84, MS87

DEPARTMENT CHAIRS

DEVELOPMENTAL BIOLOGY
Vicki Rosen, PhD, Chair and Professor of Developmental Biology

ORAL HEALTH POLICY AND EPIDEMIOLOGY
Christine Ann Riedy Murphy, PhD, MPH
Chair and Delta Dental Associate Professor of Oral Health Policy and Epidemiology

ORAL AND MAXILLOFACIAL SURGERY
Maria J. Troulis, DDS, MSc, Chair of Oral and Maxillofacial Surgery and Walter C. Guralnick Professor of Oral and Maxillofacial Surgery

ORAL MEDICINE, INFECTION AND IMMUNITY
Roland Baron, DDS, PhD, Chair and Professor of Oral Medicine, Infection, and Immunity; Professor of Medicine, Massachusetts General Hospital

RESTORATIVE DENTISTRY AND BIOMATERIALS SCIENCES
German Gallucci, DMD, PhD, Chair and Raymond J. and Elva Pomfret Nagle Associate Professor of Restorative Dentistry and Biomaterials Sciences

DEAN’S ADVISORY BOARD

Richard “Quinn” Dufurrena, DDS, JD
Maria Ryan
Patrik Eriksson
Petra Rumpf
Allen Finkelstein, DDS
Nachum Samet, DMD
Joseph Garcia
Robert N. Snyder
C. Leon Chen, DMD93
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Norton L. Travis
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Kevin M. Trexler
Chester Douglass, AM89, DMD, PhD
Anthony (Tony) Viazis, DDS, MS

DEAN
Steven W. Kess (Chair)

Ladan Basiripour, DMD93

Marcy Borofsky, DDS, PT, MPH

James P. Breslawski

Peter J. Klein, CFA

Ronald Greenspan, DMD, PD69

Joseph Garcia

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Gerald M. Moufflet

Div Perkins

Kimberly E. Ritrievi, PhD

Dan Perkins

Kenneth Wright, DMD78, MPH79

Chester Douglass, AM89, DMD, PhD

Maha Yakob, RDH, PhD
## Financial Summary

### COMPARATIVE FINANCIAL STATEMENT

#### YEAR ENDED JUNE 30

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<td>Dean’s endowment</td>
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<td>Gifts for current use</td>
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<td>Faculty Group Practice indirect</td>
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<td>Other income</td>
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<td>Indirect</td>
<td>2,740,700</td>
<td>2,280,100</td>
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<td><strong>4,589,900</strong></td>
<td><strong>3,915,800</strong></td>
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<td>Nongovernment</td>
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<tr>
<td>Direct</td>
<td>1,270,600</td>
<td>1,392,900</td>
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<tr>
<td>Indirect</td>
<td>318,400</td>
<td>189,600</td>
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<td></td>
<td><strong>1,270,600</strong></td>
<td><strong>1,392,900</strong></td>
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<tr>
<td><strong>TOTAL INCOME</strong></td>
<td><strong>$31,768,200</strong></td>
<td><strong>$31,559,500</strong></td>
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#### Expenses Summary

<table>
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<tr>
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<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td>Academic departments</td>
<td>$4,330,700</td>
<td>$4,464,000</td>
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<tr>
<td>Harvard Dental Center</td>
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<tr>
<td>net clinical operations</td>
<td>749,700</td>
<td>102,700</td>
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<td>Educational services</td>
<td>7,357,100</td>
<td>6,905,700</td>
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<td>Administration*</td>
<td>6,607,500</td>
<td>6,821,100</td>
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<td>University assessments</td>
<td>2,074,600</td>
<td>2,027,200</td>
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<td>Operations and debt service</td>
<td>4,719,800</td>
<td>5,678,100</td>
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<td>Research and training</td>
<td>6,084,500</td>
<td>5,534,900</td>
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<tr>
<td></td>
<td><strong>$31,923,900</strong></td>
<td><strong>$31,533,700</strong></td>
</tr>
</tbody>
</table>

*Includes Offices of the Dean, Administration and Finance, Development and Alumni Relations, and Research
Thank you for supporting Harvard School of Dental Medicine.
With my compliments.
Bruce Donoff
Dean