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 Northeastern 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
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, DMD’19 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.

“Building a Strong Foundation

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“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.

By the Numbers: Class of 2019

<table>
<thead>
<tr>
<th>Applications</th>
<th>947</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollees</td>
<td>35</td>
</tr>
<tr>
<td>Admit Rate</td>
<td>4.8%</td>
</tr>
</tbody>
</table>

Class of 2016 Postgrad Plans

- Advanced Education in General Dentistry (1)
- Endodontics (4)
- General Dentistry (2)
- General Practice Dentistry (3)
- MBA (1)
- Oral Surgery (8)
- Orthodontics (6)
- Pediatrics (5)
- Private Practice (5)
- Prosthodontics (1)
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

$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.

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

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.

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.

“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

FY16 Gift Distribution

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Fund</td>
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<tr>
<td>Life Income</td>
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<tr>
<td>Scholarship Fellowship</td>
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</tr>
<tr>
<td>Financial Aid</td>
<td>4%</td>
</tr>
<tr>
<td>Program Support</td>
<td>30%</td>
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</tbody>
</table>

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.

Fundraising Progress

FY16 Gifts by Alumni, Friends, and Organizations

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Alumni</td>
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<tr>
<td>Organizations</td>
<td>10%</td>
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<tr>
<td>Friends</td>
<td>64%</td>
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Campaign Progress

July 1, 2011 – June 30, 2016

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<th>Current</th>
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<td>$7.1M</td>
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<td>$0</td>
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</tbody>
</table>
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

2015-16 HSDM Dean’s Scholars

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

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Investigator</th>
<th>Funder</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Effects of Nanostructure on Bone Cell Responses: Role of YAP/TAZ and Wnt Signaling</td>
<td>Joshua Chou</td>
<td>ITI International Team for Implantology</td>
</tr>
<tr>
<td>Nurse Education, Practice, Quality, and Retention (NEPQR) Program - Interprofessional Collaborative Practice</td>
<td>John Da Silva</td>
<td>Northeastern University</td>
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<td>A Prospective Clinical Trial Comparing Conventional Dental Implants and Trabecula Metal Dental Implants After Staged Sinus Floor Elevation Procedures</td>
<td>Seyed Hossein Bassir</td>
<td>Merck Sharp &amp; Dohme Corp.</td>
</tr>
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<td>Zimmer Dental Inc</td>
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<td>Benco Dental Supply</td>
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<td>Dexcel Pharma</td>
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<td>University of Copenhagen</td>
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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.
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. 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. 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. 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.

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.

**Community**

**PROVIDING CARE AND EDUCATION**

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, prophy, 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 Biomatelics 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 Biomatelics 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
DEVELOPMENTAL BIOLOGY
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 Biomatelics Sciences; Raymond J. and Elva Pomfret Nagle Associate Professor

DEAN’S ADVISORY BOARD 2016
Steven W. Kess (Chair)
Gillian Barclay, DPH99
Ladan Basiripour, DMD93
Marcy Borofsky
James B. Bramson
James P. Breslawski
Julie B. Charlestein
C. Leon Chen, DMD93
Robert Compton
Mary Lee Conicella
Bart J. Doedens
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Financial Summary

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

Financial Summary

2015

Income Summary

Tuition and fees $12,325,800
Endowment 8,628,400
Dean’s endowment 858,300
Gifts for current use 563,200
Faculty Group Practice indirect 700,000
Other income 18,100

Government

Direct 5,414,000
Indirect 2,901,100

Nongovernment

Direct 988,400
Indirect 299,800

TOTAL INCOME $32,698,100

Expenses Summary

Academic departments $4,188,900
Harvard Dental Center net clinical operations 6,200
Educational services 6,666,500
Administration* 1,865,300
University assessments 6,482,100
Research and training 6,637,800

TOTAL INCOME $32,616,000

2016

Income Summary

Tuition and fees $12,179,700
Endowment 8,730,300
Dean’s endowment 912,200
Gifts for current use 327,200
Faculty Group Practice indirect 700,000
Other income (600)

Government

Direct 4,589,900
Indirect 2,740,700

Nongovernment

Direct 1,270,600
Indirect 318,400

TOTAL INCOME $31,768,200

Expenses Summary

Academic departments $4,330,700
Harvard Dental Center net clinical operations 749,700
Educational services 7,357,100
Administration* 2,074,600
University assessments 4,719,800
Research and training 6,084,500

TOTAL INCOME $31,923,900

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

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