STRENGTHENING THE PIPELINE IN OHIO

ELEMENTARY SCHOOL | HIGH SCHOOL | COLLEGE
UNDER REPRESENTED MINORITY
FIRST IN FAMILY
APPALACHIA
DISADVANTAGED BACKGROUND

COLLEGE OF DENTISTRY
H.O.M.E. COACH
COMMUNITY SERVICE
O.H.I.O. PROJECT
DENT PATH
GKAS
1. Ohio State: A Land-Grant University
2. More Health Science Colleges Than …
3. College of Dentistry
4. Strengthening the Pipeline
5. Plans for the Future: 2013 and Beyond
The Ohio State University

- Founded as a federal land-grant institution in 1870
- Awarded 622,368 degrees since 1878
- More than 465,000 living alumni
- 3rd largest student population in the U.S.
The Ohio State University

- Main campus in Columbus
  - more than 55,000 students
  - 175 undergraduate majors
  - 240 master’s, doctoral, and professional degree programs.
- Ranked as one of the nation’s top-20 public universities
- Designated a 1A research intensive university
- Ranks 2nd among all U.S. universities in industry-sponsored research
1. Ohio State: A Land-Grant University
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Health Science Colleges

Seven colleges that confer terminal degrees

- College of Dentistry
- College of Nursing
- College of Medicine
- College of Optometry
- College of Pharmacy
- College of Public Health
- College of Veterinary Medicine

Partners in inter-professional education, research, and community service
Health Science Colleges

- OSU Wexner Medical Center named one of the country’s best 19 years in a row
- The James Cancer Center is one of only 10 NCI-designated Comprehensive Cancer Centers nationwide
- Named among Top 10 Medical Centers by *U.S. News and World Report*
1. Ohio State: A Land-Grant University
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3. **College of Dentistry**
4. Strengthening the Pipeline
5. Plans for the Future: 2013 and Beyond
Ohio State’s Medical Center Campus

College of Dentistry
Our Mission

- The mission of the College of Dentistry is to **produce dental professionals** who are prepared for entry into practice, advanced education, or specialized practice.
- Graduates are **prepared to meet** the oral health care needs of the citizens of Ohio and the nation, to conduct research that will expand the scientific base upon which dentistry is practiced, and to provide service to the profession.
Our Work Affects Every Ohioan

THE OHIO STATE UNIVERSITY COLLEGE OF DENTISTRY

- Only public dental school in the state
- Educates approximately 65% of Ohio’s dentists
- Educates most dental specialists in Ohio
- 128,970 patient interactions in 2011-12
- Sponsors 8 residency programs, including dental anesthesiology, endodontics, general practice, oral and maxillofacial surgery and oral pathology, orthodontics, pediatric dentistry, periodontics, and prosthodontics
- Ohio’s only dental school-based dental hygiene program; the only dental hygiene program offering EFDA training
About Our College: Points of Pride

- 92 full-time and 139 part-time faculty
- 420 enrolled in DDS program
  - 85% are residents from OH
- More than 11,000 alumni
- Receives $4 M in external research funding
Our Commitment

- **Graduating professionals** who provide the highest quality of care and service to the people of Ohio

- **Discovering new knowledge** through research that inspires innovations in the biomedical, behavioral, and clinical sciences

- **Providing oral health care** to a diverse patient population in a variety of settings
College of Dentistry: 
Educational Programs

Dentistry
- 420 DDS students: ~110 in each class and 85% from Ohio
- 6 DDS/PhD students: a 7-year commitment

Dental Hygiene
- 59 dental hygiene students: BS degree ~ 30 in each class
- Degree completion: BS degree
- New master’s degree program: ~ 5 in each class

Graduate/Advanced Educate programs
- 93 in advanced education programs: 1 to 4 years
The College of Dentistry

Clinical service
- 128,970 patient interactions
- 29,767 discrete patients
- One of the top providers for Ohio's Medicaid patients
  - Student clinics: 8.4%
  - Resident clinics: 13.1%
The Ohio State University College of Dentistry
Profile of the Incoming Dental Class of 2016

Number of Students in the Class

<table>
<thead>
<tr>
<th>Gender</th>
<th>Caucasian (54%)</th>
<th>Male (60)</th>
<th>Female (50)</th>
<th>African American (3%</th>
<th>Asian Pacific Islander (14%)</th>
<th>Native American (2%)</th>
<th>Hispanic (4%)</th>
<th>In State (82%)</th>
<th>Out of State (18%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>60 (54%)</td>
<td>50 (46%)</td>
<td>83 (75%)</td>
<td>3 (3%)</td>
<td>14 (14%)</td>
<td>2 (2%)</td>
<td>4 (4%)</td>
<td>89 (82%)</td>
<td>21 (18%)</td>
</tr>
</tbody>
</table>

Overall GPA 3.65
Science GPA 3.46
Non-Science GPA 3.74
BCP (bio, chem, physics) 3.44

DAT AA 20.05
DAT PAT 20.59
Fear of loan debt grows for dentists, doctors

By Jill Riepenhoff and Mike Wagner
THE COLUMBUS DISPATCH

Part of Patrick Lloyd’s job as dean of Ohio State University’s College of Dentistry includes helping future dentists overcome their fear of debt.

Because when they graduate, they will owe an average of $195,000 in student loans. They will owe more than Ohio State’s medical-school graduates. In fact, they will owe more than anyone else graduating from the state’s flagship university.

“Our graduates are having debt loads for a long time,” Lloyd said. “Our student-debt level concerns me.”

With debts so massive, any financial missteps or career miscalculations can have significant, lifelong consequences.

Lawyers and health-care professionals carry the largest student-debt loads in the

Banned health-care workers

More than 2,300 health-care professionals — including doctors, dentists and pharmacists — have been banned from collecting patient payments from Medicare or Medicaid because they have defaulted on their federal student loans.

BANNED FROM COLLECTING MEDICARE OR MEDICAID PAYMENTS

1 to 9 10 to 99 100 to 200 600 or more

MOST FREQUENTLY BANNED HEALTH-CARE PROFESSIONALS

Chiropractors 1,230
Dentists 407
Family physicians 181
Podiatrists 155
Osteopaths 72

“I have served three combat tours. Yet, I am enslaved by my student debt.”

Military doctor who wrote to federal officials

to the loans, said the debt has mushroomed despite having paid $45,000 more than he originally borrowed.

His loan troubles escalated mainly because the payments were too high, he said, and he barely made enough money to live on after dental school. He admits making things worse by delaying payments and consolidating the loans, which made his debts even bigger.

“Like a fatal disease, they have adversely affected everything I’ve done since about 1999,” he said. “Everywhere I have turned, they have taken them decades to dig their way out of the debt. The public policy surrounding student debt for health-care professionals is partly to blame,” said David O’Bryon, executive director of the American Chiropractic Association.

Chiropractic students have been ineligible to receive subsidized government loans, so interest accumulated while they were in school. They will not feel so alone in July, when the interest subsidy will vanish for all students enrolled in graduate programs or above.

Chiropractors also have been banned from participating in programs that offer up to $50,000 in loan forgiveness in exchange for working two years in a community-health center or in an area in desperate need of health care.

“We need equal access into those programs,” O’Bryon said. “You have a
# Tuition and Fees Comparison

## Dentistry vs. Medicine

### College of Dentistry

- **Dent 1**: $33,375 (+ $1,127)
- **Dent 2,3,4**: $44,500 (+ $1,236)

### College of Medicine

- **Med 1**: $32,448
- **Med 2,3,4**: $43,264
Financial Debt Comparison
Dentistry vs Medicine

College of Dentistry

Class of 2009  $172,771
Class of 2010  $183,508
Class of 2011  $187,216
Class of 2012  $203,064

College of Medicine

Class of 2009  $141,220
Class of 2010  $150,143
Class of 2011  $152,028
Class of 2012  $155,628
## Number of Students in Each Advanced Education Program

<table>
<thead>
<tr>
<th>Advanced Education Program</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5+</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Anesthesiology</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Endodontics</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Oral &amp; Maxillofacial Surgery</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Oral &amp; Maxillofacial Pathology</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>3</td>
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<tr>
<td>Orthodontics</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td>15</td>
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<tr>
<td>Pediatric Dentistry</td>
<td>7</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td>14</td>
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<tr>
<td>Periodontics</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Prosthodontics</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>General Practice Residency</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Oral Biology (PhD)</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td></td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>39</td>
<td>28</td>
<td>18</td>
<td>2</td>
<td>8</td>
<td>93</td>
</tr>
</tbody>
</table>
Advanced Education Programs

- Collection of programs attracts a wide mix of patients
- Provides a scope of advanced expertise needed to manage complex interdisciplinary patient treatments
- Assists in the preparation of future academicians and researchers
- Creates atmosphere of discipline pride
- Fosters collaboration among school faculty
1. Ohio State: A Land-Grant University
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Access to dental care is the #1 unmet health care need in Ohio – for those at risk*

*Ohioans under age 18 and those over 18 with limited resources
Oral Health Isn't Optional!
A Report on the Oral Health of Ohioans and Their Access to Dental Care, 2011

Percentage of Ohio Working-Age Adults (18-64 of age) with unmet Dental Care Needs, Ohio Family Health Survey, 2008

Legend:
- Green: 5.1-10.0%
- Light Blue: 10.1-15.0%
- Medium Blue: 15.1-20.0%
- Purple: 20.1-25.0%
- Dark Purple: >25.0%
Upward Bound Programs

- *Upward Bound* is a successful college access program that was established in 1967 and is sponsored by the U.S. Department of Education.

- *Upward Bound* provides readiness skills and support services for high school students who are potential first-generation college students.

- The program cultivates resilience, confidence, and preparation for a successful transition to -- and graduation from -- a college or postsecondary institution of learning.
Upward Bound at the College of Dentistry

- Saturday, April 27, 2013
- 9th-12th graders from Franklin County - 19 attendees
- Exposure to the field of dentistry, “real-life” dental students, and hands-on experiences in our pre-clinic lab
- Majority of students from under-represented minorities; all from disadvantaged backgrounds
18 high school students presenting projects in the area of dental science
STRENGTHENING THE PIPELINE IN OHIO

- Elementary School
- High School
- College

- Under Represented Minority
- First In Family
- Appalachia
- Disadvantaged Background

- College of Dentistry
- Volunteer Service
- Community Service
- O.H.I.O. Project
- H.O.M.E. Coach
- G.K.S.
<table>
<thead>
<tr>
<th>Central State University*</th>
<th>Cleveland State University</th>
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<tbody>
<tr>
<td>Metro High School</td>
<td>University of Cincinnati</td>
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<tr>
<td>Wright State University</td>
<td>Malone University</td>
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<tr>
<td>Muskingum University</td>
<td>Walsh University</td>
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<tr>
<td>Miami University</td>
<td>Ohio Northern University</td>
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<tr>
<td>Ohio State University, Lima</td>
<td>Bowling Green State University</td>
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<tr>
<td>University of Findlay</td>
<td>Northwestern University*</td>
</tr>
<tr>
<td>Shawnee State University</td>
<td></td>
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</tbody>
</table>

* URM specific event
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COMMUNITY SERVICE

O.H.I.O. PROJECT

H.O.M.E COACH

GKAS
DentPath Program: 2005 - Present

- One-year post-baccalaureate program
- Enables students to be more competitive and successful in the dental school environment
- Program mission: increase the number of dental students who are under-represented or are from economically or educationally disadvantaged backgrounds
## DentPath Program Statistics

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tr>
<td>INTERVIEWED</td>
<td>16</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>ACCEPTED</td>
<td>9</td>
<td>5</td>
<td>7</td>
<td>10</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>ENROLLED</td>
<td>6</td>
<td>4</td>
<td>7</td>
<td>9</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>DECLINED</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>AVG UG GPA</td>
<td>3.25</td>
<td>3.01</td>
<td>2.99</td>
<td>3.12</td>
<td>3.18</td>
<td>2.67</td>
<td>2.53</td>
<td>2.79</td>
</tr>
<tr>
<td>AVG DENTPATH GPA</td>
<td>N/A</td>
<td>3.62</td>
<td>3.53</td>
<td>3.59*</td>
<td>3.35*</td>
<td>3.35</td>
<td>3.45</td>
<td>3.57</td>
</tr>
<tr>
<td># OF STUDENTS WHO MATRICULATED TO COD</td>
<td>N/A</td>
<td>4</td>
<td>7</td>
<td>7***</td>
<td>4***</td>
<td>2</td>
<td>1***</td>
<td>2</td>
</tr>
</tbody>
</table>
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COMMUNITY SERVICE
VOLUNTEER PROJECT
O.H.I.O.
O.H.I.O. Project

- **Oral Health Improvement through Outreach**

- **Service, 2011-2012:**
  - 8,875 patients seen
  - $1,200,000 in dental services provided to individuals in need

- Working together to serve the needs of Ohioans!
### Community-based Education Service Sites

- **22 clinic sites**
- **50 days per D4 student**

#### Ohio Project Sites

**November 9, 2011**

<table>
<thead>
<tr>
<th>Site Code</th>
<th>Site Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Columbus Health Dept.</td>
</tr>
<tr>
<td>002</td>
<td>Muskingum - Valley Health Center</td>
</tr>
<tr>
<td>003</td>
<td>East Central Family Health Center</td>
</tr>
<tr>
<td>004</td>
<td>Coshocton Dental Clinic</td>
</tr>
<tr>
<td>005</td>
<td>Nisonger Center</td>
</tr>
<tr>
<td>006</td>
<td>Third Street Family Health Services</td>
</tr>
<tr>
<td>007</td>
<td>Geriatric Dentistry Program (or #522)</td>
</tr>
<tr>
<td>008</td>
<td>Johnstown Rd. Nisonger Ctr. Dental Program</td>
</tr>
<tr>
<td>009</td>
<td>Children’s Hospital</td>
</tr>
<tr>
<td>012</td>
<td>Northside Dental Center</td>
</tr>
<tr>
<td>013</td>
<td>Millvale Dental **</td>
</tr>
<tr>
<td>014</td>
<td>Dental H.O.M.E. Coach</td>
</tr>
<tr>
<td>018</td>
<td>Dental Center of Northwest Ohio</td>
</tr>
<tr>
<td>019</td>
<td>St. Elizabeth Health Center</td>
</tr>
<tr>
<td>022</td>
<td>MetroHealth Medical Center</td>
</tr>
<tr>
<td>023</td>
<td>Stark County Health Department</td>
</tr>
<tr>
<td>026</td>
<td>Chillicothe VA</td>
</tr>
<tr>
<td>027</td>
<td>Lima Dental Center</td>
</tr>
<tr>
<td>032</td>
<td>Walnut Hills Evanston Health Center</td>
</tr>
<tr>
<td>033</td>
<td>Canton Mercy Hospital</td>
</tr>
<tr>
<td>035</td>
<td>Columbus VA</td>
</tr>
<tr>
<td>036</td>
<td>Columbus Neighborhood Health Center - West Side Clinic</td>
</tr>
</tbody>
</table>

*As of January 2012*
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COMMUNITY SERVICE
O.H.I.O. PROJECT
G.K.S.
H.O.M.E. Coach

- **Health Outreach Mobile Experience**
  - mobile dental clinic

- **Service in 2012**
  - 2,843 patients treated in Franklin County
  - 9,723 procedures provided
  - Totaling $353,990 in dental services
Community Oral Health: Outreach and Engagement Programs

Meet educational and service objectives:

- Experience greater variety of oral health care needs
- Provide direct care to underserved populations
- Students hone their clinical skills, increase confidence and efficiency in patient care
- Develop broad understanding of professionalism
- Introduces students to lifestyles and dental practices in a variety of Ohio communities
- Increases the likelihood that students will practice in underserved communities after graduation
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Appalachia |  |  
Disadvantaged Background |  |  

College of Dentistry
Volunteer Community Service
O.H.I.O. Project
H.O.M.E. Coach
GKAS
Student Dental Organizations

HDA
HISPANIC DENTAL ASSOCIATION

NDA
NATIONAL DENTAL ASSOCIATION

American Dental Association
America’s leading advocate for oral health

A.A.W.D.
American Association of Women Dentists

PDSA
SHAPING FUTURE FOR DENTAL STUDENTS
Community Oral Health: Volunteer Programs

- Dentistry from the Heart
- Center for Latin Hope
- Clinica Latina
- Stowe Mission of Central Ohio
- Physicians Care Connection: located at the Columbus Neighborhood Health Center
Columbus Neighborhood Health Center provides a weekly primary care “free clinic” staffed by volunteer physicians.

Dental clinic provides free care alternate Monday evenings; staffed by volunteer dentists and dental and dental hygiene students.
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GKAS
Give Kids a Smile® Day

- One Saturday in Fall and Winter
- ~ 150 patients receive comprehensive care
- Over $30,000 in services provided
- Volunteers: DDS and DH students and faculty; specialty residents; support staff; pre-dental students
- Initiative led by students
  - Organization
  - Fund raising
  - Implementation
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Plans for the Future: 2103 and Beyond

- Promote dentistry careers in underserved communities
- Provide additional scholarships to students from under-represented groups
- Increase the number of dental students in each class
  - New slots for students from Ohio’s underserved counties
- Demonstrate a greater appreciation for cultural differences
- Affiliate with more public health clinics in Appalachia (southeastern Ohio)
- Increase incentives to practice in underserved areas
Staying Informed

www.dent.osu.edu
Strengthening the Pipeline in Ohio to Improve Oral Health