Invaluable Resource to Iowa
Influence the Direction of Dentistry in Iowa, the U.S., and Around the World

March 2, 2016

David Johnsen
The University of Iowa College of Dentistry
Practicing Alumni by County

Total = 1,138
An estimated 98% of Iowans are within a 30-minute drive of a practicing alum.

About 80% of Iowa dentists are from the College of Dentistry.

An estimated $800 million in dental care to Iowa citizens.
Fulfilling Iowa’s Need for Dentists
A Collaborative Partnership since 2008

FIND
FULFILLING IOWA’S NEED FOR DENTISTS

Perspectives

Retaining New Dentists in Iowa: A Role for Dental Schools in Facilitating Graduates’ Connections to Practice Opportunities in Underserved Areas


Abstract: Like many other states, Iowa has an aging dental workforce. As this aging population of dentists retires and communities are unable to find new dentists to take over these practices, many rural communities lack easy access to oral health care. The University of Iowa College of Dentistry and Dental Clinics established the Office of Iowa Practice Opportunities in 2006 to promote dental practice opportunities in Iowa for its graduates. With this office, an infrastructure connecting the college with practices and communities across the state has been developed. The Office of Iowa Practice Opportunities is the first place many students go to decide what they will do after graduation and to identify practice opportunities in Iowa. This article describes the office's initial expectations and has provided significant assistance in negotiating state-of-the-art practice opportunities and ensuring access to oral health care in the state. This article outlines the ways in which the Office of Iowa Practice Opportunities has a place in the state of Iowa.
Outreach Activities

[Images of various outreach activities, including a large event with many people wearing blue scrubs, a close-up of two dentists working on a patient, a young child smiling, and a mobile dental unit.]
900 applicants for 80 slots
70% of class are Iowa Residents
Most years we have students from either every county or the immediately contiguous county
Academic profile of entering class: 3.73 average GPA, above the national average standardized test scores
Tuition scholarships are awarded to students from all parts of Iowa
Our Students

NBDE Part II Failure Rate 2008-12

- Iowa
- National

<table>
<thead>
<tr>
<th>Year</th>
<th>Iowa</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>19.6</td>
<td>2.6</td>
</tr>
<tr>
<td>2010</td>
<td>1.3</td>
<td>5.9</td>
</tr>
<tr>
<td>2011</td>
<td>1.8</td>
<td>5.2</td>
</tr>
<tr>
<td>2012</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2013</td>
<td>1.4</td>
<td>6.7</td>
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<tr>
<td>Average</td>
<td>10.23</td>
<td>1.43</td>
</tr>
</tbody>
</table>
2013 - 2014 Patient Visits

Total = 154,521
National Leaders in Oral Health

Dental Public Health
- Steve Levy
- John Warren
- Bill Johnson
- Justine Kolker
- Kirk Fridrich

Oral Pathology
- John Hellstein
- Art Nowak
- Georgia Johnson
- Steve Aquilino
- Clark Stanford
Iowa victory
Des Moines Water Works to continue fluoridating water supply

By Stacie Crozier

Des Moines, Iowa—After soliciting public comments on fluoridation for six weeks, the Des Moines Water Works Board accepted a recommendation from its technical staff Dec. 17, 2013 to continue fluoridating its water supply.

The DMWW serves about 500,000 customers in central Iowa. It has been fluoridating for more than 50 years.

After reviewing more than 650 comments both for and against fluoridation, DMWW technical staff recommended continuing fluoridation, finding it “appropriate for public health” and “consistent with the balance of scientific and medical opinions currently available.” Public comments and more information is posted on the DMWW website at www.dmww.com/water-quality/fluoride-comments/.

DMWW staff presented the recommendation Dec. 3, 2013, to the DMWW Planning Committee. In addition to the hundreds of comments submitted to the company, about 80 people attended the meeting to offer comments in person.

Members of the local dental society began organizing an informational campaign in mid-October, as soon as the water supplier began inviting comments, said Dr. Blair Smith, Des Moines District Dental Society president.

“We had relatively little time to prepare. We became involved in mid-October, and the board was set to decide in the first part of December. In reality, we had about six weeks to get ready.”

Dr. Smith: “In reality, we had about six weeks to get ready.”

Dr. Levy: Gratified that scientific evidence won out.

The dental society’s strategy, said Dr. Smith, was to encourage involvement of local dentists in the process, including pediatric dentists, the Iowa Department of Public Health, the Iowa Dental Association, Iowans for Oral Health and the University of Iowa College of Dentistry.

“I was very pleased that the DMWW board and professional staff relied on the scientific evidence.
National Recognition
New Dental Accreditation Standard on Critical Thinking: A Call for Learning Models, Outcomes, Assessments

David C. Johnsen, DDS, MS; John N. Williams, DMD, MBA; Paulette Gay Baughman, DMD; Darren M. Roesch, PhD; Cecile A. Feldman, DMD, MBA

Abstract: This opinion article applauds the recent introduction of a new dental accreditation standard addressing critical thinking and problem solving but expresses a need for additional means for dental schools to demonstrate they are meeting the new standard. Becoming attitudinal outcomes, learning models, and assessments of competence are still being developed. Validated, research-based learning models are needed to define reference points against which schools can design and assess the education they provide to their students. This article presents one possible learning model for this purpose and calls for national experts from within and outside dental education to develop models that will help schools define outcomes and assess performance in educating their students to become practitioners who are effective critical thinkers and problem solvers.

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Keywords: dental education, accreditation, critical thinking, thinking, problem-solving, educational measurement

Assessing Competence in Critical Thinking

All agree that accreditation is essential and that the new Commission on Dental Accreditation (CODA) standard on critical thinking addresses necessary qualities of dental graduates, and most agree with a good deal of the general text of the standard. However, the standard does not address the attitudinal, the psychological, or the cognitive aspects of the thinking process, nor does it address the education needed to promote these aspects.

The new CODA Standard 2.9 states: “Graduates must be competent in the use of critical thinking and problem solving, including their use in the care of patients, scientific inquiry, and professional conduct.” The standard, which was adopted in 2018, emphasizes education, assessment, and institutional commitment to an integrated learning environment. The article highlights the need for validated learning models and calls for national experts to develop educational models to help schools define outcomes and assess performance in educating students to become effective critical thinkers and problem solvers.
● Third in school presentations at American Association for Dental Research 2016

● Second in papers published in the Journal of Dental Education 2014
International Impact
Teeth Can Heal
Hosted 8 national and regional meetings in 6 months

- Midwest Regional Dental Student Research Conference
- American Student Dental Association District 8 Conference
- James S. Wefel Symposium on Early Childhood Caries
- 13th Biennial Donald B. Osbon Memorial Lecture
- 4th Annual FaceBase Consortium
- American Board of Maxillofacial Radiology Review Course
- The Advance Programs in Clinical Endodontics Symposium
- Regional Dental Public Health Conference
Thank You!

Go Hawks!