

**Indiana University School of Dentistry Report**  
**IUPUI Deans' and Vice Chancellors' Reports for**  
**2012 Reaccreditation by NCA's Higher Learning Commission**  
*Based on 2001-2010 Annual Reports*

**Teaching and Learning**

Major Accomplishments:

1. Implementation of student centered learning which included problem based learning environments- Dentists must develop a rational system of inquiry and knowledge retrieval to use when confronted with dental health problems. It is important to be able to effectively identify what must be learned in order to understand the mechanisms that underlie a patient's complaint. For these reasons, and others, IUSD incorporated a significant amount of problem-based learning (PBL) into its curriculum.

The clinical reasoning process is the "scientific method" applied to patient problems and care, and this process is nurtured in PBL sessions. These sessions utilize a series of real-life patient problems that provide an opportunity to develop clinical reasoning skills. For the student, the learning method is a very active one. In each session, the student must analyze and synthesize available data, develop and test hypotheses and apply deductive reasoning to the identified problems.

2. Successful introspective self study as part of reaccreditation, followed by the successful reaccreditation of all dental educational programs by the Commission on Dental Accreditation in the fall of 2006.

Current Status:

1. Our efforts in student centered learning have been to further refine and enhance our small group learning activities. This effort has gone hand in hand with the national effort led by the American Dental Education Association's Curriculum Change and Innovation activities over the last two years. Our faculty has played an integral role in this activity both nationally and within our own school as we seek to enhance our performance.
2. Our faculty continues to monitor our student and institutional outcomes and looks forward to our next reaccreditation which will take place in 2013.

Plans for the Next 5 Years:

From our newly adopted IUSD Strategic Plan 2011to 2014:

Define and implement the best curricula to graduate highly competent oral health professionals in the State of Indiana for the 21<sup>st</sup> Century.

Change the structure of how curriculum is developed and implemented.

Create and implement an assessment strategy to document educational excellence.

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**Research, Scholarship, and Creative Activity**

Major Accomplishments:

1. Caries Research Program- our research in the areas of early caries detection and management, secondary caries, fluoride and remineralization have resulted in significant research funding and national, as well as international, recognition.
2. Binational / Cross Cultural Health Enhancement Signature Center- Because its Latino population is still relatively small, the state of Indiana has time to create culturally, financially sound, just, and enriching approaches that address the needs of a multicultural society. The BiCCHEC is taking a leadership role in promoting this opportunity through its translational research that produces programs, training, and applications that improve the quality of life.
3. Recruit and appoint a permanent Associate Dean for Research- this accomplishment helped us revamp, focus and enhance our strategies for moving forward in the last decade in the area of research.

Current Status:

1. Our caries research program remains one of the preeminent programs in the world. As we look to move forward, we will want to take advantage of this continued strength.
2. The binational / Cross Cultural Health Enhancement Signature Center has had a strong start and continues to make major contributions within the city and state.
3. Our current Associate Dean for Research is recognized internationally for his accomplishments. However, in addition to this role he serves as the oral health research institute director and the preventive dentistry department chair. We look forward to opportunity's to spread some of these responsibilities to continue to strengthen our program.

Plans for the Next 5 Years:

From our newly adopted IUSD Strategic Plan 2011 to 2014:

Increase research productivity by 50% mainly by increasing federal grants by \$4 million over the next five years.

Redirect existing IUSD resources to our research mission to ensure that the buildup in our research infrastructure is sustainable.

Recruit magnet PIs in two areas identified to be of strategic importance and five new mid-career faculty with established research records.

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**Best Practices**

Major Accomplishments:

1. Installed Axium Electronic Health record system and digital radiography system-  
These two significant accomplishments enhanced the clinical practice system of the school of dentistry as well as exposed our students to state of the art Electronic Health records. The Axium System helped us reduce the number of computer based patient account systems used throughout IUSD to just this one. Both Axium and digital radiography have significantly enhanced our access and communication with our various departments both within the school and across the campus.
2. Major clinical renovations-  
Through allocation of dental school resources the Predoctoral Endodontic Clinic and preclinical bench laboratory were modernized. In addition, through fund raising efforts with alumni, the Periodontics department has able to secure funding for a complete overhaul of their clinical operation.
3. Caries risk assessment program-  
Institution of this program into our pre doctoral dental student education has enhanced and modernized our assessment of the caries process to include the medical model of non surgical intervention. It also enhances the ability to allocate resources for caries management to those patients most in need.

Current Status:

1. We are well satisfied with the Axium system and continue to implement our full digital radiography system. Our school remains one of the recognized leaders with the Axium System. Over half of the dental schools in the country utilize this system.
2. We continue to look for ways to enhance our current physical facilities, while at the same time looking to the future needs of our school with a new building.
3. The caries risk assessment program continues to be evaluated for areas of improvement and methods to make sure that this is fully integrated into our patient management.

Plans for the Next 5 Years:

From our newly adopted IUSD Strategic Plan 2011 to 2014:

Design, renovate, expand and build appropriate educational, research and patient care facilities in order to realize the vision.

Provide comprehensive clinical experiences with evidence based technologies to produce the most competent practitioners.

Develop a school wide comprehensive marketing program.

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**Campus Climate for Diversity**

Major Accomplishments:

1. Renewed emphasis on recruitment, programs and culture- Recruitment of a diverse student body is a primary goal at IUSD. Graduating a student population that represents the diversity within the state and across the country is important in providing competent care to patients. The pool of underrepresented minority students interested in dentistry is alarmingly small (ADEA statistics):
  - Identify & rank at least 10 HBCUs that we can develop relationships with in order to recruit their students; Partner with Crispus Attucks Medical Magnet School
  - Develop a pre-dental program to enhance dental knowledge and skills in a target population; develop a regular, mandatory program in cultural competency and sensitivity for students, faculty and staff.
  
2. Appointment of Associate Dean for Diversity, Equity and Inclusion- in order to put the appropriate emphasis on our need for enhanced success in this area, a new position was added to the dental school administration and through a national search, a highly competitive search process ended in an appointment of Dr. Pamela Shaw.

Current Status:

While there is still much work to be done, we have seen significant improvement just this current year by having 10 underrepresented minorities accept positions in our entering dental class this coming summer. This is at least two times our normal success in this area.

Plans for the Next 5 Years:

- Find scholarship funding for additional of underrepresented minority students through grant opportunities
  
- From our newly adopted IUSD Strategic Plan 2011 to 2014:  
Prepare a dental workforce that will educate, advocate and provide appropriate clinical oral health services in varied circumstances for all populations.

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**Civic Engagement**

Major Accomplishments:

1. Seal Indiana: statewide mobile dental sealant and homeless shelter sealant program-  
SEAL INDIANA is a statewide mobile dental program that provides preventive oral health services for children who do not have adequate access to dental care. The Indiana State Department of Health and Indiana University Purdue University at Indianapolis provided start-up funding for the program, which began in March 2003.
2. International Service learning programs-  
Indiana University School of Dentistry's International Service-Learning Program began in 2000 in partnership with towns in two countries and has steadily grown to include multiple locations, numerous IUSD faculty members and a continuously growing number of IUSD students.
3. HIV / AIDS Grant-  
IUSD's 4 year HIV HOPE (Oral Health Patient Engagement) program provides dental students with the resources necessary to provide culturally sensitive, comprehensive, patient-centered oral health care to people living with HIV/AIDS (PLWH/A). IUSD has been awarded over \$850,000 from Marion County Health Corporation's Health Services and Resources Administration Ryan White Title A grant to provide oral health care to people living with HIV/AIDS.

Current Status:

1. The Seal Indiana program continues to successfully implement its programmatic goals.
2. The International Service learning program has grown significantly and includes collaborations with Moi University in Kenya.
3. The HIV/AIDS Program has been nationally and internationally recognized in 2010 when IUSD was awarded the Orna Shanley Prize for Enhancing Access to Care which is cosponsored by the American Dental Education Association and the International Federation of Dental Educators and Associations.

Plans for the Next 5 Years:

From our newly adopted IUSD Strategic Plan 2011 to 2014:

Integrate substantive, sequentially appropriate community based clinical education throughout the curriculum, including broad preparation and reflection, with ongoing assessment of student, faculty and community outcomes.

In 2010-2011, create a senior level position to coordinate service.

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**Collaboration**

Major Accomplishments:

1. Simon Cancer Center Educational and Patient Care Integration-  
While our pre doctoral, general practice residency and graduate prosthodontic program have long interacted with cancer patients served across the medical center campus, renewed collaboration in this area most specifically with the Simon Cancer Center has been established.
2. Moi University School of Dentistry, Kenya-  
Faculty and student exchanges have been initiated, particularly with the establishment of the new Moi school of dentistry. Our school has been involved in the exchanges that have enhanced our understanding of the unique patient needs in Kenya, as well as broadening our view of, and contribution to, the needs of the world.
3. Tobacco Cessation and Biobehavioral Group-  
The Tobacco Cessation and Biobehavioral Group is dedicated to reducing the harm to health caused by tobacco use. In addition, to providing tobacco education, treatment, and advocacy to students, patients, and providers, the TCBG aims to provide quality multidisciplinary research on emerging tobacco products along with their oral effects and dependence.

Current Status:

1. Enhancement with the cancer center have included establishment of a secured area at the center for dental assessment and services.
2. Increased exchange and collaboration with Moi have been occurred. An example is Dr. Larry Goldblatt, who recently stepped down as our dental school dean, we'll be spending a month at Moi this coming year collaborating with their faculty and students.
3. A long-term project of the school of dentistry, the tobacco cessation program continues to strengthen its patient care services and to look for grant funding opportunities.

Plans for the Next 5 Years:

From our newly adopted IUSD Strategic Plan 2011 to 2014:

- Foster intercultural understanding and respect by assuring diversity in students, faculty and staff and through international/intercultural community-based dental educational programs.
- Strengthen our collaborations with other schools on the IUPUI campus and around Indiana.