

OSU Advanced Orthodontic Education Program

The Ohio State University, College of Dentistry Section of Orthodontics

The Orthodontic Program at The Ohio State University College of Dentistry has prepared practitioners, educators, scientists/researchers, hospital practitioners, craniofacial team members, multi-specialty providers, and entrepreneur/inventors for more than 60 years. This is a reflection of the opportunities and breadth of the program available to those seeking a challenging and balanced education in the "liberal arts and sciences of orthodontics." Currently, the program is 34 months in length beginning July 1st of each year and culminates with a Master's of Science degree conferred by the Graduate School, and a certificate indicating educational qualification in orthodontics.

To develop this type of graduate, the Section is dedicated to fostering a strong educational background in science and investigatory methodology so that decisions in clinical care are evidence – based and patient centered, research and teaching experiences are formulated on prin-

ciples and procedures that have biological and scientific validity and emphasize the importance of life long learning.

Accomplishing this goal requires a curriculum and faculty that are diverse. A balance of didactic, clinical and research components is considered essential for graduates. This course of study includes a rigorous research project and defense of a Master's thesis and a publishable form. The Section also strives to provide service to the community through its clinical care and consultation services.

MASTER'S PROGRAM COMPONENT

The Master's Program is built on core courses, the majority of which occur in the first year of the program. These courses include: statistics, research design, developmental histology and embryology, oral pathology, biomaterials and anatomy of the head and neck. These are supplemented by ethics and legal offerings to comply



Residents and faculty search and discuss literature in the Wade Education Center Library.

with the ADA standards for accreditation. During the first year of the program, the residents are responsible for choosing a research topic and major advisor. This is overseen by the Director of research Dr. Huja, who helps the resident formulate their research project. Ideally, the second year is for data gathering, while the third year is dedicated to data analysis, writing and defending their thesis and submission of a publishable form

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OSU Advanced Orthodontic Education Program

...CONTINUED FROM PAGE 5

which is a condition of graduation. The intellectual resources at OSU provide a wealth of opportunities for residents to consider a great variety of areas for investigation.

CLINICAL CERTIFICATE COMPONENT



A lecture and discussion regarding patient care is presented in the Wade Education Center Seminar Room.

The Clinical Certificate Program starts with an intensive course during the first two weeks of the program, which provides the residents with the necessary skills to perform clinical evaluation, diagnostic procedures and treatment planning and delivering initial clinical care. This is followed by an in-depth study of cephalometrics, biomechanics, growth and development, diagnosis and treatment planning, interdisciplinary surgical orthodontics, periodontal/orthodontic interrelationships, craniofacial anomalies, and orthodontic clinical techniques. These courses are generally taught seminar style, based on assigned readings from the refereed literature. Critical review of the literature is a weekly event and involves the faculty and the residents in discussion of both classic historic papers and contemporary literature. Clinical seminars provide the residents with an opportunity to gain perspective and experience beyond their own cases. Residents regularly present a variety of initial, progress and completed cases for interactive

faculty/resident discussion in case presentation and clinical seminars. An externship experience enhances the clinical education by introducing the environment of orthodontic specialty practice with invited speakers, and visits to private orthodontic practices in the Columbus vicinity.

CLINICAL EXPERIENCE



The graduate clinic provides patient care experiences with staff support and faculty guidance.

Apart from the recently refurbished graduate orthodontic clinic, there are several other locations and types of facilities where residents gain experience in the clinical care of a diverse population of patients. The first year residents start treatment on approximately 60-65 new patients with an expectation to complete at least 80% of those cases they have started. All patients are assigned under full time and part time faculty supervision which includes the full spectrum of malocclusion, so that residents have experience in treating children in the mixed dentition, adolescents, and adults using a variety of techniques, but predominantly the edgewise appliance. Interdisciplinary cases are part of each residents practice with a strong orthognathic surgery experience as part of the Dentofacial Program. The oral surgery residents and the orthodontic residents collaborate in diagnosis and treatment planning patients in close collaboration with the

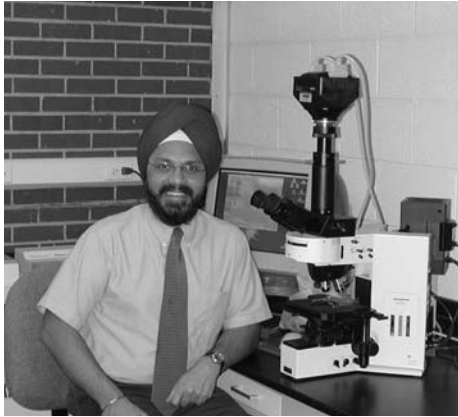
orthodontic and oral surgery faculty. Other interdisciplinary adolescent and adult patients are treated in each orthodontic resident's practice, with the interaction of residents and faculty in prosthodontics, periodontics and endodontics.

At Children's Hospital in Columbus, each orthodontic resident is assigned 12-15 patients which they diagnose, treatment plan and present at weekly seminars, and then have the experience of treating over a two year period during the second and third years of their residency. Before seeing these patients, a 10 week didactic course in the management of craniofacial anomalies is provided, and they also have the experience of attending the cleft palate team evaluations and conference in Children's Hospital. This provides insights in the timing and sequencing of treatment from the perspective of other members of the medical team and speech pathologists, which includes patients with cleft lip and/or palate and other craniofacial anomalies. Many of these patients need complex treatment plans with an understanding of growth modification, alveolar bone grafting, presurgical maxillary expansion, orthognathic surgery and distraction osteogenesis, implants and prosthetic replacement of missing teeth.

In the third year of their residency, they have the experience of working up cases to ABO specifications and being examined by board certified faculty. They also have a mock written examination to prepare them for Phase II of the American Board of Orthodontics for which the department provides funds to help defray the cost of sitting in on the examination.

FACULTY

The faculty has a diverse range of education, research and clinical experience to contribute to the program. This provides the residents



Faculty and students benefit from use of the College's research facilities.

with a variety of diagnostic methods, treatment techniques and research opportunities. With five full-time faculty lines (one of which is frozen due to fiscal constraints) and ten part-time positions, the Section is able to teach at all levels, generate new knowledge through research and publication, and provide a wide range of clinical care. The residents work closely with the predoctoral faculty as graduate teaching assistants, and there is a commitment to predoctoral education and research mentoring, in which the residents participate.

Each of the full-time faculty engage in intramural patient care, which provides supplemental income, while maintaining their clinical skills. Research interests of the faculty include: diagnostic systems and decision analysis, development and assessment of clinical outcome measures, reliability of evaluating dental and skeletal morphology, the biology of mineralized tissue and its clinical ramifications, biomechanics, longterm outcome of clinical treatment and surgical orthodontics. These interests resulted in federal and private grant support, numerous refereed publications, textbook authorship, monographs and invited chapters, scientific presentations and continuing education.

The current faculty include:

Fulltime

Katherine Vig (Professor and Chair): BDS, MS, D.Orth. FDS; Eastman (London); Board certified

Henry Fields (Professor): DDS, MSD, MS; University of Washington; Educationally qualified

Allen Firestone (Associate Professor): DDS, MS; Columbia University; Educationally qualified

Sarandeep Huja (Assistant Professor): DDS, MS, PhD; Bombay, India and Indiana University; Board eligible

Part-time

Jackie Berkowitz (Clinical Associate Professor): DDS, MS; Case Western Reserve University; Board certified

Walter Buchsieb (Clinical Associate Professor): DDS, MS; Ohio State University; Board certified

Frank Cordray (Clinical Assistant Professor): DDS, MS; Ohio State University; Board certified

Charles Fulks (Clinical Assistant Professor): DDS, MS; Eastman (Rochester); Board certified

Dennis Johnson (Clinical Assistant Professor): DDS, MS; Ohio State University; Educationally qualified

Jim Karpac (Clinical Assistant Professor): DDS, MS; Ohio State University; Board certified

Ana Mercado (Clinical Assistant Professor): DDS, MS, PhD; Ohio State University; Board eligible

Mark Pierce (Clinical Assistant Professor): DDS, MS; Ohio State University; Educationally Qualified

George Pommert (Clinical Assistant Professor): DDS, MS; Ohio State University; Educationally Qualified

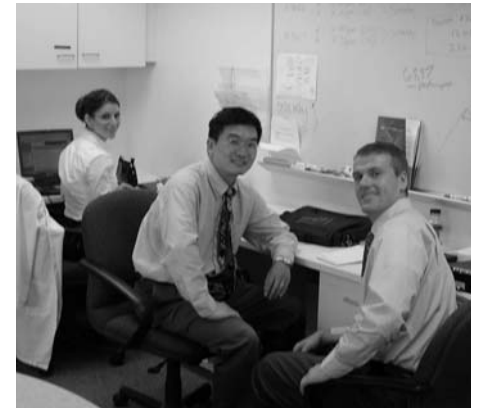
Shiv Shanker (Clinical Associate Professor): DDS, MDS, MS; Madras, India and Ohio State; Board Eligible

Emeritis

Ben Williams, DDS, MS

Ty Wheeler, DDS, MS

RESIDENTS



The residents' room provides a location for work and discussion.

Currently, five residents are admitted each year into the 34 month program. Stipends, as well as a reduction in tuition, are available for residents throughout the three-year program. These financial benefits help reduce the cost of each resident's education, and is based on the residents' contributions as GTA's in supporting the teaching efforts. An increase in the number of residents to six each year has been approved by the ADA for 2004, in recognition of the health and education needs of Ohio and the Nation. Successful applicants to the program require outstanding educational accomplishments, along with experiences in research and patient care to be competitive. Ohio residency plays a role in the selection when it is included with other prerequisites.

CONTINUED ON PAGE 8...

OSU Advanced Orthodontic Education Program

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FACILITIES AND SUPPORT

The Section of Orthodontics enjoys excellent facilities due to support from the College and the Alumni and friends. The didactic and clinical teaching occur in the Wade Orthodontic Education Center, which features a seminar room with state of the art technical facilities and the adjacent library. This facility supports teaching on a daily basis and continuing education. The graduate clinic is on the first floor in which patient care, consultation, laboratory and auxiliary support provides a contemporary and convenient facility. With the exception of the clinical record, a digital environment has been created for patient scheduling, accounting and records by the clinic manager and coordinator.

The faculty offices and residents' room are renovated facilities that provide useful, modern space. Additionally, the Ben Williams Room provides computer facilities to support clinical case analysis; the Biometrics laboratory, which provides equipment for analysis of clinical material, including the Orthodontic Archival Database. The GAC Clinical Support Laboratory is under construc-

tion for resident use and seminar and technique instruction. Of these facilities, the Wade Center, the furnishings of the Residents' Room, and the Ben Williams Room have all been made possible by the alumni support.

The research laboratories of the College are available, and the Health Sciences Library is conveniently located adjacent to the College. These are just a few of the opportunities that accompany advanced education on the "most comprehensive health sciences campus in America."

Further support is provided by the staff of the Section. These include secretarial, clinical and laboratory personnel who facilitate the faculty and residents requirements. Clearly, the stature of the Section is based on the quality of the students, faculty, staff, alumni and friends. This interdependence has resulted in a mutual respect and collaboration, which is the essence of the team effort in providing an outstanding educational environment and individual accomplishments recognized as a group effort. None of us would be as worthy as we are, without the others contributing to individual successes.

COLUMBUS, OHIO

An aspect of Orthodontic education in Columbus is the opportunity to live in the rapidly maturing city. The metropolitan area consists of 1.5 million city and suburban dwellers. Not only is the main campus of the University in Columbus, which brings with it numerous educational and social opportunities, but the city has entertainment, professional sports, and arts communities that are gaining national recognition. The economy is supported by the center of state government and industry, while maintaining a modest cost of living. Because the city is within 500 miles of more than half the U.S. population and transportation is accessible, many travel needs can be met in one hour.



For more information,
the Section hosts a web site at:
[www.dentistry.dent.
ohio-state.edu/ortho](http://www.dentistry.dent.ohio-state.edu/ortho)
which provides additional
information for potential
residents and patients.

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