



Orthodontics

Self Study
Appendix A – N

Accreditation

Site Visit: November 12-14, 2013

Evaluation of Advanced Specialty Education Orthodontics

Sponsoring Organization:	University of Illinois at Chicago
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Signature:	
Date:	9/5/13
Dental School Dean:	Bruce S. Graham
Telephone Number:	(312) 996-1040
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Signature:	
Date:	9.9.13
Program Director:	Carlotta (Carla) A. Evans
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Signature:	
Date:	09/04/2013

I have seen and reviewed the completed Self-Study Guide (and required appendix information) that will be used in an upcoming site visit to this institution.

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General Information

- a. What is the length of the program? 32 months.
- b. How many full-time students/residents are currently enrolled in the program per year?
9
- c. How many part-time students/residents are currently enrolled in the program per year?
0
- d. What is the program's CODA-authorized base number enrollment?
27
- e. The program offers a certificate degree or both
- f. What other programs does the organization sponsor? Indicate whether each program is accredited. Indicate which programs are accredited by the Commission on Dental Accreditation.
- | | |
|--------------------------------|-------------------|
| Endodontics | Accredited - CODA |
| Oral and Maxillofacial Surgery | Accredited - CODA |
| Pediatric Dentistry | Accredited - CODA |
| Periodontics | Accredited - CODA |
| Prosthodontics | Accredited - CODA |
| Dental Education | Accredited - CODA |
- g. If the program is affiliated with other institutions, provide the full names and addresses of the institutions, the purposes of the affiliation and the amount of time each student/resident is assigned to the affiliated institutions.

During the calendar year spanning the end of the first year and beginning of the second year, each postgraduate orthodontic student observes 3 half days at the Cleft/Craniofacial Clinic, Outpatient Center of the Ann & Robert H. Lurie Children's Hospital of Chicago, 467 West Deming Place, Chicago IL 60614, under the supervision of Drs. Emily Williams. Dr. Williams is appointed as Clinical Assistant Professor of Orthodontics at UIC and is boarded both in orthodontics and pediatric dentistry. The UIC orthodontic postgraduate students participate in the Lurie rotation to gain additional exposure to management of complex disorders resulting from congenital malformations, trauma, and tumors.

In the calendar year spanning the end of the second year and the beginning of the third year, each postgraduate orthodontic student observes 3 half days at John H. Stroger Jr. Hospital of Cook County, 1969 W. Ogden Ave., Chicago IL 60612, under the supervision of Therese Galang, Assistant Professor in UIC's Department of Orthodontics. The UIC orthodontic postgrads participate in the Stroger rotation to see a large number of severe dentofacial deformities and observe their management by Stroger clinicians.

The official agreements between UIC and these hospitals will be available on site.

- h. What is the percentage of the students'/residents' total program time devoted to each segment of the program?

biomedical sciences	20 %
clinical Sciences	60 %
teaching	5 %
research	15 %
other (specify)	0 %
 Total	 100

For the clinical phases of the program, indicate the number of faculty members specifically assigned to the advanced education program in each of the following categories and their educational qualifications:

	Total Number	# Board Certified	# Educationally Qualified*	# Other**
Full-time	6	6	0	
Half-time	2	1	1	
Less than half-time	16	8	8	

* Individual is eligible but has not applied to the relevant Board for certification.

**Individual is neither a Diplomate nor Candidate for board certification by the relevant certifying Board.

Verify the cumulative full-time equivalent (F.T.E.) for all faculty specifically assigned to this advanced education program.

For example: a program with the following staffing pattern – one full-time (1.00) + one half-time (0.50) + one two days per week (0.40) + one half-day per week (0.10) – would have an F.T.E. of 2.00.

9.1

Previous Site Visit Recommendations

Using the program's previous site visit report, please demonstrate that the recommendations included in the report have been remedied.

The suggested format for demonstrating compliance is to state the recommendation and then provide a narrative response and/or reference documentation within the remainder of this self-study document.

* Please note if the last site visit was conducted prior to the implementation of the revised Accreditation Standards for Advanced Specialty Education Programs (January 1, 2000), some recommendations may no longer apply. Should further guidance be required, please contact Commission on Dental Accreditation staff.

There were no recommendations in the 2006 site visit report.

Compliance with Commission Policies

Identify all changes which have occurred within the program since the program's previous site visit, in accordance with the Commission's policy on Reporting Program Changes in Accredited Programs.

Not applicable.

Provide documentation and/or indicate what evidence will be available during the site visit to demonstrate compliance with the Commission's policy on "Third Party Comments."

Third party comments were solicited from students and patients via e-mail messages and posted notices. College administrators posts notice and inform third parties.

Provide documentation and/or indicate what evidence will be available during the site visit to demonstrate compliance with the Commission's policy on "Complaints."

The program is in compliance with the Commission's "Complaints" policy.

Entering orthodontic postgraduate students are informed on the first day during the first class session that they may report complaints to CODA. Their signatures on the behavioral expectations form demonstrates that they have been informed (available on site). The second and third year students are reminded of that document as they begin the new academic year.

A file of complaints is maintained in the program director's office.

Provide documentation and/or indicate what evidence will be available during the site visit to demonstrate compliance with the Commission's policy on "Distance Education."

Not applicable.

Program Effectiveness

Program Performance with Respect to Student Achievement:

Provide a detailed analysis explaining how the program uses student achievement measures, such as national assessment scores, results of licensure or certification examinations and/or employment rates to assess the program's overall performance. In your analysis, provide examples of program changes made based on student achievement data collected and analyzed.

It's very hard to prepare young people for the future when the world is changing so quickly and the future is so uncertain. The faculty of the Department of Orthodontics insist that our postgraduate students understand, in depth, the fundamentals of science and clinical dentistry so that they can adapt to new knowledge and technology easily after graduation. Applicants with an attitude of "Don't bother me with why -- just tell me how to do it" don't make it onto our Match list. At UIC we emphasize problem solving and timely completion of assigned tasks rather than memorization of facts.

The admissions process for the orthodontic specialty is becoming more complicated because the National Board of Dental Examiners recently moved to releases only pass/fail scores and many dental schools have pass/fail curricula. Most letters of recommendation are not informative and don't truly evaluate the academic qualifications and accomplishments of applicants. Consequently, orthodontic specialty program directors are faced with selecting candidates for interviews without having enough quantitative measures of academic success. A strong track record of academic achievement, extracurricular activities with demonstration of leadership, documented insight and problem solving, and ethical behavior is the package that the best predictor of future success. GRE scores are not enough, but are being used widely at the present time, including at UIC, for screening of applications now that National Board scores are not available.

At UIC we are participating in an IRB-approved multicenter study of possible predictors of success in orthodontic programs. Three successive classes of new UIC orthodontic postgrads are taking three examinations (dental knowledge, psychological traits, and spatial testing) to provide data that will be compared with a test of orthodontic knowledge and performance on a standardized oral final clinical exam. Such examinations may prove to be helpful in orthodontic admissions and in assessing outcomes.

There's an interesting article by Nasca et al. in the New England Journal of Medicine (NEJM 366:1051-1056, 2012) about evaluating levels of performance in the medical accreditation system. In Table 1, five levels of performance are described for four milestones, namely professionalism, interpersonal and communication skills, practice-based learning and improvement, and systems-based practice. We're grappling with how to evaluate those milestones as the students pass through our program.

An outside consultant (Dr. Sunil Kapila, chair and program director, Department of Orthodontics, University of Michigan) evaluated UIC's orthodontic specialty program in 2010. He made suggestions that mirrored our conclusions about modifying our courses to match the changes we made during the complete renovation of UIC's Department of Orthodontics.

It's important to note that all of our students take the written Phase II examination of the American Board of Orthodontics (ABO) even though it's not a requirement of the program. Board certification is an aspiration and is not a qualification needed for licensure. The Board has changed the reporting of scores so that the program directors now receive data for the different parts of the examination.

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That's helpful in modifying courses and clinical exercises. Seven of the nine graduates in the class of 2012 have already become diplomates of the ABO by passing the clinical Phase III examination.

What's different about UIC at this accreditation time point? We have a new modern clinic, digital records/casts/radiographs, courses on Blackboard, and a full complement of clinical faculty. There were some years during the construction projects and facing the tough economy that the faculty had to work very hard to keep the quality of the program at a high level and those times were difficult for our students. Even during those years, it's clear that we delivered a good product by all outcomes measures. Feedback from the senior doctors who hired them is uniformly positive. With the good facility and our students' confidence in the ability of patients to afford orthodontic treatment, we can feel the magic in our clinic. This is the place they want to be!

STANDARD 1 – Institutional Commitment/Program Effectiveness

1.	Has the program developed clearly stated goals and objectives appropriate to advanced specialty education, addressing education, patient care, research and service? (1)	YES
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Documentary Evidence:

Appendix A-1: UIC Campus Vision Statement

Appendix A-2: UIC Department of Orthodontics Mission, Goals and Objectives

On Site

UIC College of Dentistry Strategic Plan: Beyond 2010

2.	Are planning for, evaluation of and improvement of educational quality for the program broad-based, systematic, continuous and designed to promote achievement of program goals related to education, patient care, research and service? (1)	YES
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Documentary Evidence:

Appendix A-2: Department of Orthodontics Mission, Goals and Objectives

On Site

Minutes of clinic management meetings

Minutes of department meetings

Minutes of department advisory committee meetings

Minutes of faculty meetings

Minutes of mentor meetings

3.	Does the program document its effectiveness using a formal and ongoing outcomes assessment process to include measures of advanced education student/resident achievement? (1)	YES
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Documentary Evidence:

Appendix B: The Program's Outcomes Assessment Plan, Measurements and Results.

Appendix D: Board Examination Student Success Rates, Last Seven Years

On Site

Results of Final Clinical Examinations

4. Are the financial resources sufficient to support the program's stated goals and objectives? (1)	YES
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Documentary Evidence:

On Site

The department budget showing relative proportion of the sources and the use of funds (i.e., state appropriations, clinic revenue, donations, grants)

5. Does the sponsoring institution ensure that support from entities outside of the institution does not compromise the teaching, clinical and research components of the program? (1)	YES
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Fundraising is managed by the College's Office of Advancement and Alumni Affairs, which operates under the policies and procedures of the University of Illinois Foundation. The Foundation documents protect the integrity of the program and the professional options of the students and/or graduates. University policies regarding admissions and research integrity are very well defined and aggressively upheld.

Documentary Evidence:

On Site

University of Illinois Foundation policy and procedures documents

College of Dentistry Conflict of Interest Policy

Sample brochures, newsletters and letters used to attract donations

6. Is the advanced specialty education program sponsored by an institution, which is properly chartered, and licensed to operate and offers instruction leading to degrees, diplomas or certificates with recognized education validity? (1)	YES
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The University of Illinois was founded in 1867. The University consists of three campuses: Urbana-Champaign (UIUC), Chicago (UIC), and Springfield (UIS). State-supported institutions of higher learning in the State of Illinois are governed by the Illinois Board of Higher Education (IBHE), which oversees academic programs, budget appropriations, and other matters pertaining to higher education in Illinois.

Documentary Evidence:

Appendix C: Organization chart for the University of Illinois Chicago Campus

Appendix C: Organization chart for UIC's College of Dentistry

On Site

Organization chart for the Illinois Board of Higher Education

Organization chart for the University of Illinois

7. If a hospital is the sponsor, is the hospital accredited by an accreditation organization recognized by the Centers for Medicare and Medicaid (CMS)? (1)	NA
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8.	If an educational institution is the sponsor, is the educational institution Accredited by an agency recognized by the United States Department of Education? (1)	YES
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The University of Illinois at Chicago is fully accredited by the North Central Association of Colleges and Schools, which is an accrediting body recognized by the United States Department of Education. The University received its original accreditation in 1970 and its status was last confirmed by the Higher Learning Commission on October 23, 2007. The status is confirmed upon the University until its next review, which is scheduled in 2017.

Documentary Evidence:

On Site
UIC Accreditation Certificate

9.	If applicable, do the bylaws, rules and regulations of the hospital that sponsors or provides a substantial portion of the advanced specialty education program ensure that dentists are eligible for medical staff membership and privileges including the right to vote, hold office, serve on medical staff committees and admit, manage and discharge patients? (1)	NA
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10.	Does the authority and final responsibility for curriculum development and approval, student/resident selection, faculty selection and administrative matters rest within the sponsoring institution? (1)	YES
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11.	Is the position of the program in the administrative structure consistent with that of other parallel programs within the institution? (1)	YES
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Documentary Evidence:

Appendix C: Organization chart for UIC's College of Dentistry

12.	Does the program director have the authority, responsibility and privileges necessary to manage the program? (1)	YES
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The program director, Dr. Carla Evans, also holds the position of Head of the Department. Her authority, responsibilities, and privileges are comparable to other program administrators at the UIC College of Dentistry.

Documentary Evidence:

Appendix F: Biosketch of Carla A. Evans

Appendix C: Organization chart for UIC's College of Dentistry.

Affiliations

(If the program is not affiliated with other institutions, please skip to Standard 2.)

13.	Does the primary sponsor of the educational program accept full responsibility for the quality of education provided in all affiliated institutions? (1)	YES
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14.	Is documentary evidence of agreements, approved by the sponsoring and relevant affiliated institutions, available? (1)	YES
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Documentary Evidence:

On Site

Agreement with Northwestern/Lurie Children's Hospital

Agreement with Stroger (Cook County) Hospital

15.	Are the following items covered in such inter-institutional agreements:	
a)	Designation of a single program director?	YES
b)	The teaching staff	YES
c)	The educational objectives of the program??	YES
d)	The period of assignment of students/residents? And	YES
e)	Each institution's financial commitment? (1)	YES

Documentary Evidence:

On Site

Agreement with Northwestern/Lurie Children's Hospital

Agreement with Stroger (Cook County) Hospital

STANDARD 2 - Program Director and Teaching Staff

16.	Is the program administered by a director who is board certified in the respective specialty of the program, or if appointed after January 1, 1997, has previously served as a program director? (2)	YES
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Documentary Evidence:

Appendix F: Biosketch of Program Director, Carla A. Evans

On Site

Full Curriculum Vitae of Program Director, Carla A. Evans

Letter from American Board of Orthodontics verifying Diplomate status of Program Director

Program Director's ABO certificate

17.	Is the program director appointed to the sponsoring institution and have sufficient authority and time to achieve the educational goals of the program and assess the program's effectiveness in meeting its goals? (2)	YES
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18.	Is the program directed by one individual? (2-1)	YES
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Documentary Evidence:

On Site

Program director's notice of appointment

19.	Is there evidence that sufficient time is devoted to the program by the director so that the educational and administrative responsibilities can be met? (2-2)	YES
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Documentary Evidence:

Appendix G: Weekly schedule of Carla Evans

20.	Is a majority of the specialty instruction and supervision conducted by individuals who are educationally qualified in orthodontics and dentofacial orthopedics? (2-3)	YES
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Documentary Evidence:

Appendix F: Biosketches of Teaching Faculty

On Site

Full CVs of Teaching Faculty

21. Besides maintaining clinical skills, does the director have teaching experience in orthodontics and dentofacial orthopedics? (2-4) YES

The Program Director, Dr. Carla Evans, has been a full-time faculty member of an orthodontic department beginning in 1975 at the Harvard School of Dental Medicine. She served as Program Director and Acting Head of the Department at Harvard from 1989 to 1993. In 1994, she was appointed Program Director and Department Head at the University of Illinois at Chicago. She has taught orthodontics and topics in oral biology to predoctoral dental students, dental specialty students in all fields, graduate students in oral sciences, continuing education students, and plastic surgeons.

Documentary Evidence:

Appendix F: Biosketch of Program Director, Carla A. Evans

On Site
Full Curriculum Vitae of Program Director, Carla A. Evans

22. For all appointments after July 1, 2009, has the director had teaching experience in an academic orthodontic departmental setting for a minimum of two (2) years? (2-4) NA

23. Are periodic faculty meetings held for the proper function and improvement of an advanced specialty education program in orthodontics and dentofacial orthopedics? (2-5) YES

The entire contingent of full-time and part-time orthodontic faculty members meets formally at least once each year on a weekend day to discuss departmental goals, objectives and policies; student progress, clinic management, faculty issues, special events; and department finances and fundraising efforts. Other types of faculty meetings are also held, including meetings of the elected advisory committee, special issue groups assembled on an ad hoc basis, monthly clinic management meetings held with the postgraduate students and staff, and daily informal meetings as the orthodontic faculty eat lunch together. Most new problems are resolved within hours of their identification.

Documentary Evidence:

On Site
Minutes of department faculty meetings
Minutes of department advisory committee

24. Does the faculty have knowledge of the required biomedical sciences relating to orthodontics and dentofacial orthopedics? (2-6) YES

The teaching staff is adequate for the didactic, laboratory and clinical needs of the Department of Orthodontics teaching programs. Often expert guest lecturers are invited to supplement the education provided by the UIC teachers.

Documentary Evidence:

Appendix G: Monthly Attending Staff Schedules

Appendix F: Biosketches of the Program Director and All FTE Teaching Faculty

On Site

Faculty involvement in teaching, research, and service as documented in the Department Annual Reports and weekly schedules.

25.	Are clinical instruction and supervision in orthodontics and dentofacial orthopedics provided by individuals who have completed an advanced specialty education program in orthodontics and dentofacial orthopedics approved by the Commission on Dental Accreditation (grandfathered), or by individuals who have equivalent education in orthodontics and dentofacial orthopedics? (2-6)	YES
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Faculty needs are identified on the basis of faculty surveys, suggestions from faculty, residents and alumni, and review of changes in the field of orthodontics. New faculty members are selected carefully not only for their skills in orthodontics, but also for desired personality traits and their interest in education. All clinical faculty are informed by the Program Director of expectations regarding their responsibilities in the clinic, reminded immediately if they do not meet expectations, and released if continued deficiencies are noted. Faculty members are expected to maintain their knowledge and skills at the forefront of orthodontics as a discipline.

Documentary Evidence:

Appendix F: Biosketches of the Program Director and All FTE Teaching Faculty

26.	In addition to regular teaching responsibilities with the department, do full-time faculty have adequate time for their own professional development? (2-7)	YES
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Each day the entire clinical department meets for seminar (ORTD595) from 8:30am to 9:30am to learn something new. The topic of the seminar may be a case discussion, a journal article, a resident presentation, a guest lecturer, clinic issues, or other topics, but always something different and of interest to the entire group. Continuing education credits are available to faculty who attend the morning seminar or selected seminars in the College of Dentistry. In addition, the orthodontic clinic is closed on the four days each year that the Illinois Society of Orthodontists schedules all-day guest lecturers; all residents and faculty are expected to attend. Full-time faculty are also released from duties for a reasonable number of days each year (roughly one day each week) for private practice, consulting or to attend professional meetings and courses. Faculty development issues are discussed at faculty meetings and during the formal faculty evaluation process.

Tenure track Assistant Professors Therese Galang and Phimon Atsawasawan have attended Academy of Academic Leadership courses. Therese Galang attended the University of Washington Summer Research Institute. Phimon Atsawasawan received a teaching fellowship from the American Association of Orthodontists Foundation and is finishing year two of a three-year College of Dentistry research start-up package. Budi Kusnoto is a tenured Associate Professor and on June 30, 2013, completed a 6 month sabbatical focused on radiation algorithms at the University of Chicago and Argonne National Laboratory.

Documentary Evidence:

On Site

Department Reports documenting grants, publications, other scholarly activities

Weekly schedules of full-time faculty

Faculty effort reports

Faculty annual evaluation forms with documentation of CE activities

27.	Are the number and time commitment of faculty sufficient to provide full supervision of the clinical portion of the program? (2-8)	YES
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Documentary Evidence:

Appendix G: Monthly Attending Staff Schedules

28.	Are faculty evaluations conducted and documented at least annually? (2-9)	YES
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Clinical faculty performance is monitored continually and observations of the Program Director (Carla Evans) and Clinic Director (Budi Kusnoto) are delivered informally as needed to maintain a high level of performance. Faculty are informed of student concerns or suggestions as soon as an issue is noted by the Program Director or reported by a student or staff member.

Formal reviews are also conducted utilizing survey forms filled out by:

- a) students once each year (or at the end of a course)
- b) faculty peers once each five year period or as required for promotion and tenure reasons
- c) themselves (self-evaluation) once each year

Students review faculty efforts in writing at the end of the academic year in late April, Faculty members review themselves in writing annually as part of the annual reporting mechanisms. In June, all faculty members meet individually with Dr. Evans to discuss information supplied on their annual report forms, the results of student and peer evaluations, and changes planned for the coming year. Documentation of evaluations is maintained in the program director's office.

Documentary Evidence:

Appendix H: Sample faculty evaluation forms

On Site

Evaluation forms completed by students and faculty

29. Is there evidence of an ongoing systematic procedure to evaluate the quality of treatment provided in the program? (2-10) YES

Documentary Evidence:

On Site

Progress records in axiUm, Dolphin, Orthocad

Treatment seminars as shown on weekly schedules

Custom treatment planning software (TxWiz) requiring degree of difficulty scores and final ABO scores.

30. Do the program director and faculty prepare students/residents to pursue certification by the American Board of Orthodontics? (2-11) YES

The Midwest ABO Director visits the department.

Documentary Evidence:

Appendix D: Table showing success on board examinations

On Site
Class schedules showing training in ABO procedures
Results of ABO Phase II examinations

31. Does the program director document the number of graduates who become certified by the American Board of Orthodontics? (2-11.a) YES

Documentary Evidence:

Appendix D: Table showing success on board examinations

Is there evidence of an ongoing faculty development process? (2-12) YES

All faculty describe their plans for development on the annual faculty evaluation form. The plans are then discussed at the annual meeting with the program director. Participation in development activities is expected.

Documentary Evidence:

On Site

Annual faculty evaluation forms

STANDARD 3 – Facilities and Resources

32. Are institutional facilities and resources adequate to provide the educational experiences and opportunities required to fulfill the needs of the educational program as specified in the Accreditation Standards for Advanced Specialty Education Programs? (3)

YES

Institutional support of the teaching program provides for basic science, staffing and supplies. The College of Dentistry assists departmental efforts to secure necessary outside funding for equipment and renovation from other sources. The central university's performance related to maintaining and repairing the building varies. The 27 chair orthodontic clinic is now about three years old and hasn't needed much renovation yet. The university's administrative services related to admissions, finances and student matters are adequate. The department staff and faculty also help in acquiring adequate resources. Available as an incentive production program based on fees collected from patient starts which provides monetary rewards to the students. The availability of monetary rewards enhances the ability of the students to focus on their studies. This financial program is available to the American students and students having F-1 visas, but not to the International students whose studies are paid by their governments.

Documentary Evidence:

On Site
Department floor plans
Department budgets

33. Are equipment and supplies for use in managing medical emergencies readily accessible and functional? (3)

YES

All clinically active personnel in the department are CPR certified. Emergency telephone numbers are posted by the clinic telephones and a campus emergency telephone is located in the hallway just outside the clinic. Emergency medications and equipment as well as a defibrillator are located next door in the oral surgery clinic. A "Crash Cart" is readily available. The clinic director monitors that the protocols for emergencies are followed. Training is provided for Code Blue procedures for the College of Dentistry

Orthodontic clinic manuals and College of Dentistry manuals are available online at any computer and parts are distributed to orthodontic specialty residents and faculty. The dental assistants, orthodontic faculty, clinic director and program director all monitor compliance with verbal and written suggestions and warnings. If compliance is not obtained, clinic privileges are withdrawn. The College of Dentistry also monitors the clinics routinely.

Documentary Evidence:

On Site
On line emergency instructions

34. Does the program document its compliance with the institution's policy and applicable regulations of local, state and federal agencies, including but not limited to radiation hygiene and protection, ionizing radiation, hazardous materials, and bloodborne and infectious diseases? (3)	YES
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Documentary Evidence:

On Site

Lists of students, staff, and faculty who completed courses in CPR, OSHA, and HIPAA

Online Clinic Manual

Infection Control Manual

UIC Orthodontic Clinic Manual

COD Intranet: UIC's policies on radiation hygiene, hazardous materials, bloodborne and infectious diseases, and immunizations

35. Are the above policies provided to all students/residents, faculty and appropriate support staff and continuously monitored for compliance? (3)	YES
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Documentary Evidence:

On Site

Clinic Manual

College of Dentistry Intranet

36. Are policies on bloodborne and infectious diseases made available to applicants for admission and patients? (3)	YES
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Documentary Evidence:

On Site

Clinic Manual

College of Dentistry Intranet

Memos from the Office of the Director of Clinics

37. Are students/residents, faculty and appropriate support staff encouraged to be immunized against and/or tested for infectious diseases, such as mumps, measles, rubella and hepatitis B, prior to contact with patients and/or infectious objects or materials, in an effort to minimize the risk to patients and dental personnel? (3)	YES
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Documentary Evidence:

On Site

Infection Control Manual

Medical form for admission to the orthodontic specialty program

38.	Are all students/residents, faculty and support staff involved in the direct provision of patient care continuously recognized/certified in basic life support procedures, including cardiopulmonary resuscitation? (3)	YES
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Documentary Evidence:

On Site
CPR certification lists held in department files and by College of Dentistry

39.	Are private office facilities used as a means of providing clinical experiences in advanced specialty education? (3)*	NO
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40.	Is adequate space designated specifically for the advanced specialty education program in orthodontics and dentofacial orthopedics? (3-1)	YES
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The our clinic is located in Room 131 of the College of Dentistry. No other department uses this space.

The postgraduate clinic is open 5 full days per week (Monday through Friday). There are 27 chairs with each student being assigned a chair for each year while in the orthodontic specialty program. The orthodontic curriculum is set up on a schedule of "A" week and "B" week so that there are two of the three classes of specialty students in the clinic at any one time. This allows for seven empty chairs for emergencies, unscheduled visits, predoctoral patients and retention checks. Moreover, with blocks in the online appointment book, the students learn to schedule their patients for efficient time utilization. When not assigned to the clinic, the students do research, take other classes, discuss patients with instructors, have tutorial sessions, or do treatment planning or lab work.

The clinic has a modern open design that provides each student with their assigned patient treatment unit. This open concept facilitates the educational process of demonstration by instructors by allowing the student to watch the procedures and progress of patients treated in adjacent units as well as her/his own patients. It is for this reason that the unit assignments are set up so that all of the first year student/residents are in the center aisle of the clinic with an adjacent second and third year student.

Each unit has its own computer which has web access and provides for a completely paperless practice since all of the records (Dolphin® and Orthocad®) are digital and connected to the College of Dentistry's axiUm computer program. Also, each unit has locked cabinets for the student's patient treatment instruments, camera, alginate mixing bowls and other accessories. A separate sterilization room attached to the clinic has assigned drawers and cabinet space for the students' sterilized instruments. Each student also has a computer on her/his assigned desk in the second floor computer lab.

Areas outside of the clinic are available for patient/parent consultation and education.

Documentary Evidence:

On Site
Department floor plans

41. Do facilities permit the students/residents to work effectively with trained allied dental personnel? (3-2) YES

The orthodontic clinic has 4 full-time dental assistants to help students at the chair, provide sterilization of the instruments and equipment, take care of all of the ordering and maintain a computer database of all the products and inventory of the supplies and, if bilingual, provide Spanish translation for the Spanish speaking parents and patients. In addition, there are 2 full-time orthodontic business office staff members to help the students with business aspects such as appointments, insurance, verifying status of patients with state aid agencies, and referral to other departments along with Spanish translation when required. All of the auxiliaries also participate in instruction of the students along with transmitting up-to-date information about technology and supplies to the students. Preparation of patient information to be sent electronically for public aid approval is done by another staff member.

Documentary Evidence:

On Site
Staff work schedules
Department staff roster

42. Are radiographic, biometric and data collecting facilities readily available to document both clinical and research data? (3-3) YES

Networked computers and connections to patient records are available at all computers including the assigned computers in the second floor lab. In this lab, every student has his/her own assigned desk, computer, locker and storage drawers. Scanners are available in the second floor lab, as well as CAD/CAM® (Computer Aided Design/Computer Aided Manufacturing) and Webcam® capabilities for instruction both internally and with outside sources and software for 2D and 3D analysis.

Documentary Evidence:

On Site
Department second floor plan
Computer and imaging manuals

43. Is imaging equipment available? (3-3) YES

All orthodontic students purchase clinical cameras for facial and intraoral photographs. The College of Dentistry's radiographic facilities nearby on the first floor are used to obtain panoramic, periapical, occlusal, lateral jaw and cephalometric radiographs, and cone beam computed tomography (CBCT) images. MRI and CT scans are available in the University of Illinois Medical Center Hospital. No radiographic equipment is present in the Department of Orthodontics.

Documentary Evidence:

On Site
Patient records
Photographic Imaging Manuals
Cone Beam CT Manual

44. Do students/residents in the orthodontic program have access to adequate space, equipment, and physical facilities to do research? (3-4) YES

Funded department basic science faculty (e.g. Diekwisch, Luan, Atsawasawan) have well-equipped laboratories. At the present time Drs. Galang and Silberstein also have research grants and work with postgrad students. The department has other general purpose laboratories on the second floor with modern computing facilities and bench space. Research mentors in the College of Dentistry and other colleges on the UIC campus likewise provide research facilities to our students as necessary. Another very important place with excellent facilities and exceptional research mentors are the American Dental Association Laboratories located in downtown Chicago.

Documentary Evidence:

On Site
Specific information about laboratory resources and visual inspection

45. Are adequate secretarial, clerical, dental auxiliary and technical personnel provided to enable students/residents to achieve the educational goals of the program? (3-5) YES

The department office has a business manager and a part-time student worker in the fall and spring semesters. Specifically, the list of orthodontic staff includes:

- Business manager/administrative assistant - one
- Secretaries/clerks - two
- Student worker (part-time in fall and spring) - one
- Dental assistants - four
- Dental hygienist supervisor – one (unfilled position)
- Information technology specialist - one

In addition to the staff in the department, the College of Dentistry has an IT Department which assists the orthodontic department.

Documentary Evidence:

On Site
Department staff roster

46. Are clinical facilities provided within the sponsoring or affiliated institution to fulfill the educational needs of the program? (3-6) YES

In addition to the Orthodontic Clinic (Room 131), the College of Dentistry has well-equipped clinics for Oral and Maxillofacial Surgery, Periodontics, Pediatric Dentistry, Endodontics, Prosthodontics/Restorative Dentistry, Implants, Oral Radiology, and predoctoral dentistry.

Documentary Evidence:

On Site

An on site tour will be available.

47. Is sufficient space provided for storage of patient records, models and other related diagnostic materials? (3-7) YES

There is a room next to the sterilization room and the clinic for patient photography.

Patient records are stored digitally following HIPAA requirements on secure servers which are managed by the IT Department of the College of Dentistry. The computers throughout the department are networked so that patient records can be viewed from any computer terminal. In addition, the department has a large storage area in the basement for inactive paper charts and plaster models.

Dr. Budi Kusnoto, Clinic Director, provides crucial in-house expertise needed to integrate the Dolphin Orthodontic Imaging® program and OrthoCad® software for 3D study models with the College of Dentistry's digital patient record program, axiUm dental school software. A Motion View 3D laser scanner has been installed in the Department for scanning impressions, but is not fully implemented in the routines of the clinic yet.

Documentary Evidence:

On Site

Department floor plan

48. Are these records and materials readily available to effectively document active treatment progress and immediate as well as long term post-treatment results? (3-8) YES

Digital patient records can be retrieved for viewing and updating at the computer workstation at each chair in the clinic, at each desk in the second floor lab, and on department computers in the classrooms and faculty offices. A log of completed inactive patients from the pre-digital era is kept in the basement storage room. The log, charts and dental study models can be retrieved readily.

Orthodontic students/residents are required to document the treatment and retention changes of, at least, three patients by comparing full "A," "B" and "C" records. The write-ups are stored in axiUm and reviewed and approved by a faculty member.

Documentary Evidence:

On Site

Graduating student withdrawal check sheet

List of files available on computers and in the basement storeroom.

49. Is digital radiography equipment available and accessible to the orthodontic clinic so that panoramic, cephalometric and other images can be provided for patients? Cone-beam volumetric images are also acceptable (3-9)	YES
--	-----

Digital radiographs are obtained in the Oral Radiology Clinic on the first floor of the College of Dentistry. A scanner for digitizing film radiographs is located in the second floor orthodontic laboratory. Every student has an assigned clinical unit with its own computer and capabilities to retrieve all of the patient records including radiographs including CBCTs, 2D radiographs, digital models, photos and patient charts.

Documentary Evidence:

On Site

Demonstration of imaging capabilities

STANDARD 4 - Curriculum and Program Duration

50.	Is the advanced specialty education program designed to provide special knowledge and skills beyond the D.D.S. or D.M.D. training and oriented to the accepted standards of specialty practice as set forth in the Accreditation Standards for Advanced Specialty Education Programs? (4)	YES
51.	Is the level of specialty area instruction in the certificate and degree-granting programs comparable? (4)	NA
52.	Is documentation of all program activities ensured by the program director and available for review? (4)	YES
53.	If the institution/program enrolls part-time students/residents, does the institution have guidelines regarding enrollment of part-time students/residents? (4)	NA
54.	If the institution/program enrolls part-time students/residents, do they start and complete the program within a single institution, except when the program is discontinued? (4)	NA
55.	If the institution/program enrolls students/residents on a part-time basis, does the director of the accredited program ensure that: <ul style="list-style-type: none"> a) The educational experiences, including the clinical experiences and responsibilities, are the same as required by full-time students/residents? and b) There is an equivalent number of months spent in the program? (4) 	NA NA
56.	Is the advanced specialty education program in orthodontics and dentofacial orthopedics a minimum of twenty-four (24) months and 3700 scheduled hours in duration? (4-1)	YES

The program is 32 months in duration (August of the first year to May of the third year). The number of scheduled hours exceeds 4400. The calculation is based upon six 17 week semesters and two 12 week semesters, 35 hours per week.

Documentary Evidence:

On Site
 Class schedules
 Annual reports

57.	Do at least two consecutive years of clinical education take place in a single educational setting? (4-1)	
a)	Develop treatment plans and diagnoses based on information about normal and abnormal growth and development?	YES
b)	Use the concepts gained in embryology and genetics in planning treatment?	YES
c)	Include knowledge of anatomy and histology in planning and carrying out treatment? and	YES
d)	Apply knowledge about the diagnosis, prevention and treatment of pathology of oral tissues? (4-2)	YES

Documentary Evidence:

On Site
Final Clinical Examination results
Reports from craniofacial rotations
Grades on ORTD 513 (Craniofacial Growth and Development) oral examination
Grades from OMDS (Oral Pathology) course

58.	Is orthodontic treatment evidence-based? (EBD is an approach to oral health care that requires the judicious integration of systematic assessments of clinically relevant scientific evidence, relating to the patient's oral and medical condition and history, with the dentist's clinical expertise and the patient's treatment needs and preferences.) (Adopted by the American Association of Orthodontists House of Delegates 05/24/2005) (4-3.1)	YES
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Documentary Evidence:

Appendix I: Courses

On Site
Entries on Blackboard

59. Does the advanced specialty education program in orthodontics and dentofacial orthopedics require extensive and comprehensive clinical experience, which is representative of the character of orthodontic problems encountered in private practice? (4-3.2)	YES
--	-----

The first table summarizes the appliances used by each instructor. The second table shows patient completion and transfer data. The third table summarizes the clinical experiences of the class finishing in May, 2013.

Instructor	0.018	0.022	Preadjusted	Standard	Conventional	SelfLigating
		2.61%	2.61%		2.61%	
	5.23%		5.23%			5.23%
	5.49%		5.49%		5.49%	
	3.92%		3.92%		3.92%	
	2.35%		2.35%		2.35%	
	1.13%		1.13%		1.13%	
	13.41%		13.41%		13.41%	
	8.54%		8.54%		8.54%	
	1.13%		1.13%		1.13%	
	1.57%		1.57%		1.57%	
	3.05%		3.05%			3.05%
	7.49%		7.49%		7.49%	
	3.48%		3.48%		3.48%	
	6.53%			6.53%	6.53%	
	6.45%		6.45%		6.45%	
	1.39%		1.39%		1.39%	
	3.05%		3.05%		3.05%	
		10.37%	10.37%		10.37%	
	3.57%		3.57%		3.57%	
	8.36%		8.36%			8.36%
		0.87%	0.87%			0.87%
	86.15%	13.85%	93.47%	6.53%	82.49%	17.51%

	Student 1	Student 2	Student 3	Student 4	Student 5	Student 6	Student 7	Student 8	
Case you start yourself (includes 8 freebies)	51	51	50	48	58	52	50	65	425
Case you start yourself and debond (retained)	44	33	34	21	23	34	35	30	254
Case you start and transferred	5	16	16	23	0	16	15	35	126
Case you get as transferred and debond	16	22	23	5	17	17	29	20	149
Case you get as transferred and still being transferred	0	5	2	1	4	2	4	2	20
Retention active	43	35	38	25	54	39	67	30	331
Phase 1 going to phase 2	3	2	1	3	2	2	1	0	14
	162	164	164	126	158	162	201	182	

Orthodontics - Accreditation Self Study

November, 2013

	Student 1	Student 2	Student 3	Student 4	Student 5	Student 6	Student 7	Student 8	Total	Average	SD
Early/Mixed	2	3	4	2	3	3	3	5	25	3	1
Late mixed	3	5	4	3	2	2	2	4	25	3	1
Permanent	32	57	84	48	75	51	38	71	456	57	18
Extraction	20	28	38	18	32	21	21	39	217	27	8
Non Extraction	18	35	54	35	48	35	22	41	288	36	12
Esthetic tx (Ceramic)	4	5	5	4	3	3	3	5	32	4	1
Functional	8	7	5	5	4	7	4	4	44	6	2
Phase I	5	3	4	5	4	4	5	7	37	5	1
Phase II	3	2	3	3	3	2	4	3	23	3	1
Multi disciplinary	2	4	4	5	3	2	3	3	26	3	1
Orthognathic	7	7	5	4	6	5	5	3	42	5	1
Class I Non Ext	6	16	25	11	23	17	9	29	136	17	8
Class I Ext	6	14	15	10	6	7	11	21	90	11	5
Class II Div 1 Non Ext	6	8	13	7	14	11	4	8	71	9	3
Class II Div 2 Non Ext	2	2	7	3	4	4	1	1	24	3	2
Class II Div 1 Ext	6	8	11	6	10	7	6	5	59	7	2
Class II Div 2 Ext		1	1	1					3	1	0
Class II Surgical	1			1		1	1		4	1	0
Class III Non Ext	5	2	2	8	2	2	3	4	28	4	2
Class III Transverse	2	3	3	3	3	3	1		21	3	1
Class III Surgical	6	7	5	3	6	4	3	3	37	5	2
Class III Extraction		2	4	1	7	2	2	3	21	3	2
Limited	3	3	3	2	4	3	3	4	25	3	1
	7.5	12.5	18.2	10.5	15.8	11.1	8.5	15.8	100.0 %	Total:	505
Haas	3	2	4	3	2	3	3	2	22	3	1
Hyrax	3	4	4	3	3	5	5	5	32	4	1
Bonded RPE	2	2	1	3		1	2	1	12	2	1
Quadhelix	2	3	2	4	3	4	2	2	22	3	1
TPA	5	3	4	2	3	4	4		25	4	1
Lip bumper	3	1		2	1		1		8	2	1
Tandem	1	1			1		1	1	5	1	0
CHG	3	5	3	4	3	5	6	4	33	4	1
HPHG	1	2	2	2	2	3	3	2	17	2	1
Protraction ChinCup	1	1	1	1		1	2		7	1	0
Facemask	2	3	2	2	2	2	1	2	16	2	1
Vertical pull Chincup		2							2	2	
Removable functional		1		1	1	1	1		5	1	0
Herbst	1	2	2	2	1	2	2		12	2	0
Pendex	1	2	1			1	1		6	1	0
Distalizer		2	1	1	1	2	2	1	10	1	1
Forsus	2	3	2	2		2	2	1	14	2	1
Nance	2	1					1		4	1	1
Removable Lower Lingual	1	1	1	3	2	2	2	1	13	2	1
Fixed Lower Lingual	1	2	2	3	3	2	3	2	18	2	1
2x4 auxilliary	4	4	4	5	4	4	4	4	33	4	0
Segmental extraction	3	4	3	3	3	3	4	3	26	3	0
Invisalign	4	4	4	5	3	5	5	7	37	5	1
Other									0		
a. Onplant									0		
b. Miniscrews	5	3	3	2	4	3	6	3	29	4	1
c. Palatal implant									0		
d. Lower HG									0		
e. Damon	3	4	2	3	3	3	3	3	24	3	1
f. Schwartz	2	1	1	2	2	1	2	2	13		
g. Lingual					2	2			4	2	0
Total cases:	55	63	49	58	49	61	68	46	449 cases		
%	12.2	14.0	10.9	12.9	10.9	13.6	15.1	10.2	100.0 %		

Documentary Evidence:

On Site
Weekly schedules
Patient records

60. Does experience include treatment of all types of malocclusion, whether in the permanent or transitional dentitions? (4-3.3)	YES
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Documentary Evidence:

On Site

Patient screening and assignment reports

Similar clinical statistics from 2003-2013

61. Is a graduate of an advanced specialty education program in orthodontics proficient to:	
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a) Coordinate and document detailed interdisciplinary treatment plans which may include care from other providers, such as restorative dentists and oral and maxillofacial surgeons or other dental specialists?	YES
b) Treat and manage developing dentofacial problems which can be minimized by appropriate timely intervention?	YES
c) Use dentofacial orthopedics in the treatment of patients when appropriate?	YES
d) Treat and manage major dentofacial abnormalities and coordinate care with oral and maxillofacial surgeons and other healthcare providers?	YES
e) Provide all phases of orthodontic treatment including initiation, completion and retention?	YES
f) Treat patients with at least one contemporary orthodontic technique?	YES
g) Manage patients with functional occlusal and temporomandibular disorders?	YES
h) Treat or manage the orthodontic aspects of patients with moderate and advanced periodontal problems?	YES
i) Develop and document treatment plans using sound principles of appliance design and biomechanics?	YES
j) Obtain and create long term files of quality images of patients using techniques of photography, radiology and cephalometrics, including computer techniques when appropriate?	YES
k) Use dental materials knowledgeably in the fabrication and placement of fixed and removable appliances?	YES
l) Develop and maintain a system of long-term treatment records as a foundation for understanding and planning treatment and retention procedures?	YES
m) Practice orthodontics in full compliance with accepted standards of ethical behavior?	YES
n) Manage and motivate patients to participate fully with orthodontic treatment procedures? and	YES
o) Study and critically evaluate the literature and other information pertaining to this field? (4-3.4)	YES

Documentary Evidence:

Appendix I: Course syllabi

62. Does the orthodontic graduate have familiarity with:

a) Biostatistics?	YES
b) History of Orthodontics and Dentofacial Orthopedics?	YES
c) Jurisprudence?	YES
d) Oral Physiology?	YES
e) Pain and Anxiety Control?	YES
f) Pediatrics?	YES
g) Periodontics?	YES
h) Pharmacology?	YES
i) Preventive Dentistry?	YES
j) Psychological Aspects of Orthodontic and Dentofacial Orthopedic treatment?	YES
k) Public Health Aspects of Orthodontics and Dentofacial Orthopedics?	YES
l) Speech Pathology and Therapy?	YES
m) Practice Management? and	YES
n) The variety of recognized techniques used in contemporary orthodontic practice? (4-4)	YES

Documentary Evidence:

Appendix I: Course syllabi

STANDARD 5 - Advanced Education Students/Residents Eligibility and Selection

63.	Are dentists with the following qualifications eligible to enter the advanced specialty education program accredited by the Commission on Dental Accreditation:	
	Graduates from institutions in the U.S. accredited by the Commission on Dental Accreditation?	YES
	Graduates from institutions in Canada accredited by the Commission on Dental Accreditation of Canada? and	YES
	Graduates of international dental schools who possess equivalent educational background and standing as determined by the institution and program? (5)	YES

Documentary Evidence:

Appendix J: A Brochure, School Catalog or Formal Description of the Program

On Site
 Acceptance packet that is sent to applicants

64.	Are specific written criteria, policies and procedures followed when admitting students/residents? (5)	YES
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Documentary Evidence:

On Site
 Admissions files from previous years

65.	Is the admission of students/residents with advanced standing based on the same standards of achievement required by students/residents regularly enrolled in the program? (5)	NA
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66.	Do transfer students/residents with advanced standing receive an appropriate curriculum that results in the same standards of competence required by students/residents regularly enrolled in the program? (5)	NA
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67. Is a committee of orthodontic faculty members responsible for the selection of students/residents for postdoctoral training, unless the program is sponsored by a federal service utilizing a centralized student/resident selection process? (5-1)	YES
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All faculty are asked to participate in reading applications and ranking applicants for admission to the program. This faculty ranking is the basis for the names the department submits to the Match Program.

Documentary Evidence:

On Site
Department Bylaws

Evaluation

68. Does a system of ongoing evaluation and advancement ensure that, through the director and faculty, each program:		
a) Periodically, but at least semiannually, evaluates the knowledge, skills, ethical conduct and professional growth of its students/residents, using appropriate written criteria and procedures?	YES	
b) Provides to students/residents an assessment of their performance, at least semiannually?	YES	
c) Advances students/residents to positions of higher responsibility only on the basis of an evaluation of their readiness for advancement? And	YES	
d) Maintains a personal record of evaluation for each student/resident which is accessible to the student/resident and available for review during site visits? (5)	YES	

Documentary Evidence:

Appendix K: Forms for evaluation of students

On Site
Records of residents' meetings with Program Director

Due Process

69. Are there specific written due process policies and procedures for adjudication of academic and disciplinary complaints, which parallel those established by the sponsoring institution? (5) YES

Documentary Evidence:

Appendix L: Policies and Procedures For Adjudication of Academic and Disciplinary Complaints, Which Parallel Those Established By The Sponsoring Institution.

On Site
Postgraduate Program Committee Policies and Procedures

Rights and Responsibilities

70. At the time of enrollment are the advanced specialty education students/residents apprised in writing of the educational experience to be provided, including the nature of assignments to other departments or institutions and teaching commitments? (5) YES

Documentary Evidence:

Appendix M: Selected Written Materials Given to Entering Students

71. Are all advanced specialty education students/residents provided with written information which affirms their obligations and responsibilities to the institution, the program and program faculty? (5) YES

Documentary Evidence:

Appendix M: Selected Written Materials Given to Entering Students

STANDARD 6 – Research

72. Do advanced specialty education students/residents engage in scholarly activity?(6) YES

All orthodontic postgraduate students are simultaneously enrolled in a Graduate College degree program, usually the Master of Science in Oral Sciences. They must submit their completed, defended and revised M.S. theses to the Graduate College before they are allowed to take their final clinical examinations for the Certificate in Orthodontics. Some of our postgraduate students enroll in PhD degrees in such fields as Public Health, Bioengineering, Neuroscience, Anatomy/Cell Biology, and Medical Education; none of these students has dropped out from a PhD program.

Documentary Evidence:

- On Site
- List of student theses
- List of research awards
- List of student publications
- Withdrawal form
- M.S. in Oral Sciences site visit reports

73. Do students/residents initiate and complete a research project to include critical review of the literature, development of a hypothesis and the design, statistical analysis and interpretation of data? (6-1) YES

All orthodontic postgraduate students are simultaneously enrolled in a Graduate College degree program, usually the Master of Science in Oral Sciences. The orthodontic faculty require that they submit their completed, defended and revised theses to the Graduate College before they are allowed to take their final clinical examinations for the Certificate in Orthodontics. Since 1994, no one has finished late. The theses are registered in the Proquest database and are copyrighted through the Library of Congress.

SUMMARY OF SELF-STUDY REPORT

Summarize in a qualitative appraisal and analysis the program's strengths and weakness.

Note: This summary culminates the self-study report in a qualitative appraisal and analysis of the program's strengths and weakness.

Institution-Related

1. Assess the adequacy of institutional support for the program.

The program has a new, dedicated, well-equipped, and attractive clinic with 27 chairs; the Brodie library; two classrooms; an imaging and research laboratory; a large computer room with student workspaces; a plaster and appliance laboratory; basement storage; and faculty offices. The College's IT staff is very able and supports the college's clinical management software and other networking functions. The alumni support has been outstanding! The cost of the recent renovations (\$3-4 million) has been funded by gifts and donations from alumni/ae and friends of the Department of Orthodontics.

Some changes occurring since the last accreditation affect the desirability of UIC's orthodontic specialty program to applicants. For example, the loss of tuition waivers and student stipends for specialty students puts us at a competitive disadvantage especially with hospital GME programs. The lack of a formal TMD clinical rotation, as well as loss of access to the Center for Craniofacial Anomalies across the hall from the Department of Orthodontics, impact the depth of experiences available to the students. We have made satisfactory adjustments, however. The orthodontic postgraduate students have new substitute rotations at Stroger and Lurie Hospitals in Chicago.

2. Assess whether the program is achieving goals through training beyond pre-doctoral level.

Our graduates are very well prepared for specialty practice. The faculty members are extremely proud of the caliber of our students, the use of technology, research productivity, the diverse patient population and the breadth of the clinical experiences available. All of our postgraduate students finish the complement of cases needed for the American Board of Orthodontics specialty examination, an achievement that is unusual among orthodontic specialty programs. All of those who chose to take the Phase III ABO diplomate examination passed. At graduation, our new orthodontists are at the forefront of digital technology and are experienced with the use of temporary anchorage devices and laser applications. Due to the high percentage of public aid patients in our clinic, our patients present with malocclusions far more difficult than the typical patient seen in a suburban private practice and they are treated to very high standards by the postgraduate doctors. Roughly half of our patients are Hispanic. Each postgraduate student has many patients who require interdisciplinary interactions with specialists from periodontics, prosthetic dentistry, and orthognathic surgery.

3. Assess whether the program is achieving goals through stated competencies.

Student evaluations and surveys of students and graduates show that the program achieves the stated competencies. A graduate of the postgraduate orthodontic specialty program will be competent to:

1. Diagnose and treat dentofacial problems for children, adolescents, and adults within the scope of orthodontics.
2. Apply the fundamental principles of the biomedical sciences as they relate to the practice of orthodontics.
3. Apply contemporary information and technology in the practice of orthodontics.
4. Apply the fundamental principles of the behavioral sciences in orthodontic treatment.
5. Manage medical and dental emergencies that may be encountered in orthodontic practice.
6. Apply the principles and philosophy of practice management in orthodontics.
7. Employ the interpersonal and communication skills necessary to provide orthodontic care to a diverse patient population and to function in a multicultural work environment.
8. Apply legal and regulatory concepts in the practice of orthodontics.
9. Apply the principles of ethical reasoning and professional responsibility as they relate to patient care and practice management.
10. Practice continual learning and self-assessment in maintaining competence.
11. Critically analyze scientific merits of orthodontic literature.

4. Assess whether the program is achieving goals through stated proficiencies.

Student evaluations and surveys of students and graduates show that the program achieves the stated proficiencies. The proficiencies listed in the accreditation standards for orthodontic specialty students are assessed by varied experiences, observation of work, performance examinations, and self-evaluation, as described in question 3.

5. Assess whether the program is achieving goals through outcomes.

Faculty and students review outcome assessments and the curriculum is modified as needed. Outcome assessments demonstrate that the graduates have a good scientific and clinical foundation for specialty practice. They are savvy about technology and understand the need for evidence in choosing their approaches to treatment. The department's atmosphere promotes open discussion among colleagues (critical thinking, evaluation of new information, production of new knowledge, and academic exchanges at guest presentations). The department has a reputation for producing successful, ethical practitioners. However, the size of the program doesn't meet the needs of the state of Illinois in terms of numbers of new practitioners.

6. Assess calibration among program directors and faculty in the student/resident evaluation process to ensure consistency of the evaluation process.

We have carefully constructed didactic and clinical grading systems to ensure consistency and fairness. The treatment planning process is standardized with collection of high quality records, input of data in a custom software called TxWiz, and entry of the diagnostic information and treatment plan in AxiUm, the clinic management software. All treatment visits are recorded by codes and these entries are tracked carefully. When multiple instructors are involved, as in the clinic courses, a standard quantitative grade sheet is utilized and grades are calculated. In courses having oral examinations, more than one instructor is present for all of the examinations and lists of predetermined questions are utilized.

7. Assess the faculty evaluation process to ensure consistency of the evaluation process.

The Department of Orthodontics has a longstanding process for evaluating faculty. Faculty are evaluated by students (yearly), the program director (yearly) and peers (at 5 year intervals or as needed for promotion and tenure). The faculty members also complete a self-evaluation and report continuing education activities on a yearly basis. Documentation is on file in the department office.

8. Assess the institution's policies on advanced education students/residents.

The College of Dentistry has been educating advanced students for decades; the policies are well thought out and effective. The institution has policies on advanced students that ensures students and faculty are each well aware of their responsibilities in the learning process. Students are provided relevant information regarding Program fees, immunizations, learning philosophy and gainful employment prior to the matriculation so that they make informed decisions. Much of this information is online. During program orientation, students are provided information regarding CODA Policy on Complaints, Academic Professionalism, and relevant clinical information related to College and Program clinical guidelines and procedures including HIPAA, OSHA, and CPR. They are provided infection control guidelines and are closely monitored by attending faculty for compliance.

9. Assess the institution's policies on eligibility and selection.

The Department of Orthodontics participates in PASS and MATCH programs for selection of orthodontic residents. The entire faculty is engaged in selecting candidates for interviews and prioritizing the match list. Applications are accepted from dentists who are graduates of CODA accredited schools as well as foreign dental schools. We recently started requiring GRE scores because the National Board scores are now distributed as pass/fail and many dental schools give only pass/fail grades. We carefully review all the applications from minority applicants and discuss each one by the faculty group.

10. Assess the institution's policies on due process.

The policies on due process are very clear and are distributed to the students and faculty. Questions of grades and academic status are primarily under the jurisdiction of the academic departments, schools and colleges. The Executive Dean for Academic Affairs presides over academic activity at the UIC College of Dentistry. Advanced students in the College of Dentistry have an opportunity to appeal decisions made by specific course directors or their Program Director. Procedures for review of departmental decisions are contained in the College's "Procedures for Promotion and Dismissal for Academic Reasons—Students in Certification Programs in Dentistry." Students are provided this information upon their matriculation into the program.

11. Assess the institution's policies on student/resident rights and responsibilities.

The policies on student rights and responsibilities are very clear and are distributed to the students and faculty. Students sign a behavioral expectations form on the first day of class. Students are reminded of their rights and responsibilities through the review of documents such as the ADA Code of Ethics and the College of Dentistry Academic Professionalism document. Review of these heightens the students' awareness of rights and responsibilities as students and practicing professionals. Students are provided the Commission Policy on Complaints. Students are provided information on due process. All policies reinforce the professional attitude by reinforcing student rights and responsibilities.

Orthodontics - Accreditation Self Study

November, 2013

The University has a process for dealing with alleged cases of discrimination related to race, sex, sexual orientation, national origin, religion, age, disability and other instances of alleged administration injustices. A formal grievance may be filed with the UIC Department of Access and Equity following informal attempts to resolve the complaint. This grievance must be filed within forty-five days of the time that an individual knows or reasonably should have known that an occurrence has affected his or her status.

12. Assess the adequacy and accessibility, hours of operation and scope of holdings of the sponsoring institution's library resources.

The university and departmental libraries are exceptional. Password-controlled digital access to UIC's libraries is available worldwide. Resources also include a dental liaison librarian who maintains office hours at the College of Dentistry, teaches evidence based practice as part of the dental curriculum, maintains a targeted research website linking to appropriate library and professional information resources, and has regular one-on-one consults with students and faculty.

13. Assess the institutional oversight of the quality of training at affiliated institutions.

Our limited off-site rotations at Stroger and Lurie Hospitals are overseen individuals who have appointments in UIC's Department of Orthodontics. The faculty members provide excellent feedback about the rotations and the students report good learning experiences.

Patient Care

1. Assess the institution's/program's preparedness to manage medical emergencies.

The institution and program are prepared to manage medical emergencies because the College of Dentistry oversees training programs and provision of emergency supplies. The Office of the Associate Dean for Clinical Affairs monitors, inspects, and updates supplies in the crash carts in Group Practice Da Vinci (room 211) and Rembrandt (room 321). Graduate Pediatric Dentistry, Graduate Oral Surgery, and Graduate Periodontics monitor and maintain their own crash carts. The orthodontic clinic is located next to the oral surgery clinic and, in an emergency, the oral surgeons would provide immediate assistance.

2. Assess the adequacy of radiographic services and protection for patients, advanced education students/residents and staff.

Radiographs are obtained in the Radiology Department under the close supervision of Dr. Richard Monahan and his staff. The orthodontic residents and staff are well-trained in radiation hygiene. A course on oral radiology for the specialist is included in the orthodontic curriculum. The policies on utilization and recording of radiographs are available at any computer on the dental school intranet.

3. Assess the program's capacity for four-handed dentistry.

At most we have 18 postgraduate orthodontic students in clinic at each session. The priority of the four dental assistants in the clinic is to assist our doctors in taking photographs, bonding/banding and debanding when possible. Also the orthodontic residents help each other when appropriate. The residents know how to work with an assistant.

We no longer have dental assisting students on rotation from a local assisting school to prepare the work area, pass instruments and brackets, and hold the curing light.

4. Assess the institution's policies and procedures on hazardous materials, and bloodborne and infectious diseases for patients, advanced education students/residents and staff.

Institutional policies and procedures for hazardous materials, and bloodborne and infectious diseases are in force. The Director of Clinics oversees the immunization clearance process, and communicates with applicants appropriately with the goal of reaching full compliance by the first day of the program. The Office for Clinical Affairs maintains an informational board which contains pertinent clinical information such as Privacy Policies, summarized Infection Control policies, CDC precautions for the transmission of airborne diseases, Contact phone numbers, Protocol to manage Medical Emergencies, Policy for Patient Input, among others.

5. Assess how students/residents may be able to apply ethical, legal and regulatory concepts in the provision, prevention and/or support of oral health care.

Orthodontic residents are instructed on ethical, as well as legal and regulatory concepts and this information is reinforced in the clinic and in treatment conferences. We have classroom sessions on ethical principles and choices. Remedial instruction and counseling are available when necessary. For example, the student counseling center accepts referrals of individuals who need additional positive reinforcement after plagiarism, untruthful entries in patient records, or other inappropriate behavior.

Program-Related

1. Assess the student's/resident's time distribution among each program activity (e.g., didactic, clinical, teaching, research) and how well it is working

The time distribution was determined by the Program Director on the basis of faculty meetings, specialty accreditation requirements, recommendations developed at orthodontic educators meetings, M.S. degree requirements, and other university requirements. We think we have a very desirable balance of clinical, academic and research components. The time distribution working well and we are very pleased with our graduates.

2. Assess the volume and variety of the program's patient pool.

We have adequate numbers of patients to provide the students with the types of patients representative of those found in specialty practice. They study their patients and the progress of treatment very carefully. Each postgraduate student starts 50 or more comprehensive cases and finishes about 75% of them. They also are assigned limited cases that are treated with predoctoral students and some patients that need an early Phase I treatment or observation.

3. Assess the program's student/resident/faculty ratio.

We have diverse and committed clinical and research faculty members. The program's student/faculty ratio is good. We have roughly 9.5 paid FTE and also volunteer faculty for fulfilling the needs of predoctoral and postdoctoral instruction and departmental activities. Usually three or four instructors are supervising in the clinic at each session.

4. Assess the program's student/resident pool.

Approximately 40% of all applicants to accredited orthodontic programs request that PASS sends their credentials to UIC's orthodontic specialty program. We attribute this to the program's reputation for providing a sound clinical education, the faculty's visibility at national meetings, the financial incentive plan, and the location in a desirable city. With the increasing debt level of applicants and our increasing tuition, we find that we have been losing some highly desirable candidates in the Match to GME and two year programs.

5. Assess rotations, electives and extramural experiences of the program.

We are able to meet accreditation requirements. We would like to incorporate more clinical experiences with patients having craniofacial anomalies, special needs, facial pain and temporomandibular disorders.

6. Assess the program's record keeping and retention practices.

Our top focus of the faculty for the past five years has been the implementation of superior quality electronic patient records, successful completion of the American Board of Orthodontics examinations, and graduating highly capable clinicians. We continue to develop procedures and auditing methods to ensure that we are monitoring the course of treatment and retention for our patients. Our current and former patient records are electronic and available from any computer in the clinic, classrooms and second floor laboratory. Presentation of at least three analyzed post-retention records is a requirement for graduation.

7. Assess the research activities of the program.

In the admissions process, we stress that completion of an original research project is an important part of the program because we want our residents to experience the frustrations and satisfaction involved in figuring out the answers to a problem. ALL graduates since the last accreditation succeeded in defending a research thesis before their on-time completion of the orthodontic specialty program and most have published their work. They work with the department's two statisticians in developing their hypotheses and research protocols. The postgraduates regularly win research awards locally and at the national meeting of the American Association of Orthodontist. Two recent postgraduate projects have been featured on the website of the National Institute of Dental and Craniofacial Research.

Vision Statement

The University of Illinois at Chicago, College of Dentistry will be recognized as a leader in:

- patient-centered, evidence-based, technically enhanced clinical care founded on the preventive and public health sciences,
- integrated educational programs based upon contemporary pedagogy and technology, and
- centers of research excellence that are interdisciplinary, use innovative methodology and focus on relevant health and healthcare issues.

Mission Statement

The mission of the University of Illinois at Chicago, College of Dentistry is to promote optimum oral and general health to the people of the State of Illinois through excellence in education, patient care, research, and service.

The College identifies the following Institutional Goals to meet this mission:

- To provide patient-centered care that is evidence-based, comprehensive and compassionate for a culturally diverse population;
- To provide student-oriented educational programs that prepare learners to engage in the evidence supported, thoughtful, ethical practice of dentistry;
- To prepare highly qualified oral healthcare professionals, educators, and scientists in the oral health and basic sciences;
- To address health care needs through community-based initiatives, educational programs, and consultative services;
- To value and seek diversity in students, staff, faculty, and patients;
- To provide an environment for individual growth founded on mutual respect and professionalism;
- To foster collaborative research and develop specialized centers for innovative research in areas of health and disease;
- To maintain a leadership role in forming health care policy at the university, state, and national levels;
- To be a resource for continued professional development;

UIC COLLEGE OF DENTISTRY
DEPARTMENT OF ORTHODONTICS

Program Goals and Objectives

Mission Statement

The mission of the Department of Orthodontics is to provide education in the field of orthodontics, and to be a leading educational, research, and patient care center.

Goals

- Provide tools for critical thinking
- Develop mature and caring professionals
- Provide patients with high-quality treatment
- Provide a friendly, caring, clean professional environment
- Foster an environment of mutual respect among patients, residents, and staff
- Have an excellent faculty
- Attract excellent students

Objectives

- Train competent practitioners
- Prepare residents for American Board of Orthodontics diplomate status
- Provide consultation and education to the community
- Contribute new knowledge through research
- Produce excellent documentation of cases
- Achieve financial success
- Assure patient satisfaction

Exhibit 1a**OUTCOMES ASSESSMENT**
(Standard 1)**Overall Goal or Objective # 1**

Overall Goal or Objective	Train Competent Practitioners
Outcomes Assessment Mechanism	Formal examinations and informal assessments Clinic evaluations Patient record reviews and audits Outside examiners Annual resident interviews Pass rate on boards Questionnaire to new employer
How often conducted	Treatment cannot start until instructor approves treatment plan. Each patient visit requires instructor approval ('swipe' daily treatment records in Axium™—unswiped entries are picked up weekly and must be corrected.) Presentations of patients on recurring basis in morning seminars, including treatment plan, progress, end of active treatment, and final records. Portfolio of treated patients presented at final oral examination, which includes an outside examiner.
Date to be conducted/ finished by	Recurring evaluations
Results expected	All completed cases must have post-treatment write up. Students receive critiques from faculty and classmates during case presentations. Clinic directors/faculty 'flag' patients whose treatment is not progressing as expected for careful monitoring, which may include decision to alter treatment plan. Patients must begin active treatment within 60 days of acceptance.

	See Clinic Manual Clinic\ortho clinic3 UIC Orthodontic Clinic Manual
Results achieved	<p>Faculty ask students to self-evaluate at each patient visit.</p> <p>Depth and scope of self-evaluation increases as student gains experience</p> <p>End of active treatment write up must include detailed analysis of soft tissue, dental, and skeletal changes, and indicate whether treatment objectives in the plan have been realized.</p>
Assessment of results	<p>Third year students are not only capable of making in depth analysis of treatment plans, treatment progress, and finished cases, but are willing and eager to voice their ideas in case presentation seminars and in one-on-one interactions with faculty.</p>
Program improvement as a result of data analysis	<p>Because the patient records are now fully digital, analysis of treatment progress at the chair side, and case presentations in seminars have become increasingly sophisticated and well-organized.</p> <p>Quality of information has become an accepted norm, and discussions focus primarily on substantive aspects of diagnosis and treatment.</p> <p>We expect that the chart audits will reflect these changes.</p>
Date of next assessment	Ongoing

Overall Goal or Objective # 2

Overall Goal or Objective	Prepare Residents For American Board of Orthodontics Diplomate Status
Outcomes Assessment Mechanism	<p>Formal examinations and informal assessments Clinic evaluations Record reviews Annual resident interviews ABO scoring of cases</p> <p>Final Clinic Examination conducted by faculty and outside examiners—students present portfolio of treated cases using ABO criteria for documentation</p> <p>Participation in ABO pilot program 2002-2006.</p>
How often conducted	Once
Date to be conducted/ finished by	During final semester of program
Results expected	All residents will achieve ABO certification—graduates are strongly encouraged to take ABO Phase II and III examinations
Results achieved	All residents are ABO certifiable upon graduation
Assessment of results	ABO Directory In February 2006, six new grads took the ABO Phase III exam in St. Louis and six passed.
Program improvement as a result of data analysis	Encourages higher quality and more standardized records Treatment to a better ABO score
Date of next assessment	Ongoing

Overall Goal or Objective # 3

Overall Goal or Objective	Provide Consultation and Education to the Community
Outcomes Assessment Mechanism	New patient screening CE courses/fellowships
How often conducted	Resident participation in schools, health fairs, visits to general dental offices Faculty practice in the community Residents are ADA members
Date to be conducted/finished by	ongoing
Results expected	Better educated public Service to dentistry Referrals to the Department
Results achieved	Increased awareness of community oral health needs, increased awareness of desirability of orthodontic corrections Improved communication skills
Assessment of results	Patient satisfaction surveys
Program improvement as a result of data analysis	Better practice management skills
Date of next assessment	Ongoing

Overall Goal or Objective # 4

Overall Goal or Objective	Contribute New Knowledge Through Research
Outcomes Assessment Mechanism	Theses, Publications, Awards Department Annual Reports (grants awarded, publications, MS theses approved, presentations at scientific meetings, research awards, etc.) Grades in Oral Science courses,
How often conducted	Yearly
Date to be conducted/ finished by	Ongoing
Results expected	100% of residents have completed an original research experience
Results achieved	100% of residents have completed an original research experience
Assessment of results	Research endeavors are carefully planned, executed, and evaluated.
Program improvement as a result of data analysis	Scientifically literate graduates, able to become lifelong learners Graduates are able to discuss and evaluate orthodontic research
Date of next assessment	Ongoing

Overall Goal or Objective # 5

Overall Goal or Objective	Produce Excellent Documentation of Cases
Outcomes Assessment Mechanism	Record audits Outside examiners Morning case presentations Publications Medical history updates Periodontal updates Progress panoramic radiographs Full sets of progress records
How often conducted	Each semester
Date to be conducted/ finished by	Residents must meet the standard in order to graduate
Results expected	All patient charts will have complete records of the highest quality. All photos and radiographs are of publication quality.
Results achieved	Nearly all patient records are complete and of the highest quality, which includes initial diagnostic records, progress records, and retention records
Assessment of results	As more of our patient records are in digital format, the quality continues to improve Progress records at key stages of active treatment are not always obtained
Program improvement as a result of data analysis	Residents use records as part of self-assessment Faculty use records as teaching tools Residents are now encouraged to take progress records regularly
Date of next assessment	Ongoing

Overall Goal or Objective # 6

Overall Goal or Objective	Achieve Financial Success of Clinical Program
Outcomes Assessment Mechanism	Clinic evaluations Cash flow reports Number of new patients assigned to each class Clinic management meetings
How often conducted	Monthly
Date to be conducted/ finished by	Ongoing
Results expected	Run a profitable clinic
Results achieved	Hire additional support staff as resources permit
Assessment of results	Doing better
Program improvement as a result of data analysis	Use new resources to improve quality of the residency program
Date of next assessment	Ongoing

Overall Goal or Objective # 7

Overall Goal or Objective	Assure Patient Satisfaction
Outcomes Assessment Mechanism	Record reviews Clinic management meetings Patient surveys Patient/parent complaints registered by associate dean for patient care New referrals by patients
How often conducted	Clinic management meeting takes place monthly Formal record reviews occur whenever progress records are taken; if a patient is transferred; and at the conclusion of active treatment
Date to be conducted/finished by	Resolve all patient complaints immediately
Results expected	All patient complaints immediately resolved
Results achieved	Happy, compliant patients and parents
Assessment of results	Referrals Increased clinic income Shorter treatment
Program improvement as a result of data analysis	Improved interpersonal skills of residents
Date of next assessment	Ongoing

Overall Goal or Objective # 8

Overall Goal or Objective	Provide Tools For Critical Thinking
Outcomes Assessment Mechanism	Formal examinations and informal assessments Clinic and research evaluations Patient record reviews MS thesis committee meetings and final examination Seminar discussions Quality of presentations on assigned topics Performance on oral examinations
How often conducted	Informal—daily Formal—each semester
Date to be conducted/finished by	Graduation
Results expected	Lifelong learners
Results achieved	Ability to compare and contrast patient treatments Can think on their feet Ask good questions of guest speakers, detail persons, faculty Are well-prepared and able to make good quality presentations Can answer questions put to them
Assessment of results	Quality and completeness of patient records evaluated subjectively and with the clinic Scoring System Finish MS Thesis on time Few failures on oral examinations
Program improvement as a result of data analysis	Identify missing areas of knowledge Tutoring is provided when needed Strong record of publications (MS Thesis, case reports) by residents
Date of next assessment	Ongoing

Overall Goal or Objective # 9

Overall Goal or Objective	Develop Mature and Caring Professionals
Outcomes Assessment Mechanism	Clinic evaluations Outside examiners Alumni surveys Annual resident interviews by program director Job placement Patient surveys Faculty concerns Staff observation Patient complaints Admissions criteria
How often conducted	Informal—daily Formal—each semester
Date to be conducted/finished by	Graduation
Results expected	Ethical and concerned practitioners Able to model ethical behavior displayed by mentors
Results achieved	No license revocations Residents provide community service in public schools
Assessment of results	Alumni surveys Feedback from employers of graduates
Program improvement as a result of data analysis	Refer residents as necessary for counseling Program sets limits when needed Mentors attempt to model appropriate behavior More sessions on ethics and risk management added to program
Date of next assessment	Ongoing

Overall Goal or Objective # 10

Overall Goal or Objective	Provide Patients With High-Quality Treatment
Outcomes Assessment Mechanism	Formal examinations and informal assessments Clinic evaluations Record reviews Outside examiners Clinic management meetings Presentation to review patient status at initiation, progress, and completion of treatment Participation in ABO certification process Patient education training Ratio of students to faculty is low Publications resulting from quality of care studies
How often conducted	Informal—daily Formal—each semester
Date to be conducted/finished by	Graduation
Results expected	Happy patients Low ABO scores Patient treatment completed in a timely manner Fewer transfers of active patients from graduating class
Results achieved	3-D treatment plans Happy patients Low ABO scores, Satisfactory audits Patient treatment completed in a timely manner Fewer transfers of active patients from graduating class Publications
Assessment of results	Chart audits Final clinical oral examination
Program improvement as a result of data analysis	Tutoring when needed Change clinic procedures when necessary Form new clinic management teams
Date of next assessment	Ongoing and continuous

Overall Goal or Objective # 11

Overall Goal or Objective	Provide a Friendly, Caring, Clean Professional Environment
Outcomes Assessment Mechanism	Clinic management meetings involving all residents, faculty, and staff Referral reports from Axium™ Patient surveys Productivity reports from Axium™
How often conducted	Clinic management meets once or twice a month Reports generated as needed Surveys conducted yearly
Date to be conducted/finished by	Ongoing and continuous
Results expected	Good karma in the clinic
Results achieved	Some days are better than others
Assessment of results	Occasionally run out of supplies
Program improvement as a result of data analysis	Review of procedures for supply management, sterilization, and assignment of clinic staff duties Staff reminded regularly about getting referral information
Date of next assessment	Ongoing and continuous

Overall Goal or Objective # 12

Overall Goal or Objective	Foster An Environment of Mutual Respect Among Patients, Residents, Faculty, and Staff
Outcomes Assessment Mechanism	Clinic evaluations Annual resident interviews Clinic management meetings Staff evaluations of residents Ethics training as required by university ethics office Ethics training in behaviors promulgated by ADA and AAO
How often conducted	Staff evaluations are yearly Clinic management meetings occur once or twice a month
Date to be conducted/finished by	Ongoing and continuous
Results expected	No cheap personal attacks Respect for diversity
Results achieved	Harmony in the clinic
Assessment of results	We must work at it all the time, sometimes with disappointments.
Program improvement as a result of data analysis	Special instruction on how to get along on as needed basis Orientation to teamwork
Date of next assessment	Ongoing and continuous

Overall Goal or Objective # 13

Overall Goal or Objective	Have an Excellent Faculty
Outcomes Assessment Mechanism	Outside examiners Alumni and faculty surveys Annual resident interviews Pass rate on boards Faculty CV's/Department Annual Reports showing grants, publications, and other measures of scholarly and clinical excellence Faculty promotions Appointments of faculty to the graduate college Evaluations of courses, faculty by residents Diversity of expertise among the faculty
How often conducted	Yearly
Date to be conducted/finished by	Ongoing and continuous
Results expected	Residents learn various techniques
Results achieved	Younger faculty are developing well. Have been unable to attract senior tenurable faculty.
Assessment of results	We are doing well, but could be doing better.
Program improvement as a result of data analysis	Ongoing recruitment of excellent faculty from large and diverse pool Guest speakers are invited for added dimension
Date of next assessment	Ongoing and continuous

Overall Goal or Objective # 14

Overall Goal or Objective	Attract Excellent Students
Outcomes Assessment Mechanism	Formal examinations and informal assessments Clinic and research evaluations Admissions statistics detailing the number and quality of applicants Many faculty interview applicants Maintaining tuition waivers and stipends for residents Look for outstanding students worldwide
How often conducted	Many faculty review applications in careful detail each year as part of the process to select a new class
Date to be conducted/ finished by	Yearly
Results expected	Excellent assessments by faculty of interviewees on Interview Sheet Recommendations of UIC Orthodontic Program by faculty of other schools Train the future leaders of the orthodontic profession
Results achieved	Most of our top choices match with the UIC Orthodontic Program
Assessment of results	Performance of residents in our program is uniformly high Residents finish requirements and graduate on time
Program improvement as a result of data analysis	Improvements in website Improved interview format
Date of next assessment	Yearly

Appendix B

UIC College of Dentistry

Department of Orthodontics

Mission, Program Goals, and Objectives

The mission of the Department of Orthodontics is to provide education in the field of orthodontics, and to be a leading educational, research, and patient care center.

Goals

- < provide tools for critical thinking
- < develop mature and caring professionals
- < provide patients with high-quality treatment
- < provide a friendly, caring, clean professional environment
- < foster an environment of mutual respect among patients, residents, and staff
- < have an excellent faculty
- < attract excellent students

Objectives

- < train competent practitioners
- < prepare residents for American Board of Orthodontics diplomate status
- < provide consultation and education to the community
- < contribute new knowledge through research
- < produce excellent documentation of cases
- < achieve financial success
- < assure patient satisfaction

Outcome measures

- < examinations and informal assessments
- < clinic and research evaluations
- < record reviews
- < outside examiners
- < alumni, faculty, and patient surveys
- < annual resident interviews
- < job placement
- < admissions statistics

Actions

- < course revision
- < schedule modification
- < faculty recruitment

Adopted by the Department of Orthodontics in 2000

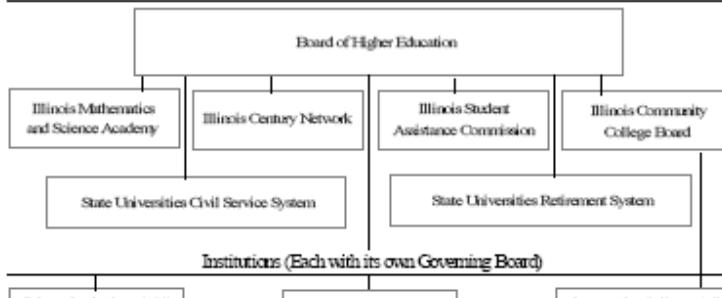
Appendix B

ORGANIZATION OF HIGHER EDUCATION

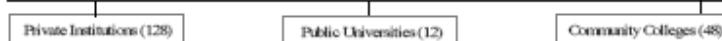
Executive and Legislative Branches



Statewide Boards and Commissions



Institutions (Each with its own Governing Board)

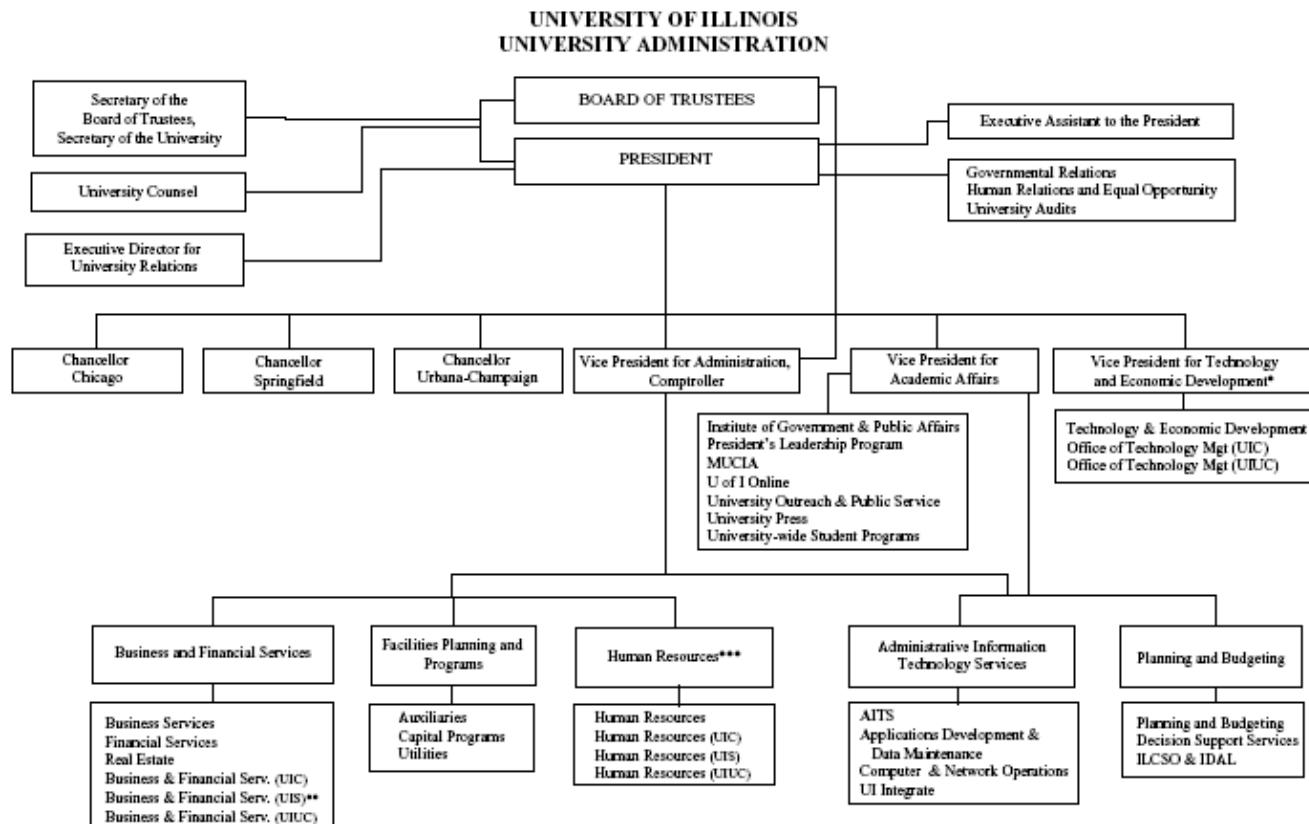


Advisory Committees to the Board of Higher Education
 Faculty Advisory Council
 Student Advisory Committee
 Independent, Not-for-Profit College and University Advisory Council
 Independent, For-Profit Schools Advisory Committee

Other State Supported Educational Entities
 East St. Louis College Center
 University Center of Lake County
 Illinois Virtual Campus
 Quad Cities Graduate Studies Center

STANDARD I – INSTITUTIONAL COMMITMENT/PROGRAM EFFECTIVENESS/AFFILIATIONS

Appendix C

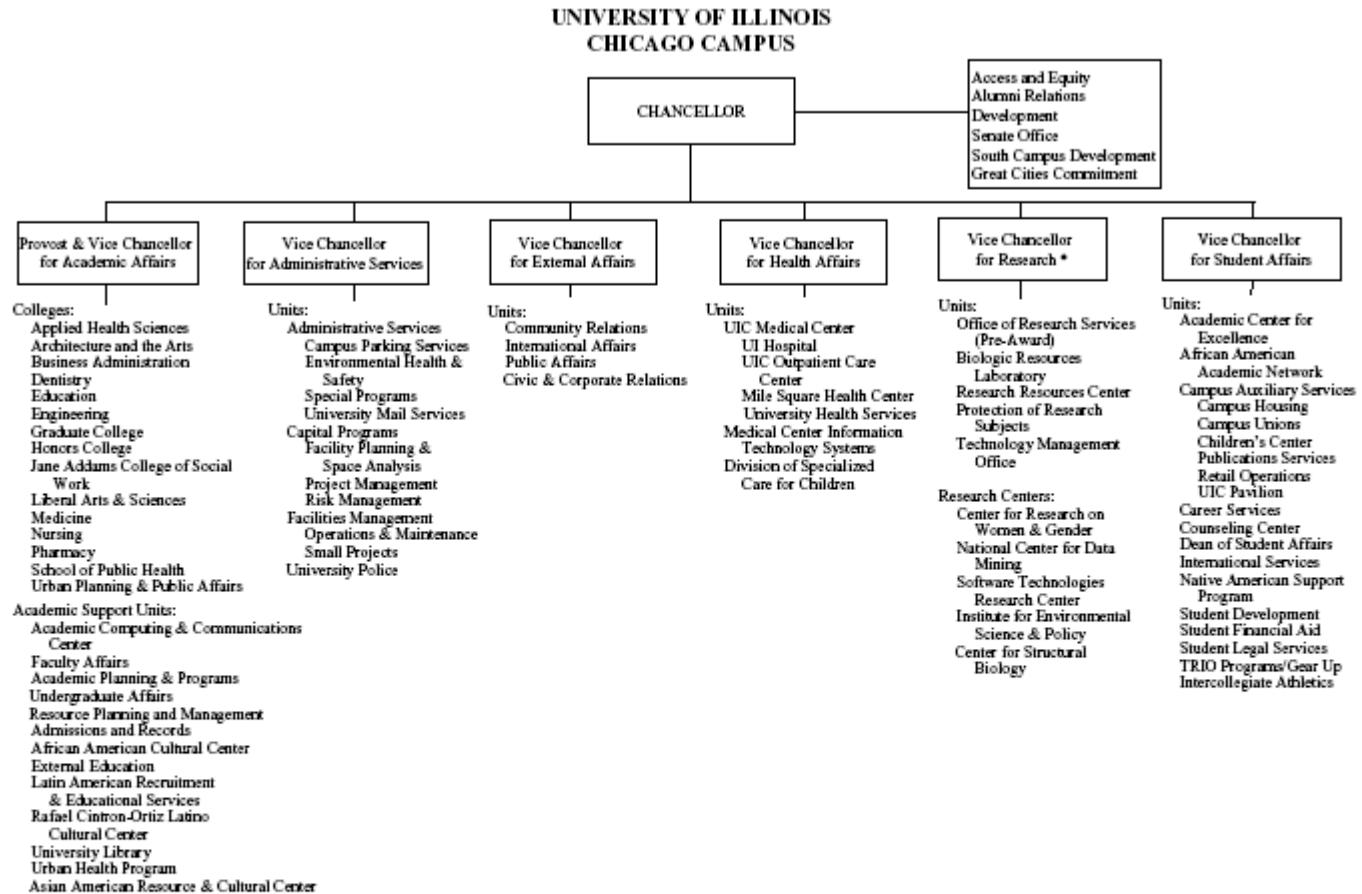


*Responsible for the University's technology commercialization/economic development complex on all campuses including tech transfer, research parks, incubators and Illinois VENTURES, LLC. Both Illinois VENTURES, LLC and the research parks report to separate Boards of Directors.

** Also reports to the Chancellor of the Springfield campus as Vice Chancellor for Administrative Affairs.

***Also reports to the UIC Vice Chancellor for Health Affairs as Associate Vice Chancellor for Health Affairs.

Note: Organizational Chart updated as of November 2004.



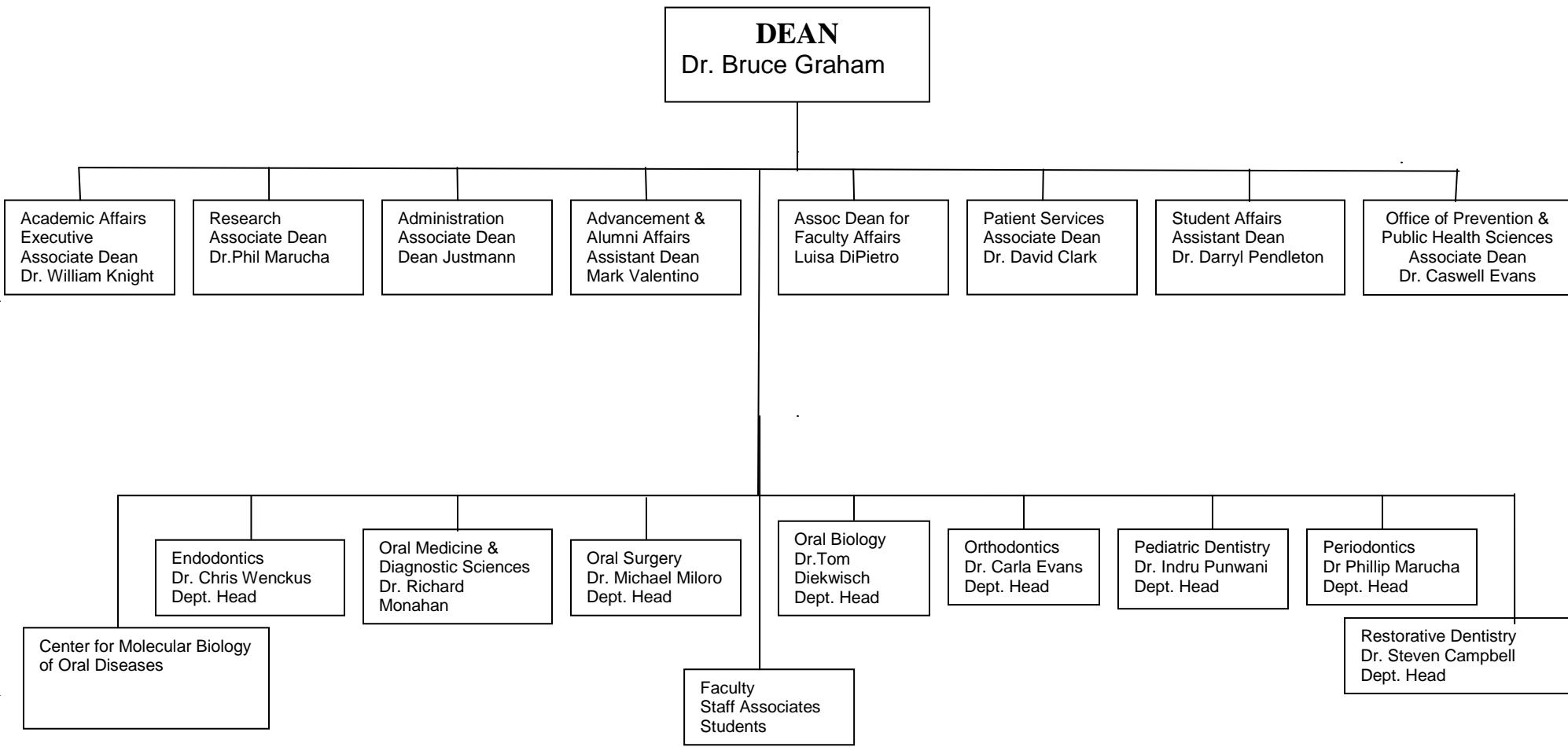
*This position reports to the Vice President for Economic Development and Corporate Relations on activities related to technology commercialization and associated economic development.

Note: Organizational Chart updated as of November 2004.

Appendix C

UIC College of Dentistry Organization Chart

Last updated 4/12/2013



APPENDIX D

Name	Class Year	ABO Status	AAO Member	Location in May, 2013
Abualnja, Osama	2007		No	Jeddah, Saudi Arabia
Al-Sanea, Rasha	2007	Diplomate	No	Riyadh, Saudi Arabia
Bock, Derek	2007	2007-2012	Yes	Lake Forest, IL
Choi, Howard	2007	2007-2012	Yes	Fountain Hills, AZ
Chow, Clara Ka Waichow	2007	Diplomate	Yes	Markham, Ontario, Canada
Galang, Maria Therese	2007	Diplomate	Yes	Chicago, IL
Hedin-Thangamani, Carrie	2007	2007-2012	No	Chicago, IL
Gonzalez, Silvana-Manzur	2007	Diplomate	Yes	Austin, Texas
Israel, Matt	2007	2007-2012	Yes	Glenview, IL
Kravitz, Neal	2007	Diplomate	Yes	Chantilly, VA
Mansour, Ameerah	2007	Diplomate	Yes	Jeddah, Saudi Arabia
Albazazz, Michael	2008		No	DesPlaines, IL
Al-Sanea, Jamal	2008	Diplomate	Yes	Riyadh, Saudi Arabia
Lin, Lihong	2008		Yes	Chicago, IL
Lippincott, John	2008		Yes	Aurora, IL
Novick, Darshana	2008		Yes	River Forest, IL
Pakrivan, Darren	2008		No	Chicago, IL
Sheshter, Abdullatif	2008		No	Kuwait City, Kuwait
Volk, Tonya	2008	Diplomate	Yes	S Elgin, IL
Whitesman, Louis	2008		Yes	Chicago, IL
Al-Ammar, Aiman	2009		No	Kuwait City, Kuwait
Al-Twaijri, Sarah	2009	Diplomate	No	Chicago, IL
Doshi, Siddi	2009		No	Middleton, WI
Hurley, Ryan	2009	Diplomate	Yes	Schaumburg, IL
Ligas, Bozena	2009		Yes	Oak Lawn, IL
Morgan, Marcela	2009	Diplomate	No	Chicago, IL
Stansbury, Chris	2009	Diplomate	Yes	Austin, TX
Taha, Hala	2009	Diplomate	Yes	Carol Stream, IL

APPENDIX D

Al-Hinai, Muntasar	2010	Diplomate	No	Oman
Chiang, Jonathan	2010	Diplomate	Yes	Albuquerque, NM
Couser, Gary	2010		No	Gilbert, AZ
Dada, Doa	2010	Diplomate	Yes	Chicago, IL
Duaibis, Ramzi	2010	Diplomate	Yes	Elgin, IL
Iaculli, John	2010		Yes	Atlanta, GA
Bauer, Danielle	2010		Yes	Schaumburg, IL
Smith, Clark	2010		Yes	Burlington, MA
Vajaria, Rohini	2010		No	New York, NY
Atsawasuan, Phimon	2011	Diplomate	Yes	Chicago, IL
Bakhsh, Heba	2011	Diplomate	No	Chicago, IL
Bhat, Daya	2011	Diplomate	Yes	Seattle, WA
Edgcomb, Kathryn	2011		Yes	Morton Grove, IL
Hao, Jianjun	2011	Diplomate	Yes	Farmington, CT
Kwong, Thomas	2011		Yes	Portage, MI
Li, Haitao	2011	Diplomate	Yes	Davie, FL
Verbic, Russell	2011		Yes	DeKalb, IL
Williams, Emily	2011	Diplomate	Yes	Evanston, IL
Benjamin, Dale	2012	Diplomate	Yes	Chicago, IL
Hylan-Cohen, Jessica	2012	Diplomate	Yes	Chicago, IL
Dobbs, Mary Ellen	2012	Diplomate	Yes	Knoxville, TN
Everson, Michael	2012		No	Atlanta, Georgia
Mahdavie, Niloufar	2012	Diplomate	No	Los Angeles, CA
Moore, Kristin	2012	Diplomate	No	Schaumburg, IL
Ortiz-Giuliani, Brunilde	2012	Diplomate	No	Puerto Rico
Oweis, Tamara	2012	Diplomate	No	Chicago, IL
Sagun, Matthew	2012		Yes	Chicago, IL
Ahrens, Matthew	2013		No	Clearwater, Florida
Alamir, George	2013		No	Chicago, IL
D'Agostini-LaPoulas, Justina	2013	Diplomate	No	Bloomfield Hills, MI

APPENDIX D

Li, Michael	2013		No	Austin, Texas
Masoud, Ahmed	2013		No	Chicago, IL
Obaisi, Noor	2013		No	Chicago, IL
Smith, Tharon	2013		No	Arizona
Washington, Bradford	2013		No	Brooklyn, NY

UNIVERSITY OF ILLINOIS AT CHICAGO
DEPARTMENT OF ORTHODONTICS
Fall 2013

Faculty List:

Evans, Carla A., Department Head
Galang, Therese Maria, Director, Predoctoral Orthodontics
Kusnoto, Budi, Clinic Director
Diekwiisch, Thomas, Director, Brodie Laboratory

Atsawasuan, Phimon
Bakhsh, Heba
Chwa, Kyint
Dada, Doa
Eltink, Anthony
Golden, Laurence
Greene, Charles
Haas, Andrew
Handelman, Chester
Hartsfield, James
Hohlt, William
Jackson, Gregory
Jo, Heekyoung
John, Edward
Kelsey, John
Li, Haitao
Lippincott, Gary
Luan, Xianghong
Manasse, Robert
Masoud, Ahmed
Muhl, Zane
Nedvetsky, Yana
Pakravan, Darren
Robbins, Ralph
Silberstein, Robyn
Tsay, Peter
VanderWaal, Bill
Voss, Lawrence
Williams, Emily
Yue, Isaac
BeGole, Ellen, Biostatistician
Viana, Grace, Biostatistician

Lecturers/Other:

Berkowitz, Samuel (Orthodontics)
Giddon, Donald (Psychology)
Kim, Myungrip (Orthodontics)
Laub, Leon (Materials)
Megremis, Spiro (Materials)
Stone, Michael (Psychology)
Musich, David (Orthodontics)
Sanchez, Flavio (Orthodontics)
Oppermann, Nelson (Orthodontics)

Orthodontic Postgrads:

Third Year:
Arboleda-Lopez, Cleidy
Dragstrem, Kristina
Drozda, Agata
Haimof, Ryan
Hodge, Natalia
Kaur, Pardeep
Taneva, Emiliya
Stroud, Kathryn
Salem, Arbeldrahman

Second Year:

Al-Hasawi, Saud
Barysenka, Piotr
Caplin, Jennifer
Conroy, Cara
Dobbins, Erin
Ghoneim, Salma
Mostafiz, Whitney
Schwartz, Robert
Stevens, Katherine

First Year:

Al-Kharsa, Saleh
Alwadei, Abdurahmani
Belavsky, Benjamin
Dahiya, Ginu
Goldberg, David
Lazari, Paul
Mehta, Amitoj
Nation, Lora
Polivka, John

M.S. /PhD. Only Students:

Bakhsh, Heba
Dada, Doa
Masoud, Ahmed

Staff:

Srebro, David, Assistant to the Head
Liu, Huibi
Chen, Yinghua, PhD

Dental Assistants:

Abood, Ayas
Garnica, Maria
Pettis, Chiquita
Davila, Stephanie

Business Office Staff

Gonzalez, Denise

Visiting Scholars:

Xiulin Yan

Commission on Dental Accreditation
BioSketch
Do not attach Curriculum Vitae.
Print or Type Only

Name:	Carlotta Ann Koziol Evans	Preferred Name:	Carla A. Evans
Current Institution:	University of Illinois at Chicago		

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Yr of Grad.	Certificate or Degree	Area of Study
University of Michigan	1969	D.D.S.	Dentistry
Forsyth Dental Center/ Harvard School of Dental Medicine	1975	Certificate	Orthodontics
Harvard University	1975	D.M.Sc.	Oral Biology

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Michigan Dental License	1969	1970
Massachusetts Dental License	1970	1994
Illinois Dental License; Illinois Specialty License (Orthodontics)	1994	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics	Orthodontics	1996

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago	Professor	Orthodontics/Program Director and Department Head	1994	Present
University of Illinois at Chicago	Professor	Bioengineering/Research	1998	Present
Harvard School of Dental Medicine	Instructor-Associate Professor	Orthodontics/ Acting Head (1989-1993)	1975	1993

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago		Orthodontic Postgrads (first, second and third)		

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
University of Illinois at Chicago	Chicago	IL	1999	Present
Massachusetts General Hospital	Boston	MA	1977	1993
Children's Hospital	Boston	MA	1977	1993
Franciscan Children's Hospital	Brighton	MA	1985	1993

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
IADR/AADR	President, Craniofacial Biology Group; Member-at-Large AADR Board; Councilor, Chicago Section AADR, 1997-present	1970	Present
ADEA	Member/Delegate; Council on Hospitals and Advanced Education Programs	1976	Present
American Association of Orthodontists	Chair, Council on Orthodontic Education; Various Task Forces and Committees	1988	Present
American Dental Association	Consultant to Commission on Dental Accreditation; Chair of Working Groups, Standards Committee on Dental Informatics; Consultant, Council on Dental Benefits Programs	1989	Present
E.H. Angle Society, Eastern Component	Committee Chair, Editor	1996	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Okunami TR, Kusnoto B, BeGole E, Evans CA, Sadowsky C, Fadavi S.	Assessing the American Board of Orthodontics objective grading system: digital vs. plaster dental casts.	Am J Orthod Dentofac Orthop 131:51-6	2007
Balducci L, Ramachandran A, Hao J, Narayanan K, Evans C, George A.	Biological markers for root resorption.	Arch Oral Biol 52:203-8	2007
Luan X, Ito Y, Holliday S, Walker C, Daniel J, Galang TM, Fukui T, Yamane A, BeGole E, Evans C, Diekwisch TG.	Extracellular matrix-mediated tissue remodeling following axial movement of teeth.	J Histochem Cytochem 55:127-140	2007
Evans CA.	How did orthodontics become a recognized specialty in Belgium?	World J Orthod 8:80	2007
Yeh C-L, Kusnoto B, Viana G, Evans CA, Drummond JL.	In vitro evaluation of frictional resistance between brackets with passive-ligation designs.	Am J Orthod Dentofac Orthop 131:704.e11-22.	2007
Hong L, Colpan A, Peptan IA, Daw J, George A, Evans CA.	17-β estradiol enhances osteogenic and adipogenic differentiations of human adipose-derived stromal cells.	Tissue Eng 13:1197-203	2007
Peptan IA, Hong L, Evans CA.	Multiple differentiation potentials of neonatal dura mater-derived cells.	Neurosurgery 60(2):346-52; discussion 352	2007

Lin JCY, Liou EJW, Yeh C-L, Evans CA.	A comparative evaluation of current orthodontic miniscrew systems.	World J Orthod 8:136-144	2007
Evans CA.	Orthodontic education in Lebanon.	World J Orthod 8:200-201	2007
Evans CA.	Motivating Europeans toward board certification.	World J Orthod 8:206	2007
Miner RM, Anderson NK, Evans CA, Giddon DB.	The perception of children's computer-imaged facial profiles by patients, mothers, and clinicians.	Angle Orthod 77:1034-1039	2007
Grubb J, Evans C.	Orthodontic management of dentofacial skeletal deformities.	Clin Plast Surg 34:403-415	2007
Montasser MA, Drummond JL, Evans CA.	Rebonding of orthodontic brackets. Part I, A laboratory and clinical study.	Angle Orthod 78:531-536	2008
Montasser MA, Drummond JL, Roth JR, Al-Turki, Evans CA.	Rebonding of orthodontic brackets. Part II, an XPS and SEM study.	Angle Orthod 78:537-544	2008
King KL, Evans CA, Obrez A, Viana G.	Preferences for vertical position of the maxillary lateral incisors.	World J Orthod 9:147-54	2008
Oliveira De Felippe NL, Da Silveira AC, Viana G, Kusnoto B, Smith B, Evans CA.	Relationship between rapid maxillary expansion and nasal cavity size and airway resistance: short- and long-term effects.	Am J Orthod Dentofacial Orthop 134:370-82	2008
Utreja A, Evans CA.	Marfan syndrome - an orthodontic perspective.	Angle Orthod 79:394-400	2009
George A, Evans CA.	Detection of root resorption using dentin and bone markers.	Orthod Craniofac Res 12:229-235	2009
Stansbury CD, Evans CA, Miloro M, BeGole EA, Morris DE.	Stability of open bite correction with sagittal split osteotomy and closing rotation of the mandible.	J Oral Maxillofac Surg 68:149-159	2010
Working Group Co-Chair	Guidelines for the Application of the DICOM Standard to Radiographic Cephalometric Data	ADA SCDI Technical Report No. 1059	2010
Lim H-J, Choi Y-J, Evans CA, Hwang H-S.	Predictors of initial stability for orthodontic miniscrew implants.	Eur J Orthod 33:528-32	2011
Ligas BB, Galang MTS, BeGole E, Evans CA, Klasser G, Greene C.	Phantom bite: a survey of U.S. orthodontists.	Orthodontics (Chic.) 12:38-47	2011
Israel M, Kusnoto B, Evans C, BeGole E.	A comparison of traditional and computer-aided bracket placement methods.	Angle Orthod 81:828-35	2011
Kwong TS, Kusnoto B, Viana G, Evans CA, Watanabe K.	The effectiveness of Oraqix® versus TAC _(a) for placement of orthodontic temporary anchorage devices.	Angle Orthod 81:754-9	2011
Mansour AY, Drummond JL, Evans CA, Bakhsh Z.	In-vitro evaluation of self-etch bonding in orthodontics using cyclic fatigue, Part I, Shear testing methods	Angle Orthod 81:828-35	2011
Chow CKW, Wu C, Evans CA.	<i>In vitro</i> properties of orthodontic adhesives with fluoride or amorphous calcium phosphate. Special issue "New Directions in Cariology Research 2011"	Int J Dent, Article ID 583521, 8 pages, doi:10.1155/2011/583521	2011
Edgcomb K, BeGole E, Johnson B, Luan X, Evans C.	Prevalence of short dental roots in four ethnic groups in an orthodontic population.	Dental Anthropology, 24:11-15	2011
Contributing Author	Attachment of DICOM Datasets Using	ADA SCDI Technical Report No.	2011

	E-mail in Dentistry	1048	
Contributing Author	The Secure Exchange and Utilization of Digital Images in Dentistry	ADA SCDI Technical Report No. 1060	2011
Al-Sanea RA, Kusnoto B, Evans CA.	3D facial soft tissue changes due to orthodontic tooth movement.	Orthodontic Treatment (ISBN 978-953-307-806-9), Intech (www.intechopen.com), F. Bourzgui, ed.	2012
Kim JH, Mahdavie NN, Evans CA.	Orthodontic guidelines for “Surgery First” treatment of severe malocclusions	In: Orthodontic Treatment (ISBN 978-953-307-806-9), Intech (www.intechopen.com), F. Bourzgui, ed.	2012
Duaibis R, Kusnoto B, Natarajan R, Zhao L, Evans C.	Factors affecting stresses in cortical bone around miniscrew implants	Angle Orthod 82:875-880	2012
Evans C.	Vignette: The Route from Detroit	Orthodontics (Chic.), 13:238	2012
Williams EM, Evans CA, Reisberg DJ, BeGole EA.	Nasal outcomes of presurgical nasal molding in complete unilateral cleft lip and palate.	Int J Dent. Vol. 2012, Article ID 643896, 5 pages	2012
Bauer D, Evans CA, BeGole EA, Salzmann L.	Severity of occlusal disharmonies in Down Syndrome	Int J Dentistry, vol. 2012, Article ID 872367, 6 pages	2012
Scarf WC, Simmons KE, Evans CA.	Development of evidence-based selection criteria for cone-beam computer tomography in orthodontics	In “Cone Beam Tomography in Orthodontics,” Craniofacial Growth Series Vol. 50, Ed. SD Kapila, University of Michigan	2013
Lu X, Ito Y, Atsawasuwan P, Dangaria S, Yan X, Wu T, Evans CA, Luan X	Ameloblastin modulates osteoclastogenesis through the integrin/ERK pathway	Bone 54:157-168	2013
Working Group Co-Chair	Use Cases of the Orthodontic Health Record	ADA SCDI Technical Report No. 1065	2013
Atsawasuwan P, Lu X, Ito Y, Evans CA, Luan X	Ameloblastin inhibits cranial suture closure by modulating MSX2 expression and proliferation	PLoS One, Apr 4;8(4):e52800	2013
Atsawasuwan P., Lu X, Ito Y., Chen Y., Evans C.A., Kulkarni A.B., Gibson C.W., Luan X., Diekwiisch T.G.H.	Enamel-related gene products in calvarial development.	J Dent Res 92:62208, 2013	2013
Li H, Ramachandran A, Gao Q, Ravindran S, Song Y, Evans C, George A.	Expression and function of NUMB in odontogenesis. Special Issue: “Development, Disease, and Regeneration of Tissues in the Dental-Craniofacial Complex”	BioMed Res Intl 2013;2013:182965. doi: 10.1155/2013/182965	2013
American Academy of Oral and Maxillofacial Radiology – Panel, Co-chair.	Clinical Recommendations Regarding Use of Cone Beam Computed Tomography (CBCT) in Orthodontics. Position Statement by the American Academy of Oral and Maxillofacial Radiology	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 116:238-257, 2013	2013

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Phimon Atsawasawan

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Mahidol University, Bangkok, Thailand	1993	D.D.S (First Rank)	Dentistry
Mahidol University, Bangkok, Thailand	1995	Certificate Science	Periodontology
Mahidol University, Bangkok, Thailand	1996	M.Sc.	Periodontology
Eastman Dental Institute, London, UK	1997	M.Sc.	Periodontology
University of North Carolina at Chapel Hill, Chapel Hill, NC	2003	Postdoctoral	Biochemistry
University of North Carolina at Chapel Hill, Chapel Hill, NC	2008	Ph.D.	Oral Biology
University of Illinois at Chicago, Chicago, Illinois,	2011	Certificate	Orthodontics
University of Illinois at Chicago, Chicago, Illinois,	2011	M.S.	Oral Sciences

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Dental license, Thailand	1993	Present
Temporary dental training license-Illinois	2008	2011
Restricted faculty dental license	2011	Present
Dental license	2011	Present
Dental specialty license	2011	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
Incognito (I-braces) certification		2008
Invisalign certification		2009

Accelerated Osteogenic orthodontics certification		2009
American Board of Orthodontics		2011

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Assistant Professor	Department of Orthodontics	2011	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Dental Association of Thailand	Member	1993	Present
General Dentistry Society of Thailand	Member	1994	Present
Periodontology Society of Thailand	Member	1994	Present
International Academy of Periodontology	Member	1998	2000
American / International Association of Dental Research	Member	2003	Present
American Dental Association	Member	2008	Present
American Association of Orthodontists	Member	2008	Present
Chicago Dental Society	Member	2011	Present
Midwest Society of Orthodontists	Member	2011	Present
Illinois Society of Orthodontists	Member	2011	Present
American Dental Education Association	Member	2013	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Katafuchi M, Matsuura T, Atsawasawan P, Sato H, Yamauchi M.	Biochemical Characterization of Collagen in Alveolar Mucosa and Attached Gingival of Pig.	Connect Tiss Res 48: 85-92.	March 2007
Kaku M, Mochida Y, Atsawasawan P, Parisuthiman D, Yamauchi M.	Post-translational Modifications of Collagen upon BMP Induced Osteoblast Differentiation.	Biochem Biophys Res Commun 359: 463-8	August 2007
Verdelis K, Lukashova L, Yamauchi M, Atsawasawan P, Wright JT, Peterson MG, Jha D, Boskey AL.	Change in Matrix Phosphorylation During Bovine Dentine Development.	Eur J Oral Sci 115:296-302	August 2007
Nagaoka H, Mochida Y, Atsawasawan P, Kaku M, Kondoh T, Yamauchi M	1,25(OH)2D3 Regulates Collagen Quality in an Osteoblastic Cell Culture System	BioChem Biophys Res Commun 377: 674-8	Dec 12, 2008
Tokutomi K, Matsuura T, Atsawasawan P, Sato H, Yamauchi M.	Characterization of Mandibular Bones in Senile Osteoporotic Mice.	Connect Tiss Res 49: 361-6	2008
Atsawasawan P, Mochida Y, Katafuchi M, Fong SK, Csiszar K, Kaku M, Yamauchi M.	Lysyl Oxidase Binds Transforming Growth Factor- β and Regulates Its Signaling via Amine Oxidase Activity.	J Biol Chem 283:34229-34240	2008

Mochida Y, Parisuthiman D, Pornprasertsuk-Damrongsri S, Atsawasawan P, Sricholpech M, Boskey AL, Yamauchi M.	Decorin Modulates Collagen Matrix Assembly and Mineralization	Matrix Biol 28: 44-52	2009
Promklay A, Fuangtharnthip P, Surarit R, Atsawasawan P.	Response of Dental Pulp Cells to Er:YAG Irradiation.	Photomed Laser Surg 28: 793-9	2010
Atsawasawan P, Yoshiyuki M, Katafuchi M, Tokutomi K, Mocanu V, Parker CE, Yamauchi M	A Novel Proteolytic Processing of Prolysyl Oxidase.	Connect Tiss Res 52: 479-86	2011
Mochida Y, Kaku M, Yoshida K, Katafuchi M, Atsawasawan P, Yamauchi M.	Podocan-like Protein: A Novel Small Leucine-rich Repeat Matrix Protein in Bone.	Biochem Biophys Res Commun 410: 333-8	2011
Zhang Y, Zhang X, Lu X, Atsawasawan P, Luan X.	Ameloblastin Regulates Cell Attachment and Proliferation through Rho A and p27.	Eur J Oral Sci 119:280-5	2011
Lu X, Ito Y, Atsawasawan P, Dangaria S, Yan X, Wu T, Evans CA, Luan X.	Ameloblastin Modulates Osteoclastogenesis through the Integrin/ERK Pathway.	Bone (E-Pub)	2013
Atsawasawan P, Lu X, Ito Y, Evans CA, Luan X.	Ameloblastin Inhibits Cranial Suture Closure by Modulating MSX2 Expression and Proliferation.	PLoS ONE	2013
Atsawasawan P, Lu X, Ito Y, Chen Y, Evans CA, Kulkarni AB, Gibson CW, Luan X, Diekwiisch TGH.	Enamel-related Gene Products in Calvarial Development.	J Dent Res	Revision

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Ellen Ann BeGole

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Michigan, Ann Arbor, MI	1995	B.S	
Columbia University, New York, NY	1969	M.S	
University of Pittsburgh, Pittsburgh, PA	1974	Ph.D	

LICENSURE

License (Do not include license number)	From (Year)	To (Year)

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago,	Instructor	OSCI 594, Topics in	2009	Present

College of Dentistry, Chicago, IL		Biostatistics		

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, College of Dentistry, Chicago, IL	OSCI 594, Topics in Biostatistics	1	Online	

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Luan X, Ito Y, Holliday S, Walker C, Daniel J, Galang TM, Fukui T, Yamane A, BeGole E, Evans C, Diekwiisch TGH.	“Extracellular matrix-mediated tissue remodeling following axial movement of teeth.”	J Histochem Cytochem 55:127-140	2007
Onyeaso C, BeGole E.	“Relationship between index of complexity, outcome and need, dental aesthetic index, peer assessment rating index, and American Board of Orthodontics objective grading system.”	Am J Orthod Dentofac Orthop 131:248-252	2007
Shelley PQ, Johnson BR, BeGole EA.	“Use of an electronic patient record system to evaluate restorative treatment following root canal therapy.”	J Dent Educ 71:1333-1339	2007
Nudera WJ, Fayad MI, Johnson BR, Zhu M, Wenckus CS, BeGole EA, Wu C.	“The antimicrobial effect of Triclosan and Triclosan with gantrez on five common endodontic pathogens.”	J Endod 33:1239-1242	2007
Thompson MA, Drummond JL, BeGole EA.	“Bond strength analysis of custom base variables in indirect bonding techniques.”	Am J Orthod Dentofacial Orthop 133:9.e15-9.e20	2008
Penesis VA, Fitzgerald PI, Fayad MI, Wenckus CS, BeGole EA, Johnson BR.	“Outcome of one-visit and two-visit endodontic treatment of necrotic teeth with apical periodontitis: A randomized controlled trial with one-year evaluation”	J Endod 34:251-257	2008
Onyeaso CO, BeGole EA.	“Associations between pretreatment age and treatment time with orthodontic treatment outcome: A comparison by means of two orthodontic indices.”	Hellenic Orthod Rev 11:9-20	2008
Bigras BR, Johnson BR, BeGole EA, Wenckus CS.	“Differences in clinical decision making: A comparison between specialists and general dentists.”	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 106:963-968	2008
Kravitz ND, Kusnoto B, BeGole E, Obrez A, Agran B.	“How well does Invisalign work? A prospective clinical study evaluating the efficacy of tooth movement with Invisalign.”	Am J Orthod Dentofacial Orthop 135:27-35	2009
Stansbury CD, Evans CA, Miloro M, BeGole EA, Morris DE.	“Stability of open bite correction with sagittal split osteotomy and closing rotation of the mandible.”	J Oral Maxillofac Surg 68:149-151	2010

Volk T, Sadowsky C, BeGole EA, Boice P.	“Rapid palatal expansion for spontaneous Class II correction.”	Am J Orthod Dentofacial Orthop 137:310-315	2010
Burgener B, Sitti H, Fayad M, Hao J, Wenckus C, BeGole E, George A.	“Biological markers for odontogenic periradicular periodontitis.”	J Endod 36:1307-1310	2010
Ligas B, Galang T, BeGole E, Evans C, Klasser G, Greene C.	Phantom bite: A survey of US orthodontists. Orthodontists: The Art and Practice of Dentofacial Enhancement.	12:38-47	2011
Edgcomb K, BeGole EA, Evans CA, Johnson B, Luan X.	“Prevalence of short dental roots in four ethnic groups in an orthodontic population”	J Dent Anthrop 24:11-15	2011
Israel M, Kusnoto B, Evans CA, BeGole E.	“A comparison of traditional and computer-aided bracket placement methods.”	Angle Orthod (E-pub ahead of print)	April 28, 2011
Vajaria R, BeGole E, Kusnoto B, Galang MT, Obrez A.	“Evaluation of incisor position and dental transverse dimensional changes using the Damon system.”	Angle Orthod 81:647-652	2011
Israel M, Kusnoto B, Evans CA, BeGole E.	“A comparison of traditional and computer-aided bracket placement methods.”	Angle Orthod 81:828-835	2011
Sheshter AH, BeGole EA, Koerber A, Muhl ZF.	“Assessment of the orthodontic referral by undergraduate dental students.”	Smile Dent J 6:42-45	2011
Williams E, Evans C, Reisberg DJ, BeGole EA	“Nasal outcomes of presurgical nasal molding in complete unilateral cleft lip and palate.”	Int J Dent, Vol. 2012 5 Pages	2012
Bauer D, Evans CA, BeGole EA, Salzmann L.	“Severity of occlusal disharmonies in Down Syndrome.”	Int J Dent Vol. 2012 5 Pages	2012

June 2013

CURRICULUM VITAE

Name: Kyint Chwa
Address: Department of Orthodontics
College of Dentistry
University of Illinois at Chicago
801 S. Paulina St., M/C 841
Chicago, IL 60612-7211
Telephone: 847-663-8889
Fax:
E-mail: kyintchwa@ameritech.net

Place of Birth:

Education:
1984 B.D.S., Institute of Dental Medicine, Rangoon, Burma(Myanmar)
1992 D.D.S., Northwestern University Dental School, Chicago, IL
1994 M.S. in Orthodontics; Certificate in Orthodontics, Northwestern University Dental School, Chicago, IL

Licensure and Certification:

1992 Northeast Regional Boards
1992-present Illinois State Dental License
1994-present Illinois State Specialty License in Orthodontics

ABO Board:

1994 ABO Eligible
2007-present Diplomate, American Board of Orthodontics

Academic Appointments:

1999 Clinical Assistant Professor, Orthodontic Division, Northwestern University Dental School, Chicago, IL

Professional Appointments:

1994-2003 Associate Orthodontist, Ernst K. Jansen, D.D.S., M.S., & Associates Orthodontics, Ltd.
Northbrook, IL
2004-present Orthodontist, Janzen, Janzen & Chwa, Orthodontics, Ltd. Northbrook, IL

Work Experience:

1984-1985 Resident House Surgeon, Internship, Institute of Dental Medicine and Departments of Plastic, Maxillofacial and Oral Surgery and Dental Out-patient Department at Rangoon General Hospital, Rangoon, Burma.
1985-1988 General Dentist, Private Practice, Rangoon, Burma

Awards and Honors:

1989-1992 Dean's Commendations, Northwestern University Dental School

1992	Achievement Award of the American Academy of Gold Foil Operators
1992	Outstanding Student Award of the American Association of Orthodontists

Memberships:

Present	College of Diplomates of the American Board of Orthodontics
Present	The American Board of Orthodontics
Present	World Federation of Orthodontics
Present	American Association of Orthodontists
Present	Midwestern Society of Orthodontists
Present	Illinois Society of Orthodontists
Present	American Dental Association
Present	Illinois State Dental Society
Present	Chicago Dental Society
Present	Burma Dental Association

Journal and Society Committee Assignments:

Research Grants:

Publications:

1. Chwa KH, Marshall SD, Jacobson RS, Kallal RH, Forbes DP. Direction and magnitude of postsurgical changes following mandibular advancement with rigid fixation, M.S Thesis. Northwest Dent Res. 5:8-12, 1994.
2. Kristofor C, Sharin D, Forbes D, Chwa K. The effect of mandibular rotation on molar position, Northwest Dent Res. 5:8-12, 1997.
3. Lee-Chan S, Jacobson BN, Chwa KH, Jacobson RS. Am J Orthod Dentofacial Orthop. 113:293-9, 1998.

Published Abstracts:

Abstracts and Presentations at Scientific Meetings:

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Anthony P. Eltink

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Notre Dame, South Bend, IN	1998	B.A	
University of Illinois at Chicago College of Dentistry, Chicago, IL	2005	Specialty Certificate in Orthodontics	Orthodontics
University of Illinois at Chicago College of Dentistry, Chicago, IL	2005	M.S	Oral Science

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	2003	Present
Illinois Dental Specialty License	2006	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
N/A		

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Illinois Society of Orthodontics	Technology, Orthodontic Treatment	2008-2013
Clear Techniques	Invisalign	2008,2010,2013
American Association of Orthodontists	Orthodontics Diagnosis and Treatment Planning	2011

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Chicago, IL	Clinical Assistant Professor	Clinic Supervision	2005	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
N/A				

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Buffalo Grove, IL	Orthodontics Private Practice	2005	Present
Chicago, IL	Orthodontics Private Practice	2005	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1998	Present
American Association of Orthodontists	Member	2002	Present
Illinois Society of Orthodontists	Member	2002	Present

Chicago Dental Society	Member	2005	Present
American Dental Education Association	Member	2006	Present
Illinois Orthodontic Alumni Association	Board Member	2010	Present
Illinois Association of Orthodontists	Vice President	2012	Present
Society of Orthodontics Educators	Member	2013	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Eltink AP, Handelman CS, BeGole E.	A new measure of gingival recession and the significance of attrition gender and race.	Craniofacial Growth Series 48:353-375.	2011

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Therese Galang-Boquiren

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of the Philippines, Manila	2000	D.M.D	
University of Illinois at Chicago, College of Dentistry, Chicago, IL	2004	M.S	Oral Sciences
University of Illinois at Chicago, College of Dentistry, Chicago, IL	2007	Certificate	Orthodontics
University of Illinois at Chicago, College of Dentistry, Chicago, IL	2009	Advanced Standing D.D.S.	
Clinical Dental Research Summer Institute, University of Washington	2010	Fellow	Postdoctoral Training

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Dental License granted by the Professional Regulation Commission, Philippines	2001	Present
Illinois Dental License Registration	2007	Present
Illinois Dental Specialty License	2007	Present
American Board of Orthodontics, Diplomate	2007	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Graduate College Faculty	Department of Orthodontics	2008	Present
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Assistant Professor	Clinic Supervision Department of Orthodontics	2007	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
University of Illinois at Chicago, Department of Orthodontics, Chicago, IL	Growth and Development		Didactic	Clinic/Laborat ory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
John H. Stroger Jr. Hospital of Cook County, Division of Oral and Maxillofacial Surgery	Chicago	IL	2009	Present

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

**MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL
DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE
BOARDS OF DENTISTRY AND CODA**

Name of Organization	Title	From (Year)	To (Year)
Philippine Dental Association	Member	2001	2004

Sigma Xi Scientific Research Society, University of Illinois at Chicago Chapter	Full Member	2003	2009
International Association for Dental Research/ American Association for Dental Research	Member	2003	Present
American Dental Association	Member	2003	Present
Illinois State Dental Society	Member	2003	Present
Chicago Dental Society	Member	2004	Present
American Cleft Palate-Craniofacial Association	Member	2004	2009
American Association of Orthodontists	Member	2004	Present
College of Diplomates, American Board of Orthodontics	Member	2007	Present
World Federation of Orthodontists	Fellow	2009	Present
American Dental Education Association	Member	2009	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Luan X, Ito Y, Holliday S, Walker C, Daniel J, Galang MT, Fukui T, Yamane A, Begole E, Evans C, Diekwisch TG.	Extracellular Matrix-mediated Tissue Remodeling Following Axial Movement of Teeth.	J Histochem Cytochem. 55:127-140	2007
DeFelippe, N and Galang, MTS	Miniscrew 101	American Association of Women Dentists Journal. Epub	May 2008
Luan X, Dangaria, S, Ito Y, Walker CG, Jin, T, Schmidt, MK, Galang MT, and Druzinsky, R	Neural Crest Lineage Segregation: A Blueprint for Periodontal Regeneration	J Dent Res 88: 781-91	2009
Vajaria R, Begole E, Kusnoto B, Galang MT, Obrez A	Evaluation of incisor position and dental transverse dimensional changes using the Damon system.	Angle Orthod. 2011 Jul;81(4):647-52. Epub	Mar 25 2011
Galang MT, Yuan JC, Lee DJ, Barao VA, Shyamsunder N, Sukotjo C.	Factors influencing publication rates of abstracts presented at the ADEA annual session & exhibition	J Dent Educ. 75(4):549-56	Apr 2011
Ligas BB, Galang, MT, BeGole E, Evans C, Klasser G, Greene C	Phantom bite: a survey of U.S. orthodontists. Orthodontics: The Art and Practice of Dentofacial Enhancement	12: 38-47	2011
Yuan JC, Galang MT, Lee DJ,	Differences between Abstracts and Full-	J Dent Educ.	Nov 2011

Barao VA, Shyamsunder N, Sukotjo C	length Publications from ADEA Annual Meetings	75(11):1476-81	
Galang MT, Yuan JC, Lee DJ, Sukotjo C	Applicant Selection Procedures For U.S. Orthodontic Specialty Programs: A Survey Of Program Directors	Am J Orthod Dentofacial Orthop 140(6):822-827.e4	Dec 2011
Dragstrem K, Yuan JC, Sukotjo C, Lee DJ, and Galang MT	Gender Equality in Orthodontic Literature and Leadership. Orthodontics (Chic.)	13(1):176-183	2012
Hurley RK, Drummond JL, Viana GC, Galang MT	The effects of environment and cyclic fatigue on the mechanical properties of an indirect composite.	J Dent. 40(10):787-92. Epub	Jun 18 2012
Yuan, JC, Lee DJ, Afshari F, Galang MT, Sukotjo C	Dentistry and Obesity: a Review and its Current Status in US Predoctoral Dental Education.	J Dent Educ. 76(9):1129-36	Sep 2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Laurence A. Golden

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Marquette University, Milwaukee, WI	1994	B.S	
Northwestern University Dental School, Chicago, IL	1998	D.D.S.	
University of Illinois at Chicago, University of Illinois at Chicago Hospital, Chicago, IL	1999	General Practice Residency	
Case Western Reserve University, Cleveland, OH	2002	M.S.	Dentistry
Case Western Reserve University, Cleveland, OH	2002	Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois General Dental License	1998	Present
Illinois Dental Orthodontic Specialty License	1998	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
National Dental Board Certification		1998
Northeast Regional Board Certification		1998
American Board of Orthodontics	Diplomate	2006

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Part-Time Faculty, Department of Orthodontics	2005	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois, College of Dentistry, Chicago, IL	Faculty member			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Robert G. Brunetti, D.D.S., Chicago, IL	General Dentistry	1999	2000
Central DuPage Orthodontics, Wheaton, IL	Orthodontics and Dentofacial Orthopedics	2003	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1998	Present
Illinois Dental Society	Member	1998	Present
Chicago Dental Society	Member	1998	Present
American Association of Orthodontists	Member	2003	Present

Midwest Society of Orthodontists	Member	2003	Present
Illinois Society of Orthodontists	Member	2003	Present
West Suburban Branch	Member	2004	Present
Wheaton Dental Society	President 2005-2010	2005	present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Charles S. Greene

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Illinois at Chicago, University of Illinois at Chicago Hospital, Chicago, IL	1958	B.S	
University of Illinois at Chicago, University of Illinois at Chicago Hospital, Chicago, IL	1963	D.D.S	

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois General Dental License	1963	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
N/A		

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
N/A		

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and	Rank	Subjects/Content Areas	From	To

State		Taught/ Administrative Responsibilities	(Year)	(Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Professor	Dept. of Orthodontics	2008	Present
University of Illinois at Chicago, College of Dentistry.	Director of Orofacial Pain Studies, Clinical Professor	Department of Oral Medicine and Diagnostic Sciences, and	2001	2008
University of Illinois at Chicago, College of Dentistry.	Temporomandibular Joint and Facial Pain Research Center,	Department of Oral & Maxillofacial Surgery,	1995	2002
University of Illinois at Chicago, College of Dentistry.	Clinical Professor	Department of Oral & Maxillofacial Surgery.	1995	2001
Northwestern U. Dental School, Department of Orthodontics.	Co-Director and Clinical Professor.	TMD Clinic	1986	1995
University of Illinois at Chicago Hospital.	Director	General Practice Residency Program	1978	1986
Program Michael Reese Hospital	Director	Dental Clinic of General Practice Residency	1978	1986
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Research Coordinator & Professor	Temporomandibular Joint and Facial Pain Research Center, Department of Oral & Maxillofacial Surgery	1974	1986
University of Illinois at Chicago, College of Dentistry, Chicago, IL		Temporomandibular Joint and Facial Pain Research Center, Department of Oral & Maxillofacial Surgery	1965	1974

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Professor			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
International Association for Dental Research (IADR)	Member	1981	1983
Neuroscience Group, IADR/ AADR	Secretary	1981	1983
International Association for Dental Research (IADR)	Member	1983	1984
Neuroscience Group, IADR/ AADR	President	1983	1984
American Academy of Orofacial Pain (AAOP)	Member		Present
Association of University Teachers of Orofacial Pain Programs (AUTOPP)	Member		Present
American Academy of Oral Medicine (AAOM)	Member		Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Greene CS, Obrez A.	“Mandibular Repositioning in the Treatment of Temporomandibular Disorder: Critical Analysis.”	The Quintessence (Japan). 26: 171-178	2007
Klasser GD, Greene CS.	Predoctoral Teaching of Temporomandibular Disorders: A Survey of U.S. and Canadian Dental Schools.”	J Am Dent Assoc. 138: 231-237	2007
Klasser GD, Greene CS.	“Role of oral appliances in the management of sleep bruxism and temporomandibular disorders.”	Alpha Omegan. 100: 111-119	2007

Greene CS.	“Orofacial Pain: Past and Future.”	Pain Headache. 15:223-235	2007
Turp JC, Greene CS, Strub JR.	“Dental Occlusion: A Critical Reflection on Past, Present, and Future Concepts.”	J Oral Rehabil 35: 446-453	2008
Gonzalez YM, Greene CS, Mohl ND.	“Technological devices in the diagnosis of temporomandibular disorders.”	Oral Maxillofac Surg Clin North Am. 20: 211-220	2008
Greene CS. Ed. BJ Sessle, GJ Lavigne.	“Science Transfer in Orofacial Pain. Problems and Solutions.”	In Orofacial Pain – From Basic Science to Clinical Management (2nd Ed), Pg. 229-235	2008
Greene CS, Hinderstein B, Konzelman J, Sollecito TP, Clark GT, Greenberg MS.	“Temporomandibular disorders: myogenous and arthrogenous conditions.”	In Chronic Orofacial Pain (2nd Ed), Ed. RS Brown, RN Arm, JB Epstein. pg. 21-37	2008
Klasser GD, Greene CS.	“Oral Appliances in the Management of Temporomandibular Disorders.”	Oral Surg Oral Med Oral Pathol Oral Radiol. 107:212-223	2009
Klasser GD, Greene CS.	“The Changing Field of Temporomandibular Disorders: What Dentists need to know.”	J Canad Dent Assn. 75:49-53	2009
Greene CS.	“Validity of the Research Diagnostic Criteria for Temporomandibular Disorders Axis I in Clinical and Research Settings - Critical Commentary 2.”	J Orofac Pain. 23:20-23	2009
Greene CS, Goddard G, Macaluso GM, Mauro G.	“Topical Review: Placebo Responses and Therapeutic Responses. How Are They Related? ”	J Orofac Pain. 23:93-107.	2009
Greene CS.	“Book Review: Orofacial Pain: Guidelines for Assessment, Diagnosis, and Management.”	J Orofac Pain 23:180	2009
Greene CS.	“Neuroplasticity and Sensitization”	J Am Dent Assoc. 140:676-678	2009
Greene CS, Goddard G, Macaluso GM, Mauro G.	“Topical Review: Placebo Responses and Therapeutic Responses. How Are They Related?”	The Quintessence (JAPAN). 29:120-136	2010
Mauro G, Macaluso GM, Greene CS, Goddard G, Manfredi E.	“Placebo Effect.”	In: Current Concepts on Temporomandibular Disorders. Ed. D Manfredini. 383-392	2010
Greene CS.	“Editorial - Diagnosis and Treatment Of Temporomandibular Disorders: Emergence of a New Care Guidelines Statement.”	Oral Surg Oral Med Oral Path Oral Radiol Endod. 110:137-13	2010

Greene CS.	“Editorial - Diagnosis and Treatment of Temporomandibular Disorders: Emergence of a New "Standard of Care."”	Quintessence International 41:623-624	2010
Greene CS.	“Managing the Care of Patients with Temporomandibular Disorders: A New Guideline for Care.”	J Am Dent Assoc. 141:1086-1088	2010
Greene CS, Klasser GD, Epstein JB.	“Revision of the American Association of Dental Research’s Science Information Statement about Temporomandibular Disorders.”	J Can Dent Assoc 76:115	2010
Obrez A, Greene CS, Turp JC.	“Management of The Temporomandibular Disorder Patient With Concurrent Need For Restorative Dentistry - A Case Report.”	Slovenian Dental Journal. 65: 3-11	2010
List T, Greene CS.	“Moving forward with the RDC/TMD.”	J Oral Rehab 37:731–733,	2010
Greene CS.	“Point – Counterpoint: Relationship Between Occlusion and Temporomandibular Disorders: Implications For The Orthodontist.”	Am J Orthod Dentofacial Orthop. 139:10-16	2011
Stockstill J, Greene CS, Kandasamy S, Campbell D, Rinchuse DL.	“Survey of Orthodontic Residency Programs: Teaching About Occlusion, Temporomandibular Joints, and Temporomandibular Disorders in Postgraduate Curricula.”	Am J Orthod Dentofacial Orthop. 139:17-23.	2011
Ligas BB, Galang MTS, BeGole EA, Evans CA, Klasser GD, Greene CS.	“Phantom Bite: A Survey of US Orthodontists.”	Orthodontics (Chic.). 12: 38-47	2011
Greene CS, Murray, GM.	“Atypical odontalgia - an oral neuropathic pain phenomenon.”	J Am Dent Assoc. 142:1031-32	2011
Greene CS, Stockstill J, Rinchuse DL, Kandasamy S.	Orthodontics and temporomandibular disorders: A curriculum proposal for postgraduate programs.	Am J Orthod Dentofacial Orthop. 142:18-24	2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Chester S. Handelman

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Washington and Jefferson College, Washington, Pennsylvania	1957	B.S	Pre-Med
Harvard School of Dental Medicine, Boston, Massachusetts	1961	D.M.D	Dentistry
Harvard University School of Dental Medicine, The Harvard- Forsyth Orthodontic Program, Boston, Massachusetts	1964	Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1965	Present
Illinois specialist in Dentistry	1965	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Advanced Invisalign RX	Robert Boyd for Invisalign	March 2013

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Department of Orthodontics, Chicago, IL	Clinical Professor	Clinic Supervision	2010	Present
University of Illinois at Chicago, College of Dentistry, Department of Orthodontics, Chicago, IL	Clinical Associate Professor	Dept. of Orthodontics	1997	2009
University of Illinois at Chicago, College of Dentistry, Department of Orthodontics, Chicago, IL	Clinical Assistant Professor	Dept. of Orthodontics	1985	1997
University of Illinois at Chicago, College of Dentistry, Department of Orthodontics, Chicago, IL	Lecturer	Dept. of Orthodontics	1983	1985
University of Illinois at Chicago, Center for Craniofacial Abnormalities	Clinical Instructor	Craniofacial Abnormalities	1964	1968

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1963	Present
American Association of Orthodontists	Member	1965	Present
Illinois Society of Orthodontics	Member	1966	Present
Harvard Society for the Advancement of Orthodontics	Member	1970	Present
Chicago Academy of Dental Research	Member	1973	2002
Midwest Component of Edward H. Angle Society of Orthodontists	Member Chairperson of Study Committee 2001-2006 Vice President 2004-2005 President Elect 2005-2006 President 2006-2007 Nomination Committee 2007-2009 Chairperson of Nomination Committee 2009-2010	1974	Present
Chicago Academy of Dental Research	President	1982	1983
Chicago Academy of Dental Research	President	2001	2002

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: William Fredrick Hohlt

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Indiana University, Bloomington, IN	1958	B.S	Dentistry
Indiana University, Indianapolis, IN	1962	D.D.S.	Dentistry
United States Navy, Portsmouth Naval Hospital	1963	General Practice Residency	
Indiana University, Indianapolis, IN	1969	Clinical Proficiency Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Indiana License to practice Dentistry	1966	Present
Georgia License to practice Dentistry	1966	Present
United States Department of Justice Controlled substance Registration	1966	Present
State of Indiana Controlled Substance Registration Certificate	1966	Present
Illinois Restricted Faculty License	1998	Present
Cardiopulmonary Resuscitation and Emergency Cardiac Care Provider American Heart Association	1998	Present
Illinois License to practice Dentistry	2010	Present
Illinois License-Specialist in Dentistry	2010	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics	Diplomate	1991

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Midwest Angle Society	Orthodontics Subjects every hour	January, 2013
AAO National Convention	Your Choice, Biomechanics	May, 2012
Bioprogressive Course	Review, Bioprogressive, UIC	September, 2012
Bunstone Symposium	Centers of Resistance	November, 2011

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry Chicago, IL	Clinical Professor	Dept. of Orthodontics Clinic Supervision	2010	Present
Indiana University School of Dentistry	Professor Emeritus	Dept. of Orthodontics	2008	Present
Indiana University School of Dentistry	Dental Faculty	Private Practice	2003	2011
Indiana University School of Dentistry	Professor	Dept. of Orthodontics	2003	2008
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Professor	Dept. of Orthodontics	2002	2009
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Associate Clinical Professor	Dept. of Orthodontics	1998	2002
Indiana University School of Dentistry	Associate Professor with Tenure	Dept. of Orthodontics	1994	2003
Indiana University School of Dentistry	Graduate Faculty	Full Time Appointment	1988	2008
Indiana University School of Dentistry, Indianapolis, IN	Director of Undergraduate	Dept. of Orthodontics, Full Time Appointment	1988	2008
Indiana University School of Dentistry, Indianapolis, IN	Assistant Professor	Dept. of Orthodontics, Full Time Appointment	1988	1994
Indiana University School of Dentistry, Indianapolis, IN	Assistant Professor	Graduate Faculty of Dept. of Orthodontics, Part-time Appointment	1980	1988
Indiana University School of Dentistry, Indianapolis, IN	Assistant Professor	Graduate Faculty of Dept. of Orthodontics, Part-time Appointment	1969	1974

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year

			Didactic	Clinic/Laboratory
University of Illinois at Chicago, College of Dentistry Chicago, IL	Clinical Professor	Dept. of Orthodontics Clinic Supervision	Seminar, Lecturer	Pre-doc, Lecture Orthodontics

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Indianapolis, IN	Orthodontics	1969	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Indiana University Dental School Alumni	Member	1962	Present
American Dental Association,	Life Member-2002	1962	Present
Indiana Dental Association	Life Member – 2002	1969	Present
Indianapolis District Dental Society	Member	1969	Present
American Association of Orthodontists	Life-active Member - 2010	1969	Present
Great Lakes Component, American Association of Orthodontists	Member	1969	Present
Indiana Society of Orthodontists	Member	1971	Present
Midwest Component, Edward H. Angle Society	Hotel Committee - 1986-2000 Hotel Committee - 2004-2005 Admissions Committee – 1990-1996 Vice-president – 2003 President-Elect – 2004 President - 2005 Past President - 2006	1978	Present

National Association of Military Surgeons	Member	1984	1988
American College of Dentists	Member	1986	Present
Indiana University Orthodontic Alumni	Member	1986	Present
International College of Dentists	Member	1987	Present
Confrerie Des Compagnons Gouste-Via de Normandie, Medical Chapter,	Secretary- 1989-present	1989	Present
National Flying Dentists Association	Secretary - 1998-2001 President Elect – 2001-02 President - 2002-03 Past President - 2004	1990	Present
American Association of Dental Schools	Member	1993	1995
American Dental Education Association	Member	2006	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Roberts WE, Kanomi R, Hohlt WF.	“Miniature implants and retromolar fixtures for orthodontic anchorage.”	16:205-211	2007
Kravitz ND, Kusnoto B, Tsay TP, Hohlt WF.	“The use of temporary anchorage devices for molar intrusion.”	J Am Dent Assoc. 138:56-64	2007
Kravitz ND, Kusnoto B, Tsay TP, Hohlt WF.	“Intrusion of an overerupted upper first molar using two orthodontic miniscrews.”	Angle Orthod. 77:915-22	2007
Kravitz ND, Kusnoto B, Hohlt WF.	“Simplified surgical guide for anterior placement of mini-implants.”	J Clin Ortho. 41: 224-226	2007
Hohlt WF, Silberstein R.	“The Mousetrap.”	World J Orthod. 10:257-260	2009
Hohlt WF, Silberstein R.	“Die Mausefalle, Kieferorthopadie.”	24 : 289-292	2010

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Gregory W. Jackson

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Illinois, Urbana, Illinois	1970		
University of Illinois College of Dentistry, Chicago, IL	1974	D.D.S. with Honors	
University of Washington, Seattle, Washington	1978	M.S.D.	

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois General Dental License	1974	Present
Illinois Dental Orthodontic Specialty License	1981	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois, College of Dentistry, Chicago, IL	Clinical Assistant	Department of Orthodontics	2000	Present

	Professor			
University of Illinois, College of Dentistry, Chicago, IL	Co-director	Undergraduate Orthodontic Education	1978	1981
University of Illinois, College of Dentistry, Chicago, IL	Lecturer	Department of Orthodontics	1978	1981

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois, College of Dentistry, Chicago, IL	Faculty member			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
International Association of Orthodontists	Member	1978	Present
American Association of Orthodontists	Member	1978	Present
Midwestern Society of Orthodontists	Member	1978	Present
Illinois Society of Orthodontists	Member	1978	Present

American Dental Association	Member	1974	Present
Illinois State Dental Society	Member	1974	Present
Chicago Dental Society	Member	1974	Present
American Academy of Dental Sleep Medicine	Member	2013	Present
Sleep Society	Member	2013	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Heekyoung Jo

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Seoul National University, College of Natural Sciences, Seoul, Korea	1982		Natural Sciences
Seoul National University, College of Dentistry Seoul, Korea	1986	Internship	
University Hospital, Seoul National University, College of Dentistry, Seoul, Korea	1987	Internship and Residency	
Indiana University, School of Dentistry, Indianapolis, IN	1989	M.S.D.	Preventive Dentistry
University of Minnesota, School of Dentistry, Division of Orthodontics, Minneapolis, MN	1991	Specialty Certificate	Orthodontics
University of Minnesota, School of Dentistry, Department of Oral Sciences, Minneapolis, MN	1993	Ph.D.	Oral Sciences

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Korea (Inactive)	1986	
Minnesota (Inactive)	1997	
Wisconsin (Inactive)	1992	
Michigan (Inactive)	1993	
Illinois Dental License Registration	1997	
Illinois Orthodontics Specialty License	1997	
American Board of Orthodontics Examination, Phase III, Case Oral Exam	2001	

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Department of Orthodontics	2003	Present
University of Minnesota, School of Dentistry, Minneapolis, MN		Division of Orthodontics	1989	1991
University of Indiana, School of Dentistry, Indianapolis, IN		Preventive Dentistry	1987	1989
Seoul National University, Seoul, College of Dentistry, Korea		Operative Dentistry, Endodontic	1986	1987

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Mundelein, IL	Kelsey & Jo Orthodontics, Private Practice	2000	Present
Highland Park, IL	Kelsey & Jo Orthodontics, Private Practice	1997	Present
John H. Kelsey Orthodontics, Private Practice, Midland, MI	John H. Kelsey Orthodontics, Private Practice	1993	1997
Apple Valley, MN	Apple Park Associates, Inc., Private Practice	1992	1993

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Korean Women Dental Association	Member	1986	Present
Korean Dental Association	Member	1986	Present
Indiana Dental Association	Member	1987	1989
International Association for Dental Research	Member	1987	1993
American Association for Dental Research	Member	1987	1993
American Dental Association	Member	1987	Present
American Association of Orthodontists	Member	1988	Present
Minnesota Dental Association	Member	1989	1993
North Shore Women Dentists	Member	1999	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Edward J. John
Current
Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study

LICENSURE

License (Do not include license number)	From (Year)	To (Year)

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
N/A		

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
N/A				

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: John H. Kelsey
Current
Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Michigan State University, East Lansing, MI	1979-1983	B.S.	Petroleum Geology
Michigan State University, School of Dentistry, East Lansing, MI	1983-1987	D.D.S.	
St. Francis Hospital and Medical Center, Hartford, CT	1987-1988	General Practice Residency	
University of Minnesota School of Dentistry, Minneapolis, MN	1990-1992	M.S.	Orthodontic Graduate Program

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1996	Present
Illinois Orthodontic Specialty License	1996	Present
Northeast Regional Board License	1996	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
ABO Certification		2007

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Faculty member, part-time, Department of Orthodontics	1998	Present
University of Minnesota School of Dentistry, Minneapolis, MN	Instructor	Post-Graduate Orthodontic Program	1990	1992
University of Michigan School of Dentistry, Ann Arbor, MI	Clinical Instructor	TMJ/Orofacial Pain Clinic	1988	1990
University of Michigan School of Dentistry, Ann Arbor, MI	Instructor	Oral Health Day	1998	1988
University of Michigan School of Dentistry, Ann Arbor, MI	Instructor	Mouthguard Clinic	1988	1988
University of Michigan School of Dentistry, Ann Arbor, MI	Lecturer	Department of Restorative Dentistry	1988	1990

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Department of Orthodontics		

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1987	Present
American Association of Orthodontists	Member	1990	Present
Chicago Dental Society	Member	1996	Present
Illinois State Dental Society	Member	1996	Present
Central Lake County Dental Study Club	President	2004	2010
Diplomate American Board of Orthodontists	Member	2005	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Ashok Kothari

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Bombay University, India	1970	B.S	
Nair Hospital Dental College, Bombay University, India	1975	B.D.S	
Orthodontics, Nair Hospital Dental College, Bombay University, India	1978	M.D.S	
Loyola Univ. School of Dentistry, Maywood, IL	1983	Specialty Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1984	Present
Illinois Dental Specialty License	1984	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics	Diplomate	2002

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
The CCO System	Antonino Sechi	February 2013
Orthodontics	Antonino Sechi	February 2013
Marketing	Susan McElvy and Cynthia Kohler	November 2012
Orthodontic Practice	Eye towards future- Brent Larson	September 2012
Fundamental of treatment planning and practice transition	Dr. Musich	September 2012

Not your Daddy's Orthodontics	Dr. Graham, ISO	April 2012
Bisphosphante related osteonecrosis of the jaw	Korompilas	February 2012
Interdisciplinary treatment	Vanarsdall	February 2012
The Interdisciplinary Team	Dr. Kokich, Jr., ISO	September 2011
Snap on smile	Dr. Tuck	September 2011
Academy of Laser Dentistry UIC	Dr. Margolis, UIC	July 2011
Mini Implants	Dr. Melsen	May 2011
New face in Interdisciplinary Dentistry	Dr. Sarver	February 2011
	AAO Annual Session 2011	2011
Genetic Factors in External root resorption and CBCT	Dr. Hartsfield, Harrell and Monahan	November 2010
10 Sensational Do it yourself Technologies	Drs. Tyler, Alexander and Kozlowski	October 2010
Orthodontic risk management	Dr. Jerrold	September 2010
Diagnosing oral and facial lesions	Dr. Olsen	February 2010
The face of your patient is changing	Dr. Warshawsky	February 2010
When is it time for orthodontic treatment to begin	Dr. Manasse	February 2010
Mini implant anchorage	Dr. Baumgaertel	February 2010
	AAO Annual session 2010	2010
California Dental Practice Act and Infection control	Homestead Schools Inc	December 2009
	AAO Meeting 2009	2009
Mini screw anchorage	Dr. Jason Cope, Unitek	October 2008
Orthodontics Why and Why not	Will County Dental Society	September 2008
Managing Orthodontic Treatment for patients with Periodontal problems	Dr. Vincent Kokich, ISO	April 2008
CPR Attendance	IDA	March 2008
Orthodontics and Esthetics	Dr. Sarver, ISO	December 2007
Treatment Planning and Treatment Mechanics	Dr. Richard McLaughlin, ISO	October 2007
Healthy Living for a healthy Heart	Dr. Parikh, IDA	September 2007

Oral surgery and Bisphosphanates	Dr.Zager, IDA	June 2007
Cosmetic Dentistry	Dr.Mopper, IDA	March 2007

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Chicago, IL	Clinical Assistant Professor	Dept. of Orthodontics	2002	Present
Loyola University, School of Dentistry, Maywood, IL	Teaching Assistant	Dept. of Psychology	1982	1983

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Joliet, IL	Private Practice of Orthodontics	1984	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Indian Orthodontic Society	Member	1975	Present

American Association of Orthodontists	Member	1982	Present
American Dental Association	Member	1984	Present
CDABO	Member	2002	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Kothari A.	“Closed coil spring to crossbite correction.”	J Clin Orthod. 44:689-690	2010
Kothari A.	“Quick conversion of an expander to a transpalatal arch.”	J Clin Orthod 46:160	2011
Kothari A.	“Distalization of ectopically erupted molars in mixed dentition.”	J Clin Orthod 46:42-44	2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Budi Kusnoto

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Computer Science Institute. Jakarta, Indonesia	1993	B.Sc.	Computer Engineering
The University of Indonesia. Jakarta, Indonesia	1994	D.D.S.	
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1998	Specialty Certificate	Orthodontics
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1998	M.S	Oral Science
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1999	Fellow	Craniofacial Surgery
University of Illinois at Chicago, College of Dentistry, Chicago, IL	2004	D.D.S.	

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Faculty Dental License, State of Illinois, License to Practice	2003	2005
State of Illinois, Licensed Dentist, State Professional Board, Illinois	2005	2009
State of Illinois, Licensed Specialist in Dentistry Orthodontics, State Professional Board, Illinois	2005	2009

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics Phase II, Certification	Certification	1998
Dental National Board Examination Part I, Certification	Certification	1998
Dental National Board Examination Part II, Certification	Certification	2002
American Board of Orthodontics	Diplomate	2008

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
College of Dentistry, University of Illinois at Chicago	Associate Professor	Department of Orthodontics	2009	Present
College of Dentistry, University of Illinois at Chicago	Assistant Professor	Department of Orthodontics	2005	Present
College of Dentistry, University of Illinois at Chicago	Clinic Director	Department of Orthodontics,	2004	Present
College of Dentistry, University of Illinois at Chicago	Faculty Dental Practitioner	Faculty Practice	2003	Present
College of Dentistry, University of Illinois at Chicago	Clinical Assistant Professor	Department of Orthodontics	2001	2004
College of Dentistry, University of Illinois at Chicago	Visiting Assistant Professor	Department of Orthodontics	1999	2001
College of Dentistry, University of Illinois at Chicago	Teaching Assistant	Department of Orthodontics	1995	1998

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago	Clinical Orthodontics, Clinic Director	PG-1, 2, 3	200	800

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Chicago, IL	Private practice of orthodontics		present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Curriculum Restructuring Committee, Department of Orthodontics, College of Dentistry, University of Illinois at Chicago	Member	2005	2006
Patient Care Quality Assurance Committee, Department of Orthodontics, College of Dentistry, University of Illinois at Chicago	Member	2005	2007

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Kravitz ND, Kusnoto B, Tsay TP, Hohlt WF	Intrusion of over erupted upper first molar using two orthodontic miniscrews.	Angle Orthod 77:915-22.	2007
Okunami, TR, Kusnoto B, BeGole EA, Evans CA, Sadowsky C, Fadavi S	Assessing the American Board of Orthodontics Objective Grading System: digital vs plaster dental casts.	Am J Orthod Dentofacial Orthop. 131:51-6	2007
Kravitz ND, Kusnoto B, Tsay TP, Hohlt WF	The use of temporary anchorage devices for molar intrusion.	J Am Dent Assoc. 138:56-64	2007
Kravitz ND, Kusnoto B.	A quick and inexpensive method for composite button fabrication.	J Clin Orthod. 41:65-6	2007
Kravitz ND, Kusnoto B	Risks and complications of orthodontic miniscrews.	Am J Orthod Dentofacial Orthop. 131(4 Sup):43-51	2007
Kravitz ND, Kusnoto B, Hohlt WF.	A simplified stent for anterior miniscrew insertion.	J Clin Orthod. 41:224-6	2007
Yeh C, Kusnoto B, Viana G, Evans CA, Drummond JL	In-vitro evaluation of frictional resistance between brackets with passive-ligation designs	Am J Orthod Dentofacial Orthop. 131:704. e11-e22	2007
Kusnoto B.	Two dimensional cephalometry and computerized orthognathic surgical treatment planning.	Clin Plast Surg. Vol 34:417-26.	2007
Kravitz ND, Kusnoto B	Posterior impaction with orthodontic miniscrews for openbite closure and improvement of facial profile.	World J Orthod. 8: 157-66	2007
Kravitz ND, Kusnoto B.	Soft-tissue lasers in orthodontics: an overview.	Am J Orthod Dentofacial Orthop. 133(4 suppl): S110-4	2008
Kravitz ND, Kusnoto B, Agran B, Viana G.	Influence of attachments and interproximal reduction on the accuracy of canine rotation with Invisalign	Angle Orthod 78:682-7.	2008
Oliveira De Felippe NL, Da Silveira AC, Viana MG, Kusnoto B, Smith B, Evans	Relationship between rapid maxillary expansion and the nasal cavity's size and airway resistance short and long-term	Am J Orthod Dentofacial Orthop. 134:370-82	2008

CA.	effects.		
Kravitz ND, Kusnoto B, BeGole E, Obrez A, Agran B.	How well does Invisalign work? A prospective clinical study evaluating the efficacy of tooth movement with Invisalign.	Am J Orthod Dentofacial Orthop. 135: 27-35	2009
Vajaria R, BeGole E, Kusnoto B, Galang MT, Obrez A	Evaluation of incisor position and dental transverse dimensional changes using the Damon system.	Angle Orthod. 81: 647-52	2011
Kwong TS, Kusnoto B, Viana G, Evans CA, Watanabe K..	The effectiveness of Oraqix® versus TAC Alternate for placement of orthodontic temporary anchorage devices	Angle Orthod. 81: 754-59	2011
Al-Sanea R, Kusnoto B, Evans CA.	3D Facial Soft Tissue Changes Due to Orthodontic Tooth Movement. In: Bourzgui F. Orthodontics - Basic Aspects and Clinical Considerations.	ISBN 978-953-51-0143-7, InTech	2012
Israel M, Kusnoto B, Evans CA, BeGole E.	A comparison of traditional and computer-aided bracket placement methods	Angle Orthod. 81:828-35.	2011
Duabis R, Kusnoto B, Natarajan R, Zhou L, Evans CA.	Factors affecting stresses in cortical bone around miniscrew implants A three-dimensional finite element study.	Angle Orthod 82:875-880	2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Haitao Li

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Yr of Grad.	Certificate or Degree	Area of Study
Capital University of Medical Sciences, Beijing, China	1999	BDS	Dentistry
Chao Yang Dental Group	2001		General Dentistry
University of Connecticut	2007	PhD	Biomedical Science
University of Connecticut	2008	Postdoctoral Fellow	Bone Biology
University of Illinois at Chicago	2011	Certificate	Orthodontics
University of Illinois at Chicago	2011	M.S.	Oral Sciences

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Florida - Teaching License	2011	2013
Illinois – Dentist	2013	Present
Illinois – Orthodontic Specialist	2013	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics	Orthodontics	2011

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago	Clinical Assistant Professor	Orthodontics	2013	present
University of Florida	Assistant/Associate	Orthodontics	2011	2013

	Professor			
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CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago	Clinical Orthodontics	PG-1, 2, 3	6	140

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
N\A				

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Chicago, IL	Private practice of orthodontics	2013	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Association of Orthodontists	Member	2008	Present
College of Diplomates, American Board of Orthodontics	Member	2011	Present
American Society of Bone and Mineral Research	Member	2006	2007

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Li H, Marijanovic I, Kronenberg M, Erceg I, Stover ML, Velonis D, Mina M, Upholt W, Kalajzic I, Lichtler A	Expression and function of Dlx genes in the osteoblast lineage	Dev Biol 316:458-70	2008
Kalajzic Z, Li H, Wang L, Jiang X, Lamothe K, Adams DJ, Aguila HL, Rowe DW, Kalajzic I.	Use of an alpha-smooth muscle actin GFP reporter to identify an osteoprogenitor population	Bone 43:501-10	2008
Salie R, Li H, Jiang X, Rowe DW, Kalajzic I, Susa M.	A rapid, nonradioactive <i>in situ</i> hybridization technique for use on cryosectioned adult mouse bone	Calcif Tissue Int 83:212-21	2008
San Miguel SM, Fatahi MR, Li H, Igwe JC, Aguila HL, Kalajzic I	Defining a visual marker of osteoprogenitor cells within the periodontium	J Periodontal Res 45:60-70	2010

Li H, Jiang X, Delaney J, Franceschetti T, Bilic-Curcic I, Kalinovsky J, Lorenzo JA, Grcevic D, Rowe DW, Kalajzic I	Immature osteoblast lineage cells increase osteoclastogenesis in osteogenesis imperfect murine	Am J Pathol 176:2405-13	2010
Grcevic D, Pejda S, Repic D, Wang L, Li H, Kronenberg M, Jiang X, Maye P, Adams D, Rowe DW, Aguila H, Kalajzic I	In vivo fate mapping identifies mesenchymal progenitor cells	Stem Cell 30:187-196	2012
Li H, Ramachandran A, Gao Q, Ravindran S, Song Y, Evans C, George A.	Expression and function of NUMB in odontogenesis	Biomed Res Int 2013:2013:182965, doi: 10.1155/2013/182965	2013
Li H, Masoud A, Voss L	Case report: Modified quadhelix-expander in treatment of a pseudo Class III patient	J World Fed Orthod 2:e107-e114	2013

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Gary W. Lippincott

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Brigham Young University, Provo, UT	1975	B.S	Zoology
Loyola University School of Dentistry, Chicago, Illinois	1980	D.D.S	
Michael Reese Hospital, Chicago, IL	1981	General Practice Residency, Certification of Completion	
University of Illinois at Chicago, Chicago, IL	1987	Clinical Certificate in Orthodontics	Orthodontics
University of Illinois at Chicago, Chicago, IL	1991	M.S	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1980	Present
Illinois Dental Orthodontic Specialty License	1987	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Department of Orthodontics, Chicago, IL	Clinical Assistant Professor and Lecturer	Growth and Development	2009	Present
Universidad Nacional Autonoma de Honduras, San Pedro Sula, Honduras	Volunteer faculty	Under auspices of Health Volunteers Overseas	2010	
Institute of Odonto-Stomatology, Ho Chi Minh City, Vietnam	Volunteer faculty	Under auspices of Health Volunteers Overseas	2005	Present
University of Illinois at Chicago, Department of Orthodontics, Chicago, IL	Clinical Assistant Professor		1988	1995
Michael Reese Hospital, Chicago, IL	Attending Dentist	General Practice Residency	1982	1984
Loyola University School of Dentistry, Chicago, IL	Clinical Instructor	Removable Prosthetics	1981	1983
Loyola University School of Dentistry, Chicago, IL	Laboratory Instructor	Gross Anatomy	1978	1980

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, Department of Orthodontics, Chicago, IL	Growth and Development			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Michael Reese Hospital	Chicago	IL	1982	1984

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1980	Present
American Association of Orthodontists	Member	1987	Present
Illinois Society of Orthodontists	Member	1987	Present
American Board of Orthodontics	Board Eligible	1990	Present
Health Volunteer Overseas	Member	2005	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Robert Manasse

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Illinois College of Pharmacy, Chicago, IL	1969		Pharmacy Apprentice
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1972	B.S	
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1974	Doctor of Dental Surgery	
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1976	Certificate in Orthodontic	Orthodontics
Dr. Robert M Ricketts Pacific Palisades, California	1976	Independent study	Bioprogressive Therapy
Dr Andrew J Haas, Cuyahoga Falls, Ohio	1976	Independent study	Learn Haas techniques for patient orthodontic treatment
University of Illinois in Chicago with Dr. Sam Pruzansky	1977	Independent research	Cranio-facial Anomalies

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1974	1985
American Board of Orthodontics	1985	Present
Illinois Orthodontic Specialty License	1976	1985
Texas Dental License	1976	1994
Illinois Orthodontic Specialty License	1993	Present
Illinois Dental License	1993	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Legislative Forum in Dentistry	ISDS Capital Conference, Springfield, IL	April 2013
Forensics in Dentistry	Dr. Ed Pavlik, South Suburban Branch of CDS	March 2013
Open Wide: Let's look inside	Dr. Louis DePaola, CDS Midwinter Meeting	February 2013
What's the Latest in Implant Technology	Dr. Ahmad Eslami, CDS Midwinter Meeting	February 2013
Controversies in Dentistry-2013	Panel of Experts, CDS Midwinter Meeting	February 2013
Exhibit Commercial CE	Chicago Midwinter Meeting	February 2013
Current Trends in Oral Health Care	Dr. Daniel Meyer, Odontographic Society	February 2013
Local Anesthetic Complications	Dr. Robert Bosack, South Suburban Branch of CDS	January 2013
Neurosurgery and Dentistry	Dr. Fady Charbel , Odontographic Society	December 2012
Volunteer clinical dental services	ISDS Illinois Mission of Mercy	June 2012
Participated in the Annual Capital Conference	ISDS	April 2012
Light, Love, Life and Sholom	Dr. Steinberg, South Suburban Branch of the CDS	April 2012
Why are Women so Strange and Men so Weird	Cristopher, Chicago Dental Society Midwinter Meeting	February 2012
Stainless Steel Crowns are a Snap	Psaltis, Chicago Dental Society Midwinter Meeting	February 2012
Exhibit Commercial CE	Chicago Dental Society Midwinter Meeting	February 2012
Raising the Bar: Health and Exercise	Bryant, Odontographic Society of Chicago	February 2012
The Endo Restorative Continuum	South Suburban Branch of CDS	January 2012
Pediatric Oral Pathology/Salzmann	South Suburban Branch of CDS	April 2011
Participant in the Annual Capital Conference	ISDS	April 2011
Oral Care for patients on Biophosphonates and Osteolytic inhibitors	Epstein, Odontographic Society of Chicago	April 2011
Invisalign Clear Techniques II	Invisalign®	March 2011
The Endo Restorative Continuum	Brave & Koch, Chicago Dental Society Midwinter Meeting 2011	February 2011

Real World Dentistry 2011	Garber, Chicago Dental Society Midwinter Meeting 2011	February 2011
Principle Based Dentistry and Clinical Success	Miyasaki, Chicago Dental Society Midwinter Meeting 2011	February 2011
Motivating in a down economy: Practicing the Fundamentals of great leadership	Odontographic Society of Chicago	February 2011
Updates in Pharmacology	Gaynor, South Suburban Branch of CDS	January 2011
Hands on Laser Seminar	South Suburban Branch of CDS	November 2011
Post-Election Commentary on Health Care	Cotto, South Suburban Branch of CDS	November 2010
Leadership and Decision Making Strategies	ISDS Annual Session 2010	October 2010
Distinguished Speaker Series	ADA Annual Session	October 2010
IL Legal and Legislative Update	South Suburban Branch of CDS	October 2010
Self-Study Correspondence Course	PennWell, Soft Tissue Lasers and Procedures	September 2010
Orthodontic Risk Management	Jerrold, Orthodontic Alumni Association of Illinois	September 2010
Legislative and Clinical Issues That Effect Dentistry	ISDS Annual Capital Conference	April 2010
Predictable Impressions	Boghosian, South Suburban Branch of CDS	April 2010
Recent Advances and Prevention and Detection Of Oral Cancer	Lingen, South Suburban Branch of CDS	March 2010
Biomorphaesthetics	Lowe & Shavell, Chicago Dental Society Midwinter Meeting 2011	February 2010
Mini-Implant Anchorage	Baumgaertel, Chicago Dental Society Midwinter Meeting 2011	February 2010
Portable Dentistry	Bee, Chicago Dental Society Midwinter Meeting 2011	February 2010
PANDA	Sullivan, South Suburban Branch of CDS	January 2010
What's New in Caries	Kuehne, Odontographic Society of Chicago	October 2009
Achieving Excellence in Aesthetic Dentistry	Sorenson, ADA Annual Session 2009	September 2009
MBT Philosophy of Orthodontic Treatment	IL Society of Orthodontists	September 2009
Perioral Cosmetic Procedures	Costa, College of Diplomates of ABO	July 2009
Aesthetics for a Lifetime	Barver, College of Diplomates of ABO	July 2009

Treating Patients with Gingival Display	Kokich, College of Diplomates of ABO	July 2009
Lasers	Gorman, College of Diplomates of ABO	July 2009
Best of Both Worlds	Alexander, College of Diplomates of ABO	July 2009
Traditional View	Boley, College of Diplomates of ABO	July 2009
New Goals-New Methods	Profitt, College of Diplomates of ABO	July 2009
Legislative and Clinical Issues	ISDS Annual Capital Conference	April 2009
Abraction of Abfriction: Non-carious cervical lesions	Dzakovich, South Suburban Branch of CDS	April 2009
Advance in Refractive Technology	Joffe, South Suburban Branch of CDS	March 2009
Update in Adhesive Dentistry	Semprum, Odontographic Society of Chicago	February 2009
Office Emergencies: Are you prepared?	Bosack, South Suburban Branch of CDS	January 2009
A Huge Surprise in Post and Core	Sharifi, North Suburban Branch of CDS	December 2008
Proper Nutrition	Siller, South Suburban Branch of CDS	November 2008
Transitional Composite Bonding	Willhite, West Suburban Branch of CDS	November 2008
The Passion Driven Practice	Zelesky, Regional Meeting of CDS	November 2008
Legislative Update	Miller, Kosel, Scully, South Suburban Branch of CDS	October 2008

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Dept. of Orthodontics, College of Dentistry, Chicago, IL	Assistant Clinical Director	Organize orthodontic resident clinical environment and clinical procedures, clinical assistant duties and sterilization protocol	2012	Present
University of Illinois at Chicago, Dept. of Orthodontics College of Dentistry, Chicago, IL	Clinical Associate Professor	Courses taught: Orthodontic Diagnosis and Treatment Planning, Orthodontic Treatment, Practice Management, Risk Management, Ethics	2008	Present
University of Illinois at Chicago, Dept. of Orthodontics, College of Dentistry, Chicago, IL	Guest Lecturer	Orthodontic Diagnosis and Treatment Planning Orthodontic treatment Practice Management Ethics	1978	2007

University of Illinois at Chicago, Dept. of Pediatric, College of Dentistry, Chicago, IL	Associate Professor	Investigations to start community based dental programs	1992	1994
University of Texas, Department of Communications-Speech Disorders, Edinburg, Texas.	Clinical Associate Professor	Taught Cranio-facial Anomalies	1985	1989
University of Texas HSC, San Antonio, Texas	Clinical Associate Professor	Taught Diagnosis and Treatment Planning, Growth and Development & Cephalometrics	1982	1986
University of Texas HSC, San Antonio, Texas	Clinical Assistant Professor	Taught Growth and Development and Cephalometrics	1977	1982
University of Illinois at Chicago, Department of Operative Dentistry, College of Dentistry, Chicago, IL	Teaching Assistant	Department of Operative Dentistry	1972	1974

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, Department of Operative Dentistry, College of Dentistry, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Charter Palms Hospital	McAllen	TX	1984	1992
Rio Grande Valley Hospital	McAllen	TX	1980	1992
McAllen Medical Center Hospital	McAllen	TX	1977	1992

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Matteson, Illinois	Private Practice		Present
McAllen, Texas	Private Practice	1977	1992

Chicago, Illinois	Private Practice	1976	1977
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MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	1974	
Texas Dental Association	Member	1976	1992
Rio Grande Valley Dental Society	Member	1976	1992
Illinois Orthodontic Alumni Association	Member	1976	Present
American Association of Orthodontics	Member	1976	Present
American Cleft Palate Association	Member	1979	1992
American Association of Dental Schools	Member	1979	1992
Illinois State Dental Society	Member	1992	Present
Chicago Dental Society	Member	1992	Present
Members Group of the Chicago Dental Society	Member	1992	Present
Illinois Society of Orthodontists	Member	1992	Present
Chicago Dental Society Mediation Committee	Member	1995	2003
Chicago Dental Society Table Clinics Committee	Member	1996	1999
Board of Directors of South Suburban Branch of the CDS	Member	1998	2008
Annual Session of ISDS	Alternate Delegate	2001	2002
Annual Session of ISDS	Delegate	2003	2003
South Suburban Branch of the Chicago Dental Society	President	2003	2004
Illinois State Dental Society	Representative	2003	Present
World Federation of Orthodontists	Member	2004	2010
Nominating Committee of the Members Group of the CDS-2005	Member	2005	2005
ADA Annual Session House of Delegates	Designated Alternate to Alternate Delegate	2006	2006
Annual Session of ISDS	Delegate	2006	2008
Board of Directors of the Chicago Dental	Member	2006	2008

Society			
CDS Ad Hoc Hispanic Dental Association Committee	Member	2006	2006
Academic Chapter of the Chicago Dental Society	Board Liaison	2006	2008
Executive Board of the Chicago Dental Society	Member	2006	2008
Policy Manual Committee of the Members Group of the CDS	Member	2006	2010
Committee on Insurance for ISDS	Member	2006	2011
The Executive Council of the Members Group of the CDS	Member	2006	Present
The Executive Council of the Members Group of the CDS	Vice Chairperson – 2009	2006	Present
The Executive Council of the Members Group of the CDS	Treasurer – 2010	2006	Present
The Executive Council of the Members Group of the CDS	Secretary – 2011	2006	Present
The Executive Council of the Members Group of the CDS	Chairman – 2012	2006	Present
CDS Ad Hoc Continuing Education Committee	Member	2007	2008
CDS Ad Hoc Committee on Dental Hygiene Programs	Member	2007	2009
CDS Ad Hoc Committee on Dental Hygiene Programs	Chairperson - 2009	2007	2009
The Odontographic Society of Chicago	Member	2007	Present
CDS Ad Hoc Donor Directed Contributions Committee	Member	2008	2009
CDS Ad Hoc Donor Directed Contributions Committee	Member	2008	2009
CDS General Arrangements Committee for Midwinter Meetings	Member	2008	2011
CDS General Arrangements Committee for Midwinter Meetings	Secretary – 2009	2008	2011
CDS General Arrangements Committee for Midwinter Meetings	Vice Chairperson – 2010	2008	2011
CDS General Arrangements Committee for Midwinter Meetings	Chairman – 2011	2008	2011
ADA Annual Session House of Delegates	Alternate to Alternate Delegate	2009	2009
CDS Midwinter Meeting of 2014	Elected as Program Chair	2009	2009
Policy Manual Committee of the Members Group of the CDS	Chairperson	2009	2010
American Association of Dental Education	Member	2009	Present

Members Group for the Coalition Night	Runner	2010	2010
CDS Midwinter Affairs Committee	Member	2010	Present
Illinois State Dental Society representing the Chicago Dental Society	Trustee	2011	2014
ISDS Capital Conference Committee	Member	2012	
2012-2013 offices for the Members Group	Chairperson of the Nominating Committee	2012	
Annual Session of ISDS	Delegate	2012	2015

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

**Do not attach Curriculum Vitae.
Print or Type Only**

Name: Spiro John Megremis

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Rose-Hulman Institute of Technology, Terre Haute, Indiana	1990	B.S	Mechanical Engineering
Rose-Hulman Institute of Technology, Terre Haute, Indiana	1995	M.S	Biomedical Engineering
Northwestern University, Evanston, Illinois,	2001	Ph.D.	Philosophy, Biomedical Engineering

LICENSURE

License (Do not include license number)	From (Year)	To (Year)

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois Chicago College of Dentistry, Chicago, IL	Guest Lecturer	Dental Materials Course	2012	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Society for Biomaterials	Student Member	1995	2001
American Association for Dental Research	Student Member	1997	2001
International Association for Dental Research	Student Member	2001	Present
Chicago Section of American Association for Dental Research	Member	2001	Present
American Society for Testing Materials International	Member	2001	Present
ASTM International Committee F04 on Medical and Surgical Materials and Devices	Member	2001	Present
American Dental Association Standards Committee on Dental Products (ADA SCDP)	Member	2001	Present
U.S. Technical Advisory Group (TAG) for ISO (International Organization for Standardization)/TC (Technical Committee) 106 Dentistry	Member	2001	Present

American Dental Association Standards Committee on Dental Products (ADA SCDP)	Voting member	2002	Present
US Sub-TAGs 1, 2, 3, 4, 6, 7, 8 for ISO/TC 106 Dentistry	Voting Member	2002	Present
Dental/Craniofacial Special Interest Group of the Society for Biomaterials	Member	2002	Present
Society for Biomaterials	Member	2002	Present
American Association for Dental Research (AADR)	Member	2002	Present
International Association for Dental Research (IADR)	Member	2002	Present
Dental Materials Group, IADR/AADR	Member	2002	Present
Chicago Microtechnology & Nanotechnology Community (CMNC)	Member	2004	Present
American Society for Metals (ASM) International	Member	2006	Present
ASM International, Chicago Chapter	Member	2006	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Megremis S, Tiba A, Vogt K, Geary R, and Kuehne J.	“An Evaluation of Selected Vinyl Polysiloxane and Vinyl Polysiloxane-Hybrid Elastomeric Impression Materials”	JADA 143(4)	2012
Megremis S, Tiba A, and Vogt K.	“An Evaluation of Eight Elastomeric Occlusal Registration Materials”	JADA 143(12)	2012
Spink LS, Rungruanganut P, Megremis, S, Kelly R.	“Comparison of Absolute and Surrogate Measures of Translucency in Dental Ceramics”	Dental Materials In Review	2013
Megremis SJ and Gilbert J.L.	“The Electrochemical Scratch Test Behavior of Five Co-Cr-Mo Alloys,”	Journal of Biomedical Materials Research In Revision	2013
Megremis S, Baltzer N and Copponnex T.	“Corrosion Resistance”, Precious Metals for Biomedical Applications,	Publishing Limited and CRC Press LLC In Review	2013

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Zane F Muhl
Current
Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Illinois, Chicago, Illinois	1959	B.S	
University of Illinois,Chicago. IL	1961	D.D.S.	
University of Illinois,Chicago. IL	1971	Certificate	Orthodontic
University of Illinois,Chicago. IL	1972	M.S.	Thesis
University of Illinois,Chicago. IL	1974	Ph.D.	Thesis

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois General Dental License	1963	Present
Illinois Dental Orthodontic Specialty License	1971	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois, College of Dentistry, Chicago, IL	Faculty Member	Department of Orthodontics	2003	Present
University of Illinois, College of Dentistry, Chicago, IL	Professor Emeritus	Department of Orthodontics	2002	2002
University of Illinois, College of Dentistry, Chicago, IL	Interim Associate Dean	Academic Affairs	1999	2003
University of Illinois, College of Dentistry, Chicago, IL	Professor	Department of Orthodontics	1996	2002
University of Illinois, College of Dentistry, Chicago, IL	Associate Professor	Department of Orthodontics	1977	1996
University of Illinois, College of Dentistry, Chicago, IL	Associate Professor	Department of Orthodontics	1974	1977
University of Illinois, College of Dentistry, Chicago, IL	Instructor	Department of Orthodontics	1971	1974

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois, College of Dentistry, Chicago, IL				
University of Illinois, College of Dentistry, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Peoria, Illinois	Private dental practice	1964	1969

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Sigma Xi, University of Illinois Medical Center Chapter	Treasurer	1979	1984
Annual Midwest Seminar of Dental Medicine	Member of Board of Directors	1980	1983
Omicron Kappa Upsilon, Sigma Chapter	President	1983	1984
University of Illinois at Chicago	Member of Graduate Faculty	1983	1984
UIC Alumni Association	Life Member	1983	1984
Annual Midwest Seminar of Dental Medicine	Executive Director	1983	1989

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Sheshter, Abdullatif H., BeGole, Ellen A., and Muhl, Zane F	“Assessment of the Orthodontic Referral by Undergraduate Dental Students.”	Smile Dent J 6:42-45	2011

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Yana Nedvetsky
Current
Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
1st Pavlov Medical Institute, Leningrad, Soviet Union	1988		Stomatology
University Hospitals of Cleveland, Cleveland, Ohio	1991	B.S.D	
School of Dentistry, Case Western Reserve University, Cleveland, Ohio	1992	D.D.S	
Oral and Maxillofacial Surgery Internships	1992		
Mount Sinai Medical Center, Cleveland, Ohio	1992		
General Practice Residency Program, Mount Sinai Medical Center, Cleveland, Ohio.	1993	Certificate: Oral Surgery, Anesthesia and IV Sedation,	Emergency Room Internship, ENT Internship, Hospital Dentistry, Pediatric Dentistry, Endodontics.
Annual Specialty Review and Advanced Education Courses. Fixed Prosthodontics, Implant Surgery, Esthetic Dentistry, Restorative Dentistry, Dental Research, Interdisciplinary topics.	1994		
Misch International Implant Institute, Detroit, Michigan.	2009	Fellowship Certificate	Implant Surgery; Implant Prosthodontics: Advanced Bone Grafting Surgery; Oral Sedation
Pikos Implant Institute, Tampa, Florida.	2010	Certificates: Advanced Bone Grafting Surgery, Implant Surgery	
Edward P. Allen Center for Advanced Dental Education, Dallas, Texas	2010	Certificates: Oral Plastic Surgery, Advanced Implant Surgery	Oral Plastic Surgery, Advanced Implant Surgery

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License		
California Dental License		

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Annual Review	Academy of Operative Dentistry	February 2013
Annual Review	Academy of Restorative Dentistry	February 2013
Annual Review	Academy of Operative Dentistry	February 2012
Annual Review	Academy of Restorative Dentistry	February 2012
Advanced Grafts and Implants	Pikos Institute	November 2011
Annual Review	Academy of Operative Dentistry	February 2011
Annual Review	Academy of Restorative Dentistry	February 2011
Annual Review	ICOI	May 2011
Annual Review	Academy of Operative Dentistry	February 2010
Annual Review	Academy of Restorative Dentistry	February 2010
Advanced Grafts and Implants	Pikos Institute	April 2010
Annual Review	Academy of Operative Dentistry	February 2009
Annual Review	Academy of Restorative Dentistry	February 2009
Annual Review	ICOI	May 2009
Annual Review	Academy of Operative Dentistry	February 2008
Annual Review	Academy of Restorative Dentistry	February 2008
Annual Review	ICOI	May 2008
Annual Review	Academy of Operative Dentistry	February 2007
Annual Review	Academy of Restorative Dentistry	February 2007

Annual Review	ICOI	May 2007
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TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Didactic Orthodontics Clinic Supervision	2007	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Department of Oral and Maxillofacial Surgery, Mount Sinai Medical Center, Cleveland, Ohio	Cleveland	Ohio	1992	1993

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Chicago, IL	Partner, Scheff & Nedvetsky	1994	Present

**MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL
DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE
BOARDS OF DENTISTRY AND CODA**

Name of Organization	Title	From (Year)	To (Year)
Academy of General Dentistry	Member	1993	Present
American Dental Association	Member	1993	Present

Illinois State Dental Society	Member	1994	Present
Chicago Dental Society	Member	1994	Present
Academy of Operative Dentistry	Member	1994	Present
Chicago Dental Forum	Member	2004	Present
International College of Oral Implantology	Member	2005	Present
International College of Oral Implantology	Fellow	2006	Present
International College of Oral Implantology	Diplomate	2009	Present
International Academy of Dental Research	Member	2010	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Handelman CS, Nedvetsky Y, Levine,N	Orthodontists role in dental implant site maintenance.	Moyers Symposium, University of Michigan Press	January, 2010
Hao J, Nedvetsky Y, Galang MTS, Handelman C, Evans CA	A New Orthodontic Force Delivery System in Beagle Dogs	IADR 88th General Session	July, 2010
Hao J, Nedvetsky Y, Galang MTS, Handelman C, Viana G, Evans CA	Comparison of Two Corticotomy Methods for Orthodontic Tooth Movement	IADR 83rd General Session	March, 2011
Hao J, Nedvetsky Y, Galang MTS, Handelman C, Viana G, Evans CA	Comparison of Two Corticotomy Methods for Orthodontic Tooth Movement	89th General Session & Exhibition of the IADR	March, 2011
Hao J, Nedvetsky Y, Galang MTS, Handelman C, Viana G, BeGole E, Evans CA	Orthodontic Tooth Movement with Flapless Corticotomy: a Pilot Study in Beagle Dogs	Orthodontics and Craniofacial Research, submitted for publication	June, 2011

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Nelson J. Oppermann

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Pontifícia Universidade Católica de Campinas (PUCCAMP)	1988	Dental Degree	
Associação dos Cirurgiões-Dentistas de Campinas (ACDC)	1995	Orthodontics Certificate	
SL Mandic Dental School, Campinas ,São Paulo, Brazil	2005	Master Degree in Dentistry	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Brazil Dental License	1989	Present
Brazil Orthodontics License	1990	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
TADS	TADS Application-Robert Vandnsdall	May/2008
Straight Wire Low Friction	Introduction to Mechanics-David Suarez	April/2009
Bioprogressive Symposium	3 day course, Foundation for Modern Bioprogressive	September/2011
Bioprogressive Symposium	2 day course, Foundation for Modern Bioprogressive	September/2012

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)

University of Illinois at Chicago University, College of Dentistry, Chicago, IL.	Visiting Professor	Didactic Orthodontics	2012	Present
An Sinh Hospital , Ho Chi Minh City, Vietnam	Course Director	Orthodontics Specialty Program	2008	2011
São Leopoldo Mandic Dental School, Campinas, SP, Brazil	Course Director	Orthodontics Specialty Program	2005	2008
Associação dos Cirurgiões-Dentistas de Campinas (ACDC), Campinas, SP, Brazil.	Associated Professor	Department of Orthodontics	1995	2008

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Sobrapar Craniofacial Hospital	Campinas, Brazil	SP	1994	1998

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Campinas, São Paulo, Brazil.	Practice Limited to Orthodontics. Av. Francisco Glicério	1990	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Associação dos Cirurgiões-Dentistas de Campinas	Member	1989	Present
Associação Brasileira de Ortodontia	Member	2003	Present
World Federation of Orthodontists	Member	2003	Present

American Association of Orthodontists	Member	2006	Present
Rocky Mountain Orthodontic Study Center	Affiliated Doctor	2007	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Darren Pakravan

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Northwestern University, Evanston, IL	2001	B.A.	Environmental Sciences
University of Illinois at Chicago, Dentistry, Chicago, IL	2002	B.S.	
University of Illinois at Chicago, Chicago, IL	2004	D.D.S,	
Northwestern University, Chicago, IL	2005	Cert. Adv. Grad. Study	General Dentistry
University of Illinois at Chicago, Dept. of Orthodontics, Chicago, IL	2005-2008	Postdoctoral Training	
University of Illinois at Chicago, Chicago, IL	2008	M.S.	Oral Sciences
University of Illinois at Chicago, Chicago, IL	2008	Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	2004	Present
Illinois Dental Specialty License	2008	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

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TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Clinical Supervision Department of Orthodontics	2008	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Chicago, IL	Perla Dental 26th St	2008	Present
Chicago, IL	Archer Dental Care	2008	2010
Wheeling, IL	Star Dental Center	2008	Present
Loves Park, IL	Mulford Dental	2009	Present
Des Plaines, IL	Dental Vue	2010	Present
Chicago, IL	Windy City Orthodontics	2011	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member	2004	Present
Chicago Dental Society	Member	2004	Present
Illinois State Dental Society	Member	2004	Present
American Association of Orthodontists	Member	2008	Present
Illinois Society of Orthodontists	Member	2008	Present
American Dental Education Association	Member	2009	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Ralph N. Robbins

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Illinois at Champaign/Urbana	1971	B.S	
Loyola University, School of Dentistry, Chicago, IL	1975	Doctor of Dental Surgery	
Loyola University, School of Dentistry, Chicago, IL	1977	Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)

University of Illinois at Chicago, Chicago, IL	Assistant Clinical Professor	Clinic Supervision	1995	Present
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CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Buffalo Grove, IL	Orthodontics Private Practice	2005	Present
Chicago, IL	Orthodontics Private Practice	2005	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association	Member		Present
American Association of Orthodontists	Member		Present
Illinois Society of Orthodontists	Member		Present
Chicago Dental Society	Member		Present
Chicago Academy of Dental Research	Member Former President		Present
Chicago Dental Forum	Member Currently Secretary/Treasurer		Present

Implement Study Group	Member		Present
PDL Branch Seattle Study Club	Member		Present
Donated Orthodontic Services	Member		Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Flavio Jose Castelli Sanchez

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Universidade Estadual de Campinas (UNICAMP)	1990	Dental Degree	
Associação dos Cirurgiões – Dentista de Campinas (ACDC)	1995	Certificate	Orthodontics
SL Mandic Dental School, Campinas, SP, Brazil	2005	M.S	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Brazil Dental License	1990	Present
Brazil Orthodontics License	2005	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
TAD'S	TADS Application-Robert Vanarsch	May, 2008
Straight Wire Low Friction	Introduction to Mechanics-David Suarez	April, 2009
Biopressive Symposium	3 day course on Modern Biopressive, Foundation for Modern Biopressive	September, 2011
Biopressive Symposium	Foundation for Modern Biopressive	September, 2012
Self-Ligatino	15 Year Experience with Hideo Suzuki, Foundation for Modern Biopressive	March, 2013

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
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São Leopoldo Mandic Dental School, Campinas, SP, Brazil. Still Teaching	Still Teaching	Department of Orthodontics	2005	Present
Associação dos Cirurgiões-Dentistas de Campinas (ACDC) Campinas, SP, Brazil	Still Teaching	Department of Orthodontics	1995	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, Chicago, IL	Orthodontics	Bioprogressive	48hrs	240hrs
São Leopoldo Mandic Campíñai, Brazil	Master Degree Orthodontics	Bioprogressive	360hrs	148hrs

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Campinas, SP, Brazil	Orthodontics Private Clinic	1990	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Associação dos Cirurgiões-Dentistas de Campina	Professor-Member	1995	Present
Rocky Mountain Orthodontic Study Center	Affiliated Doctor	1998	Present
Associação Paulista dos Especialistas em Ortodontia	Specialist - Member	2005	Present
Associação Brasileira de Ortodontia	Specialist - Member	2007	Present
Society of Orthodontic Educator	Member	2013	Present

ADEA	Member	2013	Present
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PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Robyn R. Silberstein

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Bryn Mawr College, Bryn Mawr, PA	1977-1979		
University of California, Berkeley, Berkeley, CA	1979-1980		
Northwestern University Dental School, Evanston, IL	1980-1984	D.D.S.	
University of Southern California School of Dentistry, Los Angeles, CA	1985-1987	Orthodontic Specialty Certificate	Graduate Orthodontics
University of Southern California, Graduate School, Los Angeles, CA	1985-1990	Ph.D.	Craniofacial Biology

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1984	2013
California Dental License	1986	2013
Illinois Orthodontic Specialty License	1991	2013

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
American Board of Orthodontics	Diplomate	1998
American Board of Orthodontics	Recertification	2006

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Associate Professor	Clinical Supervision	2007	Present
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Clinical Assistant Professor	1998	
Northwestern University, Oral Biology Department, Evanston, IL	Assistant Professor	Assistant Professor	1992	1995
Northwestern University Dental School, Graduate Orthodontic Department, Evanston, IL	Clinical Assistant Professor	Clinical Assistant Professor	1989	1994
Teaching Associate, University of Southern California Dental School, Los Angeles, CA	Teaching Associate	Teaching Associate	1987	1989

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, College of Dentistry, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Drs. Kurt and Robyn Silberstein, Highland Park, IL	Private Practice	1992	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Association of Orthodontists		1985	Present
American Dental Association		1989	Present
Illinois State Dental Society		1989	Present
Chicago Dental Society		1991	Present
Illinois Society of Orthodontists		1994	Present
Midwestern Society of Orthodontists		1994	Present
Angle Midwest Society, E.H. Angle Society		1997	Present
Angle Midwest Study Committee	Chair 2004-2008	2001	Present
American College of Dentists		2003	Present
Angle Midwest	President Elect	2010	Present
Angle Midwest	President	2011	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Hohlt W., Silberstein R.	Die, Mausefalle	Kieferorthopädie 24 4: 289-292	2010
Hohlt W., Silberstein R.	The Mousetrap.	World J Orthod 10:257-260	2010
Silberstein R.	Craniofacial Genetics. Topics in Orthodontics.	Oakstone Medical Publishing Vol. 1, No. 9,	Feb.15 , 2007,

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Tzong-Guang Peter Tsay

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Chung Shan Medical and Dental College, Taichung, Taiwan	1974	Diploma	Dentistry
Marquette University, Milwaukee, Wisconsin	1980	Master of Science and Certificate in Orthodontics	Orthodontics
Northwestern University, Chicago, Illinois,	1984	Doctor of Philosophy	Oral Biology
Case Western Reserve University, Cleveland, Ohio	1985	Doctor of Dental Surgery	

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Republic of China Dental License	1974	Present
Florida Dental License	1983	Present
Northeast Regional Dental Board Examination	1985	Present
Ohio Dental License	1986	Present
Illinois Dental License	1987	Present
Hawaii Dental License	1990	Present
Illinois Orthodontic Specialty License	1998	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
The American Board of Orthodontics	Diplomate	1999

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Chicago, IL, College of Dentistry	Professor of Orthodontics,	Director of Clinical Research, Associate Director of Postgraduate Orthodontic Program	2009	Present
University of Illinois at Chicago, Chicago, IL	Clinical Associate Professor	Clinical Associate Professor of Orthodontics, Associate Professor-Graduate School	2004	Present
MetroHealth Medical Center, Cleveland, Ohio,	Staff Orthodontist		1990	1996
Case Western Reserve University, School of Dentistry; Cleveland, Ohio	Vice- Chairman and Program Director, Assistant Professor	Department of Orthodontics	1988	1990
Case Western Reserve University, School of Dentistry, Cleveland, Ohio	Clinic Director and Assistant Professor	Department of Orthodontics	1984	1988
Marquette University; Milwaukee, Wisconsin	Clinical Assistant Adjunct Professor	Department of Orthodontics	1982	1984
Northwestern University, The Dental School, Chicago, Illinois	Clinical Assistant	Department of Orthodontics	1981	1984

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Research			

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Michael Reese Hospital	Chicago	IL	1982	1984

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
DentalOne Partners, Chicago, Illinois,	Private Practice of Orthodontics, 1day/week	2010	Present
DentalCare Partners, Chicago, Illinois,	Private Practice of Orthodontics	1999	Present
Ortho Group of Illinois, Chicago, Illinois.	Private Practice of Orthodontics	1999	2009
Metrohealth Medical Center, Cleveland, Ohio.	Private Practice of Orthodontics, Department of Dentistry, Staff Orthodontist, Craniofacial Center	1985	1996

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Sigma Xi Scientific Research Society	Member		
Illinois Society of Orthodontists	Member		
Midwestern Society of Orthodontists	Member		
American Association of Orthodontists	Member		

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Kravitz ND, Kusnoto B, Tsay TP, Hohlt WF.	The use of temporary anchorage devices for molar intrusion	Am. Dent. Assn. J138:56-64,	January 2007
Kravitz ND, Kusnoto B, Tsay TP, Hohlt, WF	Intrusion of overerupted upper first molar using two orthodontic miniscrews.	Angle Orthodontists 77:915-922	2007
Tsay TP, Dempsey MA, Oyen OJ.	The effects of Orthognathic surgery on the appearance and age of female patients		Manuscript in preparation

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Maria Grace Costa Viana

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Brazilian Institute of Geography and Statistics	1977	BSc. in Statistics	Statistics
Federal University at Rio de Janeiro, Rio de Janeiro, Brazil	1983	MSc. in Statistics	Statistics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Clinical Research Forum: How Can I Use the UIC Biorepository	OPRS	April, 2013
PHS Rule on Financial Conflicts and UIC Policy on COI	OPRS	Oct, 2012
REDCap (Research Electronic Data Capture)- 101-102 training	CCTS/UIC	Fall, 2012
IRB Pitfalls for Dentistry Protocols	OPRS/COD	July, 2012
The Informed Consent Process for Participation in Research	OPRS	April, 2012
Engagement in Human Subject Research Overview-In Person Training	OPRS	March, 2012
Clinical Trials: Registrations and Results Reporting Requirements	OPRS	May, 2010
Integrity in Science Research	UIC HSPP	July 2009

Intensive Summer	CCTS/UIC	July 2009
Program in Clinical and Translational Research Methods	CCTS/UIC	July 2009

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, Chicago, IL	Instructor	OSCI 594, Topics in Biostatistics	2009	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, Chicago, IL	OSCI 594, Topics in Biostatistics	1	Online	

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Brazilian Council of Statistics	Member	1979	Present

The American Dental Education Association	Member	2006	Present
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PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Yeh C, Kusnoto B, Viana G, Evans CA, Drummond J	"In-vitro evaluation of frictional resistance between brackets with passive-ligations designs."	Am J Orthod Dentofac Orthop. 131:704.e11-704.e22	2007
King K, Evans CA, BeGole E, Viana G, Obrez A.	"Preferences for vertical position of the maxillary lateral incisors."	World J Orthod. 9:147-154	2008
Kravitz ND, Kusnoto B, Agran B, Viana G.	"Influence of attachments and interproximal reduction on the accuracy of canine rotation with invisalign- A prospective clinical study."	Angle Orthod. 78:682-687	2008
De Fellipe N, Da Silveira A, Viana G, Kusnoto B, Smith B, Evans CA.	"Relationship between rapid maxillary expansion and nasal cavity size and airway resistance: Short and long term effects."	Am J Orthod Dentofac Orthop. 134:370-382	2008
De Felipe N, Bhushan N, Da Silveira A, Viana G, Smith B.	"Long-term effects of orthodontic therapy on the maxillary dental arch and nasal cavity."	Am J Orthod Dentofac Orthop. 136:490.e1-490.e8	2009
De Felipe N, Da Silveira A, Viana G, Smith B.	"Influence of palatal expanders on oral comfort, speech, and mastication."	Am J Orthod Dentofac Orthop. 137:48-53.	2010
Castellean C, Pereira P, Viana G, Chen S, Pauli G, Bedran-Russo A.	"Solubility study of phytochemical cross-linking agents on dentin stiffness."	Journal of Dentistry. 1532:1-6.	2010
Al-Twajri S, Viana G, Bedran-Russo A.	"Prophylaxis pastes containing active ingredients effect on the enamel-bracket bond strength of etch-and-rinse and self-etching systems."	Angle Orthod. 83:788-93.	2011
Kwong TS, Kusnoto B, Viana G, Evans CA, Watanabe K.	"The effectiveness of Oraqix versus TAC(a) for placement of orthodontic temporary anchorage devices."	Angle Orthod. 81:7549	2011

Simanca E, Morris D, Zhao L, Reisberg D, Viana G.	“Measuring progressive soft tissue change with nasoalveolar molding using a three dimensional system: a pilot study.”	J Craniofac Surg. 22:1622-25.	2011
Bedran-Russo A, Pashley D, Karol S, Viana G.	“Mechanical strengthening of dentin matrix in carious teeth by collagen-cross-linking strategies.”	European Journal of Oral Sciences. Submitted.	April 2012
Hurley R, Drummond J, Viana G, Galang MT.	“The effects of environment and cyclic fatigue on the mechanical properties of an indirect composite.”	Journal of Dentistry. Accepted	May 2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Lawrence R. Voss

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
Northwestern University, Evanston, IL	1974		
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1976	B.D.Sc	
University of Illinois at Chicago, College of Dentistry, Chicago, IL	1978	D.D.S	
V.A. Hospital and University of Florida, College of Dentistry, Gainesville, FL	1978-1979	General Practice Residency	Orthodontics
Loyola University College of Dentistry, Maywood, IL	1980-1982	Specialty Certificate	Orthodontics

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	1978	Present
Illinois Dental Specialty License	1982	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
The CCO System	Review of technique: Antonio Secchi	February 2013
Practice Transition	Orthodontic Alumni Association of Illinois: multiple speakers	September 2012
Orthodontics...	ISO: Brent Larson	September 2012
Inaugural Biopressive Symposium	Foundation for Modern Biopressive Orthodontics: multiple speakers	September 2012

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Didactic Orthodontics Clinic Supervision	2005	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laborat ory
University of Illinois at Chicago, Department of Orthodontics, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
Omicron Kappa Upsilon	Member	1978	Present
American Dental Association	Member	1979	Present
Illinois State Dental Society	Member	1979	Present

Chicago Dental Society	Member	1979	Present
American Association of Orthodontists	Member	1982	Present
Midwestern Society of Orthodontists	Member	1982	Present
Illinois Society of Orthodontists	Member	1982	Present
World Federation of Orthodontists	Member	1995	Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Li H, Voss L, Masoud A.	“Case Report: Hybrid Hyrax/Quadhelix appliance in the Phase I treatment of Pseudo Class III malocclusion.”	Accepted for publication J World Fed Orthod	February 2013
Galang MT, Sanghavi, A, Patel K, Kusnoto B, Viana G, Voss L, Colville C.	“Treatment effects of Carriere Distalizer™: a cephalometric evaluation.”	Pre-submission edit/review status	February 2013

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Emily M. Williams

Current

Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Yr of Grad.	Certificate or Degree	Area of Study
University of Missouri – Kansas City	2001	B.A., summa cum laude	Biology
University of Missouri- Kansas City	2005	D.D.S., summa cum laude	Dentistry
Children's Memorial Hospital, Northwestern University	2007	Certificate	Pediatric Dentistry
University of Illinois at Chicago	2011	Certificate	Orthodontics
University of Illinois at Chicago	2011	M.S.	Oral Sciences

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
State of Illinois, General Dentist	2006	Present
State of Illinois, Pediatric Dentist	2007	Present
State of Illinois, Orthodontist	2011	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
Diplomate, American Board of Pediatric Dentistry	Pediatric Dentistry	2008
Diplomate, American Board of Orthodontics	Orthodontics	2011

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year
Nasoalveolar Molding Workshop	NYU	September, 2012
Joint Conference for Age Appropriate Treatment of the Developing Occlusion	AAO	January, 2012

TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/ Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago	Clinical Assistant Professor	Craniofacial Anomalies	2012	

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
Ann and Robert H. Lurie Hospital	Clinical Dentistry	Pediatric dentistry PG-1, 2		

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)
Ann and Robert H. Lurie Children's Hospital of Chicago/Northwestern University and McGaw Medical Center, Attending Orthodontist and Pediatric Dentist	Chicago	IL	2011	Present

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)
Chicago, IL	Private practice of pediatric dentistry and orthodontics	2006	Present

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Association of Orthodontists	Member		Present
American Academy of Pediatric Dentistry	Member		Present
American Dental Association	Member		Present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Williams EM, Evans CA, Reisberg DJ, BeGole EA	Nasal outcomes of presurgical nasal molding in complete unilateral cleft lip and palate	Int J Dent 2012; 2012:643896. Epub 2012 Sept 11	2012

BioSketch

Do not attach Curriculum Vitae.
Print or Type Only

Name: Isaac C. Yue
Current
Institution: University of Illinois at Chicago

EDUCATIONAL BACKGROUND (Begin with college level)

Name of School, City and State	Year of Grad.	Certificate or Degree	Area of Study
University of Michigan: Chemical Engineering, Ann Arbor, MI	1998	B.S.E	
Harvard School of Dental Medicine, Boston, MA	2002	D.M.D	
University of Illinois at Chicago College of Dentistry, Chicago, IL	2005	Specialty Certificate	Orthodontics
University of Illinois at Chicago College of Dentistry, Chicago, IL	2005	M.S	Oral Science

LICENSURE

License (Do not include license number)	From (Year)	To (Year)
Illinois Dental License	2002	Present
Illinois Dental Orthodontics Specialty	2005	Present
Wisconsin Dental License	2007	Present

BOARD CERTIFICATION

Certifying Organization	Specialty	Date certified
Northeast Regional Board Dental Certification	Dental	2002
Invisalign Certification		2003
Incognito Certification		2003
American Board of Orthodontics	Diplomate	2006

CE COURSES TAKEN (last 5 years)

Course Title	Course Content and Provider	Month and Year

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TEACHING APPOINTMENTS (Begin with current)

Name of Institution, City and State	Rank	Subjects/Content Areas Taught/Administrative Responsibilities	From (Year)	To (Year)
University of Illinois at Chicago, College of Dentistry, Chicago, IL	Clinical Assistant Professor	Clinic Supervision	2005	Present

CURRENT TEACHING RESPONSIBILITIES

Name of Institution, City, State	Course Title	Discipline and Level of Students (Year)	Total Contact Hours Per Year	
			Didactic	Clinic/Laboratory
University of Illinois at Chicago, College of Dentistry, Chicago, IL				

HOSPITAL APPOINTMENTS (Begin with current)

Name of Hospital	City	State	From (Year)	To (Year)

PRACTICE EXPERIENCE

Location (City and State)	Type of Practice	From (Year)	To (Year)

MEMBERSHIP, OFFICES OR APPOINTMENTS HELD IN LOCAL, STATE OR NATIONAL DENTAL OR ALLIED DENTAL ORGANIZATIONS, INCLUDING APPOINTMENTS TO STATE BOARDS OF DENTISTRY AND CODA

Name of Organization	Title	From (Year)	To (Year)
American Dental Association		1998	Present
Massachusetts Dental Society		1998	2002

American Student Dental Association		1998	2005
American and International Associations for Dental Research		1999	2002
International Association of Student Clinicians		2000	2002
Illinois Society of Orthodontists		2002	Present
American Association of Orthodontists		2002	Present
American Cleft Palate-Craniofacial Association		2003	Present
Chicago Dental Society		2005	Present
American Dental Education Association		2005	present

PUBLISHED WORKS (For the most recent five years, list articles in which you were the principal author that appeared in refereed journals or text books, by author(s), title, publication, and date)

Author(s)	Title	Publication	Date
Yue I, Handelman C, Kusnoto B, BeGole E.	“Relationship Between the Anterior Alveolus with Skeletal and Dental Patterns.”	Angle Orthod. Under Review.	2011

WEEKLY SCHEDULE

CARLA A. EVANS, DDS, DMSc

	M	Tu	W	Th	F
8:30-9:30	Seminar	Seminar	Seminar	Administration	Seminar
9:30-12:30	Teaching, research, administration	Teaching, research, administration	Teaching, research, administration	Teaching, research, administration	Teaching, research, administration
1:30-4:30	Supervise in postgrad ortho clinic	Supervise in postgrad ortho clinic	Teaching, research, administration	Teaching, research, administration	Faculty practice



The University of Illinois
at Chicago

Department of Orthodontics (M/C 841)
College of Dentistry
801 South Paulina Street
Chicago, Illinois 60612-7211

Faculty member
to be rated: _____

Evaluator: _____

Due Date: June 30, 2012

PEER EVALUATION OF LECTURE/LABORATORY TEACHING

Basis of evaluation (indicate materials reviewed, i.e. lab manual, handouts, etc., and description of session observed): _____

Rate the instructor on each of the criteria listed below, using the following scale:

4=strongly agree, 3=agree, 2=disagree, 1=strongly disagree, and n=not applicable/not observed

Under comments, describe notable strengths of the instructor and provide constructive recommendations for improvement. Also, if any item response is marked *1*, please comment.

I. EVALUATION OF WRITTEN MATERIALS (texts, laboratory manual, handouts, etc.)

- a. The text and reading assignments are appropriate.
- b. The laboratory manual/handouts facilitate learning the material covered in lecture.
- c. The laboratory manual/handouts clearly describe projects to be completed in the session.

Comments: _____

II. EVALUATION OF LECTURE

- a. The content of the lecture reflects stated learning objectives.
- b. The content of the lecture is at an appropriate level for the intended audience.
- c. The lecturer emphasizes important points and summarizes effectively.
- d. The material is presented in a logical and organized sequence.
- e. The lecturer is receptive and responsive to the students' questions.
- f. The delivery of the lecture is easily comprehensible.
- g. The lecturer makes appropriate use of instructional materials (slides, overhead, blackboards, handouts, videotapes, etc.)
- h. The material presented is relevant and current.
- i. The lecturer stimulates the students' interest in the subject.

Comments: _____

III. EVALUATION OF LABORATORY SESSION INTERACTIONS

- a. The laboratory instructor reviews the daily project or gives a demonstration at the beginning of each session.

V. OVERALL TEACHING EFFECTIVENESS

A. Lecturer

Comments: _____

B. Laboratory instructor

Comments: _____

C. Course director

Comments: _____

- b. The laboratory instructor is receptive and responsive to the students' questions.

- c. The laboratory instructor gives appropriate feedback.

- d. The laboratory instructor grades fairly and consistently.

- e. The laboratory instructor demonstrates respect for all students.

- f. The laboratory instructor stimulates the students' interest and encourages critical thinking in the subject.

- g. The laboratory instructor provides adequate guidance and assistance to students during the session.

- h. The laboratory instructor monitors the students' progress.

- i. The laboratory assignments are coordinated with lecture.

Comments: _____

IV. COURSE ADMINISTRATION

- a. The course director reviews daily projects and grading procedure with the laboratory instructors.
- b. The course director provides feedback and guidance to the laboratory instructors.
- c. The course director insures that necessary materials are available in the laboratories.
- d. The course director solicits instructor input for improving/updating the course.
- e. The course director responds to feedback on the quality of the course from students and instructors.
- f. The examinations/practices reflect material covered in lecture, reading assignments, and laboratories.

Comments: _____



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Chicago, Illinois 60612-7211

Faculty member
to be rated: _____

Evaluator: _____

Due Date: June 30, 2012

PEER EVALUATION OF CLINICAL TEACHING

Basis of evaluation (indicate materials reviewed, i.e. lab manual, handouts, etc., and description of session observed): _____

Rate the instructor on each of the criteria listed below, using the following scale:

4=strongly agree, 3=agree, 2=disagree, 1=strongly disagree, and n=not applicable/not observed

Under comments, describe notable strengths of the instructor and provide constructive recommendations for improvement. Also, if any item response is marked *1*, please comment.

VI. LEARNING ENVIRONMENT:

- a. Facilitates an intellectually stimulating learning environment.
- b. Fosters a constructive relationship with students.
- c. Deals with all students fairly.

Comments: _____

VII. CONTROL OF SESSION

- a. Is on time for the clinic session.
- b. Is available in the clinic when needed.

Comments: _____

VIII. CLINICAL SKILLS, KNOWLEDGE, AND ATTITUDES

- a. Displays current knowledge of the discipline.
- b. Is receptive and responsive to students' questions or concerns.
- c. Provides adequate guidance and/or hands-on assistance when needed.
- d. Communicates effectively regarding performance of procedures.
- e. Encourages efficient utilization of clinic time in patient treatment.
- f. Maintains acceptable clinical standards of care in treatment of patients.
- g. Provides helpful feedback to students.
- h. Monitors students' progress.
- i. Demonstrates respect for students and patients.
- j. Displays professionalism in interactions, and exemplifies a good role model.

Comments: _____

IX. OVERALL TEACHING EFFECTIVENESS

- a. Is an effective clinical educator.

Comments: _____



2013 Annual Faculty Self-Assessment and Review

This form and the most recent version of your CV should be submitted to your Department Head by May 15, 2013.

Please include all teaching assignments (by semester and course) in your CV submission.

1. Department Choose an item.
2. Name Click here to enter text.
3. Academic Rank Choose an item.
4. Percent Appointment Click here to enter text.%
5. Are you eligible to practice dentistry in the State of Illinois? Yes No
6. If "Yes" to #5, do you provide direct patient care services? Yes No
7. If "Yes" to #6, please indicate:
 - a) Percent time internal to COD Click here %
 - b) Percent time external to COD Click here %
8. Please review your stated goals for the last academic year (Aug 2012- May 2013) as they relate to your teaching, research, scholarship, and service, and summarize your progress toward their achievement.
Click here to enter text.
9. Please itemize your goals for the upcoming academic year (June 2013- May 2014) as they relate to your planned teaching, research, scholarship, and service activities. (e.g. curriculum development, research grant submissions, publications, etc.)
Click here to enter text.

10. Describe how your activities relate to the Vision and Mission statement of the Department and the College of Dentistry (<http://dentistry.uic.edu/about/mission.cfm?m=2&o=2#>).

Click here to enter text.

11. If specialty trained, do you currently have specialty board certification?

Yes No Not Applicable

If yes, what is the specialty board: [Click here to enter text.](#)

If no, are you currently working toward your specialty board certification? Yes No

Please describe your progress toward board certification to date, including an estimated examination date.

Click here to enter text.

12. Please list all continuing education courses taken during the period of June 2012 – May 2013 in the table below. If none, please state.

Course Title	Course content and provider	Month and Year
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.

Please use the space below if you need to add additional courses.

[Click here to enter text.](#)

Faculty Professional Development Needs Assessment – Please assess your needs regarding your professional development.

1. Please list any professional development goals and activities planned for 2013-2014, and include interest/progress toward promotion as outlined in the COD Promotion and Tenure Guidelines (<http://dentistry.uic.edu/depts/facultyAffairs/tenure.cfm?m=2&o=2#>).

Click here to enter text.

2. I have read the COD guidelines and norms for Promotion, and I believe I should be considered for promotion during the 2013-14 cycle. Yes No

3. I feel that I need additional mentors. Yes No

If yes, please indicate type/area of expertise needed.

Click here to enter text.

4. I would like to discuss taking on new roles or committee assignments during the upcoming academic year. Yes No

If yes, please describe.

Click here to enter text.

Faculty Signature

Date

←—————→
Faculty CV, report and developmental program reviewed:

Department Head or Designee Signature

Date

All documents should be maintained in a confidential department file. Supervisor should sign once the review and development process is completed.

Orthodontics Certificate Courses				MS in Oral Sciences Courses			
CRN	COURSE	TITLE	Cr	CRN	COURSE	TITLE	Cr
PGY1 – FALL 2013							
15820	ORTD 595	Seminar on Orthodontics	1	15827	OSCI 451	Research Methodology	1
20610	ORTD 610	Orthodontic Clinic I	4	36716	OSCI 541	Biostats. (Oral Sci.)	3
15844	OSUR 532	Diag./Trtmnt Plan. Orthognathic Surg.	2	16721	OSCI 598	Master's Thesis Research	1*
20615	ORTD 615	Diagnostic Procedures I	4			(with C. Evans)	
20613/20614	ORTD 611	Orthodontic Technique	4				
		Total Credits	15			Total Credits	5
PGY1 – SPRING 2014							
18010	ORTD 595	Seminar on Orthodontics	1	18003	ORTD 513	Craniofacial Growth/Dev.	4
20705	ORTD 610	Orthodontic Clinic I	5	17756/17757	ANAT 544	Adv. Craniofacial Anat.	3
20709	ORTD 615	Diagnostic Procedures I	3	16721	OSCI 598	Master's Thesis Research	2*
		Total Credits	9			Total Credits	9
PGY1 – SUMMER 2014							
14365	ORTD 595	Seminar on Orthodontics	1	16742	OSCI 583	Research Protocol	1
14956	ORTD 610	Orthodontic Clinic I	2	15051	OSCI 534	Med./Dent. Anthro. Evol.	1
14962	ORTD 612	Orthodontic Technique B	2	19701	OMDS 503	Graduate Oral Pathology	2
14959	ORTD 615	Diagnostic Procedures I	2	Varies**	OSCI 598	Master's Thesis Research	3*
16221	OMDS 617	Radiology for the Dental Specialist	1				
		Total Credits	8			Total Credits	7
PGY2 – FALL 2014							
15820	ORTD 595	Seminar on Orthodontics	2	15817/15819	ORTD 524	Craniofacial Anomalies I	2
20616	ORTD 616	Diagnostic Procedures II	2	30376	OSCI 580	Adv. Oral Sciences I/II	2
20611	ORTD 620	Orthodontic Clinic II	8	Varies**	OSCI 598	Master's Thesis Research	2*
27875	OMDS 623	TMJ Disorders	1				
		Total Credits	13			Total Credits	6
PGY2 – SPRING 2015							
18004/18006	ORTD 525	Craniofacial Anomalies II	1	Varies**	OSCI 598	Master's Thesis Research	3*
18010	ORTD 595	Seminar on Orthodontics	2				
20710	ORTD 616	Diagnostic Procedures II	2				
20707	ORTD 620	Orthodontic Clinic II	6				
18011	ORTD 667	Orthodontic Perio. Relationships	2				
		Total Credits	13			Total Credits	3
PGY2 – SUMMER 2015							
14365	ORTD 595	Seminar on Orthodontics	2	Varies**	OSCI 598	Master's Thesis Research	3*
14960	ORTD 616	Diagnostic Procedures II	2				
14961	ORTD 620	Orthodontic Clinic II	3				
		Total Credits	7			Total Credits	3
PGY3 – FALL 2015							
15820	ORTD 595	Seminar on Orthodontics	2	31467	OSCI 581	Adv. Oral Sciences I/II	2
20612	ORTD 630	Orthodontic Clinic III	8	Varies**	OSCI 598	Master's Thesis Research	4*
		Total Credits	10			Total Credits	6
PGY3 – SPRING 2016							
18010	ORTD 595	Seminar on Orthodontics	2	18008	ORTD 537	Biostats. Craniofacial Res.	2
20708	ORTD 630	Orthodontic Clinic III	8	Varies**	OSCI 598	Master's Thesis Research	4*
		Total Credits	10			Total Credits	6

*Select appropriate credit hours when registering

**Permission required (email your Department Business Manager if you encounter problems with OSCI 598 registration)

Fall 2013 - List of required courses taken by orthodontic postgraduate students:

CRN	Course Number	Course Title	Year	Credit Hours	Grades*
18003	ORTD 513	Craniofacial Growth and Development	PG-1	4	G
15817/15819	ORTD 524	Craniofacial Anomalies I	PG-2	2	G
18004/18006	ORTD 525	Craniofacial Anomalies II	PG-2	1	G
18008	ORTD 537	Biostatistics Applied to Craniofacial Research	PG-3	2	G
15820	ORTD 595	Seminar on Orthodontics	PG-1, 2, 3	varies	S/U
20610/20705/ 14956/	ORTD 610	Orthodontic Clinic I	PG-1	varies	G
20611/ 20707/14961	ORTD 620	Orthodontic Clinic II	PG-2	varies	G
20612/20708	ORTD 630	Orthodontic Clinic III	PG-3	varies	G
20613/20614	ORTD 611	Orthodontic Technique A	PG-1	4	G
14962	ORTD 612	Orthodontic Technique B	PG-1	2	G
20615/20709/ 14959	ORTD 615	Diagnostic Procedures I	PG-1	4, 3, 2	G
20616/20710	ORTD 616	Diagnostic Procedures II	PG-2	2	S/U
18011	ORTD 667	Orthodontic-Periodontic Relationships	PG-2	2	S/U
17756/17757	ANAT 544	Advanced Craniofacial Anatomy	PG-1	3	G
19701	OMDS 503	Graduate Oral Pathology	PG-1	2	G
16221	OMDS 617	Radiology for the Dental Specialist	PG-1	1	G
27875	OMDS 623	TMJ Disorders	PG-2	1	S/U
15827	OSCI 451	Research Methodology	PG-1	1	G
15051	OSCI 534	Dental and Medical Anthropology Within Human Evolution	PG-2	1	G
36716	OSCI 541	Biostatistics (Oral Sciences)	PG-1	3	G
30376/31467	OSCI 580/1	Advanced Oral Sciences I, II	PG-2, 3	2	G
16742	OSCI 583	Research Protocol	PG-1	1	G
Varies	OSCI 598	Master's Thesis Research	PG-1, 2, 3	Varies	S/U
15844	OSUR 532	Diagnosis and Treatment Planning In Orthognathic Surgery	PG-1	2	S/U

*G = Grade; S/U = Satisfactory/Unsatisfactory

UIC Catalog: Descriptions of required courses

513 Craniofacial Growth and Development

4 hours. Physiology of the stomatognathic system, behavioral development, implications of craniofacial growth and development, reactions of periodontal tissues to applied force and prevalence; causes of malocclusion. *Prerequisite(s):* Matriculation into the Certificate Program in Orthodontics or M.S. in Oral Sciences program.

524 Craniofacial Anomalies I

2 hours. Introduction to a variety of orofacial clefts, etiology, clinical presentation, growth and development and habilitation via an interdisciplinary team approach. Longitudinal analysis of cases with cleft lip and palate.

525 Craniofacial Anomalies II

1 hours. Introduction to treatment aspects of patients with orofacial clefts and to a variety of craniofacial anomalies, their etiology, clinical presentation, growth and development and habilitation through a team approach. Clinical rotations through the Center for Craniofacial Anomalies. *Prerequisite(s): ORTD 524.*

537 Biostatistics Applied to Craniofacial Research

2 hours. Multivariate statistical techniques applied to craniofacial growth research. *Prerequisite(s): ORTD 523 and a basic univariate statistics course.*

595 Seminar in Orthodontics

1 TO 2 hours. Presentations by selected guest lecturers on research or clinical material relating to matters of interest to the Department of Orthodontics. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 13 hours. *Prerequisite(s): Enrollment in the orthodontics postgraduate or oral sciences graduate program.*

610 Orthodontic Clinic I

0 TO 10 hours. Clinical patient examination, record taking, diagnosis and treatment planning for a variety of pre-selected malocclusions. Orthodontic therapy subsequently follows. May be repeated to a maximum of 11 hours. *Prerequisite(s): Matriculation into the Advanced Certificate in Orthodontics program.*

611 Orthodontic Technique A

4 hours. Development of manipulative skills for orthodontic practice. Instruction in the biomechanics of orthodontic force systems and application to mechanotherapy. Discussion of various orthodontic treatment strategies. *Prerequisite(s): Matriculation into the Advanced Certificate in Orthodontics program.*

612 Orthodontic Technique B

2 hours. Continuation of ORTD 611 discussing orthodontic treatment modalities and strategies. Also reviews the historical development of orthodontic appliances. *Prerequisite(s): ORTD 611.*

615 Diagnostic Procedures I

0 TO 10 hours. A seminar and investigative series to familiarize the student with various diagnostic techniques used in orthodontic case analysis and treatment planning. May be repeated to a maximum of 9 hours. *Prerequisite(s): Enrollment in the Advanced Certificate in Orthodontics program.*

616 Diagnostic Procedures II

0 TO 10 hours. Presentation and discussion of clinical cases at various stages of orthodontic

treatment and post-treatment, utilizing various diagnostic records. Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 6 hours. *Prerequisite(s): ORTD 615.*

620 Orthodontic Clinic II

0 TO 10 hours. Transfer cases are assigned covering active, retention and posttransfer cases. Screenings are conducted in examination of new patients. May be repeated to a maximum of 17 hours. *Prerequisite(s): ORTD 610.*

630 Orthodontic Clinic III

0 TO 10 hours. Supervision of patients in all stages of treatment and post-treatment visits. Participation in TMJ and CFA programs and visit to offices of practicing orthodontists. May be repeated to a maximum of 16 hours. *Prerequisite(s): ORTD 620.*

667 Orthodontic-Periodontic Relationships

2 hours. A seminar series discussing the effects of orthodontic treatment of periodontal tissues; the indications and rationale for performing periodontal procedures as an adjunct to orthodontic therapy; the objectives of orthodontic tooth movement in the adult, especially for periodontal considerations. Satisfactory/Unsatisfactory grading only. *Prerequisite(s): Satisfactory completion of the first year of the Advanced Certificate in Orthodontics or Advanced Certificate in Periodontics postgraduate program.*

ANAT 544 Advanced Craniofacial Anatomy

3 hours. Functional and clinical aspects of head and neck anatomy, based on detailed laboratory dissection, original readings, and project work. *Prerequisite(s): Any human gross anatomy course or the equivalent.*

OMDS 503 Graduate Oral Pathology

2 hours. Oral pathology for postgraduate students will cover the clinical and microscopic features of pathologic changes linked to oral-dental and systemic diseases. *Prerequisite(s): OMDS 424 or the equivalent. Recommended background: Prior academic coursework including biology, histology and other related sciences.*

OMDS 617 Radiology for the Dental Specialist

1 hours. Characteristics of disease are presented in terms of selecting the proper imaging modality and establishing a differential diagnosis. Advanced diagnostic imaging systems are evaluated for diagnostic yield. Specific references to slides and class notes will be available at <http://intranet/depts/radio/index.htm>. *Prerequisite(s): Professional standing limited to students in Advanced Certificate Programs.*

OMDS 623 Temporomandibular Disorders

1 hours. The anatomical, physiological, and psychological basis for temporomandibular (TM) disorders is presented. Differential diagnosis and treatment of TM disorders. Satisfactory/Unsatisfactory grading only. *Prerequisite(s): Enrollment in a dental postgraduate certificate program in dentistry.*

OSCI 541 Statistics for Oral Sciences

3 hours. Prepares students enrolled in the Master of Science in Oral Sciences for the thesis research project. Students learn how to collect, organize and analyze data and apply this knowledge and skill to future research projects. Extensive computer use required. The course is taught in an online format.

OSCI 451 Research Methodology

1 hours. Designed to help the student understand, utilize and appreciate the process of scientific inquiry. Primarily intended for students enrolled in the Master of Science in Oral Sciences degree program. *Prerequisite(s):* Matriculation into the Master of Science in Oral Sciences program, or courses in basic biological sciences or the equivalent background and consent of the instructor.

OSCI 534 Dental and Medical Anthropology Within Human Evolution

1 TO 3 hours. Studies the biological and physical anthropology of hominid teeth and the craniofacial complex with relevant medical anthropology, ethno-pharmacoacology, forensic sciences, and paleo-pathology topics. Same as ANTH 534 and PMPG 534. Field work required. A lab experience, independent study and a research paper is required for 3 hours of credit. *Prerequisite(s):* Graduate standing and consent of the instructor.

OSCI 580 Advanced Oral Sciences I

2 hours. Discussion follows presentation of faculty research. Topics include developmental and molecular biology, tissue engineering, genetics and structural biology in tandem with cutting-edge dental technology.

OSCI 581 Advanced Oral Sciences II

2 hours. Continuation of OSCI 580. *Prerequisite(s):* OSCI 580.

OSCI 583 Research Laboratory Rotation

1 TO 4 hours. Students participate directly in laboratory research; learn to approach a scientific problem and to perform various experimental techniques to investigate the problem. May be repeated to a maximum of 6 hours.

OSCI 598 Master's Thesis Research

0 TO 16 hours. Thesis research to fulfill master's degree requirements. Satisfactory/Unsatisfactory grading only. May be repeated. *Prerequisite(s):* Matriculation into the Master of Science in Oral Sciences program and consent of the director of graduate studies.

OSUR 532 Diagnosis and Treatment Planning in Orthognathic Surgery

2 hours. Orthodontic surgical topics of practical interest to orthodontists and oral and maxillofacial surgeons. Satisfactory/Unsatisfactory grading only. *Prerequisite(s):* Enrollment in a certificate program in the College of Dentistry or approval of the department.

Autumn 2013 - Thursdays 7:30 – 8:30 AM, Room 501

Lecture Schedule – TM Disorders Course (Postgraduate)

Course Director: C.S. Greene; Lecturer: A. Obrez

September 5 - TMJ Anatomy and Function - DISK Derangements	Obrez
September 12 - Orientation Lecture – Changing Concepts in the TMD field	Greene
September 19 - History and Examination Procedures	Greene
September 26 - Neurophysiology of Pain – Acute vs Chronic	Greene
October 3 - Etiology of TMDs – Impact on Treatment	Greene
October 10 - TM Joint Disorders – Clinical Signs and Symptoms	Obrez
October 17 - Masticatory Muscle Disorders – Clinical Signs and Symptoms	Obrez
October 24 - Psychosocial Issues in TMD and Co-Morbid Conditions	Greene
October 31 - Oral Appliance Therapy – Indications and Limitations	Greene
November 7 - Screening Your Dental Patients for TMDs	Greene
November 14 - Mandibular Repositioning – Theories & Cases	Greene
November 21 - Clinical Management of TMD Patients – Simple vs Complex	Greene
NOVEMBER 28 - THANKSGIVING	
December 5 – Occlusion, the TMJ, and TM Disorders	Obrez
December 12 or 19 – Final Exam	

SPRING SEMESTER (dates to be announced)

Treatment of TM Joint Disorders – Cases and Discussion	Greene & Obrez
Treatment of Myogenous Problems – Cases and Discussion	Greene & Obrez
Oral Surgery Lectures – Drs. R. Hussain and J. Jamali	
Anesthesia/ Pain Management Lecture - Dr. N. Hussain	
Physical Therapy for TMD Conditions Lecture – Dr. A. Duncombe	

TEXTBOOK (Required): Greene, CS and Laskin, DM (Editors):

Treating TMDs – Bridging the Gap between Advances in Research and Clinical Patient Management. Quintessence Publishing Co, 2013.

ORTD 513 -- Craniofacial Growth and Development

3 credit hours

Course Director: Dr. Carla Evans

Spring 2013

Thursdays, 1:30 pm - 4:30 pm

Department of Orthodontics, Room 138

Textbook References

- Enlow, DH and Hans, M. *Essentials of Facial Growth*. W.B. Saunders Co., 1996
- Graber, LW, Vanarsdall, RL, Vig K, eds. *Orthodontics: Current Principles and Techniques*, ed. 5, Philadelphia: Mosby; 2012.
- Proffit, WR, *Contemporary Orthodontics*, ed. 4, St. Louis: Mosby; 2007.

Journal Articles/Other

- References are organized by seminar date
- Dr. Stone will provide a handout packet the day of his first seminar

Seminar	Date	Topic	Faculty
1	November 29, 2012	Introduction Basic Concepts In Growth & Development	Lippincott
		<ul style="list-style-type: none"> • Proffit, pp 27-43, 107-111. • Enlow, pp. 99-110. • Lecture and discussion 	
2	December 6	Basic Concepts in Craniofacial Growth & Development	Lippincott
		<ul style="list-style-type: none"> • Carlson, DS. Theories of craniofacial growth in the postgenomic era. <i>Semin Orthod</i> 11:172-183, 2005 • Thilander B. Basic mechanisms in craniofacial growth. <i>Acta Odont Scand</i> 53:144-151, 1995. • Walker, GF and Kowalski, CJ. The distribution of the ANB angle in "normal" individuals. <i>Angle Orthod</i> 41:332-335, 1971. • Proffit, pp. 43-58. • Graber, pp. 215-220 • Lecture, and discussion 	
3	December 13	Embryology of the Head	Luan/Evans
		<ul style="list-style-type: none"> ▪ Avery, JK. <i>Oral Development and Histology</i> 3rd Ed., Thieme, Stuttgart. Chapter 2, Development of the pharyngeal arches and face and palate, pp 21-43; Chapter 3, Development of cartilage and bone of the craniofacial skeleton, pp. 42-60, 2002. ▪ Levi B, Wan DC, Wong VW, Nelson E, Huyn J, Longaker MT. Cranial suture biology: From pathways to patient care. <i>J Craniofac Surg</i> 23:13-19, 2012. ▪ Passos-Bueno MR, Ornelas CC, Fanganiello RD. Syndromes of the first and second pharyngeal arches: A review. <i>Am J Med Genet Part A</i> 139A:1853-1859, 2009. ▪ Bush JO, Jiang R. Palatogenesis: morphogenetic and molecular mechanisms of secondary palate development. <i>Development</i> 139:231-243, 2012. ▪ Minoux M, Rijli FM. Molecular mechanisms of cranial neural crest cell migration and patterning in craniofacial development. <i>Development</i> 137:2605-2621, 2010. ▪ Caton J, Tucker AS. Current knowledge of tooth development: patterning and mineralization of the murine dentition. <i>J Anat</i> 214:502-515, 2009. ▪ Lecture and discussion 	
4	December 20	Cranial Base	Lippincott

- Bjork, A. Cranial base development. Am J Orthod 41:98-225, 1955 (do not spend time on the statistics!)
 - Enlow, pp. 99-110.
 - Graber, pp. 217-224 (cranial vault and base)
 - Proffit, pp. 43-44
- Resident presentation and discussion

	December 27	Holiday Break – no seminar	
5	January 3, 2013	Maxilla	Lippincott
		<ul style="list-style-type: none"> • Bjork, A. Sutural growth of the upper face studied by the implant method. Trans Eur Orthod Soc 40:1-17, 1964. • Enlow, DH and Bang, S. Growth and remodeling of the human maxilla. Am J Orthod 51:446-464, 1965. • Graber, pp. 224-229. • Enlow, pp. 79-96. • Proffit, pp. 44-46 and 111-113 <p>Resident presentation and discussion</p>	
6	January 10	Mandible I	Lippincott
		<ul style="list-style-type: none"> • Enlow, DH and Harris, DB. A study of the post-natal growth of the human mandible. Am J Orthod 50:25-50, 1964. • Graber, pp. 229-238. • Enlow, pp. 57-77. • Proffit, pp. 113-118 • Bjork, A. Variations on the growth pattern of the human mandible: Longitudinal radiographic study by the implant method. J Dent Res 42 (Supplement 1):400-411, 1963. <p>Resident presentation and discussion</p>	
7	January 17	Mandible II	Lippincott
		<ul style="list-style-type: none"> • Bjork, A and Skieller, V. Normal and abnormal growth of the mandible: A synthesis of longitudinal cephalometric implant studies over a period of 25 years. Eur J Orthod 5:1-25 and 40-44, 1983 • Skieller, V, Bjork, A and Linde Hansen, T. Prediction of mandibular growth rotation evaluated from a longitudinal implant sample. Am J Orthod 86:359-379, 1984. • Lee, R, Daniel, F, Schwartz, M, Baumrind, S, and Korn, E. Assessment of a method for prediction of mandibular rotation. Am J Orthod Dentofac Orthop 91:395-402, 1987. <p>Resident presentation and discussion</p>	
8	January 24	Structure/Function of Periodontium Biology of Tooth Movement	Evans
		<ul style="list-style-type: none"> ▪ Avery, JK. <i>Oral Development and Histology</i> 3rd Ed., Thieme, Stuttgart. Chapter 13. Histology of the periodontium: alveolar bone, cementum, and periodontal ligament, pp. 226-242; Chapter 21. Histologic changes during tooth movement, pp 364-374, 2002. ▪ Diravidamani K, Sivaligam SK, Agarwal V. Drugs influencing orthodontic tooth movement: an overall review. J Pharm BioAllied Sciences 4(Suppl 2): S299-S303, 2012. ▪ Ariffin SHZ, Yamamoto A, Abidin IZZ, Wahab RMA, Ariffin ZZ. Cellular and molecular changes in orthodontic tooth movement. TheScientificWorldJOURNAL 11, 1788-1803, 2011. ▪ Edwards, JG. A surgical procedure to eliminate rotational relapse. Am J Orthod 57:35-46, 1970. ▪ Brudvik, P and Rygh P. Multi-nucleated cells remove the main hyalinized tissue and start resorption of adjacent root surfaces. Eur J Orthod 16:265-273, 1994. ▪ Lecture and discussion 	

9	January 31	Skeletal Muscle Soft Tissue	Druzinksy Lippincott
		<ul style="list-style-type: none"> ▪ Subtelny, DA. Longitudinal study of soft tissue facial structures and other probable characteristics, defined in relation to underlying skeletal structures. <i>Am J Orthod</i> 45:481-507, 1959. ▪ Ricketts, R. Esthetics, environment, and the law of lip relation. <i>Am J Orthod</i> 54:272-289, 1968. ▪ Nanda, RS, et al., Growth changes in the soft tissue facial profile. <i>Angle Orthod</i> 60:177-190, 1991. ▪ Proffit, pp. 119-120 ▪ Graber, pp. 240-241 ▪ Resident presentation and discussion 	
10	February 7	Review	Lippincott
11	February 14	Periodontal Regeneration	Luan
		<ul style="list-style-type: none"> ▪ Sasikumar, KP, Elavarasu S, Gadagi JS. The application of bone morphogenetic proteins to periodontal and peri-implant tissue regeneration: A literature review. <i>J Pharm & Bioallied Sci</i> 4 (Suppl 2): S427-S430, 2012. ▪ Ivanovski S. Periodontal regeneration. <i>Aust Dent J</i> 54:(1 Suppl): S118-S128, 2009. 	
		Epidemiology of Malocclusion	Evans
		<ul style="list-style-type: none"> ▪ Brunelle JA, Bhat M, Lipton JA (1996). <i>Prevalence and Distribution of Selected Occlusal Characteristics in the US Population, 1988-1991</i>. <i>J Dent Res</i> 75 (Spec Issue) ▪ National Health Survey: An Assessment of the Occlusion of the Teeth of Children 6-11 Years. Series 11-No.130. DHEW Pub. No. (HRA) 74-1612. Health Resources Administration, National Center for Health Statistics, Rockville, Md. U.S. Government Printing Office, November, 1973. ▪ National Health Survey: An Assessment of the Occlusion of the Teeth of Youths 12-17 Years. Series 11-No.162. DHEW Pub. No. (HRA) 77-1644. Health Resources Administration, National Center for Health Statistics, Rockville, Md. U.S. Government Printing Office, February 1977. ▪ Lecture and discussion 	
12	February 21	Development of Occlusion I	Lippincott
		<ul style="list-style-type: none"> ▪ Marks, SC Jr., and Schroeder, HE. Tooth Eruption: Theories and Facts. <i>The Anatomical Record</i> 245:374-393, 1996. ▪ Baume, LJ. Physiological tooth migration and its significance for the development of occlusion: I. The biogenetic course of the deciduous dentition. <i>J Dent Res</i> 29:123-132, 1950. ▪ Baume, LJ. Physiological tooth migration and its significance for the development of occlusion: II. The biogenesis of accessional dentition. <i>J Dent Res</i> 29:331-337, 1950. ▪ Baume, LJ. Physiological tooth migration and its significance for development of the occlusion: III. The biogenesis of the successional dentition. <i>J Dent Res</i> 29:338-348, 1950. ▪ Resident presentation and discussion 	
13	February 28	Development of Occlusion II	Lippincott
		<ul style="list-style-type: none"> ▪ Bishara, S, Hooper, BJ, Jakobsen, JR and Kohout, FS. Changes in the molar relationships between deciduous and permanent dentition: A longitudinal study. <i>Am J Orthod Dentofac Orthop</i> 93:19-28, 1988. ▪ Bishara, SE, Treder, SE, Damen, P and Olsen, M. Changes in the dental arches and dentition between 25 and 45 years of age. <i>Angle Orthod</i> 66:417-422, 1996. ▪ Moorrees, CFA, Gron, A, Lebret, LML, Yen PKJ and Frohlich, FJ. Growth studies of the dentition: A review. <i>Am J Orthod</i> 55:600-616, 1969. 	

- Solow, B. The dentoalveolar compensatory mechanism: Background and clinical implications. *Brit Orthod* 7: 145-161, 1980.
- Bjork, A and Skieller, V. Facial development and tooth eruption. *Am J Orthod* 62:339-383, 1972.
- Bjork, A. The significance of growth changes in facial pattern and their relationship to changes in occlusion. *Dent Rec* 71:197-208, 1951.
- Resident presentation and discussion

	March 7	Research Day -- no seminar	
14	March 14	Development of Malocclusion	Lippincott
		<ul style="list-style-type: none"> ▪ Enlow, DH. Normal variation in facial form and anatomic basis for malocclusion. In: <i>Essentials of Facial Growth</i>. Ch. 10, pp. 166-199, W.B. Saunders Co., 1996. ▪ Brodie, AG. Muscular factors in the diagnosis and treatment of malocclusions. <i>Angle Orthod</i> 23:71-77, 1953. ▪ Proffit, WR. Equilibrium theory revisited: Factors influencing the position of the teeth. <i>Angle Orthod</i> 48:175-186, 1978. ▪ Proffit, chap 5. ▪ Resident presentation and discussion 	
15	March 21	Growth and Treatment	Lippincott
		<ul style="list-style-type: none"> • Coben, SE. The biology of Class II treatment. <i>Am J Orthod</i> 59:470-487, 1971. • Ackerman, JL and Proffit, WR. Treatment responses as an aid in diagnosis and treatment. <i>Am J Orthod</i> 57:490-496, 1970. • Graber, pp. 240-243. • Proffit pp. 352-357 • Mair, AD and Hunter, WS. Mandibular growth direction with conventional Class II non-extraction treatment. <i>Am J Orthod Dentofac Orthop</i> 101:543-579, 1992. • Resident presentation and discussion 	
	March 28	Spring Break – no seminar	
16	April 4	Human Psychological Development I	Stone
		<ul style="list-style-type: none"> • Lecture, discussion • Handouts provided by Dr. Stone 	
17	April 11	Human Psychological Development II	Stone
		<ul style="list-style-type: none"> • Lecture, discussion • Handouts provided by Dr. Stone 	
18	April 18	Growth From Birth to Adulthood	Lippincott
		<ul style="list-style-type: none"> • Enlow, chapter 3. • Bambha, JK. Longitudinal cephalometric roentgenographic study of the face and cranium in relation to body height. <i>J Am Dent Assoc</i> 63: 776-799, 1961. • Behrents, R. Growth in the aging craniofacial skeleton. Monograph 17, Craniofacial Growth Series, Center for Human Growth and Development, University of Michigan, pp. 99-128, 1985. • Lecture, resident presentation and discussion 	
19	April 25	Examination	

Revised 11/27/2012

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than “B” in all courses. Students who earn a final grade of “C” or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for

determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

ORTD 524, Craniofacial Anomalies I

Course: Craniofacial Anomalies I, ORTD 524
Semester: Fall
Credit Hours: 2 Credit hours
Faculty: Dr. Carla Evans, Dr. Indru Punwani, Dr. Michael Miloro, Richard Dineen, Dr. Heba Bakhsh, Dr. Sheela Raja, Dr. Phimon Atsawasawan, Dr. Jason Jamali, Dr. Emily Williams and Dr. George Syros.
Class: Second year Orthodontic postgraduate students and second year Pediatric Dentistry residents

Course Director: Dr. Doa Dada
Updated: August 12, 2012

Course Description ORTD 524:

This course is an introduction to the etiology, classification, clinical presentation, growth and development and interdisciplinary management of patients with cleft lip and palate.

Course Objectives

The purpose of the fall semester course (ORTD 524) is to introduce the students to orofacial clefts and the methodologies used for their management and rehabilitation through an interdisciplinary team approach. Students will be provided with a broad overview of biology with specific application to craniofacial abnormalities. In the process, knowledge beyond routine dental and orthodontic diagnosis is acquired. Basic information about the embryology, etiology, pathogenesis, anatomy, classification and functional problems associated with orofacial clefts is presented in this lecture series.

Lecture Topics

Lecture topics vary considerably and include sessions related to Genetics and Genetic Counseling, Embryology, Etiology, Pathogenesis, Anatomy and Classification of Cleft Lip and Palate, Psychosocial Considerations, Orthodontic Considerations and Cleft Orthognathic Surgery.

Throughout this course students are expected to be able to:

1. Understand and discuss the information presented on the embryological, morphological, physiological and psychosocial aspects of Oral clefts.
2. Gain skills in dental and orthodontic diagnosis as well as in craniofacial growth and development as it relates to the Cleft Lip and Palate patient.
3. Learn what are the available resources and new techniques for the surgical and orthopedic management of Cleft Lip and Palate patients.
4. Learn the multidisciplinary and long term care needed by patients affected with Cleft Lip and Palate.
5. Understand longitudinal craniofacial growth and development of patients with clefts.
6. Have proper insights in specific aspects involved in the orthodontic treatment of Cleft patients.

COURSE INFORMATION

Prerequisites

Enrollment in a specialty certificate program in the College of Dentistry. Other potential students should consult with Dr. Dada about attending the class.

Expectations

Each student is expected to **attend all** scheduled lectures and actively participate in discussions as well as complete all quizzes, presentations and assignments in a timely manner.

Examination and Grading:

Grades will be determined using the following criteria:

- Attendance 20%
 - Attendance to all classes is **mandatory**
- Final exam 45%
 - A **written final exam** at the end of the semester (details will be announced closer to exam date)
 - A **make-up** exam will be allowed to students who miss the final exam for a reasonable cause (as determined by the course director). The make-up exam may be written, oral or in any other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course.
- Quizzes 15%
 - **Two quizzes** will be given during the fall semester.
 - Quizzes are multiple choice questions based on lecture material.
 - Both quizzes will be given from **7:30 to 7:40**.
 - Quiz 1: Tuesday, **October 2nd**, 2012. Quiz 1 will be based on lectures 1, 2, 3 and 4.
 - Quiz 2: Tuesday, **November 6th**, 2012. Quiz 2 will be based on lectures 5,6,7,8 and 9.
 - If quizzes are missed, **No remediation or make-up quizzes** will be given to residents.
- Class assignments 10%
 - After each session, the instructor or course director may assign an activity based on the subject being discussed.
 - There will be **no extension** to assignments' deadline.
- Residents' Presentations 10%
Residents will be divided to groups of two or three and are required to present a **clinical case** with a craniofacial anomaly preferably a cleft lip and palate case.
- Peer evaluation 5%
At the end of the academic year, each resident will complete a self and peer evaluation.
- Final evaluation:
A=90 to 100%, B=80 to 89%, C=70-79%

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

Announcements, assignments, references and reading material:

Students enrolled in this course are required to log in to blackboard periodically (as often as twice a week) as announcements, assignments and reading material will be announced in class and/or on blackboard.

Recommended Textbooks

- Berkowitz, S. **Cleft Lip and Palate With an Introduction to Other Craniofacial Anomalies – Perspectives in Management** (Two-Volume Set), 1995. Singular Publishing Group.
- Cohen, M. **Mastery of Plastic and Reconstructive Surgery** (Three-Volume Set), 1994. Little Brown & Co.
- Millard, R. **Cleft Craft: The Evolution of Its Surgery** (Three volumes), 1980. Little, Brown & Co.
- Bentz, M. **Pediatric Plastic Surgery**, 1997. McGraw-Hill Professional.
- Posnick: **Craniofacial and Maxillofacial Surgery in Children and Young Adults** (Two volume sets), 1999. Saunders (W.B.) Co Ltd.

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than “B” in all courses. Students who earn a final grade of “C” or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

SCHEDULE – Fall 2012

Department of Orthodontics, COD Room 138 (Ricketts Room)

Tuesdays from 7:30am to 8:30am

Tuesday 09/04/2012 7:30-8:30am	Lec. 1 7:30-8am 8-8:30am	Course Overview, Organization and Expectations Introduction to the Craniofacial Team	Dr. Doa Dada
Tuesday 09/11/2012 7:30-8:30am	Lec. 2	Genetics and Genetic Counseling	Richard T. Dineen
Tuesday 09/18/2012 7:30-8:30am	Lec. 3	Embryology, Etiology, Pathogenesis, Anatomy and Classification of Cleft Lip and Palate.	Dr. Phimon Atsawasawan
Tuesday 09/25/2012 7:30-8:30am	Lec. 4 7:30-8am 8-8:30am	Craniofacial Growth Psychological Considerations	Dr. Doa Dada Dr. Sheila Raja
Tuesday 10/02/2012 7:30-8:30am	Lec. 5	Cleft Infant Procedures	Dr. Sheldon Rosenstein
Tuesday 10/09/2012 7:30-8:30am	Lec. 6	Surgical Management of Cleft Lip and Palate	Dr. Jason Jamali
Tuesday 10/16/2012 7:30-8:30am	Lec. 7	Alveolar Bone Grafting	Dr. Michael Miloro
Tuesday 10/23/2012 7:30-8:30am	Lec. 8	Cleft Orthognathic Surgery	Dr. Jason Jamali
Tuesday 10/30/2012 7:30-8:30am	Lec. 9	Orthodontic Considerations	Dr. Carla Evans
Tuesday 11/06/2012 7:30-8:30am	Lec. 10	Residents' Presentations	Residents
Tuesday 11/13/2012 7:30-8:30am	Lec. 11	The Child with Birth Defect	Dr. Indru Punwani
Tuesday 11/20/2012 7:30-8:30am	Lec. 12	Nasoalveolar Molding	Dr. Emily Williams
Tuesday 11/27/2012 7:30-8:30am	Lec. 13	Facial Prosthetics	Dr. George Syros
Tuesday 12/04/2012 7:30-8:30am	Lect 14	Long-term Orthodontic Outcomes for Cleft Patients	Dr. Sheldon Rosenstein
Tuesday 12/11/2012 7:30-8:30 am	Lect 15	Final Exam	

ORTD 524, Craniofacial Anomalies I

Course: Craniofacial Anomalies I, ORTD 525
Semester: Fall
Credit Hours: 1 Credit hours
Faculty: Dr. Carla Evans, Richard Dineen, Dr. Heba Bakhsh, Dr. Sarah Gordon

Class: Second year Orthodontic postgraduate students and second year Pediatric Dentistry residents

Course Director: Dr. Doa Dada
Updated: January 12, 2013

Course Description ORTD 525:

This course is an introduction to the etiology, classification, clinical presentation, growth and development and interdisciplinary management of patients with craniofacial anomalies.

Course Objectives

The purpose of this course is to introduce the student to a variety of craniofacial anomalies and syndromes; their etiology, clinical presentation, growth and development and the methodologies used for their re-habilitation through an interdisciplinary team approach. Postgraduate and graduate students will be provided with a broad overview of biology with specific application to craniofacial abnormalities. In the process, it is expected that the knowledge required in routine dental and orthodontic diagnosis is enhanced and a satisfactory clinical expertise is achieved.

Basic information on the embryology, etiology, pathogenesis, anatomy, classification and functional problems associated with craniofacial anomalies are presented in this lecture series. Guest speakers and members of a craniofacial team are invited to present their expertise to the students.

At the conclusion of this course the learner will be able to:

1. Understand and discuss the information presented on the embryological, morphological, physiological and psychosocial aspects of several craniofacial syndromes.
2. Gain skills in dental and orthodontic diagnosis as well as craniofacial growth and development as it relates to the craniofacial anomalies patient.
3. Learn what are the available resources and new techniques for treatment of craniofacial anomalies patients.
4. Learn the multidisciplinary and long term care needed by patients affected with craniofacial syndromes.
5. Have good insight in specific aspects involved in orthodontic treatment of craniofacial syndromic patients.

COURSE INFORMATION

Prerequisites

Enrollment in a specialty certificate program in the College of Dentistry. Other potential students should consult with Dr. Dada about attending the class.

Expectations

This is a 1-credit/hour course. The faculty expects each student to **attend all** scheduled lectures and rotation appointments.

Examination and Grading

The grading system has four categories: (1) performance evaluations, (2) instructor's observations, (3) varied experiences, and (4) student self-evaluation.

1. Performance evaluations:
 - a. Written examinations with different weights –
 - i. Written final exam (grades are normalized according to the class performance)
 - b. Product examination –

ORTD 524, Craniofacial Anomalies I

- i. Essay (describing your experience with a craniofacial patient. It should include details on your clinical and treatment planning experience and a final paragraph on self-evaluation)
- 2. Instructors' observations:
 - a. Daily evaluation –
 - i. Dr. Dada will evaluate you based on your attendance in the clinic and your manner with the patients and CFC staff
 - b. Patient presentation –
 - i. Dr. Dada will evaluate you based on your ability to elaborate treatment plans
- 3. Varied experiences:
 - a. Craniofacial rotation at Lurie Hospital. –
 - i. Residents must work-up pre-treatment records of patients and develop a treatment plan to be approved by Dr. Williams.
 - b. Chair side assistance –
 - i. Residents must assist the orthodontist at Lurie, as well the pediatrician and the surgeons
- 4. Student self-evaluation:
 - a. Portfolio –
 - i. Essay's final paragraph comparing their judgment of knowledge before and after this course

Letter grades will be assigned such that the mean grade will equal 'B', and the other grades will be determined on the basis of the deviation from the mean. However, the faculty reserves the right to issue a failing grade to any student who fails to attain a normalized score of at least 65.

Any student, who misses the final examination for a reasonable cause, as determined by the course director, will be allowed to take a make-up examination. This examination may be written, as described above, or oral, or in some other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course. There will be no extension to the essay's deadline; one point will be taken off for each day of delay in the delivery of the essay.

Examination and Grading:

Grades will be determined using the following criteria:

- Attendance 20%
 - Attendance to all classes is **mandatory**
- Final exam 45%
 - A **written final exam** at the end of the semester (details will be announced closer to exam date)
 - A **make-up** exam will be allowed to students who miss the final exam for a reasonable cause (as determined by the course director). The make-up exam may be written, oral or in any other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course.
- Quizzes 15%.
- Class assignments 10%
 - After each session, the instructor or course director may assign an activity based on the subject being discussed.
 - There will be **no extension** to assignments' deadline.
- Residents' Presentations 10%
Residents will be divided to groups of two or three and are required to present a **clinical case** with a craniofacial anomaly preferably a cleft lip and palate case.
- Peer evaluation 5%

ORTD 524, Craniofacial Anomalies I

At the end of the academic year, each resident will complete a self and peer evaluation.

- Final evaluation:
A=90 to 100%; B=80 to 89%, C=70-79%

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

Announcements, assignments, references and reading material:

Students enrolled in this course are required to log in to blackboard periodically (as often as twice a week) as announcements, assignments and reading material will be announced in class and/or on blackboard.

Lecture	Reading
1. Speech considerations for patients with orofacial clefts	Dalston RM. Velopharyngeal impairment in the orthodontic population. <i>Semin Orthod.</i> 1996 Sep;2(3):220-7.
2. Orthodontic considerations for asymmetries	http://www.cleftlippalate.org/index.html
3. Craniofacial syndromes I	Kahl-Nieke B, Fischbach R. Effect of early orthopedic intervention on hemifacial microsomia patients: an approach to a cooperative evaluation of treatment results. <i>Am J Orthod Dentofacial Orthop.</i> 1998 Nov;114(5):538-50.
4. Craniosynostosis	Will be updated
5. Craniofacial syndromes II	Takashima M, Kitai N, Murakami S, Takagi S, Hosokawa K, Kreiborg S, Takada K. Dual segmental distraction osteogenesis of the midface in a patient with Apert syndrome. <i>Cleft Palate Craniofac J.</i> 2006 Jul;43(4):499-506.
6. Craniofacial syndromes III	Posnick JC, Ruiz RL. Treacher Collins syndrome: current evaluation, treatment, and future directions. <i>Cleft Palate Craniofac J.</i> 2000 Sep;37(5):434.
7. Audiology and ear problems in cleft patients	Cleft Palate Craniofac J. 1998 Jan;35(1):26-34. Imai Y, Matsuo K, Imai N. Resonance imaging of the eustachian tube cartilage in microtia. <i>Cleft Palate Craniofac J.</i> 1998 Jan;35(1):26-34.
8, 9. Hemifacial microsomia and craniofacial reconstruction	Werler MM, Sheehan JE, Hayes C, Padwa BL, Mitchell AA, Mulliken JB. Demographic and reproductive factors associated with hemifacial microsomia. <i>Cleft Palate Craniofac J.</i> 2004 Sep;41(5):494-50.
10. Clinical Genetics: A general Overview	Will be updated
11. Down's syndrome	Will be updated

SCHEDULE – Spring 2013

Department of Orthodontics, COD Room 139 (Ricketts Room)
 Tuesdays from 7:30am to 8:30am

Jan 15 Tuesday 7:30-8:30am	Lec. 1	Speech Considerations for Patients with Orofacial Clefts	Dr. Melanie Lakic
Jan 22 Tuesday 7:30-8:30am	Lec. 2	Down's Syndrome	Dr. Danielle Bauer
Jan 29 Tuesday 7:30-8:30am	Lec. 3	Craniofacial Syndromes I	Dr. Sarah Gordon
Feb 5 Tuesday 7:30-8:30am	Lec. 4	Orthodontic Considerations for Asymmetries	Dr. Carla Evans
Feb 12 Tuesday 7:30-8:30am	Lec. 5	Craniofacial Syndromes II	Dr. Sarah Gordon
Feb 19 Tuesday 7:30-8:30am	Lec. 6	Craniofacial Syndromes III	Dr. Sarah Gordon
Feb 26 Tuesday 7:30-8:30am	Lec. 7	Audiology and Ear Problems in Cleft Patients	Ms. Lisa Weber
March 5 Tuesday 7:30-8:30		No Lecture	
March 6 Wednesday 7:00-8:30am	Lec. 8 & 9	Hemifacial Microsomia and Craniofacial Reconstruction	Dr. Arun Gosain
March 12 Tuesday 7:30-8:30am		No Lecture	
March 19 Tuesday 7:30-8:30am	Lec. 10	Clinical Genetics: A General Overview	Mr. Richard Dineen
March 26 Tuesday 7:30-8:30		Spring Break	
April 2 Tuesday 7:30-8:30am	Lec. 11	Case Presentations	Residents
April 9 Tuesday 7:30-8:30am	Lec. 12	Case Presentations	Residents
April 16 Tuesday 7:30-8:30am	Lec. 13	Final Exam	Dr. Dada

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than “B” in all courses. Students who earn a final grade of “C” or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

ORTD 537, Biostatistics Applied to Craniofacial Research

Course: Biostatistics Applied to Craniofacial Research, ORTD 537
Course Coordinator: BeGole
Semester: Fall, Spring, Summer Updated: April 23, 2013
Credit Hours: First, Second, and Third Years – Total of 2 credit hours
Faculty: BeGole, Viana
Class: First Year, Second Year, Third Year

Course Description

This seminar meets occasionally during each term of the three years of study. It consists of presentations and discussions of statistical topics not regularly covered in other courses, and may include guest lecturers on occasion.

Course Objectives

The purpose of this course is to interrelate biostatistics with orthodontics in order to promote correct interpretation of the literature. It is also intended to guide the postgraduate students with the basic information needed for their own research. Basic information on statistics may be presented. Guest speakers are occasionally invited to present their expertise to the postgraduate students.

Method of Student Evaluation

The grading system has two categories: (1) performance evaluations based on participation; and (2) instructor's observations based on attendance and being on time for the class. A standard grade is given based upon attendance and quality of participation.

Seminar Topics

Seminar topics vary considerably and include sessions related to protocol and thesis preparation, statistical analyses as found in literature, orthodontic controversies, orthodontic education.

At the conclusion of this course, the student will be able to:

- 1.** Understand and evaluate literature.
- 2.** Interrelate to presentations in other seminars.
- 3.** Understand the author=s interpretation of articles.
- 4.** Be better prepared to present their own research with appropriate interpretation and conclusions.

COURSE INFORMATION

Prerequisites

Enrollment in the Master of Science in Oral Sciences program and the Orthodontic certificate program.

Expectations

This is a 2-credit/hour course which extends over the entire time of residency. Each student is expected to attend all scheduled lectures and to participate actively in all discussions.

Examination and Grading (Measurement of Competency)

The grading system has two categories: (1) performance evaluations based on participation and (2) instructor=s observations based on attendance and being on time for the class. Grades will be assigned at the end of the 3-year course.

References and Reading Lists

Reading assignments and other course materials are posted on Blackboard.

1. 05/19/2012
Protocol preparation.
2. 06/09/2012
Thesis formatting.
3. 07/10/2012
Publishing a manuscript.
4. 08/07/2012
Thesis preparation.
5. 09/18/2012
Science News: No proof found that gum disease causes heart disease or stroke. Sci Daily, April 18, 2012.
6. 12/18/2012
Dolce C, Mansour DA, McGorray SP, Wheeler TT. Intrarater agreement about the etiology of Class II malocclusion and treatment approach. Am J Orthod Dentofacial Orthop 141(1):17-23, January 2012.
7. 02/05/2013
Bayne SC, McGurney GP, Mazer SC. Scientific composition and review of manuscripts for publication in peer-reviewed dental journals. J Prosthet Dent 89:201-218, February 6, 2003.
8. 02/26/2013
Graduate College Thesis Manual; Thesis Instructions
9. 03/05/2013

Pandis N. The P value problem. Am J Orthod Dentofacial Orthop 143:150-151, 2013.

10. 04/16/2013

Wiranto MG, Engelbrecht WP, Nolthenius HE, Van der Meer WJ, Ren Y. Validity, reliability, and reproducibility of linear measurements on digital models obtained from intraoral and cone-beam computed tomography scans of alginate impressions. Am J Orthod Dentofacial Orthop 143:140-147, 2013.

Grading:

Grading is based on attendance, class participation and completion of assignments.

Remediation:

Anyone with an excused absence or illness should meet with Dr. BeGole.

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than “B” in all courses. Students who earn a final grade of “C” or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

ORTD 595, Seminar on Orthodontics

Course: Seminar on Orthodontics, ORTD 595
Semester: Fall, Spring, Summer
Credit Hours: First Year – One (1) each term; Other Classes – Two (2) each term
Faculty: All faculty
Class: First Year, Second Year, Third Year

Course Coordinator: Evans
Updated: July 10, 2012

Course Description

This seminar series consists of presentations, discussions, didactic seminars, and debates on topics not regularly covered in the other courses, and includes guest lectures. Some presentations are held within the department while others may be held at sites off campus. Subject matter ranges from clinical orthodontics and literature reviews to research and subjects allied with orthodontics. The three orthodontic classes may meet together or separately as is needed.

Course Objectives

The purpose of this course is to provide a forum at the beginning of each workday for the free exchange of information and ideas that are essential to the development of a well-informed and well-rounded orthodontic clinician. The course is planned so that graduates of the orthodontic specialty program will be well-versed in all aspects of orthodontics. The course format is flexible to permit enrichment opportunities as well as inclusion of topics that don't fit well in the traditional ORTD courses. Some of the sessions are assigned to orthodontic residents so that they can improve their presentation skills.

Method of Student Evaluation

Attendance and completion of assignments are mandatory.
A pass/fail (S/U) grade is given and based upon attendance, completion of assignments, quality of presentations and participation, and passing all examinations.

Seminar Topics

Seminar topics vary considerably and include sessions related to orthodontic texts, biomechanics, research, clinic management, treatment strategies, ethics, orthodontic materials, early treatment (with Pediatric Dentistry), pain control in orthodontics, orthodontic education, dental and orthodontic practice, organized dentistry, orthodontic controversies, treatment modalities preferred by individual faculty, review of journal articles, etc.

At the conclusion of this course the learner will be able to:

1. To discuss contemporary issues in orthodontic practice, orthodontic education, and orthodontic research.
2. Understand and apply details of biomechanics, orthodontic materials, timing of treatment, and other seminar topics to clinical orthodontic practice.
3. Present material in a clear and professional manner.

COURSE INFORMATION

Prerequisites

Graduation as a general dentist.

Expectations

The faculty expects each student to **attend all** scheduled lectures and actively participate in discussions as well as complete any assignments in a timely manner.

Examination and Grading (Measurement of Competency)

The grading system has four categories: (1) performance evaluations, (2) instructors' observations, (3) varied experiences, and (4) student self-evaluation.

ORTD 595, Seminar on Orthodontics

1. Performance evaluations:
 - a. Written examinations with different weights
 - i. Written exams as given by instructors
 - b. Completion of assignments
2. Instructors' observations:
 - a. Daily evaluation
 - i. Each instructor will evaluate the resident based on the attendance in the class and participation in group discussion
 - b. Assignment
 - i. Each instructor will evaluate the resident based on completion of assignment with acceptable quality and timely manner.
3. Varied experiences:
 - a. Class assignments
 - i. After each session the instructor may assign an activity based on the subject being discussed. Assignments will be graded accordingly.
 - b. Quizzes and final exams
 - i. The understanding of each subject being taught may be assessed during and at the end of the term.
4. Student self-evaluation:
 - a. Hands on exercises
 - b. Student reports
 - c. Product examination
 - i. Essay (describing the experience with a final paragraph on self-evaluation)

Any student, who misses an examination for a reasonable cause, as determined by the course director, will be allowed to take a make-up examination. This examination may be written, as described above, or oral, or in some other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course. If an essay is assigned, there will be no extension to the essay's deadline.

References and Reading Lists

Reading assignments and other course materials are posted on Blackboard.

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

See separate files for short courses:

1. First Year Gruber Seminars
2. Invisalign Classes
3. Orthognathic Surgery Seminars
4. Third Year Advanced Topics Course
- 5.

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UIC Orthodontic Seminar Series – 3rd Year Residents

Advanced Topics 2013

Spring Semester '13

Faculty: Dr. John H. Kelsey

<u>Date</u>	<u>Discussion Topic</u>
1/3/13	Preparing for Practice Dan Welch, CPA – guest speaker <ul style="list-style-type: none">• Associating/contracts• Buying/Practice Valuation• Partnerships• Starting out from scratch
1/10/13	Preparing for Practice (cont.) Dan Welch, CPA – guest speaker
1/17/13	Planning and Construction of an Orthodontic Office Dr. Kelsey
1/24/13	Phase I Orthodontic Treatment Dr. Kelsey – clinical cases
1/31/13	Functional Appliances (ref.: Growth Modification: What Works, What Doesn't and Why, U of M Craniofacial Growth Series, Vol. 35) <u>Article</u> – Johnston, Growing Jaws for Fun and Profit: A Modest Proposal: U of M Craniofacial Growth Series, Vol. 35: 63-86. Dr. Ahrens
2/7/13	Guidance of Eruption (ref.: Graber and Vanarsdall, Orthodontics: Current Principles and Techniques: Chapter 6) <u>Article</u> – Dale, Orthodontics: Current Principles and Techniques: Chapter 6 – Guidance of Eruption. Dr. Obaisi

2/14/13

Management of Impacted Teeth

Article – McNamara, Orthodontics and Dentofacial Orthopedics, Chapter 24: Kokich and Mathews, Impacted Teeth: Orthodontic and Surgical Considerations.

Dr. D'Agostini

2/21/13

Retention Protocols

Dr. Li

2/28/13

Orthodontic Emergencies

Article – Guidelines for the management of traumatic dental injuries (International Association of Dental Traumatology)

Dr. Washington

3/7/13

No Class (Research Day)

3/14/13

Managing TMD in an orthodontic office

Article - Seeking Relief from TMD by Charles Greene; pp 34-41, Dentistry and Oral Health magazine. www.deardoctor.com.

AAO TMD History Form

Dr. Masoud

3/21/13

No Class (Spring Break)

3/28/13

3D-Imaging(CBCTscanning)/Digital Impressions (I-Tero) - overview

Dr. Al-Amir

4/4/13

SureSmile – overview

Dr. Smith

4/11/13	No Class (Debate)
4/18/13	Residents Visits to Private Practices Dr. Li
4/25/13	Determining Fees/Insurance in Orthodontics Dr. Kelsey
5/2/13	Fee for Service VS Managed Care in Orthodontics Dr. Kelsey

Outcome assessment:

1. Attendance
2. Participation in discussion
3. Answering questions
4. Presentation: thorough overview of the topic, supporting references, relevance to clinical practice,

Summary of the Ethics Curriculum for Orthodontic Residents
2007 to present
Faculty: Zane F. Muhl

Preamble

The ethics curriculum for Orthodontic Residents draws primarily from three ethical codes, namely:

- The American Dental Association *Principles of Ethics and Code of Professional Conduct*,
- *Core Values Adopted by the American College of Dentists*, and the
- *Principles of Ethics and Code of Professional Conduct* of the American Association of Orthodontists

Additionally, portions of the *Illinois Dental Practice Act* have been used to illustrate how certain ethical principles may also carry the force of law. However, the main focus of the ethics curriculum has been to identify and discuss situations where simply “following the rules” is an insufficient guide to ethical decision making and ethical behavior.

The primary method of delivery of the ethics curriculum in Orthodontics has been through lecture presentations and discussion during morning seminars (ORTD 595) where all residents and faculty are present and able to participate.

The following is a brief overview of the presentations given during the past several years.

Overview of Ethical Principles and Codes

1. Spring 2007 (part 1)
 - Power Point presentation covering the basic ideas that underpin professional principles and codes.
 - a. Definitions of ethics and morals
 - b. The nature of the self-regulating profession of dentistry and subsequent need for ethical standards for its practitioners
 - c. A review of the ADA *Principles of Ethics*:
 - i. Patient Autonomy (“self-governance”)
 - ii. Nonmaleficence (“do no harm”)
 - iii. Beneficence (“do good”)
 - iv. Justice (“fairness”)
 - v. Veracity (“truthfulness”)
 - d. A review of Core Values Adopted by the American College of Dentists
 - i. Autonomy
 - ii. Beneficence
 - iii. Compassion

- iv. Competence
 - v. Integrity
 - vi. Justice
 - vii. Professionalism
 - viii. Tolerance
 - ix. Veracity
- e. An overview of *Principles of Ethics and Code of Conduct* of the American Association of Orthodontists, consisting of three parts:
 - i. Preamble
 - ii. Six Principles
 - 1. Members shall be dedicated to providing the highest quality orthodontic service to the public.
 - 2. Members shall seek to maintain and improve their orthodontic knowledge and skill.
 - 3. Members shall recognize and uphold the laws as they apply to governing the practice of orthodontics in their jurisdiction.
 - 4. Members shall deal honestly with patients, colleagues and third parties.
 - 5. Members shall insure that no communications are false, deceptive or misleading in any material respect when utilizing public statements, announcements of service and promotional activities for providing information to aid the public, patients and other health care providers in making informed judgments.
 - 6. Members shall be dedicated to generating public confidence in the orthodontic specialty by improving the quality and availability of orthodontic care to the public.
 - iii. Advisory Opinions
- f. Ethical Reasoning
 - i. The fact that words such as, “codes,” “principles,” and “core values” are used to describe ethical behavior strongly suggests that we often do not have hard and fast rules, or examples, for all situations. Rather, these statements are the foundation upon which our ability to employ sound ethical reasoning is based.
 - g. Specific examples of disciplinary actions taken by the state board against dentists for violating The Illinois Dental Practice Act.
 - h. Emphasizing that most ethical problems deal with matters that rise well above the minimum standards of law and dental practice acts.
 - i. Thus, the need to be able to use principles of ethical reasoning to reach a course of action that meets ethical standards.
 - j. Finally, a reminder that ethical reasoning at its core requires dentists to make the best interests of the patient the foremost concern.

Overview of Ethical Principles and Codes (continued)

2. Spring 2007 (part 2)

Power Point presentation covering ethical situations in orthodontic practice

- a. Situations were drawn from the *Ethics Videotape Manual*, American Association of Orthodontists, 2000. Panelists were: Drs. Larry Jerrold, Bruce Peltier, Eldon Bills, Scott Jamieson, James Ackerman (moderator), and Mr. Randall Berning. They are as follows, with the relevant AAO Principle given in parenthesis.
 - i. Patient rejects your comprehensive treatment plan, stating that s/he "only wants the front teeth straightened." (I)
 - ii. You dismiss a patient in mid-treatment who is far behind in payments. (I)
 - iii. An orthodontic colleague presents gifts to referring dentists and refuses to participate in continuing education programs. (II)
 - iv. An orthodontist allows auxiliaries to perform duties not permitted by state law. (III)
- b. Each of the above scenarios was presented in outline form, residents were asked for their ideas of how to deal with the situation, and then we talked about how the panelists suggested each situation might be handled.
- c. In a number of instances both residents and panelists came up with more than one possibility, illustrating the difficulties and ambiguity of reaching an ethical course of action.

Ethical Principles and Codes and Access to Orthodontic Healthcare

3. Fall 2008

Two PowerPoint presentations, the first a brief review of ethical codes of dentistry and orthodontics, and the second a much longer discussion that dealt primarily with Principle IV of the AAO Code: Members shall be dedicated to generating public confidence in the orthodontic specialty by improving the quality and availability of orthodontic care to the public (Access to Care), and Advisory Opinions B, F, and O.

- a. First part of a two-hour presentation and discussion on access to health care. The following topics were covered in greater depth than indicated here.
 - i. Why access matters to the health of a nation's citizens
 - ii. Measurement of healthcare outcomes in various countries
 - iii. Factors affecting access to care in the U.S. and other developed countries
 - iv. Health care delivery systems in developed nations
 - v. Economic factors in health care delivery
 - vi. Ethical dilemmas in health care delivery

- vii. Is access to health care a right for all?
4. Winter 2009
 - a. Second hour, dealing specifically with access to oral health care
 - i. Oral health care represents only a small fraction of health care expenditures in the U.S.
 - ii. Ethical statements and white papers dealing with access to oral health services
 - iii. Comparison of stated goals to actual care rendered
 - iv. Impediments to receiving oral health
 - v. Attempts to find “outside of the box” solutions to unmet needs
 - vi. Contrasts between an oral health professional’s obligations [as stated in codes of ethics] and availability of oral health care
 - vii. An example of a [non-governmental] method to increase access to orthodontic care

Obligation to Consider General Health of our Patients

5. Early Fall 2009
 - a. Video, *More Than Sad*, American Foundation for Suicide Prevention, 2009, New York, NY
 - b. This 20 minute film is a professionally-produced and authoritative look at signs and symptoms of depression in adolescents.
 - c. The remainder of the hour was taken up by a spontaneous discussion amongst the orthodontic residents and faculty
 - d. The ethical implications of this topic consist of the need for recognition of emotional disorders in teens, and where indicated, an appropriate response to depression in our orthodontic patient population.

Ethical and Legal Imperatives in Oral Health Care Delivery

6. Late Fall 2009 (*Ethics*—PowerPoint presentation)
 - a. First of a two-hour series on ethical and legal imperatives in oral health care delivery
 - i. Examples of ethical lapses by corporate officials and public leaders (not specific to healthcare)
 - ii. Why ethical codes are needed in addition to laws and rules governing [oral] health care delivery
 - iii. Ways to lose your license to practice [in Illinois]
 - iv. How well do we teach ethical behavior in dental school?
 - v. Synopsis of ADA and AAO ethical codes
 - vi. Contrast between ethical decision-making and following legal imperatives in dental practice
 - b. Second hour, dealing first with two articles from the published literature

1. Mouradian, Wendy E., M. Lena Omnell, Bryan Williams, *Ethics for orthodontists*. Angle Orthod 1999; 69(4):295-299.
2. Mouradian, Wendy E., *Making decisions for children*. Angle Orthod 1999; 69(4):300-305.
- ii. These two articles discuss the ethical issues that arise when the dentist's ethical imperative to act in the best interest of a child patient may be in conflict with the preferences of the parents.
- iii. Orthodontic residents were asked to read both articles prior to class, and come prepared to discuss them.
- iv. The first article details a specific clinical situation; the second addresses the topic in a more general way
- v. The discussion occupied the first half of the hour.
- vi. The second half of the hour continued the *Ethics* PowerPoint presentation, this part focusing on child abuse.
 1. Facts and figures on child abuse
 2. Reporting requirements for health care providers
 3. When and how to make a report in Illinois (requirements vary by state)

Fall 2010 Sessions on Ethics—specific subject(s) are presently under consideration

7. Fall (*Basics of Ethics*—PowerPoint presentation)
 - a. One hour overview of professional ethics
 - b. What are the rules governing professional practice?
 - c. If you are not willing or able to follow rules and laws, then you do not belong in this profession!
 - d. Following the rules
 - i. Laws governing civil* and criminal conduct codify the minimum standard you must meet as a citizen
 - ii. Laws governing your professional license codify the minimum standard that you must meet as a licensed health professional
 - e. But what do laws have to do with ethics?
 - i. The **Principles of Ethics and Code of Conduct of the American Association of Orthodontists** specifically require that you follow the law, thus, if you don't follow the law, you are also being unethical.
 - f. Laws are generally clear and unambiguous—you break 'em, you lose in some defined manner
 - g. For example:
 - i. **SPRINGFIELD - The Illinois Department of Financial and Professional Regulation (IDFPR)** announced today that the Acting Director of Professional Regulation, Donald W. Seasock signed the following disciplinary orders in the month of **March 2010**.

- ii. **Sergius Rinaldi, Springfield** – dental license (019-015749) indefinitely suspended and fined \$10,000 and dental specialty license (021-000943) and controlled substance license (319-005396) indefinitely suspended due to a felony conviction in US District Court.
- h. So as a first step to being an ethical health care professional:
 - i. **Know and follow the law.**
 - ii. So, if I follow the law, I'm an ethical professional? No, not really
 - iii. In fact, laws represent the bare minimum standard to which any citizen must adhere
 - iv. Professionals are held to a much higher standards which are spelled out in our codes of professional ethics
 - v. Ethical codes tell us to **do the right thing**, but, It is often unclear just what is "**the right thing**."
 - vi. In other words you may have choices, none of which would break a law or violate a rule--Which should you choose?
- i. ADA *Principles of Ethics^{*} and Code of Professional Conduct*
 - i. **Principles:**
 1. Patient Autonomy ("self-governance")
 2. Nonmaleficence ("do no harm")
 3. Beneficence ("do good")
 4. Justice ("fairness")
 5. Veracity ("truthfulness")
- j. Ethics in everyday professional practice, or how do you resolve an ethical problem?
 - i. Here are 3 types of ethical reasoning
 1. Follow the rules
 2. Do what everyone else does
 3. Choose the best course of action after a systematic analysis of your ethical choices using (The 5 Step Model Of Ethical Reasoning, modified by Anne Koerber, DDS, PhD, from Ozar, David and David Sokol, *Dental Ethics at Chairside*, Chapter 6)
 - k. The 5 Steps Of Ethical Reasoning
 - i. can lead you to the best choice
 - ii. can lead you to a better choice.
 - l. The 5 Steps Of Ethical Reasoning are:
 - i. Identify all possible actions
 - ii. Throw out illegal or unethical ones
 - iii. Discover which norms of dental practice remaining actions uphold
 - iv. Compare these actions to your personal values
 - v. Order the actions from best to worst and then choose the first
 - m. Norms of dental practice
 - i. Normative
 1. **Guild model** Dentist decides what is best for the patient.

2. **Interactive model**—Patient autonomy is respected, and a treatment plan is negotiated by the patient and dentist.
- ii. Non-normative
 1. **Commercial model**—dentist's aim is to make a profit.
 2. **Consumerism model**—dentist does as directed by the patient.
- n. Oh, and just a couple of other points,
 - i. Often there is more than one “**right thing**,” which may require you to make a difficult and painful choice, and
 - ii. Not uncommonly, one may be confronted with **two or more equally bad choices**. (One of several possible definitions of a dilemma)
8. Fall exercises using The 5 Steps Of Ethical Reasoning to solve scenarios that may be encountered in clinical practice
 - a. Each resident was given 3 scenarios to be completed outside of class (homework)
 - b. Drs. Lippincott and Muhl met with each class for one hour to discuss the resident's responses to the scenarios
 - c. The written responses were collected at the end of the hour, and can be found in the folder, “2010_11_exercises.”

Fall 2011 Sessions on Ethics—these sessions were presented in January of 2012 due to an already full schedule in the fall of 2011

9. January 2012 (*Ethics for Oral Health Care Professionals* PowerPoint Presentation)
 - a. What does it mean to be a member of a profession?
 - b. People outside of the health professions often have ethical problems that make news.
 - i. Illustrating that in some instances, ethical lapses by well-known individuals and/or institutions are considered newsworthy and receive attention in the media
 - c. The ethical problems of health professionals in general, and dentists in particular
 - i. News article documenting ethical behavior medical in the presence of medical students and residents faculty in the course of delivering patient care
 - ii. A “tour” the Illinois Department of Financial and Professional Regulation website which allows anyone to look up whether a dentist or other professional licensed by the state has been subject to disciplinary action
 - d. The imperative to know and understand some rules that describe what is, and is not, ethical
 - e. The ADA Principles of Ethics and Code of Professional Conduct
 - f. The American Association of Orthodontists Principles of Ethics

- g. Examples of unethical conduct that has led to fines, suspensions, and license revocations of dentists in Illinois
 - i. Improper handling of prescription drugs
 - ii. Improper billing/Insurance fraud
 - iii. Substance abuse
 - iv. Non-renewed license/Unlicensed practice
 - v. Improper record keeping
 - vi. Faulty treatment
 - vii. Criminal conviction (Sex Offender)
 - viii. Failure to pay taxes\
10. January 2012, Announcement that each class of residents will meet with Drs. Lippincott and Muhl for a one hour session to solve an ethical issue in class (open book, using the ADA and AAO codes, as well as the Illinois Dental Practice Act, and the UIC College of Dentistry document, Academic Professionalism for Students). The written responses that each resident gave were collected at the end of the hour and can be found in the folder, "2011_12_exercises."

Seminars in Orthodontics: ORTHO 595 Gruber Seminar- Brodie Library 2012

Thursdays- 8:30am to 9:30am Faculty: Dr. Muhl

Chapter Assignment	Faculty/Resident	Date
Chapter 1: The Decision Making Process in Orthodontics	Dr. Saud Al Hasawi	September 6, 2012
Chapter 2: Special Considerations in Diagnosis and treatment Planning	Dr. Piotr Barysenka	September 13, 2012
Chapter 4: Craniofacial Imaging in Orthodontics	Dr. Jenifer Caplin	September 20, 2012
Chapter 5 and 6: Genetics and Upper Airway and Morphology	Dr. Cara Conroy	September 27, 2012
Chapter 9: Tissue Reactions in Orthodontics	Dr. Erin Dobbins	October 4, 2012
Chapter 10: Bone Physiology, Metabolism, and Biomechanics in the Orthodontic Practice	Dr. Salma Ghoneim	October 11, 2012
Chapter 11: Application of Bioengineering in Clinical Orthodontics	Dr. Whitney Mostafiz	October 18, 2012
Chapter 12: Biomechanical Considerations with Temporary Anchorage Devices	Dr. Robert Swartz	October 25, 2012
Chapter 13: Interceptive Guidance of Occlusion with Emphasis on Diagnosis	Dr. Katherine Stevens	November 1, 2012
Chapter 14: Optimizing Orthodontic and Dentofacial Orthopedic Treatment timing	Dr. Saud Al Hasawi	November 8, 2012
Chapter 15: The Tweed Merrifield Approach; Techniques and Treatment	Dr. Piotr Barysenka	November 15, 2012
Thanksgiving	Thanksgiving	November 22, 2012
Chapter 17: Self Ligation Bracket Applications in Orthodontics	Dr. Cara Conroy	November 29, 2012
Chapter 20: Integrating Digital and Robotic Technologies: Diagnosis, Treatment Planning, and Therapeutics	Dr. Erin Dobbins	December 6, 2012
Chapter 21 : Bonding in Orthodontics	Dr. Salma Ghoneim	December 13, 2012
Chapter 22: Non-Extraction Treatment "Cetlin Mechanics"	Dr. Whitney Mostafiz	December 20, 2012

Seminars in Orthodontics: ORTD 595, Graber Seminar
 Brodie Library, Thursdays, 8:30am to 9:30am, Spring 2013
 Faculty: Drs. Greene, Muhl, and Nedvetsky

Please note changes in the list of presenters.

Chapter Assignment	Faculty/Resident	Date
CHAPTER 15 Standard Edgewise: Tweed-Merrifield Philosophy, Diagnosis, Treatment Planning, and Force Systems	Dr. Robert Schwartz	January 3, 2013
Chapter 7: Orthodontic Therapy and the TMD Disorder Patient (Brief review) Orthodontic Therapy and TMD Disorders: Should the Orthodontist even care? Jeffrey Okeson, Moyers Symposium	Dr. Charles Greene (Moderator) Dr. Piotr Barysenka Dr. Erin Dobbins	January 10, 2013
Intersections between Orthodontists and the TMJ	Dr. Charles Greene	January 17, 2013
Chapter 20: Non-Extraction Treatment “Cetlin Mechanics”	Dr. Katherine Stevens	January 24, 2013
A. Introduction to Bone Biology (Review Chapter 6)	Dr. Yana Nedvetsky	January 31, 2013 *8:00am to 9:30 am
B. Bone Biology Osteoimmunology	Dr. Yana Nedvetsky	February 7, 2013 *8:00am to 9:30 am
C. Biology of Bone Remodeling in Orthodontic Tooth Movement	Dr. Yana Nedvetsky	February 14, 2013 *8:00am to 9:30 am
D. Clinical Application of Biological Principles of Orthodontic Tooth Movement	Dr. Yana Nedvetsky	February 21, 2013 *8:00am to 9:30 am
D. Resident Presentations	Dr. Yana Nedvetsky	February 28, 2013 *8:00am to 9:30 am
Clinic & Research Day		March 7, 2013
Chapter 21 (4th Edition): Treatment Options for Sagittal Corrections in Noncompliant Patients	Dr. Saud Al Hasawi	March 14, 2013
Spring Break	Spring Break	March 21, 2013
Chapter 25: Orthodontic Aspects of Orthognathic Surgery	Dr. Jenifer Caplin	March 28, 2013
Chapter : Craniofacial Distraction Osteogenesis	Dr. Cara Conroy	April 4, 2013
Debate	Debate	April 11, 2013
Chapter 26: The Orthodontists' Role in Cleft Palate Care	Dr. Whitney Mostafiz	April 18, 2013
Final Examination	Faculty	April 25, 2013 *8:00am to 9:30 am
Chapter 27: Stability, Retention and Relapse Chapter 19: Clear Aligner Treatment	Dr. Robert Schwartz Dr. Salma Ghoneim	May 2, 2013
Chapter 28: Biomaterials in Orthodontics	Dr. Jennifer Caplin	May 9, 2013
Break Week		

*Note 8:00am start time

Course:	ORTD 595 Seminar on Orthodontics (Invisalign Treatment)
Course Directors:	Robyn Silberstein, DDS, PhD
Course Time:	Friday 9:30-12:30, Friday 8:30-9:30 as scheduled
Office Hours:	Friday 12:30pm-1:30pm, as scheduled
Credit Hours:	Invisalign certification
Prerequisites:	Graduation as a general dentist

Course Description

The purpose of the course is to introduce the principles of patient selection, treatment planning, ClinCheck evaluation/communication and the logistics of Invisalign treatment as applied to orthodontic treatment. Students will learn approaches to planning predictable and efficient orthodontic treatment integrating aligner therapy. Students will be expected to read and critique background material in assigned textbooks, journal articles and case presentations for seminar discussions.

Course Objectives:

1. Patient Selection; understand current views of patient behavior and adherence as well individual case treatment planning
2. Invisalign Protocol; learn the management of submitting cases, virtual planning, refining and retaining aligner cases
3. Clinical procedures; learn the clinical management of PVS impressions, digital scans, interproximal reduction, attachments and aligner wear
4. ClinChecks; learn effective communication with the ClinCheck technicians to achieve realistic and desired tooth movements as well as understanding how to review ClinChecks using a check list
5. Troubleshooting; decide what means to employ when aligners don't track
6. Consultation; understand import aspects of the consultation appointment and informed consent for orthodontic treatments including aligner therapy and important limitations
7. Retention; understand and reinforce principles of orthodontic retention
8. Clinical Cases; describe the diagnosis, problems, objectives, ClinCheck plan, treatment plan, mechanics and retention plan for clinical case reviews
9. Continuing Education; demonstrate competence using the Invisalign continuing education site and performing systematic reviews of Invisalign

The student will demonstrate proficiency in the above course objectives by one:one (student:teacher) sessions to review clinical Invisalign cases. At the end of this course the student will be able to identify cases and integrate aligner therapy into the appropriate orthodontic treatment choices.

Instructional Methodology:

This is a seminar-based course designed to shape students' understanding of basic concepts and theories related to the planning and design of clear aligner therapy. PowerPoint presentations will be present to review basic concepts and principles taught during the course. Reading assignments provide background information for class discussions related to the scheduled topics. Journal articles are assigned to focus on application of principles in the contemporary practice of orthodontics. In some sessions students will identify additional journal articles on their own to supplement the reading assignments and present their cases.

Course Evaluation:

Grades for this course will be determined by attendance, the quality of participation during the seminar sessions, and interaction with the instructor throughout the year on their individual patient cases. Residents that do not achieve a threshold level of competency will be remediated or asked to retake the course.

Instructional Methodologies:

Lectures, problem based learning, resident presentations, ClinCheck evaluations in class and private one-on-one teaching sessions, readings and discussions.

Course Texts, Recommended Reading, Material, and Resources:

(Required reading will be available on Blackboard)

- Huang, G., Richmond, Stephen, Vig, Katherine W. L.. (Eds. 2011) Evidence-based orthodontics
- Romano, Rafi. (Ed.) (2011) Lingual & esthetic orthodontics, Invisalign: effective and accurate treatment of a variety of malocclusions / Willy Z. Dayan, pp.633-648.
- learn.invisalign.com continuing education

Broad journal article reading list (Angle Orthodontist, American Journal of Orthodontics and Dentofacial Orthopedics, European Journal of Orthodontics, Journal of Clinical Orthodontics)

1. Boyd RL. Esthetic orthodontic treatment using the invisalign appliance for moderate to complex malocclusions. *J Dent Educ.* 2008; 72(8): 948-967. doi: 72/8/948 [pii].
2. Boyd RL. Complex orthodontic treatment using a new protocol for the invisalign appliance. *J Clin Orthod.* 2007; 41(9): 525-47; quiz 523.
3. Lagravère MO, Flores-Mir C. The treatment effects of invisalign orthodontic aligners. *J Am Dent Assoc.* 2005; 136(12): 1724-1729.
4. Maganzini AL. Outcome assessment of invisalign and traditional orthodontic treatment and subsequent commentaries. *Am J Orthod Dentofacial Orthop.* 2006; 129(4): 456. doi: 10.1016/j.ajodo.2006.02.016.
5. Miethke RR, Brauner K. A comparison of the periodontal health of patients during treatment with the invisalign system and with fixed lingual appliances. *J Orofac Orthop.* 2007; 68(3): 223-231. doi: 10.1007/s00056-007-0655-8 [doi].
6. Schupp W, Haubrich J, Neumann I. Treatment of anterior open bite with the invisalign system. *J Clin Orthod.* 2010; 44(8): 501-507.
7. Schupp W, Haubrich J, Neumann I. Class II correction with the invisalign system. *J Clin Orthod.* 2010; 44(1): 28-35.
8. Vardimon AD, Robbins D, Brosh T. In-vivo von mises strains during invisalign treatment. *Am J Orthod Dentofacial Orthop.* 2010; 138(4): 399-409. doi: S0889-5406(10)00484-1 [pii]; 10.1016/j.ajodo.2008.11.027 [doi].
9. WAX N. Effectiveness of invisalign® on correcting anterior crowding and spacing. 2010.
10. Womack WR, Day RH. Surgical-orthodontic treatment using the invisalign system. *J Clin Orthod.* 2008; 42(4): 237-245.

Lecture 1: Introduction to Clear Aligner Therapy

Time: 3 hours

Reading Materials:

- Huang, Greg J., Richmond, Stephen, Vig, Katherine W. L.. (Eds.) (2011, ©2011) Evidence-based orthodontics, Invisalign therapy / Jason M. Bressler, Stefanie Hamamoto, Greg J. King, and Anne-Marie Bollen
- Romano, Rafi. (Ed.) (2011) Lingual & esthetic orthodontics, Invisalign: effective and accurate treatment of a variety of malocclusions / Willy Z. Dayan, pp.633-648.
- learn.invisalign.com; submitting cases, PVS impressions, attachments, interproximal reduction
- The iTero optical scanner for use with Invisalign: A descriptive review, 2012, Jones P.

Class Objectives

- 1) Understand how clear aligner therapy is integrated in the treatment planning process
 - 2) Patient selection for aligner therapy
 - 3) Understand various clear aligner products
 - 4) Understand the Invisalign protocol
 - 5) Understand mechanics of the Invisalign website and continuing education
 - 6) Clinical procedures for Invisalign
 - 7) Understand the mechanisms of tooth movement with Invisalign
-

Lecture 2: Review of ClinChecks

Time: 3 hours

Reading Materials:

- learn.invisalign.com; ClinCheck reviews
 - ClinCheck check list

Class Objectives

- 1) Initial review of ClinCheck with checklist
 - 2) Understanding difficult tooth movements, limitations and timing
 - 3) Understanding attachment placing, timing and choices for root control
 - 4) Understanding interproximal reduction placing, timing and choices
-

Lecture 3: Review of clinical treatment

Time: 3 hours

Reading Materials:

- learn.invisalign.com; Treatment and monitoring, clinical conditions

Class Objectives

- 1) Troubleshooting; decide what means to employ when aligners don't track
- 2) Consultation; understand import aspects of the consultation appointment and informed consent for orthodontic treatments including aligner therapy and important limitations
- 3) Retention; understand and reinforce principles of orthodontic retention
- 4) Clinical Cases; describe the diagnosis, problems, objectives, ClinCheck plan, treatment plan, mechanics and retention plan for clinical case reviews

University of Illinois at Chicago School of Dentistry General Policies

• Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

• Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than “B” in all courses. Students who earn a final grade of “C” or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

• Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

• Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

• Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

• Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

Orthodontic Materials Course Outlines
Department of Orthodontics
University of Illinois at Chicago
Dr. Leon Laub

Materials Science in Orthodontics: 1st Year Residents

Goal for 1st Year Residents is to convey a standard body of knowledge of principles of materials science and its application to orthodontics. The two-seminar sequence begins in the Fall and concludes in the Winter; it is repeated each year to the new incoming class.

Fall 2012

Mechanical Properties

1. Tensile testing and definition of mechanical properties from the stress-strain diagram
2. Clinical application of mechanical properties of wires (yield strength, elastic modulus, tensile strength, elongation) using articles from the literature
3. Manufacture of Wires – Photo presentation on Wire Production; mechanical processing by cold working; heat treatment; effect on grain size and properties
4. Understanding NiTi wires: ISO Standard testing and brand comparison

Winter 2013

1. Mechanical properties review:
 - Terminology from stress-strain diagrams
 - Properties of alloys used to produce orthodontic wires
 - Clinical meaning of mechanical properties
2. Crystal Structure: space lattice; lattice structure for martensite and austenite in Stainless Steel and Nickel-Titanium
3. Equilibrium Phase Diagrams: Understanding phase diagrams for alloys used in fixed prosthodontics and stainless steel wires
4. Manufacture of Brackets – Photo presentation on Bracket Manufacture

Materials Used in Orthodontics: 2nd & 3rd Year Residents

Goal for 2nd & 3rd Year Residents is to examine current orthodontic products from the viewpoint of materials properties and clinical applications based on those properties. Product classes are: Wires, Adhesives & Bonding; Curing Lights, Instruments; Biological safety of materials; Metal and polymer toxicity. This is a four-seminar sequence.

Winter 2013

1. Mechanical Properties: Review of terminology as related to clinical applications
2. Properties & Clinical Applications to Orthodontic Wires:
 - Stainless Steel wires: Compositions; Brands; Brand Comparison
 - Elgiloy wires: Tempers and uses; Heat treatment by the doctor
 - Titanium-Molybdenum wires: design of properties, brand comparison, recent articles
 - Nickel-Titanium: brand comparison (new data from recent resident theses studies); brand comparison of new copper containing NiTi wires compared to Copper Ni-Ti
 - ISO 15841: International Standard for force testing; brand comparison from 3-point bend tests

Fall 2012

What's New with NiTi Wires?

1. Concepts to understand NiTi wires: Transformation Temperature & Tooth moving force
2. Issues when switching a clinic or office wires to another brand: difficulties to match force and arch form
3. Chinese NiTi wires: price and quality
4. 2nd generation of Cu-Ni-Ti wires

Winter 2012

Adhesives and Bonding

1. Orthodontic composites, compomers, and glass ionomers
2. Direct bonding: development of 7 generations of bonding products; brand comparison
3. Indirect Bonding

Biological Safety of Orthodontic Materials

1. Metals: Nickel, chromium
2. Polymers: BPA, residual resin

Fall 2011

Dental Curing Lights & Photoinitiators

1. Light & Color
2. Sources for blue light
3. Halogen & LED Curing Lights: characteristics
4. Brand comparison: Halogen, LED & Plasma Lights

Orthodontic Instruments

1. Distal End Cutters
2. Ligature Cutters
3. Brand comparison: cutting ability & longevity

Course:	ORTD 595 Seminars on Orthodontics (Orthognathic Surgery Conference)
Course Directors:	T. Peter Tsay, DDS, MS, PhD
Course Time:	Monday 7:30-8:30 as scheduled
Prerequisites:	Students enrolled in Postgraduate Orthodontic or Oral and maxillofacial Surgery Program

Course Description

This seminar involves students and faculty from the Department of Orthodontics and Oral and Maxillofacial Surgery in a multidisciplinary approach to diagnose and treat patients with severe maxilla-mandibular discrepancies. The purpose of the course is to introduce the principles of patient selection, treatment planning, treatment approaches, and the logistics of orthodontic and surgical treatment of maxilla-mandibular discrepancies. Students will learn methods to plan predictable and efficient orthodontic treatment integrating maxillofacial surgery. Students will be expected to present and discuss selected cases, read and critique background material in textbooks and journal articles and lead seminar discussions.

Course Objectives:

1. Elucidate the purposes (Objectives) of surgical orthodontic treatment
2. Describe the basic elements of diagnosis and treatment planning of complicated dentoskeletal problems
3. Analyze the sequence of pre and post-surgical orthodontic treatment (Technique)
4. Use clinical cases to demonstrate how to apply these principles in daily practice.

Course Outline:

- I. Objectives of orthognathic surgery
 1. Straighten crooked teeth
 2. Reduce overbite & over jet
 3. Close spaces
 4. Improve facial appearance (Anatomy of an attractive smile)
 5. Prevent/minimize future orthodontic problems
 6. Correct/prevent periodontal problems
 7. Improve occlusal function
 8. Pre-prosthetic preparation
 9. Miscellaneous , clefts, T.M.D. etc.
- II. Data collection and analysis (Elements of orthodontic diagnosis)
 1. Study model, model analysis, and diagnostic set-up
 2. Facial and intra-oral photographs and Photographic analysis
 3. Panoramic x-ray, 10-points Quick Ceph Analysis; 3-D cephalometric x-rays
 4. Digital data: Dolphin software; OrthoCAD.

III. Biological principles of surgical orthodontics

1. Biological considerations of orthodontic tooth movement

- a. Sliding mechanism and individual tooth movement
- b. Bone deformation (bending) and group tooth movement
- c. Skeletal age and surgical corrections

2. Bio-engineering principles of orthognathic surgery

- a. Effects of surgery on growth
- b. Bone healing and relapse
- c. Timing of surgery

IV. Stages of surgical orthodontic treatment

1. Pre-surgical orthodontics: Resolve crowding, correct rotation, Bite opening (or closing), close space, develop ideal arch form (alveolar remodeling), correct midline discrepancy, decompensate abnormal incisal angulation.

- a. Straighten mal-aligned teeth
- b. Develop arch form –
- c. Close space

Small generalized space: power chain

Larger space, uneven space: Arrange teeth in 3 segments than close space with closing loop arch wires.

- d. De-compensate abnormal incisal angulation.

Class II or Class III elastics

2. Post-Surgical orthodontic treatment

3rd order, than 1st and 2nd order corrections

You are in this stage when you have:

Close to Ideal OB/OJ, No Space, No Rotation.

Objectives of Finishing & Detailing:

Ideal OB/OJ relationship

Coordinated Arch form
Proper Torque for Incisors & Molars
Proper contact and marginal ridge relationship
Maximum intercuspaton

V. Clinical case presentation

1. Surgical orthodontic treatment of Class II malocclusion
2. Surgical orthodontic treatment of Class III malocclusion
3. Surgical orthodontic treatment of VME with or without open bite
4. Surgical orthodontic treatment of malocclusion with mutilated dentition

Evaluation of Students' Competency:

- a. Class room interactions
- b. Evaluation of student's case presentation
- c. Observation of how student apply learned principles clinically

Suggested Readings:

Surver, DM: Esthetic Orthodontics and Orthognathic Surgery, Elsevier Mosby, 1998.

William GWA Arnett and Richard P. McLaughlin: Facial and Dental Planning for Orthodontists and Oral Surgeons, Elsevier Mosby,, 2005.

Priffit, W. R., Field, HW, & Surver, D.M.: Contemporary treatment of dentofacial deformity, Elsevier Mosby, 2008

ORTD 610, Orthodontic Clinic

Course: Orthodontic Clinic, ORTD 610 Course Coordinator: Kusnoto
Semester: Fall, Spring, Summer Updated: June 30, 2013
Credit Hours: Fall – Four (4), Spring – Five (5), Summer – Two (2)
Faculty: Listed on A/B Week Schedule
Class: First Year

Course Description

The orthodontic clinical experience begins early in the first semester with the examination of new patients and the taking of diagnostic records. In the second month of the program students conduct patient consultations, including informed consent, and begin placing orthodontic appliances following completion of case diagnosis and treatment planning (approximately ten cases with completed treatment plans will be provided by second year students). Treatment of newly assigned cases continues throughout the first year as additional new cases are examined and diagnostic records taken. Students spend approximately five half-days per week in the clinic. The clinical records of selected cases at the pretreatment stage are presented in seminars throughout the academic year.

Course Objectives

1. Develop competence in patient examination and obtaining diagnostic records for 45 or more patients.
2. Develop the ability to analyze the various diagnostic records and provide a diagnosis, specific objectives, a treatment and retention plan for all newly assigned cases.
3. Develop competence in appliance placement and ongoing adjustment of various appliances for the treatment of a variety of malocclusions in children, adolescents, and adults including dentofacial orthopedics, surgical orthodontics, and multidisciplinary care.
4. Develop competence in patient communication and management, time and workplace management, infection control, auxiliary utilization, recordkeeping and storage, practice management computer software.
5. On average, at least one case per week should be treatment planned, reviewed and the patient records approved by the supervising instructor before appliances are placed. It is expected that all newly assigned cases will be under active treatment by the end of the first academic year.
6. Assess patients and prepare patient records for potential presentation for the American Board of Orthodontics Phase III examination.

COURSE INFORMATION

Prerequisites

Graduation as a general dentist.

Expectations

The faculty expects each student to **attend all** scheduled clinics and complete assignments in a timely manner.

Examination and Grading (Measurement of Competency)

The grading system has four categories: (1) performance evaluations, (2) instructors' observations, (3) varied experiences, and (4) student self-evaluation. A grade is given in ORTD 610 only after the student meets attendance, clinic policy, and record audit requirements.

Students are evaluated on an ongoing basis by the clinical faculty. At each patient visit, the instructor reviews the work done and must approve codes and notes in the treatment record. Clinical faculty rate the students' case write-ups, technical abilities, patient management, clinic organization and cleanliness, and understanding of treatment progress and mechanotherapy. Increased levels of competence and understanding are expected as the program progresses. All patient records are audited for coding, organization, completeness and approvals. The letter grade for the semester represents a composite grade. Assignment of a C grade results in an assessment of the need and type of remedial help. A deferred (DFR) grade will be assigned if the approvals and charts are not properly maintained; the grade will be changed to an F grade if not remedied. A Grade of F is grounds for department head action, which may include dismissal, repeating the semester, or extending the length of the program.

1. Performance evaluations:
 - a. Written examinations with different weights
 - i. Written exams as given by instructors
 - b. Completion of assignments
2. Instructors' observations:
 - a. Daily evaluation
 - i. Each instructor will evaluate the resident based on the attendance in the class and participation in group discussion
 - b. Assignment
 - i. Each instructor will evaluate the resident based on completion of assignment with acceptable quality and timely manner.
3. Varied experiences:
 - a. Class assignments
 - i. After each session the instructor may assign an activity based on the subject being discussed. Assignments will be graded accordingly.
 - b. Quizzes and final exams
 - i. The understanding of each subject being taught will be assessed during and at the end of the term.
4. Student self-evaluation:
 - a. Hands on exercises
 - b. Student reports
 - c. Product examinations, such as essays describing the experiences with a final paragraph on self-evaluation

Any student, who misses an examination for a reasonable cause, as determined by the course director, will be allowed to take a make-up examination. This examination may be written, as described above, or oral, or in some other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course. If an essay is assigned, there will be no extension to the essay's deadline.

Assigned Reading and Course Materials

Detailed procedures, course materials, equipment instructions, etc., are located in Blackboard in a section called ORTD 101.

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

General Policies

Policy on Disability Accommodations

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Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than "B" in all courses. Students who earn a final grade of "C" or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

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Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

ORTD 611 - Fall semester, 2013
TECHNIQUE COURSE

<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Seminar #</u>	<u>Topic</u>	<u>Instructor</u>
Monday	Aug 12	9:30-12:30 1:30-4:30	1 2	Introduction to Orthodontics Part I Introduction to Orthodontics Part II	Tsay Tsay
Tuesday	Aug 13	1:30-4:30	3	Clinic Orientation + Open Kit and Equipment Maintenance	Hohlt/Manasse
Wednesday	Aug 14	8:30- 12:30 1:30-4:30	4 5	Overview to Axium, Ortho TxWiz Dolphin Imaging, OrthoCAD® Clinic Auxiliary Staff Utilization Impressions and Pouring Models Study Models (video and demo)	Kusnoto Dental Assistants Hohlt/Manasse
Friday	Aug 16	8:30-12:30	6	Digital Photography and Radiography	Jackson/Kusnoto/ Ayas/Benjamin
Monday	Aug 19	9:30-12:30	7	Impressions and Pouring Models	Manasse
Tuesday	Aug 20	9:30-12:30 2:30-4:30	8 9	Trimming Models, Intro to Biostar® Typodont #1 Banding, Separating, Elastomeric ties	Manasse Galang/Hohlt/John
Wednesday	Aug 21	9:30-12:30 1:30-4:30	10 15	Wire Bending, Intro to Soldering Project, Dental Cast Analysis, occlusogram Lab for Diagnostic Casts on OrthoCAD®	Hohlt/Manasse Kusnoto
Monday	Aug 26	2:30-4:30	12	Properties and Manipulation of Round Arch Wires; Gingival Arch Wire Project	Manasse
Tuesday	Aug 27	9:30-12:30	13	Introduction to the Edgewise Appliance Overview of Class I, II and III	Yue
Wednesday	Aug 28	1:30-4:30	14	Arch Wire Placement and Ties Soldering Projects, Heat Treatment and welding	Chwa/Hohlt/Manasse
Tuesday	Sep 3	2:30-4:30	16	Typodont #2 Brackets, Attachments and Bonding	Galang
Wednesday	Sept 4	8:30-4:30	17	Orthodontic Appliance and Retainer Fabrication	Willison
Thursday	Sept 5	9:30-12:30	18	Computerized Case Preparation	Kusnoto
Wednesday	Sep 11	1:30-4:30	19	Arch Wire Bending and Loops	Manasse/Hohlt
Thursday	Sept 12	1:30-4:30	20	Quad Helix, Utility Arches	Sanchez/Opperman
Tuesday	Sept 17	9.30-12.30	22	Orthodontic Bonding Techniques	Gange
Wednesday	Sept 25	9:30-12:30 1:30-4:30	23 24	Kloehn Cervical Headgear Fabrication Haas Tandem Mechanics Haas RPE Fabrication	Hohlt/Manasse Hohlt/Manasse
Thursday	Sept 26	2:30-4:30	25	Typodont #3 – Nance, TPA	Galang/Hohlt Appendix I

Wednesday	Oct 2	9:30-12:30 1:30-4:30	26 27	Rectangular Arch Wires and Loops Lingual Fixed, Essix and Hawley Retainer Fabrication	Jo Manasse
Friday	Oct 4	9:30-10:30 10:30-12:30	28 29	Triad Demo Typodont #4 Overview of Class I, II and III Treatment	Kirschheimer Galang
Wednesday	Oct 9	9:30-12:30 1:30-4:30	30 31	Mounting Casts Biology of Tooth Movement	Robbins Chwa
Tuesday	Oct 15	9:30-12:30	32	Appliance Initiation and Anchorage Systems; Arch Wire Sequencing Introduction to Biomechanics	Yue
Wednesday	Oct 16	1:30-4:30	33	Typodont #5 -HG, Utility Arch	Sanchez/Opperman
Thursday	Oct 17	9:30-12:30 1:30-4:30	34 35	Extraction Mechanics Typodont #6 -Sectional Mechanics	Eltink Sanchez/Opperman
Tuesday	Oct 22	9.30-12.30	36	Diagnostic Set-ups	Tsay
Wednesday	Oct 23	1:30-4:30	37	Typodont #7 -Auxiliary solder, heat treat	Chwa/Hohlt
Thursday	Oct 24	9.30-10.30 10:30-12:30 1:30-4:30	38 39 40	Adjusting Retainers Indirect Bonding Technique Removable and Functional Appliances I	Kelsey Eltink Hohlt
Monday	Oct 28	1:30-4:30	41	Wire Exercises	Tsay
Thursday	Oct 31	1:30-4:30	42	Removable and Functional Appliances II	Hohlt
Friday	Nov 1	9:30-12:30	43	Introduction to Lasers and TADS	Atswasawan

ORTD 611

**ORTHODONTIC
TECHNIQUES**

Course Objectives: An introduction to the properties and manipulation of materials commonly used in orthodontic patient care. Emphasis is on fixed appliance treatment. This course will include practical laboratory experience in constructing appliances used in orthodontic care.

Evaluation Methods: Projects are evaluated by assessing whether or not the finished project could be safely and effectively used in patient care.

**COMPILED BY
ROBERT J. MANASSE, D.D.S.
ASSOCIATE CLINICAL PROFESSOR
DEPARTMENT OF ORTHODONTICS
UNIVERSITY OF ILLINOIS AT CHICAGO**

August , 2012 Edition

NAME: _____ Date: _____

1) Upper Impression (for study model fabrication and trimming)

Criteria	Good	Fair	Repeat
Surface of impression is smooth, consistent and without voids			
Even thickness of impression material all around			
Midline is centered			
Frenum/frenula are captured			
Maxillary tuberosity or mandibular retromolar area included			
Details of dental anatomy and gingival margin clearly visible			
Rounded borders reaching high/ deep into the vestibule			

2) Lower Impression (for study model fabrication and trimming)

Criteria	Good	Fair	Repeat
Surface of impression is smooth, consistent and without voids			
Even thickness of impression material all around			
Midline is centered			
Frenum/frenula are captured			
Maxillary tuberosity or mandibular retromolar area included			
Details of dental anatomy and gingival margin clearly visible			
Rounded borders reaching high/ deep into the vestibule			

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UNIVERSITY OF ILLINOIS AT CHICAGO

Department of Orthodontics

ORTD 611 - Fall semester, 2012
ORTHODONTIC TECHNIQUE**1. Impressions, Working Models and ABO Model Fabrication**

Date Due: _____

<u>Resident</u>	Saud Al-Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
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Grade									

Pass/Fail

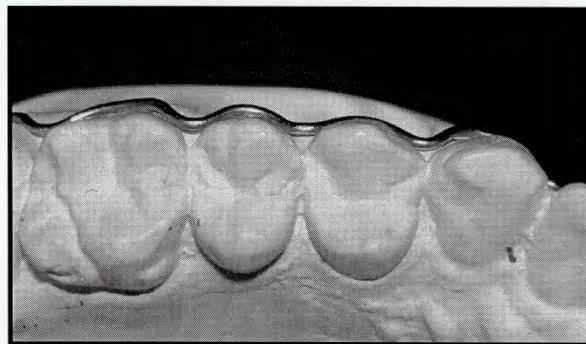
- Impressions
 1. Make a set of impressions of your teeth to fabricate models per ABO standards
 2. Make a set of impressions of your teeth to fabricate Essix retainers for yourself
 3. Make two upper impressions for 2 working models of yourself for a gingival arch wire and the fabrication of a Hawley retainer for yourself
- Models
 4. One set of models of oneself trimmed per ABO standards
 5. One set of working models to fabricate Essix retainers for oneself
 6. Two upper models; one for Gingival Arch Wire and one for Hawley retainer for oneself
 7. One set of working models (upper and lower) with first molar bands for Haas expander and lower 6-6 lingual arch with tongue spurs

Gingival Wire Exercise

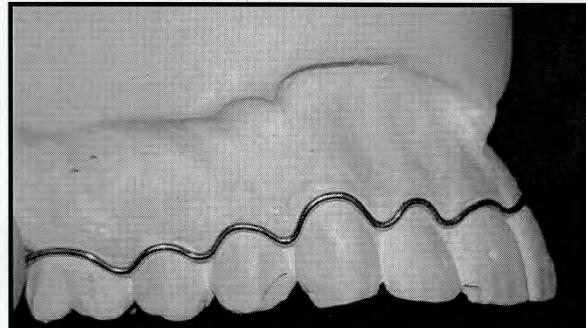
Please keep in mind that this exercise is NOT meant to make your life more difficult. This exercise will teach you patience, attention to detail and most importantly the effect of bending one part of a wire on the rest of the wire. The trick when bending this wire is: Every time you place a new bend into the wire you have to place the wire back onto the model and make sure the previously completed part is still well-adapted. If it is not adapted anymore, you HAVE TO remove the last bend you placed. If you decide to continue without periodically checking for passive adaptation, you will spend more time trying to adjust for problems than getting the wire completed.

The following are pictures to demonstrate a properly bent gingival wire. This wire was bent by a student (ZB).

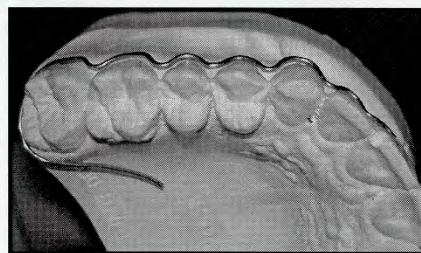
Proper adaptation of the wire to the gingival margin and in the interproximal area



The wire exactly follows the gingival margin



The wire loops around the second molar at the end



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ORTHODONTIC TECHNIQUE

2. Gingival Arch Wire Project

Date Due _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
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Use a No. 2 lead pencil to draw the gingival margin. First read the instructions as described by Dr. Renfroe to bend the gingival arch wire.

Use .025 SS wire

Criteria for scoring:

1. Gingival margin drawn in pencil = 25%

*Wire to be started and ended in the center of the distal of the last tooth in the arch. It is most important to examine the adaption of the wire to the teeth before proceeding to the next bend. Curvature of the bends are critical. Therefore, follow the gingival margin that has been drawn.

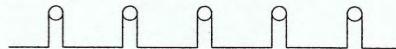
2. Adaption of the wire to the gingival margin as a per cent of the number of teeth in the arch=25%
3. Adaption of the wire to the interproximal area as a percent of the number of teeth in the arch=25%
4. Is the wire lying passively on the teeth? – as a per cent of the number of teeth in the arch =25%

Loop Bending Exercise Sheet

For each of the following loops you will have to make 5 loops on the same size wire. Use the drawings below as a guide for the size of each loop and the distance each loop is from the other. Make an exact replica of each loop so that the indicated wire will lay on each loop of each project. Make a copy of this page and tape the ends of each project on the copied page.

1) Vertical loop

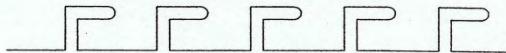
Wire size: 0.016 SS



2) Horizontal loop

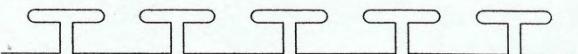
(also known as the "L" or "Boot" loop)

Wire size: 0.016 x 0.022 SS



3) T loop

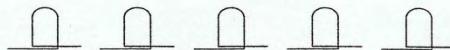
Wire size: 0.016 x 0.022 SS



4) Closing loop

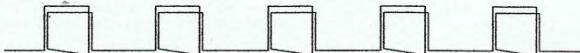
Wire size: 0.016 x 0.022 SS

(the legs are at different heights)



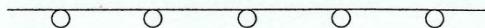
5) Box loop

Wire size: 0.016 x 0.016 SS



6) Helical tie-back

Wire size: 0.016 SS



7) Omega loop

Wire size: 0.016 SS



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 Department of Orthodontics

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 ORTHODONTIC TECHNIQUE

3. Loop Bending Exercise

Date Due: _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplin	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katharine Stevens
1									
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Total									
Grade									

See instruction sheet for description and wires required

Loops to be made exactly the same size and shape as those on the instruction sheet

Scoring Criteria:

1. Accuracy of 5 vertical loops=10%
2. Accuracy of 5 horizontal loops=10%
3. Accuracy of 5 T loops=10%
4. Accuracy of 5 closing loops=10%
5. Accuracy of 5 box loops=10%
6. Accuracy of 5 helical tie backs=10%
7. Accuracy of 5 omega loops=10%
8. Accuracy of project to Loop Bending Exercise Sheet=30%

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ORTHODONTIC TECHNIQUE

4. Arch Wire Project

Date Due: _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katharine Stevens
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Total									
Grade									

All seven wire bending projects below must be acceptable.

1. "T" loops - .016 x .022 SS = 16 points
2. Intrusion Arch - .016 x .022 SS = 16 points
3. Open and closed closing loops - .016 x .022 SS = 16 points
4. Molar holding arch wire - .036 SS = 16 points
5. Sectional retraction arches - .016 x .022 SS = 16 points
6. Upper lingual retainer - .018 Australian Black SS Wire = 5 points
7. Lower lingual retainer - .032 Braided Unitek lower lingual retainer wire = 5 points

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ORTHODONTIC TECHNIQUE

5. Upper Hawley Retainer Project

Date Due: _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
1									
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Make upper arch working model of yourself

Hawley labial wire of .028 SS with omega loops to go inter-proximally between the canine and lateral incisor

Ball clasp between upper right premolar and first molar

Adams clasp on upper left first molar

Criteria for scoring:

1. Contour and fit of labial wire = 20%
2. Contour and fit of clasps=10%
3. Adaption of acrylic to model =10%
4. Follow instructions =10%
5. Closeness of finish to initial design = 20%
6. Finish of Acrylic = 10%
7. Fit in your mouth = 20%

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ORTHODONTIC TECHNIQUE

6. Slip Cover-Essix Retainer Project

Date Due: _____

Resident Grade/ Criteria	Saud Al - Hasawi	Piotr Barysenka	Jennifer Caplin	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
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Need working models of yourself for this project. The finished project will be graded on how it fits on the working model and on your teeth.

Slip cover/Essix retainers to be contoured to the gingival margin of the teeth of both the upper and lower models.

Use C+ Essix Plastic material and fabricate on the Biostar machine

Scoring criteria:

1. Accuracy of upper and lower models of oneself=20%
2. Design of slip covers=20%
3. Fabrication of slip covers=20%
4. Fit of slip covers on models=20%
5. Fit of slipcovers on oneself=20%

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ORTHODONTIC TECHNIQUE

7. Lower lingual holding arch with tongue spurs

Date Due: _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katharine Stevens
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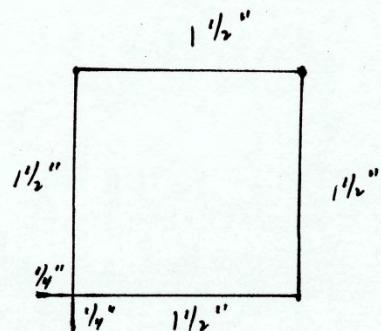
Lingual wire to be made with .036SS and is to contact the lingual of the teeth (center of the lingual of teeth) and be on the cingulum of the lower 3-3.

Tongue spurs to be made with .025 SS and to be angulated less than 90 degrees to the lingual of the lower incisors and soldered directly on top of the .036 lingual wire

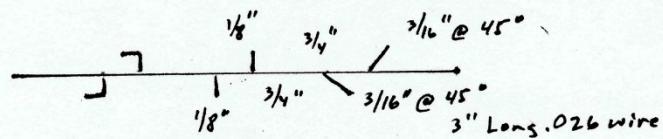
Criteria for scoring:

1. Bands placed in impression-10%
2. Bands waxed in impression-10%
3. Design on poured model-20%
4. Bent lower .036 SS lingual wire-20%
5. Soldered tongue spurs of .025 SS wire-20%
6. Completeness of project as per design-20%
7. Two Bondable Tongue Spurs Pass/Fail

SCORE CARD FOR SOLDERING PROJECTS



.045 Stainless Steel Square Wire



.026 Stainless Steel Wire with Hooks

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Department of Orthodontics

ORTD 611 - Fall semester, 2012
ORTHODONTIC TECHNIQUE

8. Soldering Project

.045 Stainless Steel Wire Square

Date Due: _____

Resident Grade/ Criteria	Saud Al - Hasawi	Piotr Barysenka	Jennifer Caplin	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
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Grade									

Objective: To follow precise instructions, experience bending a heavy and lighter stainless steel wires, measuring accurately, learning the properties and manipulation of wire, solder and flux (each individually and combined with a torch), understanding the principles of the soldering technique for orthodontic wires and preparing it in a fashion that it could be placed in the patient's mouth.

Criteria for Grading:

1. Accuracy of measurements = 20%
2. Size and neatness of soldering joints = 20%
3. Quality of the bends of the wire 15%
4. Ability to make bends in the same plane of space = 10%
5. Ability to make solder joints in the same plane = 10%
6. Neatness of the project = 10%
7. Esthetics of the project for placement in the patient's mouth = 15%

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UNIVERSITY OF ILLINOIS AT CHICAGO
Department of OrthodonticsORTD 611 - Fall semester, 2012
ORTHODONTIC TECHNIQUE**9. Soldering Project****.026 Stainless Steel Wire with Hooks**

Date Due: _____

<u>Resident</u> <u>Grade/</u> <u>Criteria</u>	Saud Al - Hasawi	Piotr Barysenka	Jennifer Caplin	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
1									
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Total									
Grade									

Objective: To follow precise instructions, experience bending a heavy and lighter stainless steel wires, measuring accurately, learning the properties and manipulation of wire, solder and flux (each individually and combined with a torch), understanding the principles of the soldering technique for orthodontic wires and preparing it in a fashion that it could be placed in the patient's mouth.

Criteria for Grading:

1. Accuracy of measurements = 20%
2. Size and neatness of soldering joints = 20%
3. Quality of the bends of the wire 15%
4. Ability to make bends in the same plane of space = 10%
5. Ability to make solder joints in the same plane = 10%
6. Neatness of the project = 10%
7. Esthetics of the project for placement in the patient's mouth = 15%

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ORTHODONTIC TECHNIQUE

10. Haas Palatal Expander

Date Due: _____

Resident Grade/ Criteria	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katherine Stevens
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Need working model with first molar bands. If you have a patient that requires this appliance, this will be credited for the completion of this project.

Use .036 SS wire for the wire framework.

Lingual wire on the premolars and molars needs to be on the lower third of the crown.

Criteria for scoring:

1. Bands placed in impression=10%
2. Bands waxed in impression=10%
3. Poured model=10%
4. Wire framework=15%
5. Waxed in expansion screw=10%
6. Trimmed acrylic pads=15%
7. Completeness of Expander to initial design=10%
8. Completed project on model and/or in patient=20%

B) Rectangular arch wire exercise

Materials Needed:

- 0.016 x 0.022 straight stainless steel arch wires. Each resident will need 4 straight pieces of arch wire (110 mm each).
- 0.016 x 0.022 preformed stainless steel arch wires
- Pliers: Bird beak, Tweed 142 (rectangular arch wire forming plier)
- Arch turret
- Fine-point Sharpie marker

Instructions and Grading Criteria:

Using the arch turret make an arch form out of the straight piece of wire you have. You will be asked to make 2 upper and 2 lower arch wires. These arch forms should match the preformed arch wires that you have.

Once you have formed the arch wires, use the Tweed plier to place the following bends in both the formed and preformed arch wires:

- Lower arch wire: cupid eminence and bayonet bends for molars
- Upper arch wire: lateral set backs, cupid eminence, and bayonet bends for molars.

Use the arch form template to place the bends at the same location on both sides. Mark the location on the template and then place the bends on all wires in the same location.

The same grading criteria for the round arch wire apply here with the addition of one criterion:

1. Symmetry: each arch wire has to be symmetric. This means that the right and left halves of the arch formed are identical in size. If you want to evaluate this, place the formed arch wire on a template (attached in the next pages).
2. Flatness: when placed on a flat surface the entire wire has to touch the surface.
3. Matching size: the upper arch wires when placed over each other should exactly match. The same applies to the lower arch wires.
4. Coordination: the lower arch wires are slightly smaller than the upper. This means that if you place the lower wire inside the upper it will have the same arch form but slightly smaller as if the upper wire is hugging the lower.
5. No introduced torque: there should be no torque introduced into the wire when placing the bends. You can use the Tweed 142 plier to check torque.

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Department of Orthodontics

ORTD 611 - Fall semester, 2012
ORTHODONTIC TECHNIQUE

11. Rectangular Arch Wire Project

Date Due: _____

<u>Resident</u> <u>Grade/</u> <u>Criteria</u>	Saud Al- Hasawi	Piotr Barysenka	Jennifer Caplan	Cara Conroy	Erin Dobbins	Ghoneim Salma	Whitney Mostafiz	Robert Schwartz	Katharine Stevens
1									
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Total									
Grade									

All four wire bending projects below must be acceptable. Grading is Pass/Fail

1. Wire bending exercise #1
2. Wire bending exercise #2
3. Wire bending exercise #3
4. Wire bending exercise #4

/ /
 Wire Bending Exercise 4
 Due

Name:

Mx, LCT, 15°	Mx, LCT, 30°	Mx, BCT, 15°	Mx, BCT, 30°
Md, LCT, 15°	Md, LCT, 30°	Md, BCT, 15°	Md, BCT, 30°

/ /
 Wire Bending Exercise 2
 Due

Name:

Mx, Step-up, 1 mm, x2	Mx, Step-up, 0.5 mm, x2	Mx, Step-down, 1 mm, x2	Mx, Step-down, 0.5 mm, x2
Md, Step-up, 1 mm, x2	Md, Step-up, 0.5 mm, x2	Md, Step-down, 1 mm, x2	Md, Step-down, 0.5 mm, x2

/ /
 Wire Bending Exercise 3
 Due

Name:

Mx, DRT, 10°, x2	Mx, DRT, 20°, x2	Mx, MRT, 10°, x2	Mx, MRT, 20°, x2
Md, DRT, 10°, x2	Md, DRT, 20°, x2	Md, MRT, 10°, x2	Md, MRT, 20°, x2

/ /
 Wire Bending Exercise 4
 Due

Name:

Mx, LCT, 15°	Mx, LCT, 30°	Mx, BCT, 15°	Mx, BCT, 30°
Md, LCT, 15°	Md, LCT, 30°	Md, BCT, 15°	Md, BCT, 30°

Day	Date	Time	Seminar #	Topic	Instructor	Project Started	Project Due
Monday	12-Aug	9:30-12:30 1:30-4:30	1 2	Introduction to Orthodontics Part I Introduction to Orthodontics Part II	Tsay Tsay		
Tuesday	13-Aug	1:30-4:30	3	Clinic Orientation + Open Kit and Equipment Maintenance	Hohlt/Manasse		
Wednesday	14-Aug	8:30- 12:30 1:30-4:30	4 5	Overview to Axium, Ortho TxWiz Dolphin Imaging, OrthoCAD® Clinic Auxiliary Staff Utilization Impressions and Pouring Models Study Models (video and demo)	Kusnoto Dental Assistants Hohlt/Manasse		
Friday	16-Aug	8:30-12:30	6	Digital Photography and Radiography	Jackson/Kusnoto/ Ayas		
Monday	19-Aug	9:30-12:30	7	Impressions and Pouring Models	Manasse	Project #1	Working Models for Project #1
Tuesday	20-Aug	9:30-12:30 2:30-4:30	8 9	Trimming Models, Intro to Biostar® Typodont #1 Banding, Separating, Elastomeric ties	Manasse Galang/Hohlt/John	Bite Plate Project	
Wednesday	21-Aug	9:30-12:30 1:30-4:30	10 11	Wire Bending, Intro to Soldering Project, Welding	Hohlt/Manasse Chwa	Project #2 & #3	
Monday	26-Aug	2:30-4:30	12	Properties and Manipulation of Round Arch Wires; Gingival Arch Wire Project	Manasse	Project #4 & #5	Bite Plate Project Project #1 ABO
Tuesday	27-Aug	9:30-12:30	13	Introduction to the Edgewise Appliance Overview of Class I, II and III	Yue		
Wednesday	28-Aug	1:30-4:30	14	Arch Wire Placement and Ties Soldering Projects and Heat Treatment	Chwa/Hohlt/Manasse	Project #6	Project #2 & #3
Thursday	29-Aug	1:30-4:30	15	Dental Cast Analysis, occlusogram Lab for Diagnostic Casts on OrthoCAD®	Kusnoto		
Tuesday	3-Sep	2:30-4:30	16	Typodont #2 Brackets, Attachments and Bonding	Galang		
Wednesday	4-Sep	8:30-4:30	17	Orthodontic Appliance and Retainer Fabrication	Willison	Project #7 & #8	
Thursday	5-Sep	9:30-12:30	18	Computerized Case Preparation	Kusnoto		
Wednesday	11-Sep	1:30-4:30	19	Arch Wire Bending and Loops	Manasse/Hohlt	Project #9	Project #4 & #5
Thursday	12-Sep	1:30-4:30	20	Quad Helix, Utility Arches	Sanchez/Opperman	Q-H Project	
Tuesday	17-Sep	9:30-12:30	22	Orthodontic Bonding Techniques	Gange		Project #6
Wednesday	25-Sep	9:30-12:30 1:30-4:30	23 24	Kloehn Cervical Headgear Fabrication Haas Tandem Mechanics Haas RPE Fabrication	Hohlt/Manasse Hohlt/Manasse	Headgear Project Project #10	Q-H Project
Thursday	26-Sep	2:30-4:30	25	Typodont #3 - Nance, TPA	Galang/Hohlt/Lippincott		
Wednesday	2-Oct	9:30-12:30 1:30-4:30	26 27	Rectangular Arch Wires and Loops Lingual Fixed, Essix and Hawley Retainer Fabrication	Jo Manasse	Project #11 Project #7 & #8	Headgear Project
Friday	4-Oct	9:30-10:30 10:30-12:30	28 29	Triad Demo Typodont #4 Overview of Class I, II and III Treatment	Kirschheimer Galang		Project #9 Project #1 Models
Wednesday	9-Oct	9:30-12:30 1:30-4:30	30 31	Mounting Casts Biology of Tooth Movement	Robbins Chwa		
Tuesday	15-Oct	9:30-12:30	32	Appliance Initiation and Anchorage Systems; Arch Wire Sequencing Introduction to Biomechanics	Yue		Project #10

ORTD611 Technique Course

Day	Date	Time	Seminar #	Topic	Instructor	Project Started	Project Due
Wednesday	16-Oct	1:30-4:30	33	Typodont #5 -HG, Utility Arch	Sanchez/Opperman		Project #11
Thursday	17-Oct	9:30-12:30 1:30-4:30	34 35	Extraction Mechanics Typodont #6 -Sectional Mechanics	Eltink Sanchez/Opperman		
Tuesday	22-Oct	9:30-12:30	36	Diagnostic Set-ups	Tsay	Diagnostic set-up Project	
Wednesday	23-Oct	1:30-4:30	37	Typodont #7 -Auxiliary solder, heat treat	Chwa/Hohlt		
Thursday	24-Oct	9:30-10:30 10:30-12:30 1:30-4:30	38 39 40	Adjusting Retainers Indirect Bonding Technique Removable and Functional Appliances I	Kelsey Eltink Hohlt		
Monday	28-Oct	1:30-4:30	41	Wire Exercises	Tsay		Diagnostic set-up Project
Thursday	31-Oct	1:30-4:30	42	Removable and Functional Appliances II	Hohlt		
Friday	1-Nov	9:30-12:30	43	Introduction to Lasers and TADS	Atswasawan		

Course:	ORTD 612, Orthodontic Technique B (Biomechanics and Biomaterials)
Course Directors:	Isaac C. Yue, DMD, MS Darren Pakravan, DDS, MS
Course Time:	Tuesday 9:30am -12:30pm
Office Hours:	Tuesday 12:30pm-1:30pm
Credit Hours:	2
Prerequisites:	Algebra, Trigonometry, Inorganic Chemistry, Physics

Course Description

The purpose of the course is to introduce the principles of biomechanics and biomaterials as applied to orthodontic treatment. Students will learn theory-guided approaches to planning safe, predictable and efficient orthodontic treatment. Students will be expected to read and critique background material in assigned textbooks and journal articles for seminar discussions.

Problem solving skills will be emphasized through homework assignments and laboratory experiments. Specific topics include: orthodontic and orthopedic level force systems, biomaterial science, kinematics and biomechanics of tooth movement, friction, anchorage, functional orthopedics, temporary anchorage devices, selection of clinical appliances, planning and design of orthodontic force systems

Course Objectives

1. To determine the forces used in orthodontic systems mathematically
2. To determine the appropriate anchorage systems needed to achieve treatment goals
3. Define and apply the concept of equilibrium in orthodontic system
4. Understand and apply forces, moments, and couples to orthodontic movements
5. List and discuss the concepts and principles required to produce safe, predictable, and efficient tooth movement
6. Understand orthodontic material properties
7. Compare and contrast various materials used in orthodontics
8. Describe the advantages and disadvantages of various fixed and removable appliances
9. Compare and contrast standard edgewise brackets with preadjusted brackets.
10. Understand how friction impacts orthodontic movements
11. Describe the factors that could increase and decrease friction in the orthodontic system
12. Determine the extraoral force systems needed to achieved desired goals
13. Learn various space closure techniques
14. Determine the ideal loop design to achieve various tooth movements
15. Describe biomechanical approaches to the management of deep overbite and open bite occlusal discrepancies
16. Describe the biomechanical management of Class II and Class III occlusal discrepancies.
17. Describe the concepts of skeletal anchorage in planning orthodontic tooth movement.
18. Describe the mechanics behind Invisalign for orthodontic applications.

Instructional Methodology

This is a seminar-based course designed to shape students' understanding of basic concepts and theories related to the planning and design of orthodontic force systems. Reading assignments for each seminar session is to provide background information for class discussions related to the scheduled topics. Much of the preparatory reading is directed to textbook sources. In addition, journal articles are assigned to focus on application of principles in the contemporary practice of orthodontics. In some sessions students will identify additional journal articles on their own to supplement the reading assignments. PowerPoint presentations will be present to reinforce basic concepts and principles taught during the course.

Course Evaluation:

Grades for this course will be determined by attendance, the quality of participation during the seminar sessions, laboratory exercises, periodic quizzes, homework, midterm examination, and final examination. The exam will test for mastery of concepts covered in the course objectives listed above. Residents that do not achieve a threshold amount of competency will be remediated or asked to retake the course.

Assignments and Due Dates:

Due dates for homework, lab exercises, and preparatory materials will be provided to the residents with adequate time to complete.

Instructional Methodologies:

Lectures, Problem Based Learning, Resident Presentations, Laboratory Exercises, Computer Exercises, Homework, Readings.

Course Texts, Recommended Reading, Material, and Resources:

- Nanda, Ravindra. Biomechanics in Orthodontics
- Gruber, Thomas, Robert Vanarsdall, and Katherine Vig. Orthodontics: Current Principles and Techniques, 4th ed. St. Louis: Elsevier, Inc, 2005.
- Nanda, Ravindra. Biomechanics and Esthetic Strategies in Clinical Orthodontics. St. Louis: Elsevier, Inc., 2005.
- American Journal of Orthodontics Dental Orthopedics
- Angle Orthodontist
- European Journal of Orthodontics
- Proffit, William, and Henry Fields. Contemporary Orthodontics, 3rd ed. St. Louis: Mosby, Inc., 2000.
- European Journal of Orthodontics
- Seminar in Orthodontics
- TM Mulligan. Common Sense Mechanics in Everyday Orthodontics, 1982.

COURSE SCHEDULE
ORTD 612

<u>Session</u>	<u>Topic</u>	<u>Instructor</u>
1	Introduction to Biomechanics	Dr. Yue
2	Biologic Mechanisms of Tooth Movement and Anchorage	Dr. Yue
3	Basics of Biomechanics	Dr. Yue
4	Material Science	Dr. Yue
5	Wire Properties	Dr. Yue
6	Mulligan Mechanics	Dr. Pakravan
7	Elastics and Elastomerics	Dr. Yue
8	Friction	Dr. Yue
9	Class II Mechanics	Dr. Yue
10	Class III Mechanics	Dr. Pakravan
11	Transverse Mechanics	Dr. Pakravan
12	Vertical Mechanics	Dr. Pakravan
13	Removable Mechanics	Dr. Pakravan
14	Space Opening and Closing Mechanics	Dr. Yue
15	Temporary Anchorage Device Mechanics	Dr. Pakravan

Lecture 1: Introduction to Biomechanics

Time: 1.5 hours

Reading Materials:

- Basic Trigonometry text book
- Basic Physics text book
- Biomechanics of Orthodontics, Nanda: Chapter 1 and 2

Class Objectives

- 1) Understand how biomechanics is integrated in the treatment planning process
- 2) Understand the difference between scalars and vectors
- 3) Define the concept of force
- 4) Mathematically determine the forces used in orthodontic systems

Lecture 2: Biologic Mechanisms of Tooth Movement and Anchorage

Time: 2.5 hours

Reading Materials:

- Proffit: Chapter 9
- Biomechanics of Orthodontics, Nanda: Chapter 5

Class Objectives:

- 1) Understand the biologic mechanisms of tooth movement
- 2) Understand the chronological sequence of tooth movement
- 3) Understand the definition of anchorage
- 4) To determine the appropriate anchorage systems needed to achieve treatment goals

Lecture 3: Basics of Biomechanics

Time: 2.5 hours

Reading Materials:

- Proffit: Chapter 9
- Biomechanics of Orthodontics, Nanda: Chapter 5

Class Objectives:

- 1) Define and apply the concept of equilibrium in the orthodontic system
- 2) Define and understand center of mass and center of resistance
- 3) Define and understand the concept of moments
- 4) Define and understand the concept of couples
- 5) Define and understand the moment to force ratios
- 6) Define and understand uncontrolled tipping, controlled tipping, translation, root tipping

Lecture 4: Material Science**Time:** 2.5 hours**Reading Materials:**

- Graber, Chapter 6

Class Objectives:

- 1) Understand various chemical bonds
- 2) Understand lattice formations
- 3) Understand and use phase diagrams
- 4) Understand colloid systems
- 5) Define corrosion and how it effect orthodontic materials
- 6) Define and describe the difference between welding and soldering
- 7) Understand orthodontic adhesives

Lecture 5: Wire Properties**Time:** 2.5 hours**Reading Materials**

- Proffit Chapter 10

Class Objectives:

- 1) Learn about the history of archwire development
- 2) Describe the various shapes of modern archwires
- 3) Understand wire properties
- 4) Describe the difference between bending and torsion
- 5) Describe the difference between elastic and inelastic behavior
- 6) Define and graphically describe Hooke's Law
- 7) Describe current wire testing methodologies
- 8) Understand and use phase diagrams
- 9) Calculate the effect of changing wire dimensions on stress, strain, and range
- 10) Compare strength, stiffness, and range of NiTi, TMA, and Stainless Steel wires

Lecture 6: Mulligan Mechanics 1**Time:** 3 hrs**Reading Materials:**

- Mulligan, *Common Sense Mechanics in Everyday Orthodontics*, ch. 1-4

Class Objectives:

- 1) To understand the requirements of static equilibrium and the application of moments and forces in clinical situations.

Lecture 7: Mulligan Mechanics 2**Time:** 3 hrs**Reading Materials:**

- Mulligan, *Common Sense Mechanics in Everyday Orthodontics*, ch. 5-8

Class Objectives:

- 1) To understand the requirements of cantilever and two-couple systems.

Lecture 8: Elastics and Elastomerics**Time:** 2.5 hours**Reading Materials:**

- Force degradation in elastomeric chains. Stuart Josell et. al. Semin Orthod 1997; 3: 189-197
- Bokas, Aust Orthod 2006 , May 22: 39-46
- Effect of Prestretching on force degradation of synthetic elastomeric chains. Kyung-Ho Kim et. al. AJODO 2005: 128: 477-82
- In vivo comparison of force decay between injection molded and die-cut stamped elastomers. Joes Bousquet et. al. AJODO 2006: 129: 384-389
- Tensile properties of orthodontic elastomeric chains. T. Eliades et. al. European Journal of Orthodontic 2004: 157-162
- Structural conformation of in vitro and in vivo aged orthodontic elastomeric modules. T. Eliades et. al. European Journal of Orthodontic 1999: 649-658
- Evaluation of Force Degradation Characteristics of orthodontic Latex Elastics in Vitro and In Vivo. Wang, Zhou, and Dong. Angle Orthodontist, Vol 77, No4, 2007
- A Comparison of Dynamic and Static Testing of Latex and Nonlatex Orthodontic Elastics
- Kersey, Glover, Major. Angle Orthodontist Vol 73, No2, 2003
- An In Vitro Study Simulating Effects of Daily Diet and Patient Elastic Band Change Compliance on Orthodontic Latex Elastics. Sean Beattie and Peter Monaghan. Angle Orthodontist Vol 74, No2, 2004

Class Objectives:

- 1) Understand the chemical composition of elastic materials
- 2) List and discuss factors that would change the properties of elastics
- 3) Compare the difference between dynamic and static testing
- 4) Compare force degradation of latex and non-latex elastics
- 5) Compare force degradation of elastomeric chains
- 6) Compare force degradation between prestretch and unstretched elastomeric chains
- 7) Compare force degradation between injection molded or die cut elastomeric chains
- 8) Understand the dental and skeletal effects of using Class I, II, III, vertical, crossbite, and slant elastics

Lecture 8: Friction**Time:** 2.5 hours

Reading Materials:

- Biomechanics in Orthodontics, Nanda: Chapter 4
- Fundamental Review of Variables Associated with Low Velocity Frictional Dynamics by Kusy p223-235
- Friction: Validation of Manufacturer Claim by Rossouw p 236-250
- Quantified Simulation of Canine Retraction Evaluation of Frictional Resistance by Watson p262-280
- Influence of Fluid Media on Frictional Coefficients in Orthodontic Sliding by Whitley p281-289
- Friction and Orthodontic Mechanics: Clinical studies of Moment and Ligation Effect by Nickel p290-297
- Friction does not increase anchorage loading by Southard AJODO 2007 131p412-4

Class Objectives:

- 1) Define friction, static friction, kinetic friction
- 2) Understand and apply low velocity physics
- 3) Describe factors that influences friction
- 4) Understand how tooth movement is influenced by friction
- 5) Apply knowledge in coordinate an appliance system with the lowest and highest friction
- 6) Understand how friction impacts orthodontic movements
- 7) Describe the factors that could increase and decrease friction in the orthodontic system

Lecture 9. Class II Mechanics

Time: 2.5 hours

Reading Materials:

- Graber: Noncompliance appliances p 879-899
- Class II Non-Extraction Patients Treated with Forsus. Jones et al, Angle Ortho. Vol 78, No2, 2008. 332-338
- Treatment effects of the MARA. Kulbersh et at. AJODO 2003;123:286-295
- Effect of the MARA appliance on Position of Lower Anteriors. Toll et al. Journal of Orofacial Orthopedics 2007;68:397-412.
- Forsus Nitonol Flat Spring and Jasper Jumper Corrections. Karacay et al. Angle Ortho Vol 76, No4, 2006: 666-672.
- The Effects, Limitations, and Long-Term Dentofacial Adaptations to Treatment with the Herbst Appliance. Pancherz. Semin Orthod 19973:232-243
- Does Bite-Jumping Damage the TMJ. Ruf, Pancherz. Angle Orthod. 2000;70:183-199.
- Long-term TMJ effects of herbst Treatment. Ruf and Pancherz. AJODO 1998;114:475-83.
- Long-term Dentoskeletal Changes with the Bionator, Herbst, Twin Block, and MARA Functional appliances. Siara-Olds, Kulbersh. Angle Orthod 2010;80:18-29.

Class Objectives:

- 1) Understand the effect of Class II elastic use
- 2) Describe the force systems of various Class II spring systems
- 3) Describe the force systems of various Class II functional appliances
- 4) Describe when is the ideal time to use functional appliances
- 5) Determine the soft tissue, dental and skeletal effects of functional appliances
- 6) Describe the differences between Herbst, MARA, and Bionator
- 7) Determine the effects of functional appliances on the TMJ
- 8) Determine the clinical protocol in using functional appliances

Lecture 13: Class III Mechanics

Time: 2 hrs

Reading Materials:

- Skeletal response to maxillary protraction with and without maxillary expansion. AJODO 2009.
- Early Application of chincap therapy to skeletal Class III Malocclusion by Mitani. AJODO 2002
- Facial growth of skeletal Class III malocclusion and the effects, limitations, and long-term dentofacial adaptations to chincap therapy by Sugawara. Seminars in Orthodontics 1997.

Class Objectives:

Understand the objectives, techniques, and common side effects of class III dental correction.

Lecture 11: Vertical Mechanics

Time: 2 hrs

Reading Materials:

- Baccetti T, Franchi L, Schulz SO, McNamara JA Jr. Treatment timing for an orthopedic approach to patients with increased vertical dimension. Am J Orthod Dentofacial Orthop. 2008 Jan;133(1):58-64.
- Freeman CS, McNamara JA Jr, Baccetti T, Franchi L, Graff TW. Treatment effects of the bionator and high-pull facebow combination followed by fixed appliances in patients with increased vertical dimensions. Am J Orthod Dentofacial Orthop. 2007 Feb;131(2):184-95.
- Schulz SO, McNamara JA Jr, Baccetti T, Franchi L. Treatment effects of bonded RME and vertical-pull chincup followed by fixed appliance in patients with increased vertical dimension. Am J Orthod Dentofacial Orthop. 2005 Sep;128(3):326-36.

Class Objectives:

- 1) Understand vertical control and treatment of vertical problems, including open bites and deep bites.

Lecture 12: Transverse Mechanics

Time: 2 hrs

Reading Materials:

- R Nanda et al. Biomechanics of orthodontic correction of dental asymmetries. *American Journal of Orthodontics and Dentofacial Orthopedics*, 107:618,1995.
- M Adkins et al. Arch Perimeter changes with RPE. *American Journal of Orthodontics and Dentofacial Orthopedics*, 97(3):194-199, Mar 1990.
- J McNamara. RME followed by fixed appliances: A long-term evaluation of changes in Arch dimension. *The Angle Orthodontist*, 73(4):344-353, Aug 2003.

Class Objectives:

- 1) Understand techniques and priorities for correcting symmetrical and asymmetrical transverse problems.

Lecture 14: Removable Mechanics

Time: 3 hrs

Reading Materials:

- Outcome assessment of Invisalign and traditional orthodontic treatment. Djeu, Shelton, and Maganzini, AJODO 2005; 128:292-8.
- How well does Invisalign work? Kravitz, Kusnoto, BeGole, Agran. AJODO 2009; 135:27-35.
- Influence of Attachments and Interproximal Reduction on the accuracy of canine rotation with Invisalign. Kravitz, Kusnoto, Agran, Viana. Angle Orthod 2008; 78: 682-687
- Invisalign G3/G4 summaries/webinars from Dr. Login on Invisalign website

Class Objectives:

- 1) Understand the mechanical limitations of removable appliances, and how to modify removable appliance systems, including Invisalign, for desired treatment effects.

Lecture 15: Space Closing and Opening Mechanics

Time: 2.5 hours

Reading Materials:

- Proffit Chapter 7

Class Objectives:

- 1) Learn various space closure techniques
- 2) Determine the ideal loop design to achieve various tooth movements

Lecture 16: Temporary Anchorage Device (TAD) Mechanics

Time: 2.5 hours

Reading Materials:

- Temporary anchorage devices in orthodontics by Ravindra Nanda

Class Objectives:

- 1) Define the components of TAD
- 2) Understand the history and development of the TAD
- 3) List factors that increase stability in TAD placement
- 4) Understand TAD assisted molar intrusion
- 5) Understand TAD assisted molar uprighting
- 6) Understand TAD assisted incisor and molar intrusion
- 7) Understand TAD assisted molar mesialization and distalization
- 8) Understand TAD assisted cant correction
- 9) Understand TAD assisted transverse correction

ORTD 615, Diagnostic Procedures

Course:	Diagnostic Procedures I, ORTD 615	Course Coordinator:	Evans
Semester:	Fall, Spring, Summer	Updated:	June 30, 2013
Credit Hours:	Four (4), Three (3), Two (2)		
Faculty:	Eltink, Evans, Galang, Handelman, Kusnoto, Lippincott, Taha, Tsay, Yue, Manasse, Sanchez, Opperman		
Class:	First Year		

Course Description

A seminar series (two sessions per week in the fall and one session per week) in the spring is conducted to familiarize the student with various diagnostic techniques utilized in orthodontic case analysis and treatment planning. The pretreatment or transfer records of assigned cases are presented for diagnosis and treatment planning. Seminars are presented mostly by students individually, with contributions and discussion by other class members. Case presentations will continue into the spring and summer semesters with some conducted in conjunction with the second/third year classes who will present cases with transfer/progress/post-treatment records.

Course Objectives

The student should develop knowledge of and/or skill in the accomplishment of the activities and tasks listed below:

1. Patient medical history, record-taking, and the clinical examination.
2. Evaluating influences of functional components of soft tissue structures on morphology.
3. Study model analysis.
4. Taking and evaluating extra-oral and intra-oral photographs.
5. Understanding the risks involved in orthodontic treatment and the need to advise patients accordingly.
6. Performing the technique of Visualized Treatment Objectives (VTO) and understanding its purpose in treatment planning.
7. Identification of relevant anatomical structures on cephalometric radiographs.
8. Tracings of cephalometric radiographs that include essential hard and soft tissue landmarks and contours.
9. Performing cephalometric diagnostic analyses on tracings.
10. Knowledge of cephalometric analyses and their limitations, including computerized cephalometrics.
11. Understanding the techniques and risks involved in making radiographs for orthodontic purposes.
12. Use of cephalometric superimposition to evaluate growth and treatment changes.
13. Evaluating hand-wrist radiographs for determining skeletal maturation.
14. Presentation of complete records of cases and a diagnostic assessment and treatment plan for the active and retention phases of treatment.
15. Ability to arrive at a proper diagnostic assessment on the basis of the patient history, clinical examination, dental casts, photographs, radiographs, cephalometric radiographs, and other relevant data.
16. Evaluation and presentation of records of patients during treatment (progress records).
17. Familiarity with records made at retention and post-retention, and with the methods of case re-evaluation.

Method of Student Evaluation

The faculty will evaluate each student's presentation and understanding of the material presented, as well as the contributions to the discussion other students.

Seminar Topics - Fall Semester

1. Medical history, clinical examination and clinic charts, photographs and intraoral radiographs.
2. Introduction to cephalometrics, and demonstration of cephalometric tracing.
3. Anthropometrics, natural head position, reference planes.
4. Definitions of cephalometric landmarks and planes, tracing correction.
5. Study model analyses.
6. Cephalometric analyses (Downs, Steiner, Wits, Tweed, Ricketts, Reidel, Holdaway, McNamara, Sassouni, Coben). Tracing of patient head films; Illinois Regional Analysis (Wigglegram).
7. Soft tissue analysis.
8. Evaluation of maturation from wrist films; Reproducibility and reliability of cephalometric landmarks.
9. Frontal/basilar radiographs, advanced cephalometric anatomy (Ricketts, Grayson, Drummond).
10. Proportional analyses (Mesh).
11. Special diagnostic considerations and risk management.
12. Cephalometric superimpositions.
13. Treatment objectives and treatment planning.
14. 2D/3D computerized cephalometrics.
15. Growth prediction (VTO).

At the conclusion of this course the learner will be able to:

1. To identify and develop problem list, treatment objective and treatment plan on various cases (skeletal/dental) with Class I, II and III dental/skeletal malocclusion.
2. Gain skills in dental and orthodontic diagnosis and utilizing various diagnostic tools (cephalometric analyses, model analyses, VTO, etc) to better develop treatment
3. Learn what are the available resources and diagnostic techniques for treatment of orthodontic patients with various malocclusions.
4. Have good insight in specific aspects involved in orthodontic treatment of various malocclusions.

COURSE INFORMATION

Prerequisites

Graduation as a general dentist.

Expectations

The faculty expects each student to **attend all** scheduled lectures and actively participate in discussions as well as complete any assignments in a timely manner.

Examination and Grading (Measurement of Competency)

The grading system has four categories: (1) performance evaluations, (2) instructors' observations, (3) varied experiences, and (4) student self-evaluation.

1. Performance evaluations:
 - a. Written examinations with different weights
 - i. Written exams as given by instructors
 - b. Completion of assignments
2. Instructors' observations:
 - a. Daily evaluation
 - i. Each instructor will evaluate the resident based on the attendance in the class and participation in group discussion
 - b. Assignment
 - i. Each instructor will evaluate the resident based on completion of assignment with acceptable quality and timely manner.
3. Varied experiences:
 - a. Class assignments
 - i. After each session the instructor may assign an activity based on the subject being discussed such as cephalometric tracing, reading assignments, summary of lecture or demonstration. Assignments will be graded accordingly.
 - b. Quizzes and final exams
 - i. The understanding of each subject being taught in developing diagnostic ability for various orthodontic cases will be assessed during and at the end of the term.
4. Student self-evaluation:
 - a. Hands on
 - i. Residents will be asked to develop treatment plans based on diagnostic tools/principles learned in this course.
 - b. Student reports
 - c. Product examination
 - i. Essay (describing your experience clinical and treatment planning experience with a final paragraph on self-evaluation)

Any student, who misses an examination for a reasonable cause, as determined by the course director, will be allowed to take a make-up examination. This examination may be written, as described above, or oral, or in some other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course. If an essay is assigned, there will be no extension to the essay's deadline.

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than "B" in all courses. Students who earn a final grade of "C" or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

References and Reading Lists

Seminar #1 - Medical History, Clinical Examination and Clinic Charts

Review and evaluation of clinical forms used in determining patients' general case history and dental, facial, and oral examination.

1. Proffit, W.R.: Contemporary Orthodontics, Third Edition. St. Louis: Mosby, pp. 148-195, 2000.
2. Moyers, R.E.: Handbook of Orthodontics, 4th Edition. Chicago: Year Book Medical Publishers, pp. 165-182, 1988.
3. Graber, T.M. and Vanarsdall Jr., R.L.: Orthodontics: Current Principles and Techniques, Second Edition. St. Louis: Mosby, pp. 28-48, 1994.

Seminar #2 - Introduction to Cephalometrics and Demonstration of Cephalometric Tracing (faculty presentation).

An introduction to cephalometrics, with emphasis on the principles of cephalometric radiography and its interpretation. Assignment of cephalometric planes for defining by students. Demonstration of cephalometric tracing technique using common duplicated headfilm.

1. Proffit, W.R.: Contemporary Orthodontics, Third Edition. St. Louis: Mosby, pp. 170-185, 2000.
2. Weims, R.: Cephalometric technique, Ch 3. In: Jacobson, A. Ed. Radiographic Cephalometry - From Basics to Videoimaging, 1995.

Seminar #3 - Anthropometrics, Natural Head Position, Reference Planes

1. Farkas, L.G.: Anthropometry of the Head and Face, 2nd Ed., Raven Press, New York, pp. 9-25, 1994.
2. Moorrees, C.F.A., and Keen, M.R.: Natural head position, a basic consideration in the interpretation of cephalometric radiographs. Am J Phys Anthorp 16:213-234, 1958.

Seminar #4 - Definition of Cephalometric Landmarks and Planes ; Downs Analysis; Tracing Correction.

Discussion of the anatomic basis (using dried skulls) of cephalometric landmarks and planes. Demonstration of landmark identification. Distribution of patient head plates.

1. Proffit, W.R.: Contemporary Orthodontics, Third Edition. St. Louis: Mosby, pp. 170-185, 2000.
2. Caulfield, P.W.: Tracing Technique and Identification of Landmarks, Ch 4. In: Jacobson, A. ed. Radiographic Cephalometry - From Basics to Videoimaging, pp. 53-6, 1995.
3. Jacobson, A.: Downs Analysis, Ch 5. In: Radiographic Cephalometry - From Basics to Videoimaging, pp. 65-76, 1995.
4. Hagg, U., et al: Reproducibility of cephalometric landmarks, an experimental study. Aust. Orthod J. 15:177-185, 1998.

ORTD 615, Diagnostic Procedures

Seminar #5 - Study Model Analysis

1. Proffit, W.R., Ackerman, J.L.. Orthodontic diagnosis: the development of a problem list. In: WR Proffit and HW Fields, eds., Contemporary Orthodontics, Mosby Year Book, Chicago, pp. 160-169, 2000.
2. Andrew, L.F.: The six keys to normal occlusion. Am J Orthod 62:296, 1972.
3. Proffit, W.R., Ackerman, J.L. Diagnosis and treatment planning in orthodontics. In: TM Graber and RL Vanarsdall, eds., Orthodontics - Current Principles and Techniques, Mosby, St. Louis, pp. 52-60, 1994.
4. Tanaka, M.M., Johnston, L.E.: The prediction of the size of unerupted canines and premolars in a contemporary orthodontic population. J Am Dent Assoc 88:798, 1974.
5. Bolton, W.A.: The clinical application of a tooth-size analysis. Am J Orthod 48:504, 1962.
6. Staley, R.N., Kerber, R.E.: A revision of the Hixon and Oldfather mixed-dentition prediction method. Am J Orthod 78:296-302, 1980.

Seminar #6 - Cephalometric analyses (Tweed, Wits)

1. Tweed, C.: The Frankfort - Mandibular Incisor Angle (FMIA). Angle Orthod 24:121-169 (omit photos), 1953.
2. Jacobson, A.: Wits Appraisal, In: Radiographic Cephalometry - From Basics to Videoimaging, Chapter 8, pp. 97-112, 1995.

Lecture #7 - Soft Tissue Analysis

1. Jacobson, A., Vlachos, C: Soft tissue evaluation. In: A Jacobson, ed., Radiographic Cephalometry, Quintessence, Chicago, pp. 239-253, 1995.
2. Nanda, R.S., Ghosh, J.: Facial soft tissue harmony and growth in orthodontic treatment. Seminars in Orthodontics 1:67, 1995.
3. Holdaway, R.M.: A soft tissue cephalometric analysis and its use in orthodontic treatment planning, Part I. Am J Orthod 84:1, 1983.

Seminar #8 - Cephalometric Analysis (Coben, Enlow Pitchfork)

1. Coben, S.E.: The integration of facial skeletal variants. Am. J. Orthod. 41:407-434, 1955.
2. Enlow, D.H.: et al.: A procedure for the analysis of intrinsic facial form and growth, Am. J. Orthod. 56:6-23, 1969.

Seminar #9 - Cephalometric Analysis (Steiner)

1. Steiner, C.C.: Cephalometrics in clinical practice. Angle Orthod 29:8-29, 1959.
2. Handouts

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Seminar #10 - Cephalometric Analysis (McNamara, Ricketts)

1. Jacobsen, A.: Ricketts Analysis. In: Radiographic Cephalometry - From Basics to Videoimaging. Ch. 7, pp.87-95, 1995.
2. Biopressive Therapy as an Answer to Orthodontic Needs. Part I. and II. Robert M. Ricketts. AJO. September , 1976.
3. Progressive Cephalometrics Paradigm 2000. Robert M. Ricketts. 1998.
4. Radiographic Cephalometry. Alexander Jacobson. 1995
5. Orthodontic Cephalometry. Athanasious Athanasiou. 1995.
6. The value of cephalometrics and computerized technology. Robert M. Ricketts. AJO July , 1972
7. McNamara, J.A. and Brudon, W.L.: The cephalometric evaluation of the orthodontic patient. In: McNamara, J.A. and Brudon, W.L.: Orthodontic and Orthopedic Treatment In the Mixed Dentition. Ann Arbor: Needham Press. Chapter 2, pp. 13-54, 1993.

Seminar #11 - Special Diagnostic Considerations

1. Behrents, R.G.: Iatrogenic problems associated with the clinical practice of orthodontics, Orthodontic Treatment-Management of Unfavorable Sequelae. Craniofacial Growth Series. University of Michigan, vol. 31, pages 1-28, 1996.
2. Small, R.L.: Medical and Legal Implications of Unfavorable Orthodontic Treatment Outcomes, Orthodontic Treatment Management of Unfavorable Sequelae, Craniofacial Growth Series. University of Michigan, vol. 31, pages 55-63, 1996.
3. Handouts from Seminars in Orthodontics, vol. 3, June 1997. Orthodontics and the Law.

Seminar #12 - Dental Age/Hand Wrist Films/Cervical Vertebrae

1. Proffit, W.R.: Contemporary Orthodontics. Second Ed., St. Louis, Mosby, pp. 84-85, 1993.
2. Helm, S., Seerstack-Nielsen, S., Skieller, V., and Bjork, A.: Skeletal maturation of the hand with relation to maximum puberal growth in body height. Tandlaegebladet. 12:1223-34. 1971.
3. Bergersen, E.: The male adolescent facial growth spurt: Its prediction and relation to skeletal maturation. Angle Othod. 42:319-338, 1972.
4. Franchi, L. et al.: Mandibular growth as related to cervical vertebral maturation and body height. Am. J. Orthod. Dentofac. Orthop. 118:335-340, 2000.

Seminar #13 - Cephalometric Analysis (Reidel, Holdaway)

To be announced.

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Seminar #14 - Frontal, basilar, and advanced lateral cephalometry

1. Viteporn, S., Athanasiou, A.E.: Anatomy, radiographic anatomy, and cephalometric landmarks of craniofacial skeleton, soft tissue profile, dentition, pharynx, and cervical vertebrae. In: AE Athanasiou, ed., Orthodontic Cephalometry, Mosby-Wolfe, Chicago, pp 21-62, 1995.
2. Athanasiou, A.E., Van der Meij, A.J.W. Posteroanterior (frontal) cephalometry. In: AE Athanasiou, ed., Orthodontic Cephalometry, Mosby-Wolfe, Chicago, pp 141-161, 1995.
3. Grayson, B.H., LaBotto, F.A., Kolbe,r A.B., McCarthy, J.G. Basilar multiplane cephalometric analysis. Am J Orthod Dentofacial Orthop 88:503-516, 1985.

Seminar #15 - Proportional Analyses

Bring colored pencils, a ruler and a protractor to the session.

1. Moorrees, C.F.A.: Proportionate Analysis of Man's Face with a Mesh. In: Jacobson, A. ed. Radiographic Cephalometry - From Basics to Videoimaging, Ch 15. pp. 197-216, 1995.
2. Handouts

Seminar #16 - Cephalometric Superimpositions.

Principles of superimposition will be discussed and demonstrated.

1. Cranial Base
 - a. Bjork, A., Skieller, V.: A synthesis of longitudinal cephalometric implant studies, over a period of 25 years: superimposition of profile radiographs by the structural method in: Normal and abnormal growth of the mandible. European J. Orthod. 5:40-46, 1983.
 - b. Jacobson, A., Sadowsky, L.: Superimposition of Cephalometric Radiographs. In: Jacobson, A. ed. Radiographic Cephalometry - From Basics to Videoimaging, Ch. 12, pp. 165-174, 1995.
2. Maxilla
 - a. Doppel, D.M., Damon, W.M., Joondeph, D.R., and Little, R.M.: An investigation of maxillary superimposition techniques using metallic implants. Am. J. Orthod. Dentofac. Orthop. 105:161-168, 1994.
3. Mandible
 - a. Bjork, A., Skieller, V.: European J. Orthod. 5:40-46, 1983.
 - b. Handouts
4. Pitchfork Analysis: Johnston, L.E.: Balancing the books on orthodontic treatment: An integrated analysis of change. British J. Orthod. 23:93-102, 1996.

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Seminar #17 Treatment Objectives

1. Handouts from Seminars in Orthodontics, vol. 6, March 2000. Objective-Driven Orthodontics – Effectiveness of Mechanotherapy.

Seminar #18 - Computerized Cephalometrics

1. Walker, R.P.: Computer applications in orthodontics. In: Graber T.M. and Vanarsdall Jr., R.L., Orthodontics: Current Principles and Techniques. 2nd Ed.: St Louis, Mosby 1994, pp. 268-290.
2. Grayson, B.H., Cutting, C., Bookstein, F.L., Kim, H., McCarthy, J.G.: The Three-Dimensional Cephalogram: Theory, Technique and Clinical Application. Am J Orthod Dentofacial Orthop. 327-337, 1988.
3. Bookstein, F.L., Grayson, B.H., Cutting, C.B., Kim, H., McCarthy, J.G. Landmarks in Three Dimensions: Reconstruction from Cephalograms Versus Direct Observation. Am J Orthod Dentofacial Orthop. 133-140, 1991.
4. Kusnoto, B., Evans, C.A., BeGole, E.A., de Rijk, W. Assessment of Three-Dimensional Computer-Generated Cephalometric Measurements. Am J Orthod Dentofacial Orthop. 390-399, 1999.
5. Jacobson A. Radiographic Cephalometry: From Basic to Video Imaging. Chapters 19-22. 1995.
6. Ahmad I. Dental Photography: A Practical Clinical Manual. Chapter 3. Requisite Equipment for Image Capture. Quintessence Pub. 2004, pp. 48-67.

Seminars #19 & #20 - Growth Prediction (VTO)

Tracing materials, including a red pencil, are required.

1. Ricketts, R.M.: New perspectives on orientation and their benefits to clinical orthodontics - Part I and II. Angle Orthod 45:238-248, 1975 and 46:26-36, 1976.
2. Bench, R.W., Gugino, C.F., and Hilgers, J.J.: Bioprogressive therapy. Part 3. Visual treatment objective. J Clin Orthod 11:744-763, 1977.
OR
Ricketts, R.M., Bench, R.W., Gugino, C.F., Hilgers, J.J., and Schulhof, R.: Bio Progressive Therapy, 1979.
3. Bench, R.W., Gugino, C.F., and Hilgers, J.J.: Bioprogressive therapy. Part 4. The use of superimposition areas to establish treatment design. J Clin Orthod 11:820-834, 1977.
4. Ricketts, R.M.: Perspectives in the clinical application of cephalometrics - the first fifty years. Angle Orthod 51:115-150, 1981.
5. Ricketts, R.M.: A four-step method to distinguish orthodontic changes from natural growth. J. Clin Orthod 9:208-228, 1975.

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6. Orthodontic Diagnosis and Planning. Ricketts, Roth, Chaconas, Schuhof, and Engel. 1982
7. An Orthodontic Philosophy. Carl Gugino.
8. Stretching the Mind to New Dimensions. Robert M. Ricketts. 2002
9. Consummate Occlusion. Robert M. Ricketts. 1998.
10. Differences Between Straight Wire Techniques and Biopressive Philosophy. Robert M. Ricketts. 1996.
11. Cephalometric Evaluation of Biopressive Therapy in the Treatment of Overbite. West, Lewin. JCO. vol.23: number 11: (740-747) 1989
12. Bio-Progressive Therapy, Part 8: Bio-Progressive Mixed Dentition Treatment. Bench, Hilgers, Gugino. JCO. vol.12 : number 04: (279-298) 1978
13. Bio-Progressive Therapy, Part 9: Mechanics Sequence for Class II Division I Cases. Bench, Hilgers, Gugino. JCO. vol.12 : number 05 : (334-357) 1978
14. Bio-Progressive Therapy, Part 10: Mechanics Sequence for Class II Division I Cases. Bench, Hilgers, Gugino. JCO. vol.12 : number 06: (427-439) 1978
15. Understanding the VTO – Volume I and II. Robert M. Ricketts 1990 American Institute for Biopressive Education – Arizona
16. Holdaway, R.M.: A soft tissue cephalometric analysis and its use in orthodontic treatment planning, Part II. Am J Orthod 85:279-293, 1984.

Seminar #21- Occlusogram

1.1 Handouts

Also to be scheduled:

Case Presentations

Each PGY1 student will present the diagnostic records, in presentation form, of the cases under his/her care. The records will be discussed in detail by the other students and a diagnosis and treatment plan formulated. The student presenting the case will then indicate how the case is being/to be treated. Second year/third year students generally will present transfer, progress, retention or post-retention cases.

ORTD 620, Orthodontic Clinic

Course:	Orthodontic Clinic, ORTD 620	Course Coordinator: Kusnoto
Semester:	Fall, Spring, Summer	Updated: June 30, 2013
Credit Hours:	Fall – Eight (8), Spring – Six (6), Summer – Three (3)	
Faculty:	Listed on A/B Week Schedule	
Class:	Second Year	

Course Description

Approximately 6-7 half days per week are spent in the ongoing treatment of active cases. In addition to the original assigned cases, approximately 15 active transfer cases are assigned from the graduating third year students. Also, approximately 30 patients in various stages of retention are assigned.

Course Objectives

1. Develop ongoing knowledge and clinical skills in patient treatment. Receive a limited number of cases with special problems requiring limited treatment objectives, including cases treated in conjunction with predoctoral dental students.
2. Perform an examination of 10 new patients, obtain diagnostic records, provide a case write-up, diagnosis, treatment objectives, a treatment plan and retention plan for review by the assigned instructor. The approved and complete records are given to a first year student at the beginning of the fall semester, ready for a consultation and beginning treatment.
3. Begin to develop competence in finishing details of a case, progression into the retention phase. Perform a formal review of all cases together with the supervising instructors approximately one year into treatment for all newly assigned cases. Determine the need for diagnostic records and a progress write-up in the patient record. A panoramic and/or strategic intra-oral radiographs are usually needed about six months into treatment to assess the health of the roots (root resorption risk). Entries made in Axium are required and are used during audits to indicate that progress evaluations have been done.
4. Develop skills in fabrication and placement of a variety of retainers.
5. Obtain complete records on completion of the active phase of treatment. Perform a detailed case analysis and write-up in the treatment record for review by the supervising faculty member (See Clinic Manual for details.) Similar records and write-ups should be done at the time of discontinuation of retention and on at least three cases at least two years post retention (final records).
6. Assess patients and prepare patient records for potential presentation for the American Board of Orthodontics Phase III examination.

COURSE INFORMATION

Prerequisites

Successful completion of ORTD 610.

Expectations

The faculty expects each student to **attend all** scheduled clinics and complete assignments in a timely manner.

Examination and Grading (Measurement of Competency)

The grading system has four categories: (1) performance evaluations, (2) instructors' observations, (3) varied experiences, and (4) student self-evaluation. A grade is given in ORTD 620 only after the student meets attendance, clinic policy, and record audit requirements.

Students are evaluated on an ongoing basis by the clinical faculty. At each patient visit, the instructor reviews the work done and must approve codes and notes in the treatment record. Clinical faculty rate the students' case write-ups, technical abilities, patient management, clinic organization and cleanliness, and understanding of treatment progress and mechanotherapy. Increased levels of competence and understanding are expected as the program progresses. All patient records are audited for coding, organization, completeness and approvals. The letter grade for the semester represents a composite grade. Assignment of a C grade results in an assessment of the need and type of remedial help. A deferred (DFR) grade will be assigned if the approvals and charts are not properly maintained; the grade will be changed to an F grade if not remedied. A Grade of F is grounds for department head action, which may include

ORTD 620, Orthodontic Clinic

dismissal, repeating the semester, or extending the length of the program.

1. Performance evaluations:
 - a. Written examinations with different weights
 - i. Written exams as given by instructors
 - b. Completion of assignments
2. Instructors' observations:
 - a. Daily evaluation
 - i. Each instructor will evaluate the resident based on the attendance in the class and participation in group discussion
 - b. Assignment
 - i. Each instructor will evaluate the resident based on completion of assignment with acceptable quality and timely manner.
3. Varied experiences:
 - a. Class assignments
 - i. After each session the instructor may assign an activity based on the subject being discussed. Assignments will be graded accordingly.
 - b. Quizzes and final exams
 - i. The understanding of each subject being taught will be assessed during and at the end of the term.
4. Student self-evaluation:
 - a. Hands on exercises
 - b. Student reports
 - c. Product examinations, such as essays describing the experiences with a final paragraph on self-evaluation

Any student, who misses an examination for a reasonable cause, as determined by the course director, will be allowed to take a make-up examination. This examination may be written, as described above, or oral, or in some other format that will allow the student an opportunity to demonstrate his/her knowledge and understanding of the material covered in this course. If an essay is assigned, there will be no extension to the essay's deadline.

Assigned Reading and Course Materials

Detailed procedures, course materials, equipment instructions, etc., are located in Blackboard in a section called ORTD 101.

Remediation

The Department of Orthodontics follows the General Policies of the College of Dentistry for graduate and postgraduate courses.

General Policies

Policy on Disability Accommodations

It is the policy of the College of Dentistry to make every reasonable effort to accommodate students with disabilities in accordance with University policy and Federal law. Students who require accommodation should contact the Office of Disability Services (ODS) and the College of Dentistry Office of Student and Diversity Affairs to arrange for their accommodations well before the start of the semester for which accommodations are desired.

Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than "B" in all courses. Students who earn a final grade of "C" or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

Absences

Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

ORTD 630, Orthodontic Clinic

Course: Orthodontic Clinic, ORTD 630
Semester: Fall, Spring
Credit Hours: Fall – Eight (8), Spring – Eight (8)
Faculty: Listed on A/B Week Schedule
Class: Third Year

Course Coordinator: Kusnoto
Updated: June 30, 2013

Course Description

Continuation of the students' ongoing supervised clinical experience. The students continue to be involved with assisting predoctoral dental students with the clinical management of minor tooth movement cases

Course Objectives

1. It is expected that most of the routine original patients who were assigned during the first year will be retained prior to completion of the third academic year.
2. Toward the end of the spring semester prior to graduation a transfer report for all active cases will be provided and reviewed by the supervising instructor. Approval of the transfer report in Axium is required. Clinic instructors will have reviewed all active cases under their supervision in the clinic.
3. All debonded cases will have a final report that must be entered into Axium and approved by the supervising instructor.
4. In the spring semester, three particularly interesting cases with high quality pretreatment and retention records are selected for presentation at the American Association of Orthodontists Annual Meeting.
5. Students will assess patients and prepare patient records for potential presentation for the American Board of Orthodontics Phase III examination.
6. Completion of ORTD 630 requires successful outcome of an oral examination from an outside expert examiner. Three cases started and finished by the resident must be prepared in ABO format for the examination.

COURSE INFORMATION

Prerequisites

Successful completion of ORTD 620.

Expectations

The faculty expects each student to **attend all** scheduled clinics and complete assignments in a timely manner.

Examination and Grading (Measurement of Competency)

The grading system has four categories: (1) performance evaluations, (2) instructors' observations, (3) varied experiences, and (4) student self-evaluation. A grade is given in ORTD 630 only after the student meets attendance, clinic policy, and record audit requirements.

Students are evaluated on an ongoing basis by the clinical faculty. At each patient visit, the instructor reviews the work done and must approve codes and notes in the treatment record. Clinical faculty rate the students' case write-ups, technical abilities, patient management, clinic organization and cleanliness, and understanding of treatment progress and mechanotherapy. Increased levels of competence and understanding are expected as the program progresses. All patient records are audited for coding, organization, completeness and approvals. The letter grade for the semester represents a composite grade. Assignment of a C grade results in an assessment of the need and type of remedial help. A deferred (DFR) grade will be assigned if the approvals and charts are not properly maintained; the grade will be changed to an F grade if not remedied. A Grade of F is grounds for department head action, which may include dismissal, repeating the semester, or extending the length of the program.

1. Performance evaluations:
 - a. Written examinations with different weights
 - i. Written exams as given by instructors
 - ii. Completion of assignments

ORTD 630, Orthodontic Clinic

2. Instructors' observations:
 - a. Daily evaluation
 - i. Each instructor will evaluate the resident based on the attendance in the class and participation in group discussion
 - b. Assignment
 - i. Each instructor will evaluate the resident based on completion of assignment with acceptable quality and timely manner.
3. Varied experiences:
 - a. Class assignments
 - i. After each session the instructor may assign an activity based on the subject being discussed. Assignments will be graded accordingly.
 - b. Quizzes and final exams
 - i. The understanding of each subject being taught will be assessed during and at the end of the term.
4. Student self-evaluation:
 - a. Hands on exercises
 - b. Student reports
 - c. Product examinations, such as essays describing the experiences with a final paragraph on self-evaluation

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Remediation Policy

Graduate and postgraduate students are expected to earn grades no less than "B" in all courses. Students who earn a final grade of "C" or lower will be offered, on the recommendation of the course director and with the approval of the program director, one of the following: (1) repetition of the course, (2) reexamination and/or additional work, or (3) no remediation.

Failure to maintain an overall grade point average (GPA) of at least 3.0 will result in academic probation.

Academic Dishonesty

Students are expected to complete all assignments and exams on their own, using only the resources and methods allowed by the course director. Instances of academic dishonesty will be addressed with consideration to the seriousness of the violation and in accord with university disciplinary policies. Sanctions for academic dishonesty may include a failing grade for the assignment or examination, a failing grade for the course, and/or expulsion. The course director will consult with the department head in cases of academic dishonesty.

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Students are expected to attend all lectures, labs, and/or clinics associated with this course. Students who expect to miss a class should notify the department office and the course director. Notification does not excuse the absence. The course director has sole discretion for determining how missed coursework will be made up.

Course Evaluation

Students may be asked to by the course director or department head to submit their evaluation of this course. The evaluation may be on a paper form provided for that purpose, or using an online program. In all cases the submissions must not identify the submitter in any manner.

Religious Holidays

Every reasonable effort has been made not to schedule exams or assignments on or during religious holidays. Students who choose to observe religious holidays that conflict with scheduled assignments or exams must notify the course director within ten days of the start of the class. Students will not be penalized for religious observances.

Course: Orthodontic-Periodontic Relationships
(ORTD 667) Course Coordinator: Handelman
Semester: Spring 2013 Updated: December 13, 2012
Credit Hours: Two (2) Class: Second Year
Faculty: Greenberg, Handelman, Nedvetsky
Schmerman

Course Description:

This seminar series will focus on problems encountered in the diagnosis and treatment of malocclusions in adults with emphasis on periodontal, prosthetics and implants needs. The importance of a close interaction between the periodontist, prosthodontist, implant surgeons and orthodontist for optimal patient care will be stressed.

The importance of periodontal disease and the potential for loss of periodontal support as the result of orthodontic treatment (iatrogenic) will be emphasized.

Participant Assignments

Each participant will be responsible for writing two short critical reviews covering specific sections of the reading list which will be assigned at the beginning of the course. Such reviews should be typed and one copy should be made available to the faculty and one copy to the other participants at the time of the seminars.

Students will be asked to make one case presentation of an adult whom they are treating that would be of interest to the group.

All participants should read all references, however, at minimum, read those with an asterisk. Each seminar will be led by the assigned faculty member and active participation in seminar discussions is expected.

Course Objectives

The student has a thorough knowledge of:

- 1) Indications and contraindications of orthodontic treatment in periodontally compromised dentitions.
- 2) Specific aspects of orthodontics treatment in periodontically compromised dentition.
- 3) Contribution of orthodontic treatment to the periodontal condition of patients.
- 4) Limitations of orthodontic treatment including iatrogenic damage.
- 5) Specific aspects of orthodontic treatment in combined orthodontics-restorative patient care.

Revised December 13, 2012

ORTD 667

Calendar for Course in Adult Orthodontics – 2013 “Orthodontic, Periodontal and Prosthetic Relationships”

Faculty: Chester S. Handelman, Orthodontist
 Daniel Greenberg, Periodontist
 Yana Nedvetsky, Restorative Dentistry, Implants
 Mike Schmerman, Periodontist

Time: 8:00 a.m. – 10:00 a.m., Thursdays

- January 3 What the orthodontist must know about periodontal disease. (CH)
- January 10 Orthodontic treatment of the periodontally compromised patient. (CH)
- January 17 Molar uprighting and intrusion and 2nd molar problems. (CH)
- January 24 Periodontal surgery as an adjunct to orthodontic treatment. (MS) (Start at 8:30).
- January 31 Treatment of periodontal disease. (DG) (Start at 8:30 a.m.)
- February 7 Transverse malocclusion. Maxillary expansion in adults (CH)
- February 14 The limitations of orthodontic treatment and iatrogenic consequences. (CH)
- February 21 Transverse malocclusion. Maxillary and Mandibular expansion in adults. (CH)
*First literature review papers due.
- February 28 Gingival recession. Tony Eltink * Student case presentation.
- March 7 Research and Clinic Day. **No Class**
- March 14 Crowding and spacing. Evaluation and treatment options. (CH)
*Student case presentations.
- March 18 **No Class (Break Week)**
- March 28 Orthodontic treatment to enhance prosthetic periodontal and implant treatment (CH)
*Second literature review papers due.
- April 4 Soft tissue consideration in natural dentition and implant supported prostheses (YN)

- April 11 No Class - Department Debate
- April 18 Biological requirements for implant dentistry (YN)
- April 25 The borderline surgical case.
 * Student case presentations.
- May 2 Periodontally accelerated orthodontic treatment (CH)
 *Student case presentations.
- May 9 Idiopathic Condylar Rescription (CH)
 *Student case presentations.

READING LIST

A. Review articles.

1. *Zachrisson BU: Clinical implications of recent orthodontic-periodontic research findings. Semin Orthod 2:4-12, 1996.
2. *Kokich VG: Excellence in finishing: Modifications for the perio-restorative patient. Semin Orthod 9:184-203, 2003.
3. Kwokv, Caton: Prognosis revisited: A system for assigning periodontal progress: J Periodontal, 78:2063-2071, 2007

B. Age

1. Holm-Pederson, Agerback, N, and Thelade, E: Experimental gingivitis in young and elderly individuals. J Clin Periodont 2:14-24, 1975.
2. *VanDerVelden, V: Effect of age of the periodontium - review article. J Clin Periodont 11:181-194, 1984.

C. Oral Cleanliness

1. *Lindhe J, and Nyman S: The effect of plaque control and surgical pocket elimination on the establishment and maintenance of periodontal health. A longitudinal study of periodontal therapy in cases of advanced disease. J Clin Periodont 2:67-79, 1975.

D. Occlusal Trauma

1. Lindhe J, and Svanberg G: Influence of trauma from occlusion on progression of experimental periodontitis in the beagle dog. *J Clin Periodont* 1:3-14, 1974.
2. Meitner S: Co-destructive factors of marginal periodontitis and repetitive mechanical injury. *J Dent Res* 54 (Special Issue C):C78-C85, 1975.
3. *Polson AM, Meitner SW, and Zander HA: Trauma and progression of marginal periodontitis in squirrel monkeys. IV. Reversibility of bone loss due to trauma alone and trauma superimposed upon periodontitis. *J Periodont Res* 11:290-293, 1976.
4. Hanamura H, Houston F, Rylander H, et al: A comparative study of patients with periodontal disease and occlusal parafunctions. *J Periodont*, 58: 173-176, 1987.

E. Bacteriology and Immunology.

1. *Socransky SS, Haffgjee AD: The bacterial etiology of destructive periodontal disease: Current concepts. *J Periodont* 1992; 63:322-331.

F. Pathogenesis of Periodontal Disease

1. *Page RC, and Schroeder HE: Pathogenesis of inflammatory periodontal disease. A summary of current work. *Laboratory Investigations* 33:235-249, 1976.
2. Page RC, and Schroeder HE: Current status of the host response in chronic marginal periodontitis. *J Periodontol* 52:477-491, 1981.

G. Parameters of Periodontal Disease

1. *Listgarten M: Periodontal probing: What does it mean? *J Clin Periodontol* 71:165-76, 1980.
2. Akesson LH, Akansson J, Rohlin M: Comparison of panoramic and intraoral radiography and pocket probing for the measurement of marginal alveolar bone level. *J Clin Periodont* 19:326-332, 1992.
3. Goodson JM, Haffajee AD, and Socransky S: The relationship between attachment level loss and alveolar bone loss. *J Clin Periodontol* 11:348-349, 1984.
4. Lang NP, Joss A, Orsanic T, Gusberti FA, and Siegrist BE: Bedding on probing. A predictor for the progression of periodontal disease? *J Clin Periodontol* 13:590-596, 1986.
5. *Haffajee AD, Socransky S, and Goodson JM: Clinical parameters as predictors of destructive periodontal disease activities. *Clin Periodont* 10:257-265, 1983.
6. Claffey N, Egelberg J: Clinical indicators of probing attachment loss following initial periodontal treatment in advanced periodontitis patients. *J Clin Periodont* 1995; 22:690-696.

7. Jeffcoat MV: Current concepts in periodontal disease testing. *J Am Dent Assoc* 125:1071-1079, 1994.

H. Genetics, Epidemiology, and Environmental Factors

1. *Loe H, Anerud A, Boysen H, and Morrison E: Natural history of periodontal disease in man. Rapid, moderate and no loss of attachment in Sri Lankan laborers 14 to 46 years of age. *J Clin Periodontol* 13:431-440, 1986.
2. Abbas F, VanderVelden, U, and Hart AAM: Relation between wound healing after surgery and susceptibility to periodontal disease. *J Clin Periodont* 11:221-224, 1984.
3. Michalowicz BS, Aeppli D, Virag JG, Klump DA, Hinrichs JE, Segal NL, Bouchard TJ, and Philstrom BL: Periodontal findings in adult twins. *J Periodont* 62:293-299, 1991.
4. *Haber J, Wattles J, Crowley M, Mandell R, Josipura K, and Kent RL: Evidence for cigarette smoking as a major risk factor for periodontitis. *J Periodont* 64:16-23, 1993.

I. Malocclusion and periodontal disease.

1. *Geiger AM, Wasserman B, Thompson RH, and Turgeon LR: Relationship of occlusion and periodontal disease. Part V. Relation of classification of occlusion to periodontal status and gingival inflammation. *J Periodont* 43:554-560, 1972.
2. Geiger AM, Wasserman BH, and Turgeon LR: Relationship of occlusion and periodontal disease. Part VIII. Relationship of crowding and spacing to periodontal destruction and gingival inflammation. *J Periodont* 45:43-49, 1974.
3. *Bjonaas T, Rygh P, and Boe OE: Severe overjet and overbite and reduced alveolar bone height in 19 year old men. *Am J Orthodont Dentofac Orthoped* 106:139-145, 1994.

J. Natural History of Periodontal Disease

1. Becker W, Becker BE, and Berg L: Periodontal treatment without maintenance - a retrospective study in 44 patients. *J Periodontol* 55:505-509, 1984.
2. *Hirschfield L, and Wasserman B: A long term survey of tooth loss in 600 treated periodontal patients. *J Periodont* 49:225-237, 1978.
3. Goodson JM, Tanner CR, Haffejee AD, Sornberger GC, and Socransky SS: Patterns of progression and regression of advanced destructive periodontal disease. *J Clin Periodont* 9:472-481, 1982.
4. Socransky SS, Haffejee AD, Goodson JM, and Lindhe J: New concepts of destructive periodontal disease. *J Clin Periodont* 11:21-32, 1984.

5. *Wojcik MS, DeVore CH, Beck FM, and Horton JE: Retained “hopeless” teeth: Lack of effect periodontally-treated teeth have on the proximal periodontium of adjacent teeth 8 years later. *J Periodont* 63:663-666, 1992.
6. *Artun J, Kokich VG and Osterberg SK: Long-term effect of root proximity on periodontal health after orthodontic treatment. *Am J Orthod Dentofac Orthoped* 91:125-130, 1987.

Part 3 Molar Uprighting, Forced Eruption, and Orthodontic Treatment to Improve Bone Support.

A. Molar Uprighting and Closure of Molar Spaces

1. *Brown IS: The effect of orthodontic therapy on certain types of periodontal disease. I. Clinical findings. *J Periodont* 44:742-756, 1973.
2. *Lundgren D, Kurol J, Thorstensson B, and Hugosan A: Periodontal conditions around tipped and upright molars in adults. *Europ J Orthod* 14:449-455, 1992.
3. *Horn BM, and Turley PK: The effects of space closure of the mandibular first molar area in adults. *Am J Orthod* 85:457-469, 1984.
4. Linskog-Stockland B, Wennstrom J, Nyman S, et al.: Orthodontic movement into edentulous areas with reduced bone height. An experiential study in the dog. *Eur J Orthod*. 15:89-96, 1993.

B. Forced Eruption

1. Ingber JS: Forced eruption: Part II. A method of treating non-restorable teeth. Periodontal and restorative considerations. *J Periodont* 47:203-216, 1976.
2. Kozlovsky A, Tal H, and Lieberman M.: Forced eruption combined with gingival fiberotomy. *J Clin Periodontol* 15:544-538, 1988.
3. Berylunth T, Marinello C, Lindhe J, et al: Periodontal tissue reactions to orthodontic extrusion. *J Clin Periodont* 18:330-336, 1991.
4. *Zachrisson BJ: Repositioning the gingival margin by extrusion and intrusion. *World J Orthod* 4:72-77, 2003.
5. *Zachrisson BJ: Alveolar bone augmentation for implants by orthodontic extrusion. *World J Orthod* 4:168-173, 2003.
6. *Zachrisson BJ: Implant site development by horizontal tooth movement. *World J Orthod* 4:266-272, 2003.

C. Orthodontic Movement and Its Effect on Bone and Gingival Level

1. Polson A, Caton J, Polson AP, Nyman, S, Nood KJ, and Reed B: Periodontal response after tooth movement into intrabony defects. *J Periodont* 55:197-202, 1984.
2. *Wennstrom JL, Stokland BL, Nyman S, and Thilander B: Periodontal tissue response to orthodontic movement of teeth with infrabone pockets. *Am J Dentofac Orthoped* 103:313-319, 1993.
3. Melsen B, Agerbaek N, Eriksen J, and Terp S: New attachment through periodontal treatment and orthodontic intrusion. *Am J Orthod Dentofac Orthop* 94:104-116, 1988.
4. *Kokich VG: Esthetics: The orthodontic-periodontic restorative connection. *Semin Orthod* 2:21-30, 1996.
5. Cardaropoli D, Re S, Corrente G et al. Intrusion of migrated incisions with infrabony defects in adult periodontal patients. *Am J Orthod Dentofacial Orthop* 120:671-675, 2001.

Part 4 Periodontal Therapy

A. Surgical and Nonsurgical Therapy

1. *Rosling B, Nyman S, Lindhe J, and Jern B: The healing potential of the periodontium following different techniques of periodontal surgery in plaque free dentitions. *J Clin Periodont* 3:233-250, 1976.
2. Ramfjord SP, Caffesse RG, Morrison EC, Hill RW, Kerry GJ, Appleberry Ea, Nissle RR, and Stults DL: 4 modalities of treatment compared over 5 years. *J Clin Periodontol* 14:445-452, 1987.
3. Waerhaug J.: Healing of the dento-epithelial junction following subgingival plaque control. I. As observed in human biopsy material. *J Periodont* 49:1-8, 1978.
4. Badorstern A, Nilveus R, Egelberg J: Effect of nonsurgical periodontal therapy, II. Severely advanced periodontitis. *Clin Periodont* 11:63-76, 1984.
5. Slots J, Rams TE: Antibiotics in periodontal therapy: Advantages and disadvantages. *J Clin periodont* 17:479-493, 1990.

B. Refractory Periodontal Disease

1. Page RC, Altman LC, Ebersole JL, Vandersteen GE, Dohlberg WH, Williams BL, and Osterberg SK: Rapidly progressive periodontitis: A distinct clinical condition. *J Periodont* 54:197-209, 1983.

2. Magnusson I, Marks RG, Clark WB et al: Clinical microbiological and immunological characteristics of subjects with a "refractory" periodontal disease. *J Clin Periodont* 18:291-299, 1991.

C. Mucogingival Problems and Surgery

1. Edwards JG: A surgical procedure to eliminate rotational relapse. *Am J Orthod* 57:35-46, 1970.
2. Vanarsdall RL, and Corn H: Soft tissue management of labially positioned unerupted teeth. *Am J Orthod* 72:53-64, 1977.
3. Wennstrom JL: Lack of association between width of attached gingival and development of soft tissue recession. A 5-year longitudinal study. *J Clin Periodontol* 14:181-184, 1987.
4. *Wennstrom JL: Mucogingival considerations in orthodontic treatment. *Semin Orthod* 2:46-54, 1996.

C. Maintenance

1. *Ramfjord SP: Maintenance care for treated periodontitis patients. *J Clin Periodontol* 14:433-437, 1987.

Part 5 Treatment of the Periodontally Compromised Patient, Iatrogenic Problems and the Limitations of Orthodontic Treatment.

A. Orthodontic Treatment and Risks

1. *Boyd RL, Leggott PJ, Quinn RS, Eakle WS and Chambers D: Periodontal implication of orthodontic treatment in adults with reduced or normal periodontal tissues versus those of adolescents. *Am J Orthod Dentofac Orthop* 96:191-198, 1989.

B. Splinting Teeth

1. *Galler C, Selipsky H, Phillips C, and Ammons WF.: The effect of splinting on tooth mobility after osseous surgery (2). *J Clin Periodont* 6:317-333, 1978.
2. Ericsson I, Giargia M, Lindhe J, and Neiderud AM: Progression of periodontal tissue destruction at splinted/non-splinted teeth. *J Clin Periodont* 20:693-698, 1993.
3. Nyman SR, Lang NP: Tooth mobility and the biological rationale for splinting teeth. *Periodontology 2000*, 4:15-22, 1994.

C. Iatrogenic Problems

1. *Zachrisson B, and Alnaes L: Periodontal condition in orthodontically treated and untreated individuals. I. Loss of attachment, gingival pocket depth and clinical crown height. *Angle Orthod* 43:402-411, 1973,
2. *Zachrisson B, and Alnaes L: Periodontal condition in orthodontically treated and untreated individuals. II. Alveolar bone loss: Radiographic findings. *Angle Orthod* 44:48-55, 1974.
3. *McFadden WM, Engstrom C, Engstrom H, and Anaholm JM: A study of the relationship between incisor intrusion and root shortening. *Am J Orthod Dentofac Orthop* 96:390-396, 1989.
4. Kaley J, Phillips C: Factors related to root resorption in edgewise practice. *Angle Orthod* 61:125-132, 1991.
5. Lupi JE, Handelman CS, Sadowsky C: Prevalence and severity of apical root resorption and alveolar bone loss in orthodontically treated adults. *Am J Orthod Dentofac Orthop*:109:28-37, 1996.
6. *Nelson P, Artun J: Alveolar bone loss of maxillary anterior teeth in adult orthodontic patients. *Am J Orthod Dentofac orthoped* 111:328-334, 1997.
7. *Sadowsky C, and BeGole EA: Long-term effects of orthodontic treatment on periodontal health. *Am J Orthod* 80:156-172, 1981.
8. *Levander E, Malmgren O, Eliasson S: Evaluation of root resorption in relation to two orthodontic treatment regimens: A clinical experimental study. *Eur J Orthod* 16:223-228, 1994.
9. *Lang NP, Spield U, Bragger U: Effect of chlorhexidine (0.12%) rinses on periodontal tissue healing after tooth extraction. *J Clin Periodont* 21:415-421, 1994.
10. Bragger U, Schild U, Lang ND: Effect of chlorhexidine (0.12%) rinses on periodontal tissue healing after tooth extraction (II). Radiographic parameters. *J Clin Periodont* 21:422-430, 1994.

D. Anatomic Limitations

1. *Edwards JG: A study of the anterior portion of the palate as it relates to orthodontic therapy. *Am J Orthod* 69:249-273, 1976.
2. *TenHoeve A, and Mulie RM: The effect of antero-posterior incisor repositioning on the palatal cortex. *J Clin Orthod* 10:804-822, 1976.
3. *Mulie RM, and TenHoeve A: The limitation of tooth movement within the symphysis studied with laminography and standardized occlusal films. *J Clin Orthod* 10:882-899, 1976.

4. Arun J, Krogstad: Periodontal status of mandibular incisors following excessive proclinations. A study in adults with surgically treated mandibular prognathism. Am J Orthod Dentofac Orthop 1987, 91:225-232.
5. Wehrbein H, Fuhrmann RA, Diedrich PR: Periodontal conditions after facial root tipping and palatal root torque of incisors. Am J Orthod Dentofac Orthop 106:455-62, 1994.
6. Wehrbein H, Bauer W, Diedrich P: Mandibular incisors, alveolar bone, and symphysis after orthodontic treatment. A retrospective study. Am J Orthod Dentofac Orthop 110:239-246, 1996.
5. *Handelman CS: The anterior alveolus: Its importance in limiting orthodontic treatment and its influence on the occurrence of iatrogenic sequelae. Angle Orthod 66:96-110, 1966.
6. 1. Biomechanic and appliance design. Seminars in Orth. 1995, Vol 1, No. 1
2. Vol. 1, No. 2. 1995

Part 7 Treatment of Adult Malocclusions: Crowding and Palate Expansion

1. *Tuverson DL: Anterior interocclusal relations. Part I and II. Am J Orthod 78:361-370 and 371-393, 1980.
2. *Kokich VC, and Shapiro PA: Lower incisor extraction in orthodontic treatment. Angle Orthod 54:139-153, 1984.
3. *Sheridan JJ: Air rotor stripping update. J Clin Orthod 21:781-788, 1987.
4. *Handelman CS: Nonsurgical rapid maxillary alveolar expansion in adults: A clinical evaluation. Angle Orthod 67:291-308, 1997.
5. Northway WM: Surgical assisted rapid maxillary expansion: A comparison of technique, response and stability. Angle Orthod 67:309-320, 1997.
6. *Handelman CS, Wang L, BeGole EA, Haas AJ: Nonsurgical rapid maxillary expansion in adults: Report on 47 cases using the Haas expander. Angle Orthod 70:129-144, 2000.
7. Bryk C, White LW. The geometry of Class II correction with extractions.

Part 8 See Dr. Nedvetsky's reading list.

UIC

OSCI 441

Statistics for Oral Sciences

Instructors:

Christopher Engeland, PhD

Charles W. LeHew, PhD

Brad Johnson, DDS, MHPE

Grace Viana, MSc

Ellen BeGole, PhD

Judy Yuan, DDS, MS

College of Dentistry, University of Illinois at Chicago

Fall 2013

Fall 2013 3 credits

Course Director:

Christopher Engeland, PhD, Assistant Professor, Department of Periodontics, College of Dentistry, UIC, 801 S. Paulina (MC 859), Chicago, IL 60612, Tel: 814 865-4694; engeland@uic.edu

The primary goal of this course is to introduce residents to a variety of techniques for analyzing quantitative data and to provide hands-on experience in performing these analyses with statistical software. Residents will gain a sense of the breadth of techniques available for understanding and exploring relationships in data. This course will provide a statistical basing for future research questions and projects. Ultimately, we hope this course will free residents from the tyranny of fear which seemingly surrounds quantitative data analysis in research. ☺

Course Instructors (Contact Information):

Christopher Engeland (Perio), Tel: 814 865-4694; engeland@uic.edu

Charles W. LeHew (Pedo), Room 563B, Tel: 312 355-4479; lehew@uic.edu

Brad Johnson (Endo), Room 302A, Tel: 312 996-8519; bjohnson@uic.edu

Grace Viana (Ortho), Room 109B, Tel: 312 996-1810; gviana@uic.edu

Ellen BeGole (Ortho), Room 237A, Tel: 312 996-1812; ebegole@uic.edu

Judy Yuan (Pros), Room 351C, Tel: 312-355-4027; yuanjudy@uic.edu

Course objectives: Upon completion of this course residents will be able to:

- 1 Organize a data set and examine data for discrepancies and errors in entry.
- 2 Explore the relationships between variables in a data set and identify interesting patterns.
- 3 Select appropriate statistical methods for testing hypotheses in a set of data and perform the analyses.
- 4 Interpret and report the results of statistical analyses.
- 5 Recognize the limitations of quantitative data analysis.

While residents will cover a number of issues during the course, it is not expected that they will gain an in depth view of all aspects of every issue that is raised. However, the residents will have a chance to begin to structure their thinking around issues in data analysis, gain a set of skills that will allow them to ask new research questions, and become more informed consumers of the research literature in their field.

Suggested Resources:

There is no required textbook for this course. However, for a more comprehensive understanding of the statistical methods used we do recommend the following textbook:

David C. Howell, Statistical Methods for Psychology, Thomson Wadsworth, 2007.

This textbook can be purchased online (new) from amazon.com for \$98 (free shipping included) and second hand for ~ \$61 plus shipping. It is not mandatory for the course but is a useful resource. Your individual departments have been encouraged to purchase a copy – before purchasing please speak to your individual course instructor(s). This book is a useful and practical guide to statistics.

In addition, Dr. Ellen BeGole has written an SPSS Manual which will serve as a valuable study aid for this course. A copy will be made available on Blackboard. Both the textbook and manual are optional for this course and material will not appear on the final exam that has not been covered in online lectures and assignments. Optional readings from these two books will be suggested throughout the course.

Software:

Computers in the 4th floor Commons Area (COD) have been equipped with Statistical Package for the Social Sciences (SPSS) 20.0 for the purpose of this course. If you prefer to own a copy of SPSS, this software can be purchased from the UIC Micro/Station (<http://www.microstation.uic.edu>) or ordered online or from many computer stores. It might also be available through UIC's E-Sales website (we can only see the software available to faculty/staff): <http://www.uic.edu/depts/accc/home/SOFTWARE.html>

Versions of SPSS older than SPSS 20.0 may not be compatible and are not acceptable for this course.

SPSS has become the standard windows-based statistical software package for most psychological and educational applications. It is available in versions for MS Windows, Mac, and other operating systems. It includes a large array of statistical procedures and provides a convenient windows-based interface. As residents, you are eligible to purchase the "Graduate Pack" version, which comes with very little documentation but is only ~\$115 for the PC and Mac, and includes all the procedures you're likely to want for a long time. Be sure that your version of SPSS includes a full version of SPSS Base (with no case or variable limits), SPSS Advanced Models™, and SPSS Regression Models™, as you will need them for this course.

Course Sites:

We will be using Blackboard for this course. This is available through the UIC home page quick links, and there is also a link from the College of Dentistry home page.

The URL is <http://blackboard.uic.edu>. You login using your University NetID and login.

All course lectures will take place in Blackboard. The course datasets and documentation will also be posted there, as will class-wide discussions and questions for instructors.

Schedule:

The course includes posted lectures (in PowerPoint), assigned readings, and hands-on analysis of data sets. The lectures and assignments for each topic (along with the data sets) can be found by pressing the "Assignments" tab in Blackboard.

The optional readings will provide additional information on topics covered in the lectures as well as help in conducting analyses using SPSS.

Assignments:

Residents will be grouped into pairs. For assignments, each pair will post their results on Blackboard. In addition, residents will individually comment on the postings of 2 pairs each week who have been selected as Presenters. Thus, online discussion is required about posted assignments and will comprise 20% of the grade for each assignment. As with many things, the more you put into this course the more you will get out of it. This discussion should take place between Tuesday (5 pm) and Fri (5 pm), after which we will provide feedback on the assignments posted by that week's Presenters, the other submitted assignments, and the ensuing online discussion.

Although each assignment will be graded, we will not be able to formally review each individual assignment. Rather, a general review of all the assignments will be posted. Each assignment is worth 8/10 marks.

The remaining 2/10 marks will be determined by the discussion, and this will be scored on an individual basis. We strongly recommend commenting on the posting pair's assignment before reading other people's points of discussion. You may also wish to comment on your experience in completing the assignment (e.g., things you had trouble with, things you liked/disliked, points of confusion).

Please take note of past residents' experiences. Those who participated fully gained self-confidence in quantitative analysis, while the few who remained silent got little out of the course. If you do not ask any questions, we will presume that means you understand the topic fully. However, if it means that you feel so confused that you don't even know what to ask, we urge you to tell us, even if you can't articulate the specifics. The units build on one another, so it is vital that you stay up-to-date. To facilitate this, you will generally be given two weeks for each topic. Importantly, we want you to get the most out of this experience!

The final assignment is an exam that allows you to put into practice many of the techniques you learned in the course. The exam will be "open book" at a computer and will be completed individually.

A note about expectations concerning on-line interactions and feedback:

The faculty will prepare assignments for the residents and will monitor the on-line discussions about the presentation. The faculty will not participate directly in the on-line “Questions for Each Other.” If we did, it would inhibit the resident learning process. Residents are expected to learn from each other and their colleagues’ expertise. However, faculty will read and respond to any questions posted in the “**Queries to Instructor**” forum once every weekday. The faculty will also provide comprehensive end-of-topic comments about presented assignments. The comments should be sufficient to provide adequate feedback to residents. There will be no weekly individual feedback. This is an unrealistic expectation because of the amount of time it would require from faculty. The on-line learning in this course is different from classroom teaching. In the current asynchronous on-line mode, learning relies more on individual effort and group work compared to the spontaneous interactions among/between faculty and residents in the classroom. One advantage of the on-line format is that written interactions can be more thoughtful than in the off-the-cuff classroom interactions because the residents have more time to think through their ideas before presenting them. The time requirements of this course are very flexible in this format as well. And don’t forget, faculty will always be there to clarify.

Office Hours:

Instructors for each department will hold one office hour per week, during which they will be available for one-on-one instruction and advice if needed. Specific times will be listed (by department) on the Blackboard site. Alternate times to meet will be at the discretion of the instructor.

Grading:

The course grade depends on two factors:

- 1) Completion of assignments 70%** (breakdown: 80% group assignment; 20% individual on-line discussion)
- 2) Final exam 30%.** Grading: A: 85-100 B: 75-84 C: 66-74

Note. To obtain a grade of A, a resident must score high in both components AND get a total score of 85 or more. **To pass the course, the resident must pass both the assignments and the final exam.**

Course Overview by Week:

Week 1	Design of Research and Experiments
Week 2	Hypothesis Testing and Error
Weeks 3-4	Data Entry and Exploratory Data Analysis
Weeks 5-6	Categorical Data and Chi-Square
Weeks 7-8	Hypothesis Testing Applied to Means
Weeks 9-10	Non-Parametric Tests
Weeks 11-12	Repeated Measures
Weeks 13-14	Correlation and Regression
Week 15	Review (Individual assignment)

2013 Assignment Schedule:

Week(s)	Receive assignment (Friday) - 7am	Assignment due (generally Tuesday) - 5pm	Comment due (Friday 5pm)	Points	Assignment Done By...
1		8/30 (Fri)	NA	NA	Individual
2	8/30	9/6 (Fri)	NA	/5	Individual
3-4	9/6	9/17	9/20	/10	Pair
5-6	9/20	10/1	10/4	/10	Pair
7-8	10/4	10/15	10/18	/10	Pair
9-10	10/18	10/29	11/1	/10	Pair
11-12	11/1	11/12	11/15	/10	Pair
13-14	11/15	11/26	11/29	/10	Pair
15	11/29	12/6 (Fri)	NA	/5	Individual
16	Final Exam Thu Dec 12 5-7pm				

ANTHRO 534 / OSCI 534 / PMPG 534
DENTAL AND MEDICAL ANTHROPOLOGY WITHIN HUMAN
EVOLUTION
In the Tradition of Clarke Johnson, DDS, MS, PhD
Orthodontist and Anthropologist

FACULTY:

David Reed, PhD, Research Assistant, Department of Oral Biology, College of Dentistry, University of Illinois at Chicago. AREA: Determinates of Tooth Morphology in Primates.

Alison Doubleday, PhD. Assistant Professor, Department of Oral Biology, College of Dentistry, University of Illinois at Chicago. AREA: Dental Modifications in Human History.

Hala Taha DDS, MS, Assistant Professor, Department of Orthodontics, College of Dentistry, University of Illinois at Chicago. AREA: Orthodontics, Dental, and Physical Anthropology.

William Pestle, MSc, PhD, Assistant Professor, Department of Anthropology, University of Miami, Miami, Florida. AREA: Physical Anthropology, Bio-Archeology, Archaeology, Human Osteology, Paleopathology, Paleodiet

Robert Druzinsky, PhD, Associate Professor, Department of Oral Biology, College of Dentistry, University of Illinois at Chicago. AREA: Evolution and Human Disease

Michael Colvard, DDS, MTS, MS, FDS RCSED. Department of Oral Medicine and Diagnostic Sciences, College of Dentistry, University of Illinois at Chicago; Department of Anthropology and Botany, Field Museum of Natural History. AREA: Medical Anthropology, Paleopathology, Medical Ethnobotany, Ethnomedicine,

COURSE HOURS: Variable 1 to 3 Hours.

LOCATION: Unless otherwise noted, class will meet on the First Floor, in the Orthodontics Ricketts Research and Conference Facility, Department of Orthodontics, UIC College of Dentistry.

COURSE DESCRIPTION: ANTHRO/OSCI/PMPG 534 is designed as a dental and medical anthropology course, with central orientation on hominid teeth. This is a research, reading, and lab-based summer concentration. This course will survey, from the dental clinical viewpoint, current literature in primate and hominid evolution and ancient evolution of patterns of disease and treatments (history of dental medicine and paleopathology) with respect to dentistry. Current literature detailing global healing systems (medical anthropology), ethnomedicine, ethnopharmacology (origins of modern botanical and natural medicines), and forensic sciences with respect to dentistry will be

studied. This course will provide students with the opportunity to broaden their knowledge base in the clinical dental, forensic, and medical anthropology sciences as well as global trends in medical care, preparing them for future clinical practice of dentistry, dental anthropology, dental forensics and identification.

PREREQUISITES: Senior level or Graduate Students with consent of the instructor. This course is designed as an introduction to dental and medical anthropology for dental, medical, nursing, and pharmacy Residents planning to work in the anthropology, archeology, dentistry, forensic science, medicine, nursing, pharmacognosy, or public health domains. Additionally, this course can assist Graduate Students specializing as scientists in anthropology, criminal and forensic sciences, pharmacognosy, and public health.

SCHEDULE:

Class meets 1:00 PM to 2:30 PM Thursdays. Lab: 2:30 PM to 5:00 PM

It is **absolutely essential** that you plan your day and patients to guarantee that you arrive on time for every class.

CALENDAR:

June 20:

Course Logistics, Introduction to Hominid Family. William Pestle, MSc, PhD / Michael Colvard, DDS, MS, FDS RCSED.

Textbook: What Makes Us Human: How Evolution, Culture and Serendipity Shape Who We Are and Who We Will Become. Scientific American, Volume 22, Number 1, Winter 2013.

Readings: Wood 2010, Koussoulaku 2009, Koussoulaku 2009, Huysseune 2009, Soukup et al. 2008, Wood and Richmond 2000.

POPULAR INTERNET LINKS:

<http://www.nhm.ac.uk/nature-online/life/human-origins/modern-human-evolution/>

<http://humanorigins.si.edu/evidence/human-fossils/species/homo-sapiens>

<http://upload.wikimedia.org/wikipedia/commons/3/37/Map-of-human-migrations.jpg>

June 27:

Evolution of Modern Humans and Relationships to Diseases, Robert Druzinsky, PhD.
READINGS:

July 04:

“Fourth of July” No class, READING WEAK: **TAKE HOME MIDTERM**

July 11:

Biomechanical Determinates of Tooth Morphology in Primate Dentitions. David Reed, PhD.

READINGS: Myoung et al, 2009, Lucas et al. 2008,

July 18:

Dental Modifications, Alison Doubleday, PhD:

READINGS: Bernardini et al. 2012, Gonzales, 2010;

July 25:

Intersection of Orthodontics and Anthropology. Hala Taha, DDS, MS.

READINGS: Rose and Roblee 2009, Corruccini 1990, Heusdens et al. 2000, Scott 1979

Aug 01:

Medical Anthropology, Ethnomedicine, and Human Lifeway's,

Michael Colvard, DDS, MS, FDS RCSED, Field Museum of Natural History.

READINGS: Readings: Cordell and Colvard 2012, Hardy et al, 2012, Colvard and Cordell 2008, Colvard et al. 2006, Cordell and Colvard 2005, Pestle et al. 2007, Etkin 2003, Jackson 1996, Willey-Hoffman, 1994.

August 08:

Biometric and Spectroscopic Anthropology at the Protein Level.

Michael Colvard, DDS, MS, FDS RCSED and William Pestle, PhD.

READINGS: Pestle et al. 2013, Pestle and Colvard 2012, Buzon et al. 2005, Ambrose et al. 2003, Walker and Hewlett 1990.

FINAL PAPERS DUE:**COURSE CREDIT:**

OPTION ONE: 1 hour Graduate School Credit:

1 hour credit: Course attendance, lectures, Midterm, Field Museum Labs.

Final Paper: 10 pages, double spaced, not counting bibliography.

OPTION TWO: 3 hours Graduate School Credit:

Same as option A: Course attendance lectures, Midterm, Field Museum Labs for 3 hours.

Final Paper: 20 pages, double spaced, not counting bibliography.

IN CLASS CD: Dental and Medical Anthropology: Dr Clarke Johnson, DDS, MS, PhD.

CLASSIC TEXTS:

1. The Anthropology of Modern Human Teeth: Dental Morphology and Its Variation in Recent Human Populations. G. Richard Scott and Christy G. Turner 11. New York: Cambridge University Press, 1997.
2. Anthropological Perspectives on Tooth Morphology: Genetics, Evolution, Variation by Scott, George Richard/ Scott, G. Richard. New York: Cambridge University Press, 2013.
3. An Anthropology of Biomedicine. Margaret Lock, Vinh-Kin Nguyen. Wiley-Blackwell. Chichester, UK, 2010.
4. Medical Anthropology: Contemporary Theory and Method. Thomas Johnson, Carolyn Sargent. Praeger, New York. 1990.
5. Medical Anthropology in an Ecological Perspective. Ann McElroy, Patricia Townsend. Westview Press, Boulder, Colorado. 1989.
6. Ethnobotany: Evolution of a Discipline. Richard Evans Schultes, Siri van Reis. Dioscorides Press, Portland, Oregon, 1997.
7. Medicinal Natural Products: a Biosynthetic Approach. 2nd Edition. Paul Dewick. John Wiley and Sons. Chichester, UK. 2002.
8. A History of Dentistry: From the Most Ancient Times Until the End of the Eighteen Century. Vincenzo Guerini. Lea and Febiger. Philadelphia and New York. NY. 1909
9. Gerard's Herball: The Essence thereof distilled by Marcus Woodward, from the Edition of TH Johnson, 1636. Gerald Howe, Publisher, R and R Clark. London, 1927.
10. An Introduction to the History of Dentistry: With Medical and Dental Chronology and Bibliographic Data. Berhhard Weinberger. Mosby. St Louis. MO, 1948.
11. Identification of Pathological Conditions in Human Skeletal Remains. 2nd Edition. Donald Ortner, Academic Press, Elsevier. New York, NY. 2003.
12. Human Skeletal Remains: Excavation, Analysis, Interpretation. 3rd Edition. Aldine Manuals of Archeology, Taraxacum, Washington DC. 1999.

ADDITIONAL LECTURE SPECIFIC READINGS:

David Reed, PhD: Lecture Topic Area: *Biomechanical determinates of tooth morphology in primate dentitions*

REQUIRED READING LIST:

- 1) Lucas, Peter, Paul Constantino, Bernard Wood, and Brian Lawn. "Dental enamel as a dietary indicator in mammals." *BioEssays* 30, no. 4 (2008): 374-385.
- 2) Myoung, Sangwon, James Lee, Paul Constantino, Peter Lucas, Herzl Chai, and Brian Lawn. "Morphology and fracture of enamel." *Journal of biomechanics* 42, no. 12 (2009): 1947-1951

ADDITIONAL READING FOR YOUR TERM PAPER:**THE DIVERSITY OF PRIMATE ENAMEL MICROSTRUCTURE:**

- 1) Maas, Mary Carol, and Elizabeth R. Dumont. "Built to last: the structure, function, and evolution of primate dental enamel." *Evolutionary Anthropology Issues News and Reviews* 8, no. 4 (1999): 133-152.

THE IMPACT OF TOOTH SHAPE ON FOOD PROCESSING

- 1) Berthaume, Michael A., Elizabeth R. Dumont, Laurie R. Godfrey, and Ian R. Grosse. "How does tooth cusp radius of curvature affect brittle food." (2013).

HOW ENAMEL MICROSTRUCTURE IMPACTS FRACTURE MECHANICS

- 1) Bajaj, Devendra, and Dwayne Arola. "Role of prism decussation on fatigue crack growth and fracture of human enamel." *Acta biomaterialia* 5, no. 8 (2009): 3045-3056.
- 2) Bechtle, Sabine, Stefan Habelitz, Arndt Klocke, Theo Fett, and Gerold A. Schneider. "The fracture behaviour of dental enamel." *Biomaterials* 31, no. 2 (2010): 375-384.
- 3) He, Bing, Shengbin Huang, Junjun Jing, and Yuqing Hao. "Measurement of hydroxyapatite density and Knoop hardness in sound human enamel and a correlational analysis between them." *Archives of Oral Biology* 55, no. 2 (2010): 134-141.
- 4) He, Li-Hong, and Michael V. Swain. "Enamel—A functionally graded natural coating." *Journal of dentistry* 37, no. 8 (2009): 596-603.
- 5) Lawn, Brian R., James Jin-Wu Lee, Paul J. Constantino, and Peter W. Lucas. "Predicting failure in mammalian enamel." *Journal of the Mechanical Behavior of Biomedical Materials* 2, no. 1 (2009): 33-42.

HOW ENAMEL MICROSTRUCTURE IMPACTS WEAR

- 1) Lucas, Peter W., Ridwaan Omar, Khaled Al-Fadhalah, Abdulwahab S. Almusallam, Amanda G. Henry, Shaji Michael, Lidia Arockia Thai, Jörg Watzke, David S. Strait, and Anthony G. Atkins. "Mechanisms and causes of wear in tooth enamel: implications for hominin diets." *Journal of The Royal Society Interface* 10, no. 80 (2013).

COURSE OUTLINE
OSCI 537
BIOSTATISTICS APPLIED TO CRANIOFACIAL RESEARCH

OBJECTIVES

The purpose of this course is to interrelate biostatistics with orthodontics in order to promote correct interpretation of the literature. It is also intended to guide the residents with the basic information needed for their own research.

Basic information on statistics may be presented. Guest speakers are occasionally invited to present their expertise to the residents.

At the conclusion of the course, the student will be able to:

1. Understand and evaluate literature.
2. Interrelate to presentations in other seminars.
3. Understand the author=s interpretation of articles.
4. Be better prepared to present their own research with appropriate interpretation and conclusions.

COURSE INFORMATION

Prerequisites

Enrollment in the Master of Oral Sciences program and the Orthodontic certificate program.

Expectations

This is a 3-credit/hour course which extends over the entire time of residency. Each student is expected to attend all scheduled lectures and to participate.

Examination and Grading

The grading system has two categories: (1) performance evaluations based on participation, and (2) instructor=s observations based on attendance and being on time for the class. Letter grades will be assigned at the end of the course.

READING MATERIAL

- § Barnett ML, Hyman JJ. Challenges in interpreting study results. The conflict between appearance and reality. J Am Dent Assoc 137:32S-33S, October 2006.
- § Baumrind S. Some comments on clinical studies in orthodontics and their applications to orthodontic treatment. Semin Orthod 5(2):96-109, 1999.

- § Bollen AM, Cunha-Cruz J, Bakko DW, Huang GJ, Hujel PP. The effects of orthodontic therapy on periodontal health. A systematic review of controlled evidence. *J Am Dent Assoc* 139:413-422, April 2008.
- § Crawford JM, Briggs CL, Engeland CG. Publication bias and its implications for evidence-based clinical decision making.
- § DeGuzman L, Bahiraei D, Vig KWL, Vig PS, Weyant RJ, O'Brien K. The validation of the Peer Assessment Rating index for malocclusion severity and treatment difficulty. *Am J Orthod Dentofacial Orthop* 107(2):172-176, 1995.
- § Glick M, Meyer DM. Evidence or science based? *J Am Dent Assoc* 142(1):12-14, January 2011.
- § Glick M, Greenberg BL. The hermeneutic pitfalls of *P*. *J Am Dent Assoc* 141(12), 2010.
- § Gunson MJ, Arnett W, Formby B, Falzone C, Mathru R, Alexander C. Oral contraceptive pill use and abnormal menstrual cycles in women with severe condylar resorption: A case for low serum 17 β -estradiol as a major factor in progressive condylar resorption. *Am J Orthod Dentofacial Orthop* 136(6):772-779, 2009.
- § Gopen GD, Swan JA. The science of scientific writing. *Amer Scient* 78:550-558, 1990.
- § Greenberg RB, Kantor ML. The clinician=s guide to the literature. Interpreting results. *J Am Dent Assoc* 140:48-54, 2009.
- § Hicks ML. How to write the results section of a scientific paper. *J Endod* 19(9):479-481, 1993.
- § Holmes B. Feeling the future. *New Scientist* 39-41, 14 January 2012.
- § Intellectual property: Dividing line between Afair use@ and plagiarism? Principal Investigators Association, Inc., 2010.
- § Journal publication seminar. Instructions for authors from Angle Orthod, J Dent Educ, Am J Orthod Dentofacial Orthop, J Dent Res, Australian Orthod J, J Orthod.
- § Law SV, Chudasama DN, Rinchuse DJ. Evidence-based orthodontics. *Angle Orthod* 80(5):952-956, 2010.
- § Littlewood SJ, Millett DT, Doubleday B, Bearn DR, Worthington HV. Orthodontic retention: A systematic review. *J Orthod* 33:205-212, September 2006.
- § Martinson BC, Anderson MS, de Vries R. Scientists behaving badly. *Nature* 435:737-

738, 2005.

- § Miller JR. Malocclusions and clinical research. 1st Ed, 2009.
- § O'Brien KS, Wright JL, Mandall NA. How to . . . do a randomized controlled trial. *J Orthod* 30:3337-341, 2003.
- § Phillips C. Sample size and power: What is enough? *Semin Orthod* 8(2):67-76, 2002.
- § Philstrom BL. Reporting clinical trial results. *J Am Dent Assoc* 140:12-15, January 2009.
- § Rinchuse DJ, Rinchuse DJ, Karam JR. Consecutive treatments and the Arandom walk@. *Am J Orthod Dentofacial Orthop* 133:792-795, 2007.
- § Tu Y, Nelson-Moon ZL, Gilthorpe MS. Misuses of correlation and regression analyses in orthodontic research: The problem of mathematical coupling. *Am J Orthod Dentofacial Orthop* 130(1):62-68, 2006.
- § Wadman M. One in three scientists confesses to having sinned. *Nature* 435:718-719 and 737-738, June 2005.
- § Williams J. How to . . . Write and analyse a questionnaire. *J Orthod* 30:245-252, 2003.
- § Witt M, Flores-Mir C. Laypeople's preferences regarding frontal dentofacial esthetics: tooth-related factors. *J Am Dent Assoc* 142(6):635-645, 2011.
- § Yancey JM. Ten rules for reading clinical research reports. *Am J Orthod Dentofacial Orthop* 109(5):558-564, 1990.
- § Young NS, Ioannidis JPA, Al-Ubaydli O. Why current publication practices may distort science. *PloS Medicine* 5(10):1-5, October 2008.

CRANIOFACIAL DEVELOPMENT AND REGENERATION

FALL 2012 ADVANCED ORAL SCIENCES

Advanced Oral Sciences: *Clinical Implications of Oral Structures and Function. Graduate Course & Lecture Series [Advanced Oral Sciences 581 & CE Credit]. Thursdays 4.30-6pm, Room 330D. Course Director: Dr. Xianghong Luan*

Craniofacial Development

1	Introduction: Craniofacial Growth and Development	Tom Diekwiisch, UIC Brodie	Sep 6
2	Student Presentations I	<i>Ortho Students</i>	Sep 13
3	Signaling Pathways Regulating Craniofacial Development	David Clouthier, University of Colorado Denver	Sep 20

Proteins in Enamel Development

4	Amelogenin - Thousand Faces of an Enamel Matrix Protein	Tom Diekwiisch, UIC Brodie	Sep 29
5	Student Presentations III	<i>Ph.D. Students/ Others</i>	Oct 4
6	Ameloblastin - Enamel Protein or Vagabond King?	Xianghong Luan, UIC Brodie	Oct 11

Bone Regeneration

7	Biological Minerals as Templates for New Biomaterials	David Kohn, University of Michigan	Oct 18
8	Student Presentations II	<i>Pros/Pedo Students</i>	Nov 1
9	Small Matrix Proteoglycans in Bone Regeneration	Mitsuo Yamauchi, UNC Chapel Hill	Nov 8

Enamel and Periodontal Tissue Engineering

10	Materials Design for Periodontal Regeneration	Tom Diekwiisch, UIC Brodie	Nov 15
11	Student Presentations IV/ Review	<i>Perio/Endo Students</i>	Nov 29
12	Enamel Tissue Engineering	Masaki Honda, Nihon University	Dec 6
13	Student Presentations V/ Examination	Xianghong Luan, UIC Brodie	Dec 13

Appendix I

THE PERIODONTIUM

FALL 2013 ADVANCED ORAL SCIENCES

Advanced Oral Sciences: Clinical Implications of Oral Structures and Function. Graduate Course & Lecture Series [Advanced Oral Sciences 580 & CE Credit]. Thursdays 4.30-6pm, Room 230D. Course Director: Dr. Xianghong Luan

Periodontal Disease, Development, and Regeneration

1	Periodontal Disease & Wound Healing	Tom Diekwisch, UIC Brodie	Sep 5
2	Student Presentations I	Perio Residents	Sep 12
3	Antimicrobial peptides & periodontal bacteria	Sven-Ulrik Gorr, U Minnesota	Sep 19
4	Student Presentations II	Prostho Residents	Sep 26
5	Periodontal Stem Cells & Regeneration	Tom Diekwisch, UIC Brodie	Oct 10
6	Student Presentations III	Endo Residents	Oct 17

Surface Topographies and Bone

7	Periodontal Cell Behavior on Surface Topographies	Douglas W. Hamilton, Schulich Ontario, Canada	Oct 24
8	Student Presentations IV	Pedo Residents	Oct 31
9	Osteoblast-lineage Cells and NFkB in Periodontal Disease	Dana Graves, UPenn	Nov 7
10	Primary Cilia in Skeletal Development and Mechanosensing	L. Darryl Quarles, Memphis, TN	Nov 14
11	Student Presentations V/ Review	Ortho Residents	Nov 21
12	Epigenetics and Craniofacial Development	Dashzeveg Bayarsaihan, UConn	Dec 5
13	Student Presentations VI Examination	Ortho Residents and Ph.D. students Xianghong Luan, UIC Brodie	Dec 12

REGENERATION

FALL 2011 ADVANCED ORAL SCIENCES

Advanced Oral Sciences: *Clinical Implications of Oral Structures and Function. Graduate Course & Lecture Series [Advanced Oral Sciences 581 & CE Credit]. Thursdays 4.30-6pm, Room 330D. Course Director: Dr. Xianghong Luan*

Materials & Ethics

1	Materials Design for Tissue Engineering	Tony Mikos	Rice University	Sep 1
2	Student Presentations I	Pros/Pedo		Sep 8
3	Ethics	Graham Parker	Wayne State U	Sep 15

Progenitors and Periodontal Regeneration

4	Stem Cells from the Tooth Fairy - Origins and Applications of Dental Stem Cells	Tom Diekwiisch	UIC COD Brodie	Sep 22
5	Student Presentations II	Perio/Endo		Sep 29
6	Progenitors and Microtopographies - The Code for Periodontal Regeneration	Tom Diekwiisch	UIC COD Brodie	Oct 6

Dentin Regeneration and Wound Healing

7	Dentin Regeneration	Anne George	UIC COD Brodie	Oct 13
8	Student Presentations III	Ortho		Oct 20
9	Wound Healing and Regeneration	LuAnn di Pietro	UIC COD	Oct 27

Nanotechnology and Clinical Applications

10	Nanofibers for Tissue Regeneration	Xiaohua Liu	Baylor COD	Nov 3
11	"Mesenchymal stem cells: from clinics to bench-top and back"	Songtao Shi	U Southern Cal	Nov 17
12	Student Presentations IV/ Review	Tom Diekwiisch	UIC COD Brodie	Dec 1
13	Student Presentations V/ Examination	Xianghong Luan	UIC COD Brodie	Dec 8

2013 OSUR 532

Diagnosis and Treatment Planning in Orthognathic Surgery

Fall Term, Wednesdays, 7:30-8:30 a.m.

Course Director: Jason Jamali, DDS, MD (jjjamali@uic.edu)

Location: Ricketts Orthodontic Conference Room 138

Course Objectives

The objective of this course is to provide 1st year Orthodontic and Oral and Maxillofacial Surgery residents with the information necessary to properly diagnose dentoskeletal maxillomandibular deformities, and to formulate a problem list and a prioritized treatment plan. At the completion of the course, the student should be able to analyze the diagnosis records of a candidate for orthognathic surgery, perform cephalometric surgery with STOs, Dolphin analysis and computerized predictions, dental model analysis and surgery, and formulate a treatment plan. In addition, various topics of interest to the Orthodontist and Oral and Maxillofacial Surgeon, including craniofacial deformities and surgical management, will be discussed.

Recommended Readings

Profitt. Contemporary Orthodontics.

Profitt, White. Surgical-Orthodontic Treatment.

Bell. Modern Practice in Orthognathic and Reconstructive Surgery.

Epker, Fish. Dentofacial Deformities.

Reyneke. Essentials of Orthognathic Surgery 2nd Ed.

Bell, Profitt, White. Surgical Correction of Dentofacial Deformities.

Miloro. Peterson's Principles of Oral and Maxillofacial Surgery, 3rd Ed.

Date	Topic	Lecturer
08/15/12	Welcome Breakfast	Depts of Ortho and OMS
08/22/12	Introduction to Orthognathics	Miloro
08/29/12	Patient Assessment for Orthognathics	Miloro
09/05/12	3D Planning for Orthognathic Surgery	Miloro
09/12/12	AAOMS Annual Meeting	No Conference
09/19/12	Mandibular Surgery	Miloro
09/26/12	Maxillary Surgery	Jamali
10/03/12	Model Surgery, Splint Fabrication	Stucki
10/10/12	Cephalometric Surgery, STO	Weiskopf
10/17/12	Genioplasty Procedures	Jamali
10/24/12	Surgically-Assisted Maxillary Expansion	Jamali
10/31/12	Cleft Lip and Palate	Jamali
11/07/12	Alveolar Bone Grafting	Jamali
11/14/12	Cleft Orthognathic Surgery	Jamali
11/21/12	Hemifacial Microsomia	Jamali
11/28/12	Craniosynostosis	Jamali
12/05/12	Distraction Osteogenesis	Miloro
12/12/12	Orthognathic Surgery: Current Therapy	Miloro
12/19/12	Final Examination	Jamali

Special Topics in Biostatistics, Seminar Series: Fall and Spring- UIC- College of Dentistry - Orthodontics Department – 2007 to 2012.

Spring 2012 Research Protocol

Spring 2012 Holmes B. Feeling the future. New Scientist 39-41, 14 January 2012

Fall 2011 Frontal dentofacial esthetics. JADA 635-645, 21 June 2011

Spring 2011 Editorial: Evidence or science based.

Fall 2010 Why current publications practices may distort science?

Spring 2010 Scientist behaving badly

Spring 2010 Research Protocol.

Fall 2009 Reporting clinical trials results.

Spring 2009 Commentary and discussing about registration of clinical trials results.

Fall 2008 Sample size and power what is enough?

Fall 2008 What do investigators need to know about animal research.

Spring 2008 Discussing of an article: The effects of orthodontic therapy on periodontal health.

Spring 2008 Critical Thinking, Based on the book "Critical Thinking" by Brunnet DM.

Fall 2007 Special attention to the topics about research strategies.

Spring 2007 Orthodontic retention; a systematic review.

Spring 2007 Research Methodology.

[Welcome](#) | [Mission](#) | [Virtual Tour](#) | [Brodie Institute for Orthodontics](#) | [Kottemann Gallery](#) | [New Clinic](#) | [New Lab](#) | [New Classrooms/Offices](#) | [Contact Us](#)

INFORMATION FOR APPLICANTS TO THE SPECIALTY PROGRAM

Main Links

- [Information for Patients](#)
- [Information for Applicants](#)
- [Faculty & Staff](#)
- [Curriculum](#)
- [Predoctoral Courses](#)
- [Schedule](#)
- [Special Lectures & Seminars](#)
- [Brodie Laboratory for Craniofacial Genetics](#)
- [Alumni News](#)
- [Electronic Study Club for Orthodontics \(ESCO\)](#)
-

Related Links

- [Illinois Society of Orthodontists](#)
- [Public Formal Grievance Procedures](#)
-



801 South Paulina Street
Chicago, Illinois 60612

PROGRAM DESCRIPTION

The Department of Orthodontics, University of Illinois at Chicago, offers a program which leads to a Specialty Certificate in Orthodontics through the College of Dentistry and the M.S. in Oral Sciences degree under the auspices of the Graduate College.

A minimum of 32 consecutive months of continuous attendance is required of candidates for the Specialty Certificate and M. S. degree. Nine residents begin the program each August. Students must register for a full program each semester during their residency, which will include the clinical and didactic courses required for the Specialty Certificate, Oral Sciences courses, research, and teaching.

The program is designed to prepare residents for [American Board of Orthodontics](#) diplomate status. The [curriculum](#) is composed of seminars, lectures, clinical practice with emphasis on critical thinking and problem solving. The program includes instruction and extensive experience in diagnosis and treatment planning, biomechanics, orthognathic surgery and other interdisciplinary procedures. The residents will have the opportunity of treating the full range of different malocclusions in children and adults in a state-of-the-art [orthodontic facility](#).

An original research project intended to produce results suitable for publication in a peer reviewed journal is required for the receipt of the Certificate in Orthodontics as well as the MS Degree. Residents are also encouraged to present their scientific results at regional and national meetings.

The program can be individualized for those who wish to combine specialty training in orthodontics with a Ph.D. degree. The program is accredited by the Commission on Dental Accreditation of the American Dental Association. The content follows the ERASMUS recommendations.

TUITION AND FEES

The College of Dentistry implemented a programmatic tuition for its specialty programs effective with classes matriculating July, 2008 and after. The 2011-2012 programmatic tuition rate is \$27,200 for Fall, Spring and Summer. University fees, instrument costs, etc. will be in addition to tuition charges.

For those students matriculating on and after 2010, the College has implemented a revenue sharing program, Postgraduate Compensation Program . Under this program, eligible students will have an opportunity

to earn, on a semi-annual basis, gross payments equaling **20%** of their actual collections for clinical work performed in their specialty clinics. The revenue sharing program was announced for the 2012-2013 academic year, but is subjected to review subsequently.

We do not provide a stipend or tuition waiver. Consequently, you may wish to apply for financial assistance to help cover the cost of your education. Consideration for federal and/or state aid programs require applicants to complete the FAFSA beginning January 2008. For eligibility and further information visit the UIC's Office of Student Financial Aid WebPages www.vcsa.uic.edu. You may also contact them at (312) 996-3126 or money@uic.edu.

Students are required to purchase their own instruments, at a cost of approximately \$9,300 for first year residents, \$750 for second year residents, and \$550 for third year residents. In addition, students are required to purchase their own clinic digital camera, laptop computer, books, travel to meetings, subscriptions, and memberships. They also pay general fees, student insurance, and the health service fee (totaling approximately \$2,600 per year). We urge our residents to take the written portion of the American Board of Orthodontics examination in Year 2 of the program.

What's new?

Beginning in the Fall, 2013, the university has approved a new international student fee. The fee will be \$80.00 per semester (Fall and Spring) and \$40.00 per summer session for all international students attending UIC in valid non-immigrant status such as F-1, J-1, H-4, and J-2. The fee will allow the Office of International Services to continue to provide essential services, upgrade technologies used for student advising, increase programming options, and host cultural events to increase and expand upon the "UIC Experience."

Thank you in advance for your attention to this important information. If you have any questions, please contact us at 312-996-3121 or ois@uic.edu.

APPLICATIONS

Information about application procedures is available from:
Department of Orthodontics (M/C 841)
College of Dentistry
University of Illinois at Chicago
801 South Paulina Street
Chicago, IL 60612-7211
Fax: 312-996-0873
E-mail: ortho@uic.edu

Please note that we participate both in PASS (Postdoctoral Application Support Service) and in the Postdoctoral Dental Matching Program. Applicants should request BOTH Applicant Agreement Packages from:

PASS

ADEA PASS Contact Information:

ADEA PASS Customer Support Representatives are available Monday through Friday, 9:00 a.m. to 5:00 p.m. (ET), except federal holidays.

Email: passinfo@passweb.org

Phone: 617-612-2065

<https://portal.passweb.org/>

AND

National Matching Services

595 Bay Street, Suite 301

Toronto, Ontario Canada

M5G 2C2

416-977-3431

416-977-5020 (FAX)

E-mail: dentres@natmatch.com

<http://www.natmatch.com/dentres>

The PASS application deadline for the class starting in August, 2014 is August 15th, 2013.

Submit ALL of the following documents as listed:

To PASS (by August 15th, 2013):

1. Completed 2013 PASS Application Form
2. Payment if submitting a money order
3. ETS PPI Evaluation
4. Professional Evaluations if required or desired
5. Official Dean's Evaluation Form (which is to include dental board scores)
6. Institution Evaluation
7. Official Dental School Transcripts

*** Please review the following training videos for prospective applicants and potential evaluators:**

- **Students interested in learning more about the ADEA PASS**

process can review the video of a live webinar about ADEA PASS and Match at
<http://www.youtube.com/watch?v=sDD8TI4iRd8>.

- Faculty and staff completing ETS PPI for ADEA evaluations can learn more about the PPI process at
<http://www.youtube.com/watch?v=oNZ71o0KWMQ&feature=youtu.be>.

If you have any questions or concerns please feel free to contact me at JonesY@adea.org or 202-289-7201 Ext. 190.

Provide the documents listed below to UIC's Department of Orthodontics directly: These materials are required by the program and **not** processed through PASS. **The deadline for these items is August 21, 2013, unless otherwise noted.**

To UIC (by August 21, 2013):

1. Official undergraduate college transcripts
2. Official dental school transcripts
3. Curriculum Vitae/Resume (two pages maximum)
4. Official Dental Admissions Test (DAT) scores
5. Official National Dental Board Examination (NDBE) scores if these exams were taken.
6. UIC Personal Statement. Use **THE FORM** provided by the Department of Orthodontics. (**Please click [HERE](#) to download the form.**)
7. Official TOEFL (Test of English as a Foreign Language) examination results, required of applicants educated in a country where English is not the primary language.
8. Official Graduate Record Examination scores (**GRE is REQUIRED for all applicants. Candidates are expected to score in the upper 50th percentile.**)
9. ONLY CANDIDATES ACTUALLY SELECTED FOR THE ORTHODONTIC SPECIALTY PROGRAM WILL BE REQUIRED TO PAY A PROCESSING FEE TO UIC'S ADMISSIONS OFFICE. The non-refundable application fee for both U.S. and international applicants is \$60.00 (non-refundable). **DO NOT SEND MONEY YET.**

Note:

* We understand that not all candidates take DATs, but we want to see the standardized tests that they have taken. For DATs we will evaluate the admissions packages even if the applicants haven't

submitted all the scores.

* Our GRE and TOEFL requirements are the same as for the MS in Oral Sciences degree program.

* The GRE General is required of all applicants. Candidates are expected to score in the upper 50th percentile.

* Minimum English Competency Test Score, TOEFL 550 (paper-based); 213 (computer-based).

*We would like to receive letters of recommendation directly to UIC, but not if the letters are the same as included the PASS documents.

* Information on detailed application prerequisite and matriculation requirements is available on

<http://programpages.passweb.org/view/878>.

INTERVIEWS

A personal, on-site interview is required for admission except in unusual circumstances. Interviews are usually held in October and early November for applicants selected by the admissions committee. All interviews are scheduled by invitation from the Department of Orthodontics.

Faculty and applicants meet during formal interviews as well as during social events hosted by the current residents. Time is provided for applicants to ask questions of faculty, residents, and staff and to tour the Orthodontic Clinic, Residents' Lab and the University.

After the interview schedule is concluded, the admission committee meet and the results are forwarded to the PASS and Match Programs.

Admission criteria are applied equally to all applicants regardless of race, sex, color, national origin, or religion. We encourage minority students to apply.

REQUIREMENT TO ENROLL

Applicants must possess a DDS, DMD, or equivalent degree.

Should you have any other questions, please contact ortho@uic.edu.



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Contact the [webmaster](#)

December 18, 2012

Name

Address

City

Dear Dr. :

You have been selected for postgraduate study in the Advanced Program of Orthodontics at the University of Illinois, College of Dentistry. Your official acceptance is contingent upon the following points:

1. Submitting updated original official transcripts to the Department of Orthodontics. The official transcripts will indicate all courses taken and the degree received from the registrants of each college you have attended, both undergraduate and graduate including complete dental transcripts. Please submit transcripts in sealed envelopes that have been obtained through the registrar.
2. By February 15, 2013, please return to the UIC Department of Orthodontics a signed copy of this letter and the Medical Immunization form.
3. Agreeing to register for the Master of Science in Oral Sciences degree program in the Graduate College.
 - a. Please use this link for Domestic applicants and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplNon?web_page_id_in=2GD.
 - b. For International Applicants, please use the following link and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplNon?web_page_id_in=2GI
4. Agreeing to apply to the Orthodontics Certificate Program. Please use the following link to apply and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplNon?web_page_id_in=2PR
5. Your application for a specialty training license including required supporting documents should be returned to the Department of Orthodontics accompanied by your check for \$150.00 no later than June 17, 2013. We will obtain the necessary signatures for the CA-DEN form and mail it to Illinois Department of Professional Regulation. The application may be downloaded from:
<http://www.idfpr.com/PROFS/Info/dentist.asp>; in the right column, click on "Dentist, Temporary," scroll down to "Temporary Dental Training License-Non Exam" and complete the form. Don't forget to attach your ED-DEN form with the necessary signatures from your dental school.

You will be assessed tuition based on an estimated programmatic rate of \$29,700, pending approval by the Board of Trustees. Billing will occur in each of the 3 semesters. The rate for fall and spring is estimated at \$11,125 per⁷ semester and \$7,416 for summer. Additional Appendix J

expenses in the first year include university student fees totaling \$4,000, camera, laptop, licensing and board exams, memberships and estimated instrument costs of \$9,300, etc.

The College has implemented a revenue sharing program, the Postgraduate Compensation Program, which is intended to provide a source of income for eligible postgraduate residents in the Orthodontic program. Under this program eligible students will have an opportunity to earn, on a semi-annual basis, gross payments equaling 20% of their actual collections for clinical work performed in their specialty clinics. There are no guarantees expressed or implied as to the amount of income a resident may generate or the program may realize. This program is renewed annually and a decision of continuance made by June 30th; the decision will be effective for classes entering on or after July 1.

Since we do not provide a stipend or tuition waiver, you may wish to apply for financial assistance to help cover the cost of your education. Consideration for federal and/or state aid programs requires applicants to complete the FAFSA beginning January 2013. For eligibility and further information visit the UIC's Office of Student Financial Aid WebPages (<http://www.uic.edu/depts/financialaid/>). You may also contact them at (312) 996-3126 or www.money@uic.edu.

You should plan to immerse yourself in your studies. I especially want to emphasize that this course of study requires a full-time commitment. In view of this, little, if any time, can be spent in outside employment. We look forward to your arrival in the Department of Orthodontics! If you have any questions, please contact Ortho@uic.edu.

Sincerely,

Carla A. Evans, D.D.S., D.M.Sc.
Professor and Head

Encl: 1. Copy of this letter to be returned with signature and date
2. Medical immunization form

College of Dentistry
POLICY AND PROCEDURES FOR PROMOTION AND DISMISSAL
FOR ACADEMIC REASONS
STUDENTS IN ADVANCED SPECIALTY EDUCATION PROGRAMS

1. Recommendations for dismissal of student for academic deficiencies or academic misconduct shall be made by the Department Head and Program Director in consultation with the faculty of the respective certification program. Students holding General Medical Education (GME) residency positions are also subject to the GME Resident Professional Conduct policies.
2. The Program Director shall notify the Department Head and student who has been recommended for dismissal for academic deficiencies in writing (if present) or by certified mail. In the case of an absent student, notification shall be sent to the student via the student's University email and by certified mail to the address of record as found in the Banner system. A copy will also be sent to the Executive Associate Dean for Academic Affairs. The notification will include a copy of the *Policy and Procedures for Promotion and Dismissal for Academic Reasons – Students in Advanced Specialty Education Programs in Dentistry*.
3. Review procedure
 - a. Upon receipt of written notification of recommendation for dismissal, a student may request, in writing, a review of the recommendation for dismissal. The written request for review must be received by the Executive Associate Dean for Academic Affairs within five (5) working days of the student's receiving notification of the action.
 - b. The student is entitled to and should attend all classes, seminars and clinic sessions (unless the dismissal is for clinical incompetence) until final disposition of the case is determined as set forth below.
 - c. The Executive Associate Dean for Academic Affairs shall set a date and time for the review hearing by the Graduate Dental Education Committee (GDEC) which is to be held within ten (10) working days of the receipt of a written request for a review from the student. The Executive Associate Dean for Academic Affairs may extend the 10 working day limitation with the verbal concurrence of the involved student
 - d. The Executive Associate Dean for Academic Affairs shall notify the student and the student's Department Head and Program Director of the time and place for the review. Notification shall be sent to the student via the student's University email. In the case of an absent student, notification shall be sent to the student via the student's University email and by certified mail to the address of record as recorded in the Banner system.

- e. The review will be conducted by the Executive Associate Dean for Academic Affairs along with the Program Directors of each of the other programs. No entitlements accrue to the student at this review except that the student will be requested to be present.
 - f. A simple majority of Program Directors from the departments (excluding the student's department) shall constitute a quorum.
 - g. The review hearing will held in accordance with the *Process for Appeals Hearing UIC Students in Predoctoral and Post-Grad Programs*.
 - h. The Executive Associate Dean will chair the hearing and will have no vote unless there is a tie vote, in which case, the Executive Associate Dean must cast the deciding vote.
4. After the review has been held, the Executive Associate Dean for Academic Affairs shall notify the Department Head, the Program Director and the student in writing of the final decision within seven (7) working days of the completion of the review. Notification shall be given to the student in a formal meeting with the student. In the case of an absent student, notification shall be sent to the student via the student's University email and by certified mail to the address of record as recorded in the Banner.

5. PROCEDURES FOR APPEAL OF GDEC ACTION

a. General

A student affected by any GDEC action may appeal the decision. The Executive Associate Dean for Academic Affairs (or designee), upon receipt of a written petition for appeal from the student, shall initiate the formal GDEC appeal procedures.

A student petitioning for appeal of an action by the GDEC shall be allowed provisional registration until final resolution of the action is made. However, if the cause for the action, in whole or in part, is based on an "F" grade in clinical courses involving patient care, the student shall not be permitted to participate in the clinical program of the College of Dentistry while the appeal is in progress. If the student is considered to be a danger, in any way, to his/her patients, peers, or staff, the student shall not be permitted to participate in the academic or clinical program of the College of Dentistry while the appeal is in progress.

b. Request and Grounds for Appeal

The student's appeal request must be in writing and received by the Executive Associate Dean for Academic Affairs (or designee) within five (5) working days of the student receiving notice of GDEC action. In the appeal request, the student must allege one or more of the following grounds as justification for an appeal to overturn a GDEC decision.

1. Substantial evidence not previously considered:

New evidence exists, sufficient to alter a decision, which was not available to the student at the time of the original hearing.

2. Evidence of prejudice by a member of the GDEC:

Significant evidence exists that a member of the GDEC who took part in the original decision was prejudiced against the student and used that prejudice to influence the other voting members of the committee.

3. Significant policy or procedural errors by the GDEC:

A procedural error occurred in the original hearing on the matter by the GDEC as set forth above, which substantially affected the outcome of the review.

c. Selection of the Appeals Panel

Three (3) full time faculty members who were not part of the original hearing, and who are not members of the appealing student's department shall be appointed by the Dean within five (5) working days of the student's written request. The Dean shall notify the Executive Associate Dean for Academic Affairs of the names of the Appeals Panel members.

d. Scheduling of Appeal

The Executive Associate Dean for Academic Affairs (or designee) shall schedule a meeting of the Appeal Panel within five (5) working days following receipt of the names of the Appeals Panel members. The meeting shall be convened no sooner than ten (10) working days and no later than twenty (20) working days from receipt of the student's appeal request. The student may waive the ten (10) working day provision by signing and dating a waiver agreement. Should the student waive the ten (10) working day provision, all involved parties of interest shall be notified promptly as to the date, time and location of the Appeal Hearing.

e. Notice of Appeal Hearing

The Executive Associate Dean for Academic Affairs shall notify the student, the Appeal Panel and any involved Program Director(s) of the date, time, and place of the appeal hearing. Copies of the GDEC on *POLICY AND PROCEDURES FOR PROMOTION AND DISMISSAL FOR ACADEMIC REASONS-STUDENTS IN ADVANCED SPECIALTY EDUCATION PROGRAMS* and the *PROCESS FOR Hearing – UG-PG STUDENTS* shall be furnished to the departments at the same time that notice of the appeal is given.

e. Appeal Procedures

1. Composition of the Appeal Panel:

The Appeal Panel shall be chaired by the Executive Associate Dean for Academic Affairs, who shall not have a vote. All voting members of the Appeal Panel must be present for the appeal to proceed as scheduled. Ex-officio GDEC members may be present at the discretion of the Chair. In the event of a tie vote, the Executive Associate Dean for Academic Affairs must cast the tie-breaking vote.

2. Evidence to be considered:

The Appeal Panel shall examine the appeal request, consider all relevant information presented to the GDEC at the time its original decision was made and may hear new evidence, interview new witnesses or review new evidence as the Appeal Panel members deem necessary.

- a. The student must submit to the Executive Associate Dean for Academic Affairs (or designee) a list of witnesses he/she would like the Appeal Panel to interview, with reasons (in writing) why the interviews would be relevant. The list of witnesses must be submitted at least 48 hours prior to the scheduled hearing. The Appeal Panel shall have discretion to determine if the evidence or interviews would be relevant.
- b. The chair of the Appeal Panel shall limit discussion to only those issues contained in the appeal request.
- c. The Appeal Panel may recess and reconvene as necessary to consider the evidence presented or as is otherwise appropriate.
- d. The action of the Appeal Panel shall be based on all of the evidence presented at the appeal.

3. Student Involvement:

The student need not appear at the appeal hearing, but the student may request that he/she along with the Associate Dean for Student and Diversity Affairs or his/her advocate be present at times when new evidence is presented. If the student opts to have an advocate present, the Executive Associate Dean for Academic Affairs (or designee) must be notified in writing at least 48 hours prior to the scheduled hearing. Should the advocate be a lawyer, the College of Dentistry must notify University legal counsel and have legal counsel present at the hearing. The Appeal Panel shall determine whether or not it is appropriate to include the student, the Associate Dean for Student and

Diversity Affairs, witnesses and/or the student's advocate at the appeal hearing.

4. Decision of the Appeal Panel:

The Appeal Panel is empowered to do one of the following:

- a. uphold the original hearing decision of the GDEC
- b. modify the decision of the GDEC
- c. overturn the decision of the GDEC

The decision of the Appeal Panel shall be final and shall be implemented immediately. The Executive Dean for Academic Affairs must notify the student, in writing, within two (2) working days of the Appeal Panel's decision. If the student is not present this notification will be sent via registered courier and U. S. mail to the student's address of record in the Banner system.

Approved by the Graduate Dental Education Committee June 17, 2013

Process for Appeals Hearing UIC Students in Predoctoral and Post-Grad Programs

Executive Session

- 1) Assure a quorum is present
- 2) Explain purpose for the Hearing
- 3) Ask for questions or discussions prior to the Student/resident being seated (but only questions for process or procedure)

Open Session

- 4) Escort the student and advisor and the Department Representatives into the hearing room
- 5) Call Meeting to order.
- 6) Explain the purpose of the hearing.
- 7) Introduce the student and advocate
- 8) Have each committee member introduce him/herself to the student
- 9) Explain the process and procedure and rules for advocate (if present).
- 10) Ask student/resident if he/she has any questions prior to the start of the hearing.
- 11) Chairperson of Hearing, Department Head, Program Director or Course Director addresses the committee and explains the reason for action (dismissal). Any materials that are presented should be distributed to all members of the committee and to the student/resident.
- 12) Committee asks questions of the Department Head/Program Director.
- 13) Student/resident is asked to address the committee. Any materials that are presented should be distributed to all members of the committee.
- 14) The committee asks questions of the student/resident.
- 15) Witness or Spokesperson (if present)
 - a) Witness or spokesperson for student invited into hearing room
 - b) Witness speaks, committee asks questions
 - c) Witness leaves hearing room
- 16) Chairperson, Department Head, Program Director or Course Director closing statement
- 17) Student closing statement
- 18) Ask the student/resident if he/she felt that they had a fair opportunity to present his/her case to the committee.
- 19) Thank the student/resident for presenting
- 20) Thank the department for presenting

- 21) Inform the student/resident that they will receive a written response (certified US mail or delivery service) of the committee's decision within seven (7) working days
- 22) Department Head/Program Director/Course Director and Student/Resident are escorted out of the hearing room
- 23) Ask all parties to remain in the area should amplification be needed

Executive Session

- 24) Return to the conference room.
- 25) Advise the committee of the various options that are available. (a. continue academic dismissal or b. recommend the reinstatement of the student into the program with or without conditions).
- 26) Ask that a motion be made.
- 27) Ask for a second to the motion
- 28) Open the floor for discussion
- 29) Vote on the motion.
- 30) Repeat 25-28 until a resolution is reached

Open Session

- 31) Thank the committee for meeting
- 32) Dismiss the department and student from the waiting area
- 33) Arrange for communication of outcome to all parties (department, university officials, student/resident.)

Approved by SSP September 20, 2012

Approved by Graduate Dental Education Committee June 30, 2013

Appendix M

Copy of the written material given to entering students, describing their rights and responsibilities to the institution, program and faculty.

All entering students are given a packet which contains the following documents:

Blue Folder/Left Pocket

1. Getting started-memos to new residents—US and International
2. Department Roster
3. Department Phone and Address List
4. Key acceptance form
5. Demographic information form
6. Photo Icard form
7. Assistant to Head Business Card
8. Behavior Expectation Contract(two copies)
9. I-9 acceptable documents list
10. Conditional Hire Acknowledgement
11. Confidentiality Agreement
12. Drug Free Workplace
13. CBC form
14. UIC Orthodontic Faculty and Resident Dress Code
15. General Information for Incoming Postdoctoral Students
16. Orthodontics Program Goals and Objectives
17. UIC COD Mission Statement
18. Photo ID Form and Parking Letter
19. (Grad Year) Ortho PG Certificate Class List (from Blackboard-Academic Affairs)
20. Policy and Procedures for Promotion and Dismissal
21. Internal Clearance Form for Postgraduate Students (Graduation)
22. Withdrawal Form for Postgraduate Students (Graduation)
23. Postgraduate Compensation Program Letter
24. Student Financial Aid—most frequently asked questions
25. Student Insurance Coverage Information – CampusCare
26. Student Life Important Telephone Numbers
27. CampusCare FAQs
28. University Policy on Telephones and Usage
29. Excused Absence form
30. CTA-Ventra U-Pass Announcement
31. UIC&COD Tech Essentials

Center Spine—Weekly Schedule

Blue Folder/Right Pocket

32. Chair Arrangements with Resident Number
33. 2nd Floor Locker Assignments
34. Student Disciplinary Policy
35. Human Subjects Guide for Investigators and Research Staff
36. Orthodontics Brodie Room Rules, Library Policy

37. Measuring Gauge from ABO
38. GAC International Ideal Arch
39. Office of Academic Affairs General Memo
40. Blackboard PG&Grad Student Resources
41. Academic Affairs FAQ
42. Journal of Clinical Orthodontics Subscription Form
43. Research @ UIC HIPPA Online Course Information
44. Getting Started Guide from OVCR website
45. Master of Science in Oral Sciences
46. Admissions Login web page Release 8.5.1.2
47. UIC COD M.S. Program in Oral Sciences Policy and Procedures (4 pages)
48. UIC Admissions How to Apply to UIC – Graduate Degree Programs (5 pages)
49. Thesis Publishing Cover Sheet
50. UIC Graduate College Electronic Thesis and Dissertation Step-By-Step Guide
51. COD Office of Research Memo – Guidelines on Authorship of Publications
52. Additional notes on Guidelines on Authorship of Publications
53. UIC Animal Care Training

December 19, 2012

Dear Dr. :

You have been selected for postgraduate study in the Advanced Program of Orthodontics at the University of Illinois, College of Dentistry. Your official acceptance is contingent upon the following points:

1. Submitting updated original official transcripts to the Department of Orthodontics. The official transcripts will indicate all courses taken and the degree received from the registrants of each college you have attended, both undergraduate and graduate including complete dental transcripts. Please submit transcripts in sealed envelopes that have been obtained through the registrar.
2. By February 15, 2013, please return to the UIC Department of Orthodontics a signed copy of this letter and the Medical Immunization form.
3. Agreeing to register for the Master of Science in Oral Sciences degree program in the Graduate College.
 - a. Please use this link for Domestic applicants and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplLoginNon?web_page_id_in=2GD.
 - b. For International Applicants, please use the following link and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplLoginNon?web_page_id_in=2GI.
4. Agreeing to apply to the Orthodontics Certificate Program. Please use the following link to apply and select fall 2013 term:
https://ui2web2.apps.uillinois.edu/BANPROD2/bwskalog.P_DisplLoginNon?web_page_id_in=2PR
5. Your application for a specialty training license including required supporting documents should be returned to the Department of Orthodontics accompanied by your check for \$150.00 no later than June 17, 2013. We will obtain the necessary signatures for the CA-DEN form and mail it to Illinois Department of Professional Regulation. The application may be

Phone (312) 996-7138 • Fax (312) 996-0873 • www.uic.edu/depts/dort/ortho.html

downloaded from: <http://www.idfpr.com/PROFS/Info/dentist.asp>; in the right column, click on "Dentist, Temporary," scroll down to "Temporary Dental Training License-Non Exam" and complete the form. Don't forget to attach your ED-DEN form with the necessary signatures from your dental school.

You will be assessed tuition based on an estimated programmatic rate of \$29,700, pending approval by the Board of Trustees. Billing will occur in each of the 3 semesters. The rate for fall and spring is estimated at \$11,125 per semester and \$7,416 for summer. Additional expenses in the first year include university student fees totaling \$4,000, camera, laptop, licensing and board exams, memberships and estimated instrument costs of \$9,300, etc.

The College has implemented a revenue sharing program, the Postgraduate Compensation Program, which is intended to provide a source of income for eligible postgraduate residents in the Orthodontic program. Under this program eligible students will have an opportunity to earn, on a semi-annual basis, gross payments equaling 20% of their actual collections for clinical work performed in their specialty clinics. There are no guarantees expressed or implied as to the amount of income a resident may generate or the program may realize. This program is renewed annually and a decision of continuance made by June 30th; the decision will be effective for classes entering on or after July 1.

Since we do not provide a stipend or tuition waiver, you may wish to apply for financial assistance to help cover the cost of your education. Consideration for federal and/or state aid programs requires applicants to complete the FAFSA beginning January 2013. For eligibility and further information visit the UIC's Office of Student Financial Aid WebPages (<http://www.uic.edu/depts/financialaid/>). You may also contact them at [\(312\) 996-3126](tel:(312)996-3126) or www.money@uic.edu.

You should plan to immerse yourself in your studies. I especially want to emphasize that this course of study requires a full-time commitment. In view of this, little, if any time, can be spent in outside employment. We look forward to your arrival in the Department of Orthodontics on Monday, August 12, 2013 at 8:30 am! If you have any questions, please contact Ortho@uic.edu.

Sincerely,

Carla A. Evans, D.D.S., D.M.Sc.
Professor and Head

Applicant signature and date

Encl: 1. Copy of this letter to be returned with signature and date
2. Medical immunization form



AAMC/ADEA Dental Loan Organizer and Calculator

FACT SHEET

The Association of American Medical Colleges and the American Dental Education Association (AAMC/ADEA) Dental Loan Organizer and Calculator (DLOC) is a new educational debt management tool designed specifically for dental school students and residents. DLOC is designed to help promote responsible borrowing and responsible repayment and should prove a tremendous resource for borrowers who need help managing their student loans. DLOC provides a secure location to both organize and track student loans while also providing repayment information for borrowers under various repayment plans.

Benefits of DLOC

1. With DLOC, you can keep all your student loan borrowing in one electronic file.
2. With DLOC, you always know how much the loans you borrow each year will impact your repayment amounts when you graduate.
3. With DLOC, you always know how much you have borrowed to date.
4. With DLOC, you get help choosing a repayment strategy that works best for you based on your career goals and objectives.

Getting Started

1. To access the Dental Loan Organizer and Calculator, go to www.AAMC.org/GoDental.
2. Follow the simple instructions on the Home Page for first time users.
3. You can manually enter your student loan data or you can choose to export any federal loans you already have that are listed at www.NSLDS.ed.gov into the Dental Loan Organizer and Calculator.

Important Reminders

1. Work closely with your school's Financial Aid Office to ensure you do not miss any important deadlines for grants, scholarships, and campus-based loan programs that may be available, as this may help reduce the amount you have to borrow for dental school.
2. Don't borrow more than you need.
3. Be sure you know your school's financial aid budget (also called the Cost of Attendance) for each year you borrow, and pay close attention to the monthly living allowance.

Questions and Comments

Send your questions and comments on the Dental Loan Organizer and Calculator to FIRST@AAMC.org.

**BEHAVIOR EXPECTATIONS OF ORTHODONTIC RESIDENTS
UIC DEPARTMENT OF ORTHODONTICS**

I understand that teamwork is fundamental to orthodontic practice. I acknowledge that I received UIC's Orthodontic Clinic Manual and the College of Dentistry Clinic Manual and affirm that I will follow the manuals' guidelines as written.

In particular, I agree to

- Follow the dress code and cleanliness rules, and present myself in a professional manner
- Follow clinical documentation, HIPAA/privacy, audit rules, and timelines for chart completion
- Follow library rules, lab rules, and the captain assignments as well as assist my class president in Department activities
- Communicate with patients, staff, faculty, and other residents in a timely and respectful manner

I understand that

- Full-time attendance each day is required, and I will record my full daily schedule in AxiUm™.
- Prior approval from the Department Head, Dr. Evans, is required for any absence or tardiness.
- The front desk should know where I am at all times during regular working hours.
- If I am ill, I will notify both the Business Office by telephone at (312-996-7505) and e-mail David at (dsrebr2@uic.edu) before the day begins.
- Patient records are not my property and must remain under the control of the College of Dentistry.
- The AxiUm™ patient record is a legal document and everything I enter will be truthful.
- Because the Orthodontic Clinic is a specialty clinic and I do not have a license to practice orthodontics independently in the State of Illinois, I must obtain the instructors' approval and electronic signatures to document treatment I provide.
- If I disregard my role as a team member in UIC's Orthodontic Clinic, I am likely to receive a failing grade in the Orthodontic Clinic course – an event which will, at a minimum, prevent me from graduating from the orthodontic specialty program on time. I must fulfill my responsibilities satisfactorily prior to having a clinic grade recorded – **A SECOND TERM WITH AN "INCOMPLETE" OR "DEFERRED" GRADE IN ANY REQUIRED COURSE WILL INITIATE THE PROCESS FOR DISMISSAL FROM THE PROGRAM.**
- A "B" average is required for completion of the M.S. in Oral Sciences program.
- My research protocol is due by the end of the second semester of enrollment in the M.S. in Oral Sciences degree program or I risk failing OSCI 598.
- Checkout for graduation from the orthodontic specialty program requires submission of my defended and revised M.S. or Ph.D. thesis to the Graduate College. I will not be allowed to take my final clinical examinations unless my course, patient, clinic, and research requirements are all satisfactorily completed.
- My personal possessions belong in my locker or desk and I recognize that if they are left behind in the Department, they may be disposed of.
- All work will be my own or properly attributed where appropriate, and I will not plagiarize or be dishonest. I will not expect staff, faculty, or other residents to do my assigned work for me.

I know that I can file complaints about the Specialty Program with the Commission on Dental Accreditation by mail to 211 East Chicago Avenue, Chicago, IL 60611-2678 or by telephone to 1-800-621-8099, Ext. 4653.

I am aware that the Department encourages participation in the American Board of Orthodontics certification process and I give my permission to have the ABO release my grades, quintile rankings, and performance on the examinations to the department.

8/12/2013

Signature of orthodontic resident

8/12/2013

Signature of witness

8/12/2013

Printed name of resident

8/12/2013

Printed name of witness

SIGN TWO COPIES (ONE TO KEEP AND ONE FOR THE DEPARTMENT'S FILE)

Revised: 8/8/2013

Appendix M

UIC Orthodontic Faculty and Resident Dress Code

All faculty and residents are required to wear the appropriate dress that conforms to the UIC Orthodontic Department dress code requirements. The Departmental dress code is designed to project an air of professionalism.

Departmental Dress Code:

Professional Casual for Women:

- Natural or synthetic fiber slacks or at least knee-length skirts
- A collared blouse, sweater set, or conservative sweater
- Consider wearing a stylish jacket over your top if the sleeves are short
- Business style shoes
- Open toe shoes not permitted
- Light use of cosmetics

Professional Casual for Men:

- Natural or blended fiber slacks
- A collared, buttoned shirt with a tie
- Black or brown shoes with heels and a matching belt
- Open toe shoes not permitted
- Dark socks

The dress code includes, but is not limited to, the following prohibitions: chains, body piecing jewelry (except for tasteful ear rings), and writing on attire, jeans (denims), athletic shoes, and shorts. Residents will be prohibited from rendering patient care when not in conformity with the dress code. If you have doubts that the attire you're wearing would meet the professional dress code, it probably won't. Ultimately, your dress should follow the above outline of *professional casual*.

When you are performing lab work in the resident's laboratory you should use an appropriate cover-up of your own and not white doctor's lab coats or disposable clinic gowns. Residents are expected to wear a white coat when on rotation in the Craniofacial Center. Faculty should wear white doctor's lab coat over your professional attire when supervising treatment in the orthodontic clinic.

Personal hygiene is most important and expected for a proper professional demeanor. That would include use of deodorant, good oral health and unobtrusive breath. Hair should be groomed in good taste and beards or mustaches must be neatly trimmed.

Revised 8/22/12

Postgraduate Compensation Program
Effective July 1, 2013 – June 30, 2014

Purpose

The Postgraduate Compensation Program is intended to provide a source of income for eligible postgraduate students in the Endodontic, Orthodontic, Periodontic (Class of 2016 only) and Prosthodontic Advanced Specialty Education programs.

Specifically the Postgraduate Compensation Program is designed to accomplish the following objectives:

1. allow post-graduate students to earn income to offset tuition assessments;
2. encourage increased patient care to contribute to post-graduate student learning; and
3. continue the College-wide initiative to reduce accounts receivable.

The expectation is that the program will also enhance revenues with a goal of having postgraduate programs that are self supporting. There are no guarantees expressed or implied as to the amount of income a resident may generate.

Eligibility

Students (hereinafter referred to as “Post Graduate Students”) enrolled in one of the above listed programs during the period covered by this agreement, and who are eligible to be paid for work in the United States under the terms of this program, can participate.

Continuing Post Graduate Students in the Post-Graduate Program in Periodontics are not eligible for participation in this program. Those students in the Post-Graduate Program in Periodontics who matriculated prior to July 1, 2013 will continue to receive tuition waiver and stipends.

Post Graduate Students who do not pay tuition (e.g. government sponsored, tuition waivers, etc.) are not eligible to participate in this program. Students who are not eligible when they matriculate but become eligible subsequently (e.g. permanent residency status, tuition waiver ends, etc.) will be eligible for payment on applied cash (see Note below) for patient services rendered after the official date of revocation of their exempted status.

Note: Applied Cash is the collection (payment) for treatment that has been both received from the patient or insurer, and “applied” to the treatment in the system (currently AxiUm). Payments that have been received, but not yet applied, in the reporting period will be paid in the reporting period in which the “applied” status is posted. The only report for determining disbursements that will be used by College is the Provider Allocated Payments report found in the axiUm system.

Compensation and Disbursements

Compensation will be **20%** of applied cash from services provided by the post-graduate student during the reporting period. All students, faculty and staff are responsible for attempting to collect current charges and any unpaid balance from previous appointments. Compensation will be determined based upon the Allocated Payments IM report as found in AxiUm. Post Graduate Students will have access to their personal report in AxiUm.

Continuing Students

Disbursements will be made to the eligible post-graduate student on February 16th of each year (for applicable applied cash from July 1st through December 31st) and on August 16th (for applicable applied cash from January 1st through June 30th). The gross disbursements will be subject to applicable federal and state taxes and other deductions, as appropriate.

Students Graduating in 2014

In the final year of the Prosthodontic post-graduate program the last disbursement will be calculated based on the applicable collected revenue from January 1st through May 31st with the final disbursement made on July 16th. . In the final year of the Endodontic post-graduate program the last disbursement will be calculated based on the applicable collected revenue from January 1st through June 30th and will include an estimated amount to be collected from outstanding filed Medicaid accounts with a service date of less than one year and the final disbursement will be made on July 16th. For post-graduate students of the Orthodontic program the disbursement will be based on the applicable collected revenue from January 1st through April 30th and will include an estimated amount to be collected from outstanding filed Medicaid accounts with a service date of one year or less with the final disbursement made on June 16th.

Departmental Distribution

Departmental sharing of revenues under this program is suspended.

Special Considerations

Medicaid

For the disbursement preceding the post-graduate student's graduation, the College will generate a report of all outstanding unpaid claims due from Medicaid for charges generated by the student. For each outstanding claim of less than one year an estimated payment (based upon the last payment received by the College for the outstanding CDT code) will be generated and included in the calculation of the final disbursement.

Probono and professional courtesy care

There is NO pro bono care or professional courtesy adjustments allowed on work performed by post-graduate students. PG programs must use the educational discount code for uncompensated care. Any care delivered through education discounted adjustments will be compensated by the above formula only to the extent of fees collected (applied cash).

Undergraduate patient care

Patient care provided by a post-graduate student related to correcting or finishing care begun in the undergraduate will be compensated based on the applied cash in the undergraduate program plus such additional applied cash per agreement between the Program Director and the Associate Dean for Clinical Affairs. Applied cash in the predoctoral program will be transferred to the graduate program. It is understood that the Program Director will distribute such care so as to maximize post-graduate student education and minimize the impact on income potential. It is expected that such patient care will be equably distributed among the post-graduate students of any program.

Post-graduate student withdrawal or dismissal

In the event a post-graduate student withdraws from the program, or is dismissed from College of Dentistry, all applied cash eligible for disbursement since the last disbursement will be forfeited. If a student is on an approved leave of absence for a semester but is a student in good standing the following semester, they are eligible for a disbursement in the next disbursement date based on applied cash through the last date of attendance as an active student.

Program Continuance

This program will be renewed annually and a decision of continuance made on or before June 30th of each year. The decision will be effective for classes entering on or after July 1. For eligible post-graduate students, however, should a change in tuition status occur change eligibility may cease. The program may be cancelled by the Dean of the College of Dentistry with 30 days written notice to the participants.

On June 6, 2013, the decision was made to revise the Postgraduate Compensation Program for all eligible post-graduate students for FY14. The program will be administered as described above.

Exhibit 1

AFFILIATIONS – Stroger Hospital

1.a. Official name of affiliate: Stroger Hospital (Oral and Maxillofacial Clinics), Cook County Bureau of Health Services
(city, state) Chicago, IL

b. Length and purpose of the rotation (number of weeks, hours per week) : _____
Minimum requirement: One week, one half day (4 hours) in third year of program

c. Is the institution accredited by JCAHO?

X YES _____ NO _____ N/A

If another accrediting body, please list: _____

d. Distance from the affiliate to sponsoring institution: 0.2 (miles)

e. One-way commuting time: 15 minutes walking

f. Indicate why this institution was selected, the nature of training provided to students, teaching staff responsible for conducting the program and supervising students at the institution, and how these educational experiences supplement training received at the sponsoring institution.

After we lost our access to UIC's Center for Craniofacial Anomalies, the UIC ortho postgrads were invited to observe patients who have trauma, tumors and craniofacial anomalies at the Stroger (formerly Cook County) Hospital under the supervision of Dr. Therese Galang, UIC Assistant Professor of Orthodontics. The students learn about hospital procedures, team treatment, unusual conditions, and provision of care for underserved populations. This rotation started early in 2011.

g. If affiliation agreements have not been updated to include this program, please provide timetable for updating the agreement.

Exhibit 1

AFFILIATIONS – Lurie Hospital

2. a. Official name of affiliate: Ann and Robert H. Lurie Children's Hospital of Chicago of Northwestern University
(city, state) Chicago, IL

b. Length and purpose of the rotation (number of weeks, hours per week) : _____
Minimum requirement: Four weeks, one half day (4 hours) each week during second year of program

c. Is the institution accredited by JCAHO?

YES NO N/A

If another accrediting body, please list: _____

d. Distance from the affiliate to sponsoring institution: 5.0 (miles)

e. One-way commuting time: 30 minutes by car

f. Indicate why this institution was selected, the nature of training provided to students, teaching staff responsible for conducting the program and supervising students at the institution, and how these educational experiences supplement training received at the sponsoring institution.

After we lost our access to UIC's Center for Craniofacial Anomalies, arrangements were made for UIC's orthodontic postgraduate students to observe children having trauma, tumors and craniofacial anomalies at Lurie Hospital under the supervision of Dr. Emily Williams, UIC Clinical Assistant Professor of Orthodontics. The objective is to provide an educational experience in the management of craniofacial anomalies in areas not currently available at UIC:

1. Participation in a team setting in which cleft lip/palate and craniofacial anomalies are treated by multiple medical and dental specialties.
 2. Exploration of advanced imaging techniques.
 3. Direct interaction with a pediatric dental residency training program.
-

g. If affiliation agreements have not been updated to include this program, please provide timetable for updating the agreement.

Exhibit 2

PROGRAM DIRECTOR

Please complete the following chart for all programs being reviewed at this time.

Name of Program	Director's First Init. & Last Name	Board Certified or previously served as Program Director and Year Appointed	Yr Appointed to Position	Number of Hrs/wk at Sponsoring Institution – Breakdown time into following categories: • administration • teaching • research • other	Number of Hrs/wk Devoted to Program
Orthodontics	C. Evans	ABO diplomate	1994	20 10 10 20	60

Exhibit 3.1

TEACHING STAFF

On the table below, indicate the members of the teaching staff who are scheduled to devote ONE-HALF DAY OR MORE PER WEEK specifically to the program. Indicate whether each staff member listed is a general practitioner or specialist, the number of hours per week, and the number of weeks per year devoted to the program. If the staff member is a specialist, indicate the specialty and board status. Be sure to include the program director.

Name	Academic Rank	Discipline/ Specialty	Board Status (If Specialist)	Hours per week	Weeks per year	Percent Time	Assignments *
Evans, Carlotta	Professor and Head of the Dept. of Orthodontics	Orthodontics	ABO diplomate	40	47	100	SC, T, PA
Kusnoto, Budi	Associate Professor	Orthodontics	ABO diplomate	40	47	100	SC, T, PA
Tsay, Peter	Professor	Orthodontics	ABO diplomate	40	47	100	SC, T
Hohlt, William	Clinical Professor	Orthodontics	ABO diplomate	40	47	100	SC, T
Galang, Therese	Assistant Professor	Orthodontics	ABO diplomate	40	47	100	SC, T
Atsawasuan, Phimon	Assistant Professor	Orthodontics	ABO diplomate	40	47	100	SC. T
Viana, Grace	Biostatistician	Biostatistics	N/A	40	47	100	T
Manasse, Robert	Clinical Associate Professor	Orthodontics	ABO diplomate	24	47	60	SC, T
Voss, Lawrence	Clinical Assistant Professor	Orthodontics	ABO eligible	20	47	50	SC, T
BeGole, Ellen	Associate Professor Emeritus	Biostatistics	N/A	16	47	40	T
Handelman, Chester	Clinical Professor	Orthodontics	ABO eligible	8	47	20	SC, T
Lippincott, Gary	Clinical Assistant Professor	Orthodontics	ABO eligible	8	47	20	SC, T
John, Ed	Clinical Assistant Professor	Orthodontics	ABO eligible	8	47	20	SC, T
Muhl, Zane	Professor Emeritus	Orthodontics	ABO eligible	8	47	20	T
Silberstein, Robyn	Clinical Associate Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Jackson, Gregory	Clinical Assistant Professor	Orthodontics	ABO eligible	8	47	20	SC, T
Eltink, Anthony	Clinical Assistant Professor	Orthodontics	ABO eligible	4	47	10	SC, T
Golden, Laurence	Clinical Assistant Professor	Orthodontics	ABO eligible	4	47	10	SC, T

Name	Academic Rank	Discipline/ Specialty	Board Status (If Specialist)	Hours per week	Weeks per year	Percent Time	Assignments *
Jo, Heekyoung	Clinical Assistant Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Kelsey, John	Clinical Assistant Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Kothari, Ashok	Clinical Assistant Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Yue, Isaac	Clinical Assistant Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Chwa, Kyint	Clinical Assistant Professor	Orthodontics	ABO diplomate	4	47	10	SC, T
Haas, Andrew	Clinical Professor	Orthodontics	ABO diplomate	4	11	5	T
Greene, Charles	Clinical Professor	TMD and Orofacial Pain	N/A	8	47	20	T
Diekwiisch, Thomas	Professor (Oral Biology and Orthodontics)	Oral Biology	N/A	40	47	100	T
Luan, Xianghong	Associate Professor (Oral Biology and Orthodontics)	Oral Biology	N/A	40	47	100	T

*Use the following codes to indicate assignments:

SC—Supervision of students in clinic

T—Teaching Didactic Sessions (lectures, seminars, courses)

PA—Program Administration

Exhibit 4

FACILITIES AND RESOURCES

For each item listed below, indicate whether the item is located within the dental clinic, outside the dental clinic but readily accessible to it, or not available (check appropriate response).

Facilities, Capabilities/Equipment	Within Clinic	Readily Accessible	Not Available
Intraoral radiographic facilities		X	
Extraoral radiographic facilities		X	
Dental laboratory facilities		X	
Operatories	X		
Staff offices	X		
Study areas		X	
Conference rooms		X	
Dental recovery area			X
<u>Sterilization capabilities:</u>	X		
Autoclave			
Ethylene oxide		X	
Dry heat		X	
Emergency drugs	X		
<u>Emergency equipment:</u>		X	
Oxygen under pressure			
Suction	X		
Resuscitative equipment		X	

Exhibit 5

SUPPORT STAFF

Indicate the number of positions and total number of hours per week devoted to the program. If individuals listed are assigned to other activities, indicate this also.

Type of Support Staff	ORTHODONTICS
Dental Assistants Number of Positions	4
Total # Hours/week	150
Dental Hygiene Number of Positions	1 (currently unfilled)
Total # Hours/week	40
Secretarial/Clerical Number of Positions	1
Total # Hours/week	40
Fiscal clerks/reception Number of Positions	2
Total # Hours/week	75

Exhibit 6

Students' Total Program Time

Indicate the percentage of the students' total program time devoted to:

didactics	<u>20</u>	<u>%</u>
clinical activities	<u>60</u>	<u>%</u>
research activities	<u>15</u>	<u>%</u>
teaching	<u>5</u>	<u>%</u>
other (specify)		<u>%</u>
Total	<u>100</u>	= 100%

Exhibit 7

Sample Postgraduate Students' Schedules

UNIVERSITY OF ILLINOIS AT CHICAGO
DEPARTMENT OF ORTHODONTICS

FALL (2013) CLINIC SCHEDULE

FIRST TWO WEEKS (A): starts September 16

Monday	1, 2	1, 3
Tuesday	2, 3	1, 2
Wednesday	1, 2	2, 3
Thursday	2, 3	2, 3
Friday	1, 3	1, 2

SECOND TWO WEEKS (B):

Monday	1, 3	2, 3
Tuesday	1, 2	1, 3
Wednesday	2, 3	2, 3
Thursday	1, 2	2, 3
Friday	2, 3	1, 3

INSTRUCTORS:

DAY	A.M.	P.M.
Monday	Atsawasuan, Golden*, Manasse, Tsay, Voss	Evans, Galang, Golden*, Manasse, Tsay, Voss
Tuesday	Galang, Hohlt, John, Manasse, Pakravan, Yue	Atsawasuan**, Evans, Galang, Hohlt, John, Manasse
Wednesday	Jo, Kusnoto, Manasse, Robbins (alt.weeks), Tsay, Voss (alt.weeks)	Chwa, Kusnoto, Manasse, Tsay, Voss (alt.weeks)
Thursday	Eltink, Handelman, Kelsey, Lippincott	Handelman, Kusnoto, Lippincott
Friday	Hohlt, Jackson, Li (alt. weeks) Silberstein (alt. weeks), Tsay, Voss (alt. weeks)	Hohlt, Jackson, Li (alt weeks), Tsay, Voss (alt. weeks)

*as scheduled, **will change to Monday pm in Spring 2014
Haas (one Monday/month)

Department of Orthodontics
WEEKLY SCHEDULE - Fall Semester September 30 - October 4, 2013

DAY	TIME	NO.	COURSE	CLASS	ROOM	STAFF
MONDAY September 30	8:00 - 4:30		Illinois Society of Orthodontists "Spike in the Ice" Dr. Joy Bowman "Skeletal Anchorage" Dr. Bjorn Ludwig NEW LOCATION: Carlisle Banquet Center, 435 East Butterfield Rd., Lombard IL (near Yorktown Shopping Center)	1, 2, 3		All faculty and postgrads
TUESDAY October 1	7:30- 8:30 8:30- 9:30 9:30-12:30 1:30- 2:30 1:30- 4:30 4:30- 5:30	ORTD 524 ORTD 595 ORTD 610, 620, 630 OSCI 441 ORTD 610, 620, 630 OSCI 451	Craniofacial Anomalies Special Topics in Biostatistics Orthodontic Clinic Biostatistics Discussion Orthodontic Clinic Research Methodology	2 1, 2, 3 1, 2, 3 1 1, 2, 3 1	139 139 131 137A 131 330D	Dada BeGole, Viana Galang, Hohlt, John, Manasse, Pakravan, Tsay, Yue BeGole, Viana Atsawasawan, Evans, Galang, John, Hohlt, Manasse, Tsay Adami
WEDNESDAY October 2	7:30- 8:30 8:30- 9:30 9:30-12:30 9:30-12:30 1:30- 4:30 1:30- 4:30	OSUR 532 ORTD 595 ORTD 610, 620, 630 ORTD 611 ORTD 610, 620, 630 ORTD 611	Dx Tx in Orthognathic Surg. Finishing Orthodontic Clinic Orthodontic Technique Orthodontic Clinic Orthodontic Technique	1 1, 2, 3 1, 2, 3 1 1, 2, 3 1	139 139 131 239 131 239	Jamali Robbins Hohlt, Jo, Kusnoto, Manasse, Robbins*, Tsay, Voss* Chwa, Hohlt, Kusnoto, Manasse, Tsay, Voss*
THURSDAY October 3	7:30- 8:30 8:30- 9:30 8:30- 9:30 8:30- 9:30 9:30- 12:30 1:30- 4:30 1:30- 4:30 4:30- 6:00	OMDS 623 ORTD 595 OMDS 623 ORTD 595 ORTD 610, 620, 630 ORTD 610, 620, 630 ORTD 615 OSCI 581	TM Disorders Seminars on Orthodontics ABO Prep/Lit Review Advanced Topics Orthodontic Clinic Orthodontic Clinic Diagnostic Procedures Advanced Oral Sciences II	2 1 2 3 1, 2, 3 1, 2, 3 1 2, 3	501 135A 139 137A 131 131 139 LHN	Greene Muhl, Hohlt Instructors Eltink, Kelsey, Lippincott Eltink, Handelman, Hohlt, Kelsey, Lippincott Handelman, Hohlt, Kusnoto, Lippincott Luan
FRIDAY October 4	8:30- 9:30 9:30-12:30 9:30-12:30 10:30-12:30 1:30- 4:30 1:30- 4:30	ORTD 595 ORTD 610, 620, 630 ORTD 611 ORTD 611 ORTD 610, 620, 630 ORTD 615	Orthodontic Clinic Orthodontic Technique Orthodontic Technique Orthodontic Clinic Orthodontic Clinic Diagnostic Procedures	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3 1	139 131 131 131 139	Hohlt, Jackson, Li*, Silberstein*, Tsay, Voss* Hohlt, Jackson, Li*, Tsay, Voss*

"B" Week

UIC - College of Dentistry

Department of Orthodontics
WEEKLY SCHEDULE - Fall Semester October 28 - November 1, 2013

DAY	TIME	NO.	COURSE	CLASS	ROOM	STAFF
MONDAY October 28	8:30- 9:30 9:30-12:30	ORTD 595 ORTD 610, 620, 630	Presentation Orthodontic Clinic	1, 2, 3 1, 2, 3	139 131	Barysenka Golden*, Manasse, Tsay, Voss
	1:30- 4:30 1:30- 4:30	ORTD 610, 620, 630 ORTD 611	Orthodontic Clinic Orthodontic Technique	1, 2, 3 1	131 239	Evans, Galang, Golden*, Manasse, Tsay, Voss
TUESDAY October 29	7:30- 8:30 8:30- 9:30 9:30-12:30	ORTD 524 ORTD 595 ORTD 610, 620, 630	Craniofacial Anomalies Anchorage Orthodontic Clinic	2 1, 2, 3 1, 2, 3	139 139 131	Dada John, Pakravan, Yue Galang, Hohlt, John, Manasse, Pakravan, Tsay, Yue
	1:30- 2:30 1:30- 4:30 4:30- 5:30	OSCI 441 ORTD 610, 620, 630 OSCI 451	Biostatistics Discussion Orthodontic Clinic Research Methodology	1 1, 2, 3 1	137A 131 330D	BeGole, Viana Atsawasawan, Evans, Galang, John, Hohlt, Manasse, Tsay Adami
WEDNESDAY October 30	7:30- 8:30 8:30- 9:30 9:30-12:30 9:30-12:30 1:30- 4:30	OSUR 532 ORTD 595 ORTD 610, 620, 630 ORTD 615 ORTD 610, 620, 630	Dx Tx in Orthognathic Surg Orthodontic Clinic Diagnostic Procedures Orthodontic Clinic	1 1, 2, 3 1, 2, 3 1, 2, 3	139 139 131 131	Jamali Hohlt, Jo, Kusnoto, Manasse, Robbins*, Tsay, Voss*
	12:30- 2:30 2:30- 4:30 2:30- 4:30 4:30- 6:00	ORTD 610, 620, 630 ORTD 595 ORTD 610, 620, 630 ORTD 611 OSCI 581	ORTHODONTIC FORUM - EARLY TREATMENT Orthodontic Clinic Orthodontic Technique Advanced Oral Sciences II	2 1 2 3 1, 2, 3 1, 2, 3	501 135A 139 137A 131 139	Greene Muhl, Hohlt Instructors Eltink, Kelsey, Lippincott Eltink, Handelman, Hohlt, Kelsey, Lippincott Dr. Greg DeFelice Handelman, Hohlt, Kusnoto, Lippincott
FRIDAY November 1	8:30- 9:30 9:30-12:30 9:30-12:30 1:30- 4:30	ORTD 595 ORTD 610, 620, 630 ORTD 611 ORTD 610, 620, 630	Presentation Orthodontic Clinic Orthodontic Technique Orthodontic Clinic	1, 2, 3 1, 2, 3 1 1, 2, 3	139 131 239 131	Conroy Hohlt, Jackson, Li*, Silberstein*, Tsay, Voss* Hohlt, Jackson, Li*, Tsay, Voss*

Oct 31 - Nov 3 ADA, New Orleans

"B" WEEK

UIC - College of Dentistry

Department of Orthodontics
WEEKLY SCHEDULE - Fall Semester December 2 - December 6, 2013

DAY	TIME	NO.	COURSE	CLASS	ROOM	STAFF
MONDAY December 2	8:30- 9:30	ORTD 595	Research Presentations	1, 2, 3	139	Al-Hasawi, Barysenka, Caplin
	9:30-12:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Golden*, Manasse, Tsay, Voss
	1:30- 4:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Evans, Galang, Golden*, Manasse, Tsay, Voss
TUESDAY December 3	7:30- 8:30	ORTD 524	Craniofacial Anomalies	2	139	Dada
	8:30- 9:30	ORTD 595	Anchorage	1, 2, 3	139	John, Pakravan, Yue
	9:30-12:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Galang, Hohlt, John, Manasse, Pakravan, Tsay, Yue
	1:30- 2:30	OSCI 441	Biostatistics Discussion	1	137A	BeGole, Viana
	1:30- 4:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Atsawasawan, Evans, Galang, John, Hohlt, Manasse, Tsay
	4:30- 5:30	OSCI 451	Research Methodology	1	330D	Adami
WEDNESDAY December 4	7:30- 8:30	OSUR 532	Dx Tx in Orthognathic Surg	1	139	Miloro
	8:30- 9:30	ORTD 595	Research Presentations	1, 2, 3	139	Connolly, Dobbins, Ghoneim
	9:30-12:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Hohlt, Jr, Kusnoto, Manasse, Robbins*, Tsay, Voss*
	1:30- 4:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Chwa, Hohlt, Kusnoto, Manasse, Tsay, Voss*
THURSDAY December 5	7:30- 8:30	OMDS 623	TM Disorders	2	501	Greene
	8:30- 9:30	ORTD 595	Seminars on Orthodontics	1	135A	Muhl, Hohlt
	8:30- 9:30	ORTD 595	ABO Prep/Lit Review	2	139	Benjamin, Instructors
	8:30- 9:30	ORTD 595	Advanced Topics	3	137A	Eltink, Kelsey, Lippincott
	9:30- 12:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Eltink, Handelman, Hohlt, Kelsey, Lippincott
	1:30- 4:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Handelman, Hohlt, Kusnoto, Lippincott
FRIDAY December 6	4:30- 6:00	OSCI 581	Advanced Oral Sciences II	2, 3	LHN	Luan
	8:30- 9:30	ORTD 595	Research Presentations	1, 2, 3	139	Mostafiz, Schwartz, Stevens
	9:30-12:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Hohlt, Jackson, Li*, Silberstein*, Tsay, Voss*
	1:30- 4:30	ORTD 610, 620, 630	Orthodontic Clinic	1, 2, 3	131	Hohlt, Jackson, Li*, Tsay, Voss*

"B" WEEK

Exhibit 8

Biomedical Sciences

Are students required to take formal courses?

Yes

No

If YES, list the title of each course, year offered, number of credit hours and, if applicable, name of affiliated institution providing the instruction.

See next page:

ORTHO PG Certificate Course List

Course Lists, Instructions & FAQs: Blackboard > Office of Academic Affairs > PG & Grad Students > Registration & Courses

Class of 2016

Page 1 of 1

Orthodontics Certificate Courses				MS in Oral Sciences Courses			
CRN	COURSE	TITLE	Cr	CRN	COURSE	TITLE	Cr
PGY1 – FALL 2013							
15820	ORTD 595	Seminar on Orthodontics	1	15827	OSCI 451	Research Methodology	1
20610	ORTD 610	Orthodontic Clinic I	4	36716	OSCI 541	Biostats. (Oral Sci.)	3
15844	OSUR 532	Diag./Trtmnt Plan. Orthognathic Surg.	2	16721	OSCI 598	Master's Thesis Research (with C. Evans)	1*
20615	ORTD 615	Diagnostic Procedures I	4				
20613/20614	ORTD 611	Orthodontic Technique	4				
		Total Credits	15			Total Credits	5
PGY1 – SPRING 2014							
18010	ORTD 595	Seminar on Orthodontics	1	18003	ORTD 513	Craniofacial Growth/Dev.	4
20705	ORTD 610	Orthodontic Clinic I	5	17756/17757	ANAT 544	Adv. Craniofacial Anat.	3
20709	ORTD 615	Diagnostic Procedures I	3	16721	OSCI 598	Master's Thesis Research (with C. Evans)	2*
		Total Credits	9			Total Credits	9
PGY1 – SUMMER 2014							
14365	ORTD 595	Seminar on Orthodontics	1	16742	OSCI 583	Research Protocol	1
14956	ORTD 610	Orthodontic Clinic I	2	15051	OSCI 534	Med./Dent. Anthro. Evol.	1
14962	ORTD 612	Orthodontic Technique B	2	19701	OMDS 503	Graduate Oral Pathology	2
14959	ORTD 615	Diagnostic Procedures I	2	Varies**	OSCI 598	Master's Thesis Research	3*
16221	OMDS 617	Radiology for the Dental Specialist	1				
		Total Credits	8			Total Credits	7
PGY2 – FALL 2014							
15820	ORTD 595	Seminar on Orthodontics	2	15817/15819	ORTD 524	Craniofacial Anomalies I	2
20616	ORTD 616	Diagnostic Procedures II	2	30376	OSCI 580	Adv. Oral Sciences I/II	2
20611	ORTD 620	Orthodontic Clinic II	8	Varies**	OSCI 598	Master's Thesis Research	2*
27875	OMDS 623	TMJ Disorders	1				
		Total Credits	13			Total Credits	6
PGY2 – SPRING 2015							
18004/18006	ORTD 525	Craniofacial Anomalies II	1	Varies**	OSCI 598	Master's Thesis Research	3*
18010	ORTD 595	Seminar on Orthodontics	2				
20710	ORTD 616	Diagnostic Procedures II	2				
20707	ORTD 620	Orthodontic Clinic II	6				
18011	ORTD 667	Orthodontic Perio. Relationships	2				
		Total Credits	13			Total Credits	3
PGY2 – SUMMER 2015							
14365	ORTD 595	Seminar on Orthodontics	2	Varies**	OSCI 598	Master's Thesis Research	3*
14960	ORTD 616	Diagnostic Procedures II	2				
14961	ORTD 620	Orthodontic Clinic II	3				
		Total Credits	7			Total Credits	3
PGY3 – FALL 2015							
15820	ORTD 595	Seminar on Orthodontics	2	31467	OSCI 581	Adv. Oral Sciences I/II	2
20612	ORTD 630	Orthodontic Clinic III	8	Varies**	OSCI 598	Master's Thesis Research	4*
		Total Credits	10			Total Credits	6
PGY3 – SPRING 2016							
18010	ORTD 595	Seminar on Orthodontics	2	18008	ORTD 537	Biostats. Craniofacial Res.	2
20708	ORTD 630	Orthodontic Clinic III	8	Varies**	OSCI 598	Master's Thesis Research	4*
		Total Credits	10			Total Credits	6

*Select appropriate credit hours when registering

**Permission required (email your Department Business Manager if you encounter problems with OSCI 598 registration)

Exhibit 11.1 – Questions 50-53e

Clinical Sciences

Indicate how training is provided in each of the required subject areas of **clinical sciences** identified in the Standards.

Clinical proficiencies	Course/Rotation Title	Year	Clock Hours	Seminar	Clinic	Scope and effectiveness of experience
50a Develop treatment plans	ORTD 615 Diagnostic Procedures ORTD 610, 620, 630 Orthodontic Clinic OSUR 532 Diagnosis and Treatment Planning in Orthognathic Surgery	PG-1 PG-1, 2, 3 PG-1	200	Y Y Y	Y	Outside examiners noted that more alternative treatment plans (more extraction variations) should be considered. We have increased the emphasis on alternative treatment plans at our seminars.
50b Use the concepts in embryology and genetics	ORTD 513 Craniofacial Growth and Development ORTD 524, 525 Craniofacial Anomalies	PG-2	10	Y	Y	This is important foundation knowledge for the Craniofacial Anomalies seminars and clinic rotations in the Craniofacial Center
50c Include knowledge of anatomy and histology	ANAT 544 Advanced Oral Anatomy ORTD 513 Craniofacial Growth and Development OSCI 534 Dental and Medical Anthropology within Human Evolution OMDS 617 Radiology for the Dental Specialist	PG-1 PG-1 PG-1 PG-1	100	Y Y Y Y	Y (laboratory)	Didactic material provides a solid foundation for clinical treatment. Postgraduate students rate ORTD 513 as their best course.

Clinical proficiencies	Course/Rotation Title	Year	Clock Hours	Seminar	Clinic	Scope and effectiveness of experience
50d Apply knowledge about pathology of oral tissues	ORTD 610, 620, 630 Orthodontic Clinic ORTD 595 Seminar in Orthodontics OMDS 503 Graduate Oral Pathology	PG-1, 2, 3 PG-1, 2, 3 PG-1	10 15 15	Y	Y	This occurs whenever clinical examinations and/or radiographs are employed in formulating treatment plans, assessing treatment progress, and reviewing treatment results. First year students have a specialist level online oral pathology course.
51 Comprehensive clinical experience	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	2000		Y	Graduates are confident and their employers say they are safe and trustworthy new practitioners.
52 Treatment of all malocclusions	ORTD 595 Seminar on Orthodontics ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3 PG-1, 2, 3	300	Y		Case presentations (initial, progress, and final) by students and faculty on a regular basis
53a Interdisciplinary treatment plans	ORTD 667 Orthodontic-Periodontic Relationships OSUR 532 Diagnosis and Treatment Planning in Orthognathic Surgery	PG-2 PG-1	40	Y Y		Material is covered also in multidisciplinary seminars, but postgraduate students ask for more seminars attended by all departments. These seminars are difficult to schedule.
53b Treat developing problems	ORTD 595 Seminar on Orthodontics	PG-1, 2, 3	30	Y		Early treatment seminars with Pediatric Dentistry faculty and postgraduate students
53c Use dentofacial orthopedics	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	100	Y	Y	Postgraduate students are able to employ growth modification when appropriate
53d Treat dentofacial abnormalities	Lurie craniofacial rotation Stroger rotation		20			Postgraduate students participate in care of craniofacial patients and understand the value of a team approach.

Clinical proficiencies	Course/Rotation Title	Year	Clock Hours	Seminar	Clinic	Scope and effectiveness of experience
53e Provide all phases of orthodontic treatment	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	2000		Y	Cases assigned to postgraduate students are representative of orthodontic problems seen in private practice.

Exhibit 11.1 - Questions 53f - o

Clinical Sciences

Indicate how training is provided in each of the required subject areas of **clinical sciences** identified in the Standards.

Clinical proficiencies	Course/Rotation Title	Year	Clock Hours	Seminar	Clinic	Scope and effectiveness of experience
53f Use contemporary orthodontic technique	ORTD 611 Orthodontic Technique ORTD 610, 620, 630 Orthodontic Clinic	PG-1 PG-1, 2, 3	100	Y	Y (laboratory also) Y	Each year we have modified the course so that so that new postgraduate students get a quicker start in the clinic.
53g Manage functional occlusal/TMD	OMDS 632 TMJ Disorders	PG-2	40	Y	Y (role-playing)	Because the TMD rotation was eliminated, Dr. Greene is now conducting role-playing sessions.
53h Treat orthodontic aspects of patients with periodontal problems	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	100		Y	All adult patients are carefully screened for the presence of periodontal conditions. Referral for periodontal supervision and/or treatment is made whenever necessary.
53i Develop treatment plans using sound principles of appliance design and biomechanics	ORTD 595 Seminar on Orthodontics ORTD 615 Diagnostic Procedures (biomechanics)	PG-1, 2, 3 PG-1	150	Y		We have greatly increased our emphasis on biomechanics since the last accreditation. Dr. Hohlt is now full-time and Drs. Pakravan and Yue lead a biomechanics course in the second semester.
53j Obtain long term files of quality images	ORTD 615 Diagnostic Procedures	PG-1	10	Y	Y	These skills are taught in this course; they are employed on a daily basis in the clinic. Both radiographs and clinic photographs are obtained in a digital format. Evaluation of retention records required for graduation.
53k Use dental materials	ORTD 611 Orthodontic Technique	PG-1	50	Y		These skills are taught in this course and by visiting materials scientists; they are employed on a daily basis in the clinic.
53l Develop system of long-term treatment	ORTD 610, 620, 630 Orthodontic	PG-1, 2,	50			The patient record is now entirely digital form.

Clinical proficiencies	Course/Rotation Title	Year	Clock Hours	Seminar	Clinic	Scope and effectiveness of experience
records	Clinic	3				Postgraduate students scan older photographs, radiographs, and models for use in case presentations.
53m Practice ethical behavior	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	10	Y	Y	Additional counseling has been required in certain instances
	ORTD 595 Seminar on Orthodontics		8	Y	N	Ethics curriculum with hypothetical situations
53n Manage patients in orthodontic treatment procedures	ORTD 610, 620, 630 Orthodontic Clinic	PG-1, 2, 3	10		Y	Instructors give suggestions
53o Study literature of this field	ORTD 595 Seminar on Orthodontics ORTD 537 Biostatistics Applied to Craniofacial Research	PG-1, 2, 3	50	Y		Postgraduate students present comprehensive reviews of literature on assigned topics. At least monthly, biostatisticians appointed in the Department of Orthodontics lead seminars on use of statistics in research and publishing. Note: <u>All</u> seminar courses in this program rely primarily on articles in the periodical literature for reading assignments. The assigned original articles are upload on Blackboard so that time is not wasted looking for the reading assignments.

Exhibit 11.2 – Questions 54a - n

Clinical Sciences

Indicate how training is provided in each of the required subject areas of **clinical sciences** identified in the Standards.

Familiarity	Course Title	Year	Hours	Seminar	Clinic	Scope and effectiveness of experience
54a Biostatistics	OSCI 541 Biostatistics ORTD 537 Biostatistics Applied to Craniofacial Research	PG-1 PG-1, 2, 3	50	Y		Graduate course for foundation knowledge. Overview of typical study design, measurement and analysis in orthodontic research. Practical application of foundation knowledge in MS thesis work.
54b Orthodontic history	ORTD 595 Seminar on Orthodontics	PG-1, 2, 3	3	Y		Comprehensive review of relevant literature presented by postgraduate students or faculty.
54c Jurisprudence	ORTD 595 Seminar on Orthodontics	PG-1, 2, 3	3	Y		Assigned readings, videotapes, outside speakers maintain awareness in department
54d Oral Physiology	ANAT 544 Advanced Oral Anatomy Lurie craniofacial rotation	PG-1	20	Y		Biomechanical aspects of the masticatory apparatus Practical information about feeding, breathing, speech
54e Pain and Anxiety Control	ORTD 513 Craniofacial Growth and Development OMDS 623 TMJ Disorders ORTD 610, 620, 630 Orthodontic Clinic	PG-1 PG-2 PG-1, 2, 3	2 2 4	Y Y Y		Effects of medication on tooth movement and orofacial pain Practical application of knowledge

Familiarity	Course Title	Year	Hours	Seminar	Clinic	Scope and effectiveness of experience
54f Pediatrics	ORTD 513 Craniofacial Growth and Development	PG-1	10	Y		Courses cover somatic and emotional growth and development.
	ORTD 524, 525 Cranifacial Anomalies	PG-2	1			Pediatrician lectures in Ortd 524, 525
	Lurie craniofacial rotation		4			Practical application of knowledge
54g Periodontics	ORTD 667 Orthodontic- Periodontic Relationships	PG-2	15	Y		Course attended by postgraduate student and faculty orthodontists and periodontists
54h Pharmacology	ORTD 595 Seminar in Orthodontics	PG- 1, 2, 3	5	Y		Topics relevant to orthodontic practice are covered.
54i Preventive Dentistry	ORTD 595 Seminar in Orthodontics	PG- 1, 2, 3	5	Y		Topics relevant to orthodontic practice are covered.
54j Psychological Aspects	ORTD 513 Craniofacial Growth and Development	PG-1	6	Y		Overview of psychological development presented by clinical psychologist, Dr. Michael Stone
54k Public Health Aspects	ORTD 595 Seminar in Orthodontics	PG- 1, 2, 3	5			Topics relevant to orthodontic practice are covered
54l Speech Pathology and Therapy	ORTD 524 Craniofacial Anomalies	PG-2	6	Y	Y	Two seminars on speech and audiology. Postgraduate students observe speech, language, and hearing evaluations during the Lurie craniofacial rotation
54m Practice Management	ORTD 595 Seminar in Orthodontics	PG- 1, 2, 3	20	Y		Outside speakers and faculty lead discussions. Off-hours visits to private practices are arranged when requested.
	Illinois Society of Orthodontists meetings	PG- 1, 2, 3	21	Y		The students meet orthodontic practitioners and listen to expert speakers.

Familiarity	Course Title	Year	Hours	Seminar	Clinic	Scope and effectiveness of experience
54n Variety of recognized techniques	ORTD 611 Orthodontic Technique	PG-1	50	Y	Y	<p>Techniques taught focus on several “flavors” of Edgewise:</p> <ul style="list-style-type: none"> • Standard appliance • Preadjusted appliance • Biopressive • Segmented arch • Haas RPE and tandem mechanics • Bi-dimensional technique • Self-ligation <p>Additionally, postgraduate students take the Invisalign™ course, use the Damon™ bracket, Wilson Lingual arch technique, Tweed philosophy, and functionals such as Frankel and bionator appliances.</p>