

INFORMATIONAL REPORT ON ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS PROGRAMS ANNUAL SURVEY CURRICULUM DATA

Background: At its Winter 2015 meeting, the Commission directed that each Review Committee review a draft of its discipline-specific Annual Survey Curriculum Section during the Winter meeting in the year the Survey will be distributed. The Commission further suggested that each Review Committee review aggregate data of its discipline-specific Annual Survey Curriculum Section, as an informational report, when the materials are available following data collection and analysis. The Commission noted that all survey data is considered confidential at the programmatic level.

The Curriculum Section of the Commission's Annual Survey is conducted for both orthodontics and dentofacial orthopedics residency education programs and clinical fellowship training programs in craniofacial and special care orthodontics in alternate years. The most recent Curriculum Section was conducted in August/September 2022. Aggregate data of the most recent Curriculum Sections for review by the Orthodontics And Dentofacial Orthopedics Education RC as informational reports are provided in **Appendix 1** for residency programs and **Appendix 2** for fellowship programs.

Summary: The Review Committee on Orthodontics And Dentofacial Orthopedics Education is requested to review the informational reports on aggregate data of its discipline-specific Annual Survey Curriculum Section (**Appendix 1** and **Appendix 2**).

Recommendation: This report is informational in nature and no action is requested.

2022-23 Orthodontics Curriculum Survey Results

This report includes data collected in the 2022-23 *Survey of Advanced Dental Education* from 69 orthodontics and dentofacial orthopedics programs and one combined orthodontics/periodontics program accredited at the time of the survey.

21. What percentage of time do students/residents devote to each of the following areas during the entire program?

Field	Minimum	Maximum	Mean	Count
a. Clinical (include related laboratory activity)	47.0	80.0	61.2	69
b. Didactic (include assigned laboratory activity)	8.0	41.0	22.7	69
c. Research	4.0	25.0	11.7	69
d. Teaching	0.0	10.0	4.3	69
e. Other, please specify	0.0	5.0	0.2	69
e. Other, please specify - Text				
Attending Local, Regional and National Meetings and Seminars				
Enrichment/ National and regional meetings				
Emergency on call, Continuing Education				
Guest speakers, interdepartmental seminars				
Participation in scientific conferences and lectures from invited speakers.				
Self-Study				

22. In which of the following interdisciplinary approaches did students/residents receive instruction or gain clinical consultation experience during the past 24-month period for the management of dental patients?

Question	Yes	No	Total
a. Case history	100.0%	0.0%	69
b. Cephalometric analysis	100.0%	0.0%	69
c. Intraoral radiographs	100.0%	0.0%	69
d. Model Analysis	100.0%	0.0%	69
d-1. Model Analysis: Plaster cast	84.1%	15.9%	69
d-2. Model Analysis: Digital models	95.7%	4.3%	69
e. Photographics	98.6%	1.4%	69
f. Cone beam imaging	100.0%	0.0%	69
g. Other, please specify	24.6%	75.4%	69

g. Other, please specify - Text

1) CR-CO assessment, 2) TMJ tomograms

3D Photographic Imaging

3D Printing (2)

Cleft Palate and Orthognathic Surgery

Digital Panoramic Radiographs

Digital treatment planning, digital set up

Intraoral scanning

Panoramic X-ray

Remote monitoring technology

TADs, Laser

Various digital technologies such as intraoral scanners, 3D printers, diagnostic/treatment outcome simulations. Interdisciplinary seminar series (ortho/perio/prostho), oral maxillofacial surgery case discussions/treatment planning sessions.

Virtual 3D surgical planning

Virtual orthognathic surgical treatment planning & multi-disciplinary dental treatment provided in the hospital-based Dental Department setting

iTero scanner, Aligners/Invisalign

in-house aligners

laser

23. What percentage of all patients are managed by the students/residents in each of following treatment mechanisms?

Field	Minimum	Maximum	Mean	Count
a. Fixed appliance (with or without a functional appliance)	5.0	96.0	78.2	68
b. Aligners (with or without a functional appliance)	2.0	40.0	15.7	68
c. Functional appliance (alone)	0.0	25.0	4.4	68
d. Other, please specify	0.0	93.0	1.8	68

d. Other, please specify - Text

Carrieri, Herbst, Class II correctors (like Forsus) are used with fixed appliances

Edgewise

Lingual (Incognito)

Orthopedic Splints

SARPE/MARPE/RED/DECLEARC

Space Maintenance

TAD's/MAPRES

24. What clinical procedures exist to ensure program objectives are met? Check all that apply.

	Percentage
Experience with pre-surgical orthopedics for infants born with cleft lip and palate	48.5%
Orthodontic therapy for craniofacial deformities patients from the primary through adult dentition	85.3%
Orthodontic management of patients with cleft or craniofacial anomalies	91.2%
Surgical/orthodontic treatment planning	100.0%
Pre- and post-surgical orthodontic management	98.5%
Surgical splint design and construction and observation of surgical fixation splints in the operating room to assure appropriate placement	70.6%
Orthodontic treatment for patients who are medically compromised, have disabilities and/or special needs	97.1%
Participation in interdisciplinary dental care, clinical support and appropriate guidance for dentists who provide restorative services for Craniofacial Anomalies and Special Care (CFA&SC) patients	94.1%
Exposure to Oral and Maxillofacial Surgery, Pediatric Dentistry, Plastic and Craniofacial Surgery, Sleep Disorders, Genetics, and Speech and Language Pathology for additional exposure to management of CFA&SC patients	94.1%
Supervised participation in craniofacial team activities	85.3%

Participate in craniofacial team meetings	79.4%
Total	68

25. What is the average number of patients managed per student/resident during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	45.0	750.0	105.2	68

26. What is the average number of surgical orthodontic cases per student/resident managed with the active participation of the students/residents during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	1.0	30.0	5.2	68

Comments from Orthodontics Curriculum Section page 1

Due to the Pandemic, our patient assignments were lower for the Class 2022 (~53). The Class of 2023 average 65 patients and the class of 2024 average 65 patients.

First year residents were assigned about 90 patients. Not all of them started. Second year residents had about 110 patients between starts and transfers Third year residents had about 135 patients between starts and transfers.

For question 24, our residents used to attend the craniofacial team meetings, which was discontinued due to the COVID pandemic. REDACTED, who oversees orthodontic residents at the REDACTED Hospital craniofacial program, is planning to re-involve the residents in these meetings.

REDACTED experienced a massive cyberattack in September, 2021 and the REDACTED was unable to generate data in the EHR until January 2022. There was a loss of data from October 2018 to January 2022. All information regarding clinical experiences is based upon the data gathered since January from the EHR and internal reports previously generated.

Item 23. Our students will begin seeing patients REDACTED. The values entered here do not represent the actual percentage of cases that our students have in each category. We needed to input numbers to get a total of 100%, hence the values shown. Item 24. Our students will begin seeing patients REDACTED. The categories indicated refer to patients we have seen in our clinic, which operated as a private practice prior to our CODA accreditation when we switched the patient care to a full teaching clinic. Item 25. Our students Our students will begin seeing patients REDACTED. They do not currently have any patients under their care. Item 26. Our students Our students will begin seeing patients REDACTED. They do not currently have any patients under their care.

Q25: Number of patients 10-20 fewer than usual due to the pandemic.

Surgical Orthodontic cases: Each resident has at least two patients assigned to them on average but actively participate in treatment of surgical orthodontic cases when they rotate with program director at the REDACTED Hospital.

Surgical cases are shared so that all residents have opportunity to observe/treat in the clinic. Extensive exposure to craniofacial patients including participation in management of NAM devices and palatal obturation devices

The first year residents are assigned 35-38 cases. As second years, cases are inherited from the graduating class. This includes active cases, retention cases, and observation cases. The total number of patients managed by the second year residents can be 75-90 patients when including retention patients. Each first year is assigned 2 surgical cases. Surgical cases transfer to the second year resident from the graduating class. Some residents could manage 4-6 surgical cases in the second year. This could include cases with craniofacial anomalies.

This is a **REDACTED** program. Each resident starts approximately 65 new cases. However, each resident additionally receives a considerable number of ongoing cases from their assigned senior upon graduation (“lineage cases”).

We do a significant amount of Orthognathic Surgery, Cleft Palate Treatment and Craniofacial Patients.

27. What is the total number of patients with craniofacial abnormalities managed with the active participation of the students/residents during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	0.0	414.0	45.7	68

28. What is the average number of patients per student/resident initiating active treatment that were assigned to the students/residents during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
a. 1st year students/residents	4.0	315.0	64.0	67
b. 2nd year students/residents	0.0	200.0	24.5	68
c. 3rd year students/residents	0.0	85.0	7.1	54

29. What is the average number of patients who completed active treatment by the students/residents during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
a. 1st year students/residents	0.0	80.0	6.1	67
b. 2nd year students/residents	0.0	320.0	29.2	68
c. 3rd year students/residents	0.0	180.0	45.3	54

30. What is the average number of active retention patients managed per student/resident during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
a. 1st year students/residents	0.0	80.0	14.6	67
b. 2nd year students/residents	0.0	310.0	36.9	68
c. 3rd year students/residents	0.0	81.0	34.5	54

31. Indicate the number of faculty positions and total number of hours per week devoted to the clinical supervision of the students/residents.

Field	Minimum	Maximum	Mean	Count
a. Number of faculty positions	1.0	29.0	12.0	69
b. Total number of hours per week	23.0	256.0	84.7	69

32. How often does the program conduct formal documented evaluations of student/resident clinical performance?

	Percentage
Weekly	1.5%
Monthly	1.5%
Quarterly	16.2%
Biannually (i.e., twice a year)	76.5%
Annually	4.4%
Total	68

33. How often does the program conduct formal documented evaluations of faculty?

	Percentage
Weekly	0.0%
Monthly	0.0%
Quarterly	4.3%
Semiannually	24.6%
Annually	71.0%
Total	69

Comments from Orthodontics Curriculum Section page 2

32. We evaluate our students semi-annually, which is twice per year. I put biannually because what is in the parentheses is correct, but it is actually semi-annually.

Craniofacial Patients: Each resident has at least one patient assigned to them on average but actively participate in treatment of patients with craniofacial abnormalities when they rotate with program director at the **REDACTED** Hospital.

For questions 28 and 29, the total numbers of patients reported for these categories in the 2021-2022 academic year are lower than normal due to impact of the COVID pandemic. We anticipate them to be higher for the 2022-2023 academic year.

REDACTED experienced a massive cyberattack in September 2021 and the **REDACTED** was unable to generate data in the EHR until January 2022. There was a loss of data from October 2018 to January 2022. All information regarding clinical experiences is based upon the data gathered since January from the EHR and internal reports previously generated.

The options for Question 30 should be "Select All That Apply" and should include Daily as well. Our program has formal Daily Evaluations AND Formal Bi-Annual Evaluations.

We have 14 full time and adjunct faculty in our clinic. Each faculty cover 8 hrs of clinical supervision on a biweekly basis. Days with 2 attendings include Tuesdays, Wednesdays and Friday. The total number of hours covered is 56hrs/ week.

2022-23 Clinical Fellowship in Craniofacial and Special Care Orthodontics Curriculum Survey Results

This report includes data collected in the 2022-23 *Survey of Advanced Dental Education* from seven clinical fellowship in craniofacial and special care orthodontics programs accredited at the time of the survey.

21. What clinical procedures exist to ensure program objectives are met?

	Percentage
Experience with pre-surgical orthopedics for infants born with cleft lip and palate	100.0%
Orthodontic therapy for craniofacial deformities patients from the primary through adult dentition	100.0%
Orthodontic management of patients with cleft or craniofacial anomalies	100.0%
Surgical/orthodontic treatment planning	100.0%
Pre- and post-surgical orthodontic management	100.0%
Surgical splint design and construction and observation of surgical fixation splints in the operating room to assure appropriate placement	100.0%
Orthodontic treatment for patients who are medically compromised, have disabilities and/or special needs	100.0%
Participation in interdisciplinary dental care, clinical support and appropriate guidance for dentists who provide restorative services for Craniofacial Anomalies and Special Care (CFA&SC) patients	100.0%
Exposure to Oral and Maxillofacial Surgery, Pediatric Dentistry, Plastic and Craniofacial Surgery, Sleep Disorders, Genetics, and Speech and Language Pathology for additional exposure to management of CFA&SC patients	100.0%
Supervised participation in craniofacial team activities	100.0%
Participate in craniofacial team meetings	100.0%
Total	7

22. Which of the following experiences exist in the program for each student/fellow?

	Percentage
Regularly scheduled grand rounds case presentations	100.0%
Historical and current scientific literature review	100.0%
Research methodology and biostatistics	100.0%
Training in the allied medical sciences and social services required to manage the unique needs of CFA&SC patients and their families	85.7%
Total	7

Comments from Craniofacial and Special Care Orthodontics Clinical Fellowships Curriculum Section page 1

We rotate our fellows to visit different members of the craniofacial team. Dr. Yen will teach the fellows to involve the social worker and child psychologist as need arises.

23. What is the average number of patients completing a full sequence of treatment logged by each student/fellow per year?

Field	Minimum	Maximum	Mean	Count
	0.0	155.0	57.6	7

24. What is the average number of orthognathic cases managed per student/fellow during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	6.0	50.0	25.4	7

25. What is the average number of patients with craniofacial abnormalities managed per student/fellow during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	15.0	600.0	162.4	7

26. What is the average number of patients per student/fellow initiating active treatment during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	10.0	85.0	42.9	7

27. What is the average number of retention patients managed per student/fellow during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	4.0	60.0	35.7	7

28. What is the average number of patients per student/fellow who completed active treatment during the 2021-22 academic year?

Field	Minimum	Maximum	Mean	Count
	4.0	60.0	29.9	7

Comments from Craniofacial and Special Care Orthodontics Clinical Fellowships Curriculum Section page 2

Hospital COVID-19 restrictions limited the number of patients we see so we did not start as many patients as normal and have a waiting list of patients who are authorized to start treatment.

Question #23: Typical full sequence of treatment requires a minimum of 18-24 months. Fellow is only here for 1 year.

The number of pts who completed active tx is 13 but when entered, an error appears

29. Indicate the number of faculty positions and total number of hours per week devoted to the clinical supervision of the students/fellows.

Field	Minimum	Maximum	Mean	Count
a. Number of faculty positions	1.0	9.0	4.6	7
b. Total number of hours per week	32.0	76.0	53.1	7

30. How often does the program conduct formal documented evaluations of students'/fellows' clinical performance?

	Percentage
Weekly	0.0%
Monthly	0.0%
Quarterly	42.9%
Semiannually	57.1%
Annually	0.0%
Total	7

31. How often does the program conduct formal documented evaluations of faculty?

	Percentage
Weekly	0.0%
Monthly	0.0%
Quarterly	14.3%
Semiannually	28.6%
Annually	57.1%
Total	7

32. Does anyone else treat the patients of the orthodontic fellows?

Treat craniofacial anomaly patients?

Question	Yes	No	Total
a. Orthodontic students/residents	28.6%	71.4%	7
b. Postdoctoral students/residents in other types of programs	14.3%	85.7%	7

Number of craniofacial anomaly patients

Field	Minimum	Maximum	Mean	Count
a. Orthodontic students/residents	5.0	99.0	52.0	2
b. Postdoctoral students/residents in other types of programs	8.0	8.0	8.0	1

Treat special care needs patients?

Question	Yes	No	Total
a. Orthodontic students/residents	28.6%	71.4%	7
b. Postdoctoral students/residents in other types of programs	14.3%	85.7%	7

Number of special care needs patients

Field	Minimum	Maximum	Mean	Count
a. Orthodontic students/residents	2.0	21.0	11.5	2
b. Postdoctoral students/residents in other types of programs	4.0	4.0	4.0	1

Comments from Craniofacial and Special Care Orthodontics Clinical Fellowships Curriculum Section page 3

We work with **REDACTED** oral surgery and pediatric dentistry residents at **REDACTED**. The oral surgery residents will do a 3-month rotation at **REDACTED** and treat children with craniofacial and special needs. We did 56 alveolar bone grafts last year.