

Program-Level Assessment: Annual Report

Program: Graduate Periodontics

Department: Graduate Periodontics

Degree or Certificate Level: Master of Science and Certificate

College/School: Center for Advanced Dental Education

Date (Month/Year): November 2020

Primary Assessment Contact: Elio Reyes Rosales, DDS, MS.

In what year was the data upon which this report is based collected? 2019-20

In what year was the program's assessment plan most recently reviewed/updated? 2018

1. Student Learning Outcomes

Which of the program's student learning outcomes were assessed in this annual assessment cycle?

Assessment of student performance regarding being competent in all aspects, practical and didactic, of clinical periodontics.

Readiness and preparation for achieving the American Board of Periodontology certification.

Completion of an original research project resulting in a written thesis.

2. Assessment Methods: Artifacts of Student Learning

Which artifacts of student learning were used to determine if students achieved the outcome(s)? Please identify the course(s) in which these artifacts were collected. Clarify if any such courses were offered a) online, b) at the Madrid campus, or c) at any other off-campus location.

Grades and feedback from faculty members for all residents in courses that are used to assess this learning objective. Feedback from the Graduate Periodontics Advisory Committee and clinical faculty. Courses: PERI5000; PERI5600; PERI5010; PERI5610; PERI5020; PERI5620; PERI5630; PERI 5030; PERI5640; PERI5040; PERI5650; PERI5200; PERI5210; PERI5660. These courses were offered in campus and at one off-campus location (SIU-SDM)

Grades and feedback from faculty members for all residents in courses related to preparation for board examination. Feedback from the Graduate Periodontics Advisory Committee. Courses: PERI5400; PERI5910. These courses were offered in campus and at one off-campus location (SIU-SDM)

Feedback from the Thesis Committee for all three graduating residents after they completed a written thesis and underwent an oral exam for thesis defense. Courses: BBS5100; PERI5990. These courses were offered in campus.

3. Assessment Methods: Evaluation Process

What process was used to evaluate the artifacts of student learning, and by whom? Please identify the tools(s) (e.g., a rubric) used in the process and include them in/with this report.

Assessment feedback to the residents occurs during discussions with the Program Director, the Course Directors, Program Didactic and Clinical Faculty and Graduate Thesis Committee members. Feedback also occurs following the results of the American Board of Periodontology exam.

4. Data/Results

What were the results of the assessment of the learning outcome(s)? Please be specific. Does achievement differ by teaching modality (e.g., online vs. face-to-face) or on-ground location (e.g., STL campus, Madrid campus, other off-campus site)?

All residents received satisfactory grades in courses that are used to assess the didactic and clinical learning objectives, based on their participation and topic presentations. All faculty members on the Graduate Periodontics Advisory Committee agreed that the three graduating residents were competent in all aspects of clinical periodontics.

All the graduating residents completed a written thesis and successfully passed an oral examination from the Graduate Thesis Committee.

The two most recent graduates, have completed and passed the Part I examination from the American Board of Periodontology, they will be taking Part II in the next months to become Diplomates of the American Board of Periodontology.

5. Findings: Interpretations & Conclusions

What have you learned from these results? What does the data tell you?

The clinical performance of the residents at our clinic and at the off-site locations has been satisfactory. However, we need to continue improving the residents' experience with conscious sedation, particularly in the number of cases for some state licensure requirements.

Need to improve the preparation for the written portion of the board exam.

6. Closing the Loop: Dissemination and Use of Current Assessment Findings

A. When and how did your program faculty share and discuss these results and findings from this cycle of assessment?

Assessment results were reviewed by the Graduate Periodontics Advisory Committee which is made up of 5 faculty members and met once last year. In addition, the Program Director meets with clinical and didactic faculty to discuss residents' performance and assessment throughout the year.

B. How specifically have you decided to use these findings to improve teaching and learning in your program? For example, perhaps you've initiated one or more of the following:

Changes to the Curriculum or Pedagogies

- Course content. Scheduled seminars conducted by various faculty to cover selected topics based on previous feedback. Including implant treatment planning and use of lasers in periodontics.
- Teaching techniques. Implemented live participation on digital implant treatment for planning sessions with lab technicians and faculty for actual residents' cases.
- Improvements in technology. Implemented use of 3rd party software for case planning
- Course sequence. Modified the schedule for the sedation rotation to start on the Summer Semester for the Year III, and the Fall Semester on Year II to allow an increase in clinical time for sedation cases.
- Changes in frequency or scheduling of course offerings. Modified the Schedule for multidisciplinary seminars to allow for more interactive presentations for residents of the multiple specialties. (Endo, Pedo, Ortho)
- Incorporation of virtual meetings and classes was incorporated to comply with specific restrictions on in-person classes or social distancing.

Please describe the actions you are taking as a result of these findings.

Modified the content of some of the didactic courses like Periodontal Literature reviews to reflect changes in techniques and technology, by incorporating selected topics like -Use of lasers in periodontics, Implant treatment planning, and digital technology.

If no changes are being made, please explain why.

N/A

7. Closing the Loop: Review of Previous Assessment Findings and Changes

A. What is at least one change your program has implemented in recent years as a result of assessment data?

Initiated a collaboration with the Dental Anesthesia Center in Saint Louis to provide extended clinical experience as a rotation for our periodontal residents.

B. How has this change/have these changes been assessed?

The assessment is through faculty feedback regarding the performance of the residents on selected anesthesia cases.

C. What were the findings of the assessment?

The feedback from faculty members and from students confirm that the incorporation of the Anesthesia rotation, as well as increased clinical time for resident clinical sedation cases, has been beneficial.

D. How do you plan to (continue to) use this information moving forward?

The assessment results will continue to be reviewed and either corrective action or suggestions for program improvement will be discussed and made by the Graduate Periodontics Advisory Committee, and the proposed changes will be implemented based on a strategy plan.

IMPORTANT: Please submit any assessment tools and/or revised/updated assessment plans along with this report.