ABSTRACT

Background: The ability to self-assess is a critical skill that all health professionals must be able to do, in order to achieve competence. This is essential for the doctors of dental medicine. During their education and practice they apply different clinical and paraclinical procedures.

The aim is to evaluate the students’ self-assessment skills during the education of clinic and pre clinic of prosthetic dentistry.

Material and methods: After the completion of certain work - preparation for full veneer crown, a questionnaire was provided to each student in preclinical course (n=30) and clinical course (n=30) for self-evaluation. The questionnaire involved: axial reduction, occlusal reduction, facial and lingual reduction, smoothing and finishing. The answers were based on the standard for the university grading scale. Then, the same questionnaire was fulfilled by the assistant professor without seeing students' self-evaluation.

Results and Discussion: Results have been reported in percentages. 100% respond rate has been achieved. The students from the preclinical course tend to overestimate their performance (50%). The students from the clinical course tend to submit overall lower grades than the faculty evaluation (25%).

Conclusions: The students from clinics have better self-assessment skills. The discrepancy was most pronounced in the junior students. The different evaluations (self-assessment and assistant professor’s) help students to improve their understanding of certain principles and improve the teaching effectiveness of education of prosthetic dentistry.

Key words: students’ self-assessment, clinical teacher evaluation

The ability to self-assess is a critical skill that all health professionals must be able to do, in order to achieve competence. This is essential for the doctors of dental medicine. During their education and practice they apply different clinical and paraclinical procedures. They should be able to assess correctly the procedures they made in order to define their needs of future education. The most of the students of dental medicine significantly emphasizes on the achievement of technical skills, especially in the beginning of their education.

According to several authors [1, 2, 3, 4] high percent of medical and dental students’ self-assessment is not correct.

The reason is that they assess themselves according the efforts involved not involving the quality criteria of the final result.

The reasons for discrepancies in self-assessment and teachers’ assessment could not understanding the material, self-deception, lack of clear criteria assessment of efforts involved and not the clinical performance [5, 6, 7, 8, 9].

Some authors [10, 11, 12, 13] search for correlation between wrong self-assessment and their grades, the year of education, demographic records, eks.

According Mattheos et al. [14] it is exceptionally important that dental students understand that self-assessment has an important role to determine the their needs for education and to understand the level of knowledge of the criteria for clinical performance. The process of education could be significantly improved through self-assessment of dental students [15, 16].

Some authors do not find difference in consistency of the students’ and teachers’ grades [17]. Mattheos et al. [14] determine significant difference in level of agreement among the grades.

The goal of this survey is to evaluate the students’ self-assessment skills during the education of clinic and preclinic of prosthetic dentistry and to compare with teacher’s assessment.

MATERIAL AND METHODS

In this survey participated 30 third-year students from pre-clinical course and 30 students from clinical course (27 men, 33 women; mean age 23 years).

After completing their preparations, students were asked to evaluate themselves according to the standard for the university grading scale on the checklist. Than, the same questionnaire was fulfilled by the assistant professor without seeing students’ self-evaluation. Evaluations of each crown preparation were carried out by a single instructor.

Data analysis. Data entry and analysis was carried out with the help of SPSS 19. A Paired samples t-test was carried out to see if the difference between self- and instructor evaluations were statistically significant for each item.
RESULTS AND DISCUSSION

The results of self-assessment of the students of preclinical course of their education are presented in Table 1. The analysis of the results demonstrate that there is no significant difference (p>0.05) between students’ self-assessment and teacher’s assessment for two from all forth criteria for tooth preparation for complete crown. These criteria were occlusal reduction and smoothing and finishing of the prepared tooth. For the remain two criteria for evaluation (proximal and buccal and lingual reduction) was found significant difference (p<0.05). The students’ grades were higher than the grade from the assistant professor.

Table 1. Comparison between students’ and staff ratings of performance on tooth preparation for full crown in preclinical course.

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<tr>
<th>Evaluation criteria</th>
<th>95% Confidence Interval</th>
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The results of assessment and self-assessment of students from clinical course are presented in Table 2. The analysis of the result presents significant (p<0.05) difference according one of the established criteria - buccal and lingual reduction.

Table 2. Comparison between students’ and staff ratings of performance on tooth preparation for full crown in clinical course.

<table>
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The students from the clinical course determined a lower grade than the teacher’s grade. For the rest criteria – proximal reduction, occlusal reduction and smoothing and finishing there were no significant difference (p<0.05) between student’s and teacher’s grades.

The results of the survey give us a reason for conclusion that the students from the clinical course tend to underestimate their clinical skills. In opposite, the students from preclinical course tend to overestimate their skills.

Dental preclinical procedures are difficult for beginning dental students. However, this is true for not only performing the task, but also for perceptually understanding the task at hand. This could explain the large mean difference comparatively between the student self-evaluation and instructor mark.

Students become more responsible especially for irreversible procedures in clinical classes. They need more practice to feel secure to provide fixed partial dentures for their patients.

Conclusions

The students from clinics have better self-assessment skills. The discrepancy was most pronounced in the junior students. The different evaluations (self-assessment and assistant professor’s) help students to improve their understanding of certain principles and improve the teaching effectiveness of education of prosthetic dentistry.
REFERENCES:


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