

INNOVATIVE TECHNOLOGIES IN ACQUISITION AND PRACTICING PRACTICAL SKILLS OF THE DISCIPLINE THERAPEUTIC DENTISTRY BY STUDENTS FROM FOREIGN COUNTRIES

I.N. Usmanova, L.P. Gerasimova, L.I. Kuznetsova, M.I. Gumerova, Z.F. Sitdikova
Bashkir State Medical University

*Department of Therapeutic Dentistry with the course
of the Institute of Additional Professional Education*

Annotation. This article discusses the advantages of acquisition and improving the professional skills of oral examination, preparation of hard tooth tissues and filling of carious cavities among students from foreign countries using jaw models and simulators. The ongoing development and assimilation of practical skills will increase the scale and quality of assimilation of the section cariology, diseases of hard tissues of teeth, disciplines therapeutic dentistry.

Keywords – students from foreign countries, practical skills, examination, dissection, filling, jaw models, simulators.

Introduction. Introduction. Literature review. Innovations in educational activities are the use of new promising approaches and technologies that contribute to the effective acquisition and development of professional skills [3, 4, 5, 6, 8, 7, 11].

During the entire period of study in higher education students receive theoretical knowledge, and practical knowledge skills and abilities based on their repeated repetition on phantoms, models of jaws or simulators. The initial stage of familiarization with the practical skills of students occurs in the third year during a comprehensive dental examination, then against the background of ongoing therapeutic and preventive treatment. In a comparative aspect with traditional teaching methods, which form the basis of clinical thinking, the development of practical skills on simulation equipment has the property of clarity, in the complex it allows the student to remember and save all the manual actions performed [6].

During the entire period of the educational process in the specialty Dentistry from the 3rd year and inclusive to the 5th year students from foreign countries carry out the acquisition and improvement of their practical skills at the Department of Therapeutic Dentistry. And in the simulation center of BSMU - they work out methods of clinical dental examination according to the algorithm of the diagnostic process for diseases of teeth, periodontal and oral mucosa, as well as work out the stages of preparation of carious cavities of hard tissues of teeth and their filling [1].

Students from foreign countries have the opportunity to fully practice practical skills at the stage of acquisition and improving these using innovative teaching methods, and it contributes to the qualitative development of the most complex techniques and techniques completely without risk to patients [1, 7, 10, 9].

The goal of research is to master and improve practical skills among students from foreign countries of the Faculty of Dentistry on the basis of the Department of Therapeutic Dentistry with a course of extended education institution using innovative teaching methods - the use of models of jaws, phantoms, simulators for practicing and mastering practical skills of preparation of hard tooth tissues and filling of the carious cavity.

The main part (methodology and results). Among foreign students, innovative teaching methods contribute to the qualitative improvement of theoretical knowledge, increase clinical thinking based on the passage of a step-by-step system of phantom-simulation education. Foreign students practice their practical skills depending on the topic of the lesson - methods of complex dental examination of the patient, local anesthesia, preparation of hard tooth tissues and filling of the carious cavity (Figure 1-3). Acquisition, working out and improving practical skills related to the diagnostic process allows you to work out a labor function: conducting a patient examination in order to identify dental diseases of a therapeutic profile and making a diagnosis. Acquisition, working out and improving the practical skill of preparing hard tooth tissues allows you to work out the stages of disclosure, expansion, ne-

crectomy, formation and finishing of the edges of the enamel of the carious cavity. Practicing the sealing skill mainly depends on the class Black.



Fig.1. Working out by students from foreign countries of the method of examination of a dental patient



Fig. 2. Practical skills of preparation of hard tooth tissues by students from among foreign citizens on simulators

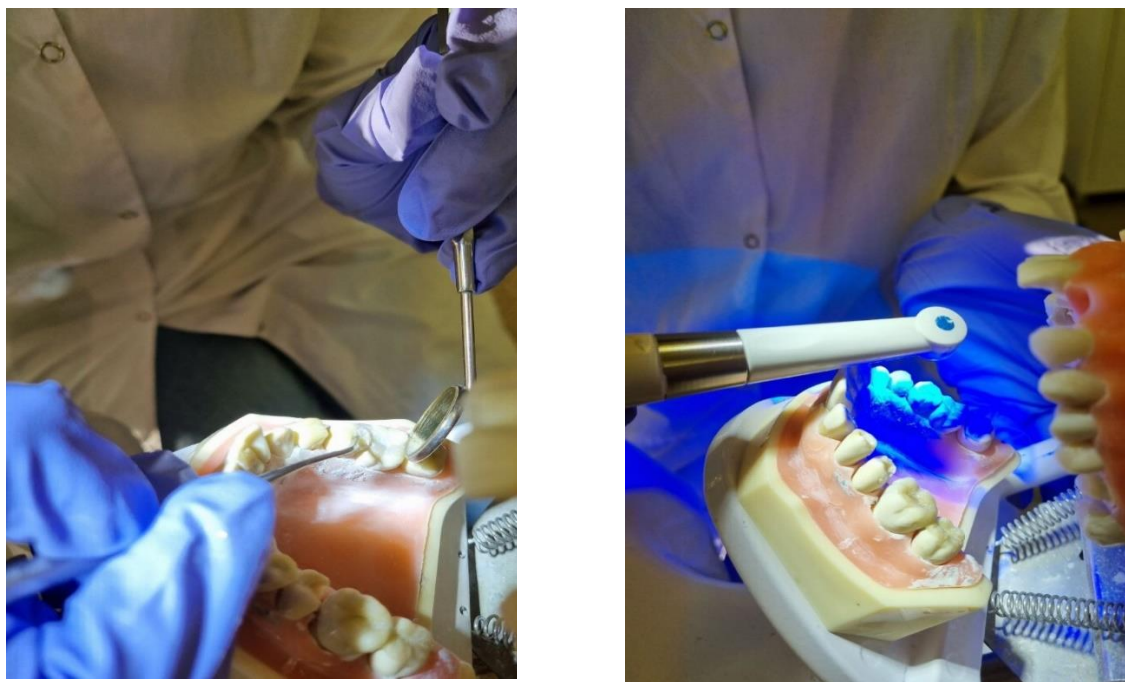


Fig. 3. Practicing practical skills of filling the carious cavity by students from foreign countries on simulators

Conclusions and future prospects. The use of innovative technologies in the form of practicing and improving practical skills - examination of the oral cavity on simulators is more visual for understanding the algorithm of the diagnostic process, practicing practical skills - preparation of hard tooth tissues and / or filling of the carious cavity has visibility for prescribing and conducting treatment.

The data obtained indicate the need to continue working out the improvement of high-quality practical skills of examination of a dental patient, methods of preparation, filling of the carious cavity in clinical and practical classes in the discipline of therapeutic dentistry by students from foreign countries.

Literature

1. Application of simulator in the formation of practical skills in the specialty "surgical dentistry" / S.V. Tarasenko, E.A. Morozova, B.G. Sadyzhanov, N.A. Blagushina // Medical education and higher education science. - 2017. - № 1(9). - pp. 29-31 (In Russ.).
2. Balkizov, Z. Z. Historical sketch of dental simulation education / Z. Z. Balkizov, Y. L. Vasiliev // Medical education and professional development. - 2017. - № 4(30). - pp. 29-34 (In Russ.).
3. Analysis of the impact of simulation training on the level of mastering practical skills in the training system of dentists from the perspective of students on the basis of social survey / L. F. Onishchenko, O. P. Ivanova, A. I. Fursik, O. N. Kurkina // Modern Science-Intensive Technologies. - 2016. - № 8-1. - pp. 135-139. (In Russ.).
4. Galaktionova M.Y., Maiseenko D.A., Tptygina E.V. From Simulator to Patient: Modern Approaches to Professional Skills Formation in Students // Siberian Medical Review. - 2015. - № 2(92). - pp. 108-110 (In Russ.).
5. Kosagovskaya I. I. Modern problems of simulation training in medicine / I. I. Kosagovskaya, E. V. Volchkova, S. G. Pak // Epidemiology and infectious diseases. - 2014. - T. 19. - № 1. - pp. 49-61 (In Russ.).
6. Levanovich, V.V. The role and place of modern educational technologies in medical higher education / V.V. Levanovich, G.A. Suslova, A.V. Gostimsky // Pediatr. - 2013. - T. 4. - № 4. - pp. 3-7 (In Russ.).
7. Mikhilchenko D.V., Mikhilchenko A.V., Poroshin A.V. The role of simulation training in the system of dentist training on the example of the phantom center of Volgograd Medical

- University / D.V. Mikhilchenko, A.V. Mikhilchenko, A.V. Poroshin // Fundamental Research. - 2013. - № 3-1. - pp. 126-128 (In Russ.).
8. Milova E. V. Simulation technologies in the formation of professional competence in dentistry / E. V. Milova, T. V. Kubrushko, M. A. Baroyan // International Journal of Applied and Fundamental Research. - 2014. - № 1-2. - pp. 250-251 (In Russ.).
 9. Simulation training as an effective pedagogical tool for quality training of future dentists / V. G. Galonsky, A. A. Maigurov, N. V. Tarasova [et al] // Siberian Pedagogical Journal. - 2018. - № 2. - pp. 101-110 (In Russ.).
 10. Teaching chiropractic skills to dental students on simulation simulators of different levels. / Usmanova I.N., Gerasimova L.P., Kabirova M.F., Haibullina R.R., Usmanov I.R. // Traditions and innovations in training in a medical university: dedicated to the 85-th anniversary of BSMU: materials of interuniversity teaching and methodological conference with international participation. - Ufa: Publishing house of Federal State Budgetary Educational Institution of Higher Professional Education of BSMU of the Ministry of Healthcare of Russia, 2017. - p. 353 (In Russ.).
 11. The role of simulation technologies in the formation of professional competencies of dental students / E. V. Felker, I. L. Brovkina, A. A. Kryukov, M. A. Baroyan // International Journal of Experimental Education. - 2015. - № 4-2. - pp. 394-395 (In Russ.).

IMPLEMENTATION OF THE PRACTICAL SECTION OF THE ACADEMIC DISCIPLINE ENDODONTICS IN THE PREPARATION OF STUDENTS FROM FOREIGN COUNTRIES AT THE DEPARTMENT OF THERAPEUTIC DENTISTRY

*I.N. Usmanova, L.I. Kuznetsova, M. I. Astakhova, M. I. Gumerova, D.N. Tukhvatullina
Bashkir State Medical University*

Department of Therapeutic Dentistry with the course of the extended education institution

Abstract. The article is devoted to issues concerning practical training in the specialty of Dentistry among students from foreign countries at the Faculty of Dentistry of the FSFEI HE BSMU. Reinforcement of theoretical training in the section of endodontics by working out and improving practical skills of preparation and filling of the root canal system contribute to improving the competence of students, which is the basis for improving their academic performance within the framework of the ongoing educational program in the specialty of Dentistry and Therapeutic dentistry discipline.

Keywords: student, practical skills, models of jaws, endodontic teeth

The modern concept of the development of higher medical education is focused on the training of a motivated highly qualified medical specialist who will have the ability to correctly apply clinical thinking with practical skills and abilities [0, 2, 5, 7, 10, 12, 13].

The practical part of the training is a component unit of the educational trajectory in a higher educational institution and includes not only the theoretical part in the form of computer testing, which allows to assess the level of knowledge by solving clinical and situational problems, as well as the level of practical knowledge during practical training, academic research work and independent work of the student in the form of essays, reports, presentations, participation in conferences and olympiads. The effectiveness of the theoretical training of the student is evaluated by the teacher on the basis of the above criteria. Nevertheless, the theoretical and practical training of the student occupies a leading place in the formation of his clinical thinking, as well as increases the ability to learn, develops the need for improvement [3, 4, 6, 9, 8, 11, 13].

The purpose of this work is to assess the level of mastering the practical skill of endodontic preparation and filling of the root canal system by students from foreign countries in the section of endodontics of the discipline therapeutic dentistry.