

STUDY SIMULATOR FOR PRACTICING PRACTICAL SKILLS IN SURGERY

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Abstract

The article covers the methods of teaching the use of models, virtual and current modern technologies in surgery. The use of an interactive anatomical device, simulators, provides information about the answers and suggestions for the adaptation of the reading process to its modern requirements, information about the appearance of anatomical objects and their significance.

Keywords: Training, simulator, biological material, 3D modeling, knowledge control.

Introduction

One of the most important elements of studying at a medical university is changing practical support. This is especially important for clinicians on the surgical path, since technically successfully performed surgical mixing is in many ways the patient is the key to recovery. For the development of surgical techniques, at the same time in endoscopic surgery, it is now used for street trainers, mortar equipment or animals. However, the modern methodology of teaching medicine applies new requirements to the teaching process.

Foreign colleagues have developed many types of different simulators and brought them into the read jaroyoni with dignity. However, it is kimmat to buy them for the Uzbek nobility.

Goal. The purpose of our work is to develop a universal low-budget simulator for the development of surgical games.

Materials and methods. To develop a surgical simulation, a special silicone has been developed that analyzes the biological collection well.

In the first boskich, a plasticine model of the simulator was produced, after which it was left from plastic to pour a silicone substrate on its basis.

Results and discussions. This training platform is a solid silicone structure that provides excellent training for a person and makes personal surgery and allows. It can be developed to study plurality in open and laparoscopic surgery. All elements of the simulator lie on a 16 x16 CM substrate with a thickness of about 3 mm. The manufactured model allows you to develop skills for combining equipment in different conditions. The Simulator works to develop the installation technology of the type of different tension, to check the shearing of uneven shapes, to restore holes, to add a seam to the cut togmima, to work in the chontaks, at the place of the limitation of the seam, to add a seam in the Middle, made at the height of the type, taking into account



References

1. Kagan I.I. Covremennaya klinicheskaya Anatomy, problemi ee npe- podavania I V Poccuu razvitia. Morphology. 2016;149(1):96-99. Kogon II. modern clinical anatomy, its teaching problems and Development in Russia. Morphology. 2016;149(1):96-99. (In Russ.).
2. «14.03.01 Anatomy cheloveka» BAK.Pacport cpesialnocti Da- 11.01.20. <https://www.teacode.com/online/vak/p14-03-01.html> passport of the specialty 14.03.01 human anatomy. Appeal date 01/11/2020.<https://www.teacode.com/online/vak/p14-03-01.html> (in Russ.).
3. Kulpina E. V. C Prepodavanie anatomii cheloveka pozisii kom-noghoga. Journal anatomii gictopathologii I. 2015;3(15):67. Kul'pina House. Teaching human anatomy from a skill-based approach position. Zhurnal anatomii i histopathologii. 2015;3(15):67. (In Russ.).
4. Rabochaya nporpamma fgoc BO Lechebnoe Delo 31.05.01. D ata Obra- 11.01.2020. <https://www.sechenov.ru/univers/structure/facultie/lech/dokumenty/fgos-vo-lechebnoe-delo-35-01-01/> Federal state educational standard work program for the General Medicine 31.05.01. Date of Appeal 01/11/2020. <https://www.sechenov.ru/univers/formation/facultie/lech/dokumenty/fgos-vo-lechebnoe-delo-35-01-01/> (in Russ.).
5. Lone M, McKenna JP, Balta JY. Evaluation of Thiel embalmed cadavers as a training tool for oral Anatomy and local anesthesia. J Dent Education. 2017;81(4):420-426.
6. Hanson C, Wilkinson T, Macluskey M. dental undergraduates think are Thiel embalmed cadavers a more realistic model for teaching exodontia? Eur J Dent Education. 2018;22(1):14-18.
7. A. A. Razmishleniya O dokazatelnoy negaroruke ugly. Pedagogi-checkie innovasii: tradisii, Opit, percpectivi. Material Mej- dunarodnoy nauchno-prakticheckoy conference. Vitebck: VGU; 2010. Ugly AA. Reflections on evidence-based pedagogy. Pedagogical innovations: traditions, experience, prospects. Mater. Int. scientific and practical. conf. Vitebsk: VGU; 2010. (In Russ.).
8. Nikolenko V.N., Oganecyan M.V., Kudryashova V.A., N Rizaeva.A., Shumak A. V. No Chto mojet priblizit prepodavanie anatomii K - trebnoctyam prakticheckoy medisini? Covremennie problem na- Uki I obrazovania. 2017;3. 11.01.20. URL: <http://science-education.ru/ru/article/view?id=26477> Nikolenko VN, Oganecyan MV, Kudryashova va, Rizaeva NA, SHumak AV. What can bring Anatomy training closer to your needsapplied medicine? Modern problems of Science and education. 2017;3.Treatment date: 01/11/2020. URL: <http://science-education.ru/ru/article/view?id=26477> (in Russ.).
9. G, Eisenberg N, Carmyle sh. The role of anatomy in medicine education. Amee Guidance. 2009;36:373-386.

