

Applying 3D-printing technology in planning operations of cancer patients

Kashapov L., Rudyk A., Kashapov R.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. The purpose of this work was creation 3D model of the front part of the skull of the patient and evaluates the effectiveness of its use in the planning of the operation. To achieve this goal was chosen an operation to remove a tumor of the right eyelid, germinate in the zygomatic bone. 3D printing was performed at different peripheral devices using the method of layering creating physical objects by a digital 3D model as well as the recovery model of the skull with the entire right malar bone for fixation on her titanium frame to maintain the eyeball in a fixed state.

<http://dx.doi.org/10.1088/1757-899X/69/1/012016>
