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Utilization of robotic and endovideosurgical interventions at the neck/head area

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Robotic and endovideosurgical interventions are considered to be among the most innovative techniques in tumor treatment, specifically for head/neck area. At the clinic of plastic surgery PMGMU, named after I.M. Sechenov, several approaches were developed that largely helped with tumor treatment at T1-T2 stages with a minimal impact to patients' external body parts. One of them is hybrid method, which includes robotic and endovideosurgical intervention that enable the access to the affected area. As a result, blood loss and precision of the surgical actions were minimal. In all cases, gasless method of tumor removal took place with the formation of the subcutaneous tunnel. In order to optimize visualization of tumors, all patients went through the MSKT 640. There were 10 successful surgeries. Three surgeries were performed on the thyroid area with an access through the armpit zone, which minimized the external impact. Two surgeries were performed on the lymph neck nodes, where the access was built from behind the ear. Three oropharyngeal resections and two laryngectomies finalize the list. Among positive post-surgical processes were early patients' activation, shortening of the hospitalization time and a satisfactory cosmetic result. Early patients' activation and short rehabilitation time after surgery helps to move to the following treatments at short time (chemotherapy and radiation therapy). This gives a tremendous impact on patients' lives and it is accomplished by the combined approach in the tumor treatment. Practical implementation of the robotic technology is a successful driver of the plastic surgery. It enables with a combined approach to the execution of the oncological protocol for the patients that have minor neoplasms at the head/neck area.

Biography

Reshetov Igor Vladimirovich has been working as Vice-Rector for innovation work and Head of Department of Oncology and Reconstructive Plastic Surgery, Federal Medical-Biological Agency of Russia since 2003. He is the author of many joint developments between basic sciences and clinical medicine, which is reflected in 490 publications, 6 monographs and atlases and also has 61 inventions and patents to his credit. Since 2014, he is the Head of the Department of Plastic Surgery, I.M Sechenov First Moscow State Medical University, Russia and Director of NACC Plastic Surgery. In 2016, he was elected as an Academician of the Russian Academy of Sciences.

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