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Management of intraoperative issues and frequency of their occurrence during femto laser-assisted LASIK using the WaveLight® FS200 laser

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Purpose: The purpose of this study is to report on the personal experience of “how to manage intraoperative complications” and outcomes in complex cases.

Setting: The following research was set up in Refractive Surgery Department, Ophthalmology Clinic “Sokol”, Rostov-on-Don, The Russian Federation.

Methods: In this study there were reviewed all cases of FemtoLASIK which had been performed for one and a half year. All operations were performed by one surgeon from May 2015 (it's onset date of clinical usage of femto laser WaveLight® FS200 in our department) till December 2016; total amount of executive eyes is 596. According to data of science researches and observations throughout the world from the moment of femto laser introduction in routine surgical practice so far, the most mentioned following complications are OBL, vertical gas breakthrough, anterior chamber gas bubbles as well as suction loss. Mentioned above complications tend to take place independently of model and generation of femto laser which used for flap creation

Results: Incidence and quantity of all complications which occurred during a process of FemtoLASIK procedure, features of management and patient data (pre - and intraoperative data and outcomes, gender, age, ethnicity) were analyzed upon each sort of complex cases, registered and described in this report.

Conclusions: Currently FemtoLASIK is most predictable and precise procedure of laser vision correction despite existence of certain specific intraoperative complications and issues which are clearly linked with femto laser-assisted flap creation. However, relatively simple management upon complex cases helps to achieve high degree of satisfactory or excellent outcomes in vast majority of intraoperative incidents.

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