INCIDENCE OF SILICONE OIL DROPLETS IN THE VITREOUS IN PATIENTS AFTER MULTIPLE INTRAVITREAL INJECTIONS: PRELIMINARY RESULTS FROM A SINGLE-CENTER RUSSIAN STUDY

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Purpose: To estimate the incidence of silicone oil drops in the vitreous in patients who received at least 5 intravitreal injections of drug solutions.

Methods: We examined 86 eyes of 85 patients (56 women, 29 men; age from 36 to 89 years, mean - 71.7 years) who received from 5 to 39 intravitreal injections of solutions of various drugs (mean 13.2). A single examination identified complaints that could be caused by floaters, and visualized the vitreous using biomicroscopy and B-scan ultrasonography.

Results: Silicone oil droplets were detected by biomicroscopy in 57 cases (66.3%), by ultrasonography in 76 (88.4%). 7 (8.1%) patients had related complaints. 4 patients (4.7%) had a history of aseptic vitreitis.

Conclusions: The release of silicone oil droplets from syringes during intravitreal injections is an urgent problem. In the Russian Federation, the situation is aggravated by the lack of pre-filled syringes with anti-VEGF drugs and the lack of syringe models officially approved for use in ophthalmology.

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