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Incidence of posterior vitreous detachment after femtosecond LASIK compared with microkeratome LASIK**Moataz Hamed Osman**
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This is a prospective, nonrandomized comparative unmasked study. The purpose was to compare the incidence of Posterior Vitreous Detachment (PVD) after femtosecond and microkeratome LASIK. Eligible patients chose between femtosecond and microkeratome LASIK after appropriate counseling. B-scan ultrasonography was performed before surgery by a single operator. Patients with preexisting PVD (partial or complete) were excluded. The axial length was also recorded. All surgery was performed by a single surgeon at Rowad Correction Centre, Cairo, Egypt. During surgery, the suction time was measured. Ultrasonography was repeated one month after surgery by the same operator to detect PVD. The results are 10 patients (20 eyes, group M) underwent LASIK using the Moria M2 microkeratome and 10 patients (20 eyes, group F) underwent femtosecond LASIK with the IntraLase FS-150. In groups M and F, respectively, the proportion of women was 80% and 70% and the mean age was 24.7 ± 4 years and 25.7 ± 3.3 years, the mean axial length was 24.2 ± 1.2 and 23.8 ± 1.2 mm and the mean suction time was 18 ± 2 seconds and 63 ± 4 seconds ($P=0.001$). After surgery, PVD was detected in 4 eyes (20%) in group M and 17 eyes (85%) in group F ($P=0.000044$). It can be concluded that the incidence of PVD one month after femtosecond LASIK was higher than after microkeratome LASIK. This may be due to longer suction time during femtosecond LASIK despite lower suction pressure.

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