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[Photodynamic therapy for subretinal neovascular membranes. Communication 1. Results of treatment for age-related macular degeneration].

[Article in Russian]

Avetisov SE, Budzinskaia MV, Kiseleva TN, Kazarian EE, Gurova IV, Smirnova TV, Shchegoleva IV, Loshchenov VB, Shevchik SA, Kuz'min SG, Vorozhtsov GN.

Abstract

The purpose of the study was to assess the results of photodynamic therapy (PDT) for subretinal neovascular membranes (SNM) in age-related macular degeneration (ARMD), by using the Russian drug Photosens. According to the treatment performed, all the patients were divided into 2 groups: 1) 18 patients with the neovascular form of ARMD who received a course of PDT; 2) 14 patients with the same form who had drug therapy. Photosens (**aluminum phthalocyanine**) was intravenously injected in a dose of 0.05 mg/kg. The irradiation conditions were as follows: a session was carried out, using a laser at a wavelength of 675 nm, in an exposure light dose of 120 J/cm². The number of sessions ranged from 3 to 5 a week, depending on the clinical picture of SNM. The total light dose was not greater than 500 J/ cm². PDT showed a higher efficiency, as compared to drug therapy. PDT using Photosens increases and stabilizes visual acuity in 50% of cases, improves retinal functional activity (an increase in the mean value of a b-wave amplitude), and causes positive changes in the morphometric values of the mean neuroepithelial thickness above SNM and in the foveola.

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Publication Types, MeSH Terms, Substances

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