

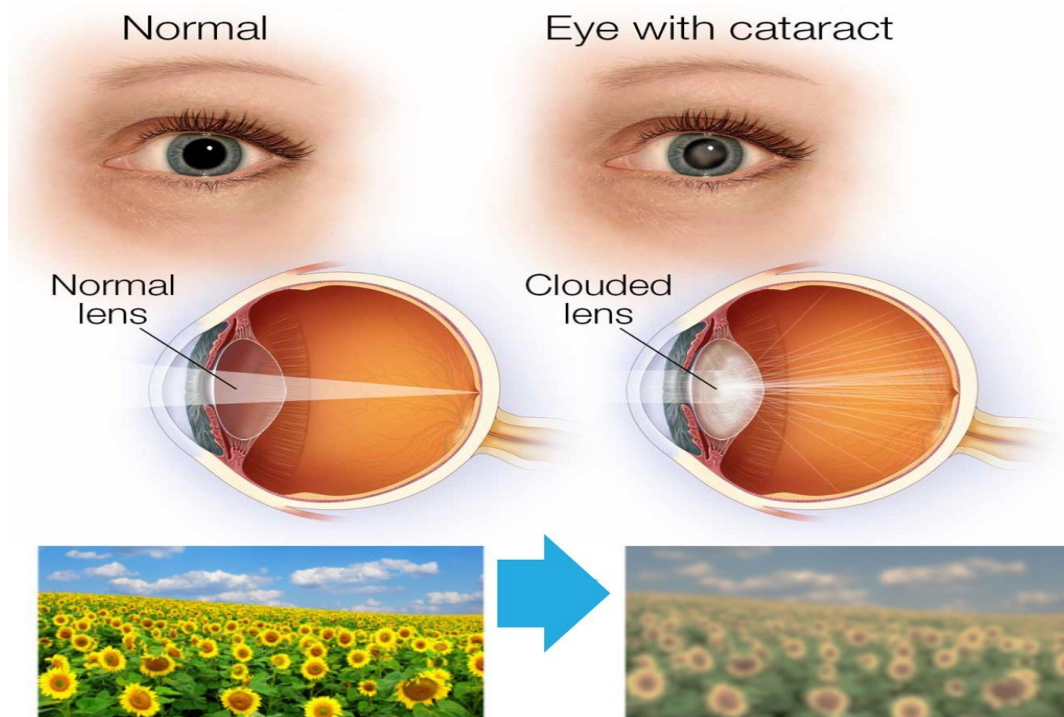
Medical PEMF Studies



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GLAUCOMA

The effect of a pulsed electromagnetic field on ocular hydrodynamics in open-angle glaucoma.



1. Oftalmol Zh. 1990;(2):89-92.

[Article in Russian]

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The influence of pulse electromagnetic field on the hydrodynamics of the eye in open-angle glaucoma has been studied using the method and the device suggested at the Filatov Institute. The characteristics of the action were: impulse frequency--50 Hz, duration--0.02 sec., pulse form--rectangular, rate of pulse rise--4/10(-4) sec., rate of magnetic induction rise--2/10(-4) mT/sec., amplitude value of magnetic induction at the pulse level--8.0-8.5 mT, duration of the procedure--7 min. Ten session in a total. Observations over 150 patients (283 eyes) with latent, initial and advanced glaucoma have shown that the usage of pulse electromagnetic field exerts influence on the hydrodynamics of the eye in

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open-angle glaucoma; stimulates the rise of aqueous outflow and production, the reduction of the Becker's coefficient. At the latent stage of the disease, normalization of outflow was recorded in 25% of cases, at the initial and advanced stages--in 17.8% and 16.0% of cases, respectively. The investigations carried out allow to recommend the mentioned method for a complex treatment of open-angle glaucoma.

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