Dear Patient,

thank you for your interest in the EYETRONIC® Therapy!

The EYETRONIC® Therapy is designated to treat visual field loss which is caused by damages of the optic nerve.

The system for treating visual field loss is a CE certified medical device, in accordance with EU regulations.

So far over 1000 patients had been treated with the EYETRONIC® Therapy.

Following you can find some information about the therapy.

Diseases of the optic nerve (optic neuropathies)

Optic neuropathies such as Glaucoma or an ocular infarct (AION: Anterior ischemic optic neuropathy) are diseases of the nerve cells of the retina in the eye, the so called ganglion cells, whose nerve fibers form the optic nerve [1].

Depending on the different underlying disease, for example an increased intraocular pressure, circulatory disorders or inflammatory reactions may cause retinal ganglion cells to cease their function or even die irrevocable.

The EYETRONIC® therapy is based on the knowledge that lost vision can be partially restored if the ganglion cells in the eye have not yet been destroyed and their structure is still preserved.

Recent results from medical research show that non-invasive optic nerve stimulation can help prevent ganglion cells from destruction and stimulate their regeneration and return them to normal function [2,3,4,5,6,7].

[1] Weinreb R N, Aung T, Medeiros FA. The pathophysiology and treatment of glaucoma: a review. JAMA. 2014;311:1901-11.
[2] Erb C. [Relationship between structure and function - what is first affected in glaucomatous disease and its progression and what implications can be drawn for glaucoma diagnostic procedures?]. Klin Monbl Augenheilkd. 2012;229:106-11.
[3] Morimoto T, Miyoshi T, Matsuda S, Tano Y, Fujikado T, Fukuda Y. Transcorneal electrical stimulation rescues axotomized retinal ganglion cells by activating endogenous retinal IGF-1 system. Invest Ophthalmol Vis Sci. 2005;46:2147-55.
[4] Tagami Y, Kurimoto T, Miyoshi T, Morimoto T, Sawai H, Mimura O. Axonal regeneration induced by repetitive electrical stimulation of crushed optic nerve in adult rats. Jpn J Ophthalmol. 2009;53:257-66.
[5] Miyake K, Yoshida M, Inoue Y, Hata Y. Neuroprotective effect of transcorneal electrical stimulation on the acute phase of optic nerve injury. Invest Ophthalmol Vis Sci. 2007;48:2356-61.
[6] Fu L, Lo AC, Lai JS, Shih KC. The role of electrical stimulation therapy in ophthalmic diseases. Graefes Arch Clin Exp Ophthalmol. 2015;253:171-6.
[7] Kurimoto T, Oono S, Oku H, Tagami Y, Kashimoto R, Takata M, et al. Transcorneal electrical stimulation increases chorioretinal blood flow in normal human subjects. Clin Ophthalmol. 2010;4:1441-6.

By applying gentle alternating pulses which are individually adapted to the patient, the EYETRONIC® Therapy stimulates the metabolism of the neurons in order to restore their function and to stop further cell degeneration.

Through these neuroprotective and neuro-regenerative processes, the EYETRONIC® Therapy can at least partially restore visual field loss and delay the progression of the disease.

Therapy Results

The efficacy of the EYETRONIC® Therapy has been proven in a randomized, placebo-controlled double-blind trial carried out by university clinical centers, like the Charité in Berlin, Germany.

Patients treated with the therapy benefited from a significant improvement of their vision compared to a group of patients who did not receive the treatment at first. On average an improvement of 24% of the visual field was observed in the treatment group [8].

Recently in the US presented and in a peer-reviewed journal published long-term-data of patients with progressive glaucoma showed furthermore that in over 63% of treated eyes a standstill or even an improvement of the visual field loss could be observed at a one-year follow-up. In comparison to the common worsening rate of >+0.5 dB/year in all glaucoma patients under standard of care, the current study revealed a trend reversal with an average improvement of -0.6 dB/year in patients with progressive glaucoma within one year after the EYETRONIC® Therapy [9,10].

The therapy can therefore be a good option to treat visual field loss in glaucomatous progression.

Please note, however, that not every patient responds to the same degree to the therapy and as with any other medical method, there is no guarantee that the treatment will be successful in your case.

[8] Gall C, Schmidt S, Schittkowski MP, Antal A, Ambrus GG, Paulus W, et al. (2016) Alternating Current Stimulation for Vision Restoration after Optic Nerve Damage: A Randomized Clinical Trial. PLoS ONE 11(6): e0156134.
[9] Erb C, Eckert S, Gindorf P, Köhler M, Köhler T, Neuhann L, Neuhann T, Salzmann N, Schmickler S, Ellrich J (2021) Electrical optic nerve stimulation halts progression of visual field loss in glaucoma patients. Brain Stimulation 14: 1640.
[10] Erb C, Eckert S, Gindorf P, Köhler M, Köhler T, Neuhann L, Neuhann T, Salzmann N, Schmickler S, Ellrich J (2022) Electrical neurostimulation in glaucoma with progressive vision loss. Bioelectronic Medicine 8, 6.

Costs

The EYETRONIC® therapy is the only treatment method designed to improve the vision of patients with visual field loss for certain indications. Since the therapy is a private medical service, which is currently not yet covered by any health insurance, you will have to pay privately for the complete costs of therapy.

Upon an individual request, special health insurance plans may partially or fully cover the costs based on a case-by-case decision. However, there is no code or a claim for reimbursement at this stage.

Required costs for traveling and accommodation have to be added.

Treatment Opportunities

If you are generally interested in receiving the treatment, we would kindly ask you to contact your preferred treatment center.

The physician in the respective treatment center will along with you evaluate if the EYETRONIC® therapy is suitable for you and discuss the next steps.

We are currently cooperating with the following treatment centers in **Germany, Switzerland, Slovakia, Poland, Italy and in Spain**:

Germany

- Berlin: **Augenklinik am Wittenbergplatz**, Prof. Dr. med. Carl Erb
  Kleiststraße 23-26, D-10787 Berlin, Germany
  E-Mail: eyetronicberlin@gmail.com
  Telephone: +49 30 726 218 960
- Hanover: **Augenzentrum FÄ Nadja Salzmann**, Ophthalmologist Nadja Salzmann
  Celler Straße 79, D-30161 Hannover, Germany
  E-Mail: eyetronic.hannover@web.de
  Telephone: +49 511 33 11 55

- Hamburg: **Augenarzt Fuad Zeidan**, Ophthalmologist Fuad Zeidan
  Hamburger Straße 23, D-22083 Hamburg, Germany
  E-Mail: praxiszeidan@gmx.de
  Telephone: +49 40 22 40 70

- Herrenberg near Stuttgart: **Augenzentrum Eckert**, Dr. med. Sophie Eckert
  Bahnhofstraße 29, D-71083 Herrenberg, Germany
  E-Mail: eyetronic@medizentrum-eckert.de
  Telephone: +49 7032 91 69 00

- Neu-Ulm: **Augenzentrum Eckert**, Dr. med. Sophie Eckert
  Insel 2, D-89231 Neu-Ulm, Germany
  E-Mail: eyetronic@medizentrum-eckert.de
  Telephone: +49 731 262 07 010

- Ahaus: **Augen-Zentrum-Nordwest**, Dr. med. Stefanie Schmickler
  Domhof 15, D-48683 Ahaus, Germany
  E-Mail: ebs-therapie@augen-zentrum-nordwest.de
  Telephone: +49 2561 93 000

Switzerland

- Zurich: **Glaukom Augenklinik Zürich**, Prof. Dr. med. Milko Iliev
  Franklinstrasse 27, CH-8050 Zürich, Switzerland
  E-Mail: info@glaukom-augenklinik.ch
  Telephone: +41 44 312 70 70

Slovakia

- Banská Bystrica: **Viziocum, s.r.o.,** Dr. Mária Praženicová
  Cesta k nemocnici 1, SVK-974 01 Banská Bystrica, Slovakia
  E-Mail: viziocum@gmail.com
  Telephone: +421 907 406 373

Poland

- **Katowice: GlaucoMed Gabinet Okulistyczny,**
  hab. n. med. Adrian Smędowski FEBO, Prof. ŚUM
  Stanisława Moniuszki 20, PL-41-902 Bytom, Poland
  E-Mail: kontakt@glaucomed.pl
  Telephone: +48 577 044 204
- **Warsaw: Libermedic Warszawskie Centrum Okulistyczne**
  Prof. dr. hab. n. med. Iwona Grabska-Liberek
  Sokołowska 9, PL-01-142 Warszawa, Poland
  E-Mail: kontakt@libermedic.com
  Telephone: +48 22 690 03 59

Locations of EYETRONIC® Therapy Centers in Germany, Switzerland, Slovakia & Poland

Italy

- Milano: **Centro Italiano Glaucoma,** Prof. Carassa

  Piazza Repubblica 30 (ingresso viale Tunisia 45), IT-20124 Milano, Italy

  E-Mail: info@centroglaucoma.it

  Telephone: +39 02-77331542

- Nizza Monferrato: Dott. Carlo Orione

  Via Gozzellini 3, IT-14100 Nizza Monferrato, Italy

  E-Mail: carlo.orione@orioneye.com

  Telephone: +39 0141721427

Locations of EYETRONIC® Therapy Centers in Italy

Spain

- A Coruña: **Vista Gutiérrez Amorós Oftalmólogos,** Dr. Carlos Gutiérrez Amorós
  Rúa Posse 57, ESP-15009 A Coruña, Spain
  E-Mail: atencionpaciente@vistagutierrezamoros.com
  Telephone: +34 981 130 929

- Alicante: **Vissum - Grupo Miranza,** Dr. Lucía Rial Álvarez
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  Telephone: +34 965 154 062

Locations of EYETRONIC® Therapy Centers in Spain

We thank you sincerely for your interest in the EYETRONIC® Therapy!

Kind Regards

Your EYETRONIC® Team