

**A GUIDE FOR PATIENTS**

# **LITERATURE**

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literature page



## ❖ Optic Atrophy

### ➤ Stem Cell Ophthalmology Treatment Study (SCOTS): Bone marrow-derived Stem Cells in the treatment of Dominant Optic Atrophy

We report the results of 6 patients with Dominant Optic Atrophy (DOA) who met inclusion criteria and were treated in the Stem Cell Ophthalmology Treatment Study (SCOTS).

SCOTS/SCOTS 2 is an Institutional Review Board-approved and NIH registered (**NCT 03011541**) clinical study that uses autologous bone marrow-derived stem cells (BMSC) in the treatment of optic nerve and retinal disease.



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### ➤ Visual function in patient with optic nerve pallor (Optic atrophy)

This cross-sectional study assessed the relationship between the degree of optic nerve pallor (optic atrophy) and visual function. Using a set of “gold standard” stereoscopic slides, the severity of optic atrophy for 270 eyes, each having sustained a bout of optic neuropathy, was graded.

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## ➤ Stem Cells to replace the Optic Nerve

Methods that exist now and that might be developed are suggested to replace retinal ganglion cells and their axons in the optic nerve, ultimately to re-establish functional vision in eyes blind from glaucoma.

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## ➤ Stem Cells treatment of degenerative eye disease

Stem cell therapies are being explored extensively as treatments for degenerative eye disease, either for replacing lost neurons, restoring neural circuits or, based on more recent evidence, as paracrine-mediated therapies in which stem cell-derived trophic factors protect compromised endogenous retinal neurons from death and induce the growth of new connections.

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## ➤ **Cells Replacement therapy for Retinal and Optic nerve Disease: Cell sources, Clinical trial and Challenges**

The aim of this review was to provide an update on the potential of cell therapies to restore or replace damaged and/or lost cells in retinal degenerative and optic nerve diseases, describing the available cell sources and the challenges involved in such treatments when these techniques are applied in real clinical practice.

[Read more](#)



## ➤ **Stem cell ophthalmology treatment study (SCOTS) for retinal and optic nerve disease: A Preliminary report**

In this report, we present the results of a single patient with optic neuropathy treated within the Stem Cell Ophthalmology Treatment Study (SCOTS). SCOTS is an Institutional Review Board approved clinical trial and is the largest ophthalmology stem cell study registered at the National Institutes of Health to date- [www.clinicaltrials.gov](http://www.clinicaltrials.gov) Identifier **NCT 01920867**.

[Read more](#)





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