

Innovative treatment restores sight in patient

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Innovative treatment has improved the vision of a patient suffering from a rare cancer-related syndrome affecting the eye, new research in the journal *JAMA Ophthalmology* reports.

In the first study of its kind, a team of researchers from the University

of Surrey and Royal Surrey County Hospital, supported by the electrophysiology department of Moorfields Eye Hospital, investigated a new approach in treating melanoma-associated retinopathy (MAR), a rare auto-immune syndrome occurring in patients with cancer, which can cause night blindness and progressive vision loss.

Researchers, working with a 73 year old patient suffering with MAR, investigated if long acting steroid implants injected into the eye could improve vision and reduce symptoms. The implants slowly release fluocinolone acetonide, a corticosteroid, into the eye which prevent anti-retinal antibodies attacking proteins in the organ. Current therapies to treat patients with MAR are limited in their effectiveness and may be harmful to some.

After one week of treatment improvements in the vision of the patient were detected and detailed examination of the patient's eye revealed that abnormalities previously observed such as reduced electroretinogram recordings had partly resolved, which is consistent with improved inner retinal cell function. Monitoring the patient over a three year period, researchers found that vision remained stable with visual acuity remaining at 20/20.

Simon Taylor, Professor of Ophthalmology at the University of Surrey and Consultant Ophthalmic Surgeon at the Royal Surrey County Hospital, said: "To our knowledge, this is the first time the [vision](#) of a patient with melanoma-associated retinopathy has been treated and significantly improved with long acting steroid implants. This offers a possible alternative treatment option to [patients](#), whose quality of live is significantly reduced due to the symptoms of this debilitating ailment."

The patient who underwent this pioneering treatment, said: "Every day I am extremely grateful to have had this treatment. After being diagnosed with serious melanoma, and during [treatment](#), I developed problems with

my eyes: deterioration of my sight, discomfort and extreme disturbance. Prior to this I had enjoyed perfect sight.

"I am so thankful to Professor Taylor and the team at the Royal Surrey County Hospital for all the care I have received and restoring my eyesight."

More information: Eleni Karatsai et al. Outcomes Associated With Sustained-Release Intraocular Fluocinolone Implants in a Case of Melanoma-Associated Retinopathy Treated Without Systemic Immunosuppression, *JAMA Ophthalmology* (2019). [DOI: 10.1001/jamaophthalmol.2019.0284](https://doi.org/10.1001/jamaophthalmol.2019.0284)

Provided by University of Surrey

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