## Ads by Google Search **Stop Macular Degeneration** Regain Lost Vision with Dr. Todd's Proven no-Surgery or Drugs Approac www.BetterVision.com Macula Plus : Lutein Zeaxanthin and Mesozeaxanthin keratitis For repigmenting the macula 25. Noviembre 2009 08:21 www.Super-Smart.eu Researchers from the UGR have provided an Lasik Phuket Thailand early diagnosis of certain ocular diseases that Clear vision on vacation are very common today, such as age-related safe cheap price experience macular degeneration and keratitis, by applying www.phukethospital.com an existing optical technique that, nevertheless, **Pharma Market Access** had never before been used for this purpose. Strategic pricing and market access consulting for the life sciences Scientists from the UGR have studied the image www.creativ-ceutical.com quality in subjects affected by one of these two pathologies, finding a greater amount of ocular **Ukraine Pharma Sales** aberrations and a higher level of scattering (term Delta Medical, your sales agent for Rx and Consumer healthcare associated with the dispersion that light suffers www.deltamedical.com.ua when passing through the various ocular media) in affected eyes compared with results in healthy **Macular Degeneration** eyes. This significantly affects visual Did you know that Chinese herbs car performance. easily treat Macular Degeneration? hnmrc.net **Cursos Técnicos Granada** Ocón. Cursos Técnicos En Granada Cursos Con Prácticas y Bolsa Empleo www.MasterD.es/Cursos **Boletín Electrónico** Cáncer de mama, magazine orientad that the corneal surface may suffer. a profesionales, infórmate www.esteve.es **Optical instruments Can-C Eye Drops** Free US Shipping. Member BBB. N-acetylcarnosine Drops. US Shipper www.heranswer.com 50 Hotels in Granada Book your hotel in Granada online. Find your hotel on a city map! www.Booking.com/Grana retinal pathology. **Ophthalmology Software** EMR und management software for eye care professionals www.ifasystems.com **Retinal Tears** reached the normal values of visual acuity. Digital ophthalmoscope technology developed at Warwick University UK www.ventures.warwick.ac Visual quality characterization Free! Free Magazines nature methods

## << Trends in the U.S. intranasal drug delivery market | Report on the global market for prostate cancer therapeutics >> UGR researchers provide early diagnosis of ARMD and Lasik Phuket Thailand Clear vision on vacation safe cheap price experience www.phukethospital.com Stop Macular Degeneration Regain Lost Vision with Dr. Todd's Proven no-Surgery or Drugs Approach www.BetterVision.com **Eye Drops For Cataracts** Cataracts Dissolved Without Surgery The Quick & Easy Solution Is Here! www.Cataracts-Dissolved.Com **Pharma Market Access** Strategic pricing and market access consulting for the life sciences www.creativ-ceutical.com Anuncios Google This work has been performed by the researcher Carolina Herrera Ortiz, from the Optics Department at the University of Granada, and directed by professors José Ramón Jiménez Cuesta and Francisco Pérez

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Age-related macular degeneration (ARMD) is the leading cause of central vision loss in developed countries, and mainly affects people of over 50 years of age. As far as keratitis is concerned, this condition causes inflammation of the cornea and can cause blindness, due to the severe alterations that the corneal surface may suffer.

To carry out this work, the scientists measured the image quality with two optical instruments and used a psychophysical test for assessing visual performance. Results from patients with ARMD were compared with those obtained from a control group of similar age without any ocular pathology. Thus, the researchers could verify that for individuals affected by this condition there is an increased level of ocular scattering that could be mainly due to the disruption suffered by the light reflected in the damaged retina of the ARMD eyes, because *a priori* optics are not expected to be altered, since it is a retinal pathology.

On the other hand, optical quality and visual performance have also been studied in patients affected by keratitis. Eyes affected by keratitis present a poorer optical quality and a reduced visual performance that improves significantly after the resolution of the pathology. Nevertheless, once medical treatment ends, eyes that suffered from keratitis still have a worse image quality compared to the contralateral healthy eye, a result that significantly influences visual performance even having reached the normal values of visual acuity.

The results of this research carried out at the UGR will make a full and objective characterization of visual quality in patients affected by any of these ocular pathologies. So far, the use of new techniques for assessing objectively the optic quality of the eye has been limited to studies on refractive or cataract surgery. However, as Carolina Ortiz Herrera suggests, this work "may be of particular interest to establish an early diagnosis of certain ocular diseases such as age-related macular degeneration, the main cause of central vision loss in developed countries."

Furthermore, this technique allows researchers to carry out a monitoring of possible stages of both diseases. Ortiz Herrera stresses the importance of including "both in the clinical practice of optometry and ophthalmology" the use of new techniques that, objectively, could indicate deterioration in vision even when the visual acuity values are normal, since "vision is not only seeing well, but providing



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The results of this PhD research led to two publications in journals of international prestige such as *Journal of Modern Optics* and *Cornea*. They will be soon published in *Current Eye Research*.

SOURCE University of Granada

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