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New laser workstation to change permanently eye color for congenital and secondary heterochromia patients

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Since 2012 a strong effort on innovation and research has been conducted with several collaborators to create a new major eye procedure and then a new medical specialty. In 2014 and 2017 author has presented in national meetings an update about his first results and late follow up of cosmetic laser iridoplasty to safely correct any congenital and secondary heterochromia case. From beginning, main goal was to demonstrate safety, effectiveness and predictability.

Methodology & Theoretical Orientation: Several studies were conducted about visual acuity, eye pressure, iris histology, OCT, angle gonioscopy and specular microscopy, and after one year, all of them showed no vision impairment. Safety level was then successfully tested and new works were designed to develop innovative tools to improve laser accuracy. Engineering teams were joined to our project and dramatic advances were reached to increase effectiveness and final outcome prediction. Current step has been designed to introduce worldwide a quick, safe and effective technique (IRÎZ Workstation) as gold standard.

Conclusion & Significance: At this point, success evidence is so clear based on more than 4,000 regular procedures and hundreds of real eye photos published. Cosmetic iridoplasty by IRÎZ workstation is a non-contact, painless, blade-free, at the office outpatient procedure to treat any iris pigmented disorder and cosmetic indication. IRÎZ is an integrated laser system, with non-sterile requirements, scanner pattern, white and IR eye tracker and OCT module, to perform customized treatments based on preop analysis.

Recent Publications

1. Grimaldos, Pedro (2014) Laser cosmetic iridoplasty. First world clinical results. XXII Meeting of SELMQ, May 28-30, Madrid, Spain
2. Grimaldos, Pedro (2017) Laser cosmetic iridoplasty update. XXV Meeting of SELMQ, May 26-27, A Coruña, Spain
3. Grimaldos, Pedro (2013) Neweyes laser book. Scientific Cosmetic Outcome Predictor Software by Eyecos Corporation
4. NewEyes 3D Simulator de Eyecos Corp.
5. NewEyes 3DSimulator - Aplicaciones en Google Play

Biography

Pedro Grimaldos has focused his large clinical activity on anterior segment eye surgery for nearly 30 years. In early 90's he worked hard to improve modern cataract phacoemulsification technique with topical anesthesia. In 1996, he started laser assisted keratomileusis procedures to correct myopia, hyperopia and astigmatism errors. In 1999, he introduced an innovative technique to treat presbyopia with only laser, named presbylasik, a gold standard so far. In 2010 several research lines were addressed to correct any pigmentary iris disorder as heterochromia, congenital and secondary as well. Finally, in 2012 laser cosmetic iridoplasty clinical trials were established to reach a safe, effective and predictable procedure. Now, after a remarkable effort on innovation, he introduces IRÎZ workstation, an integral laser system to change permanently eye color.

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