



THE SWITZERLAND EYE RESEARCH INSTITUTE, A BEACON OF INNOVATION IN THE SCIENCE OF VISION

Among the vast range of futuristic solutions to eye problems offered by SERI Lugano, their techniques to correct presbyopia are of particular interest. In fact, the **Institute's bilateral, rapid and painless interventions meet patients' needs with highly individualized treatment.**



perfected, for all types of vision problems and all age brackets (including paediatric).

Besides performing refractive surgery designed to correct visual defects, the Switzerland Eye Research Institute plays a significant role in the diagnosis and individualized treatment of retinal pathologies, such as glaucoma, retinitis pigmentosa, and maculopathy provoked by diabetes.

From the start, SERI Lugano has always distinguished itself for the importance it assigns to each individual patient. In fact, in addition to a physical evaluation, each patient is given a psychological evaluation during the pre-operation consultation, permitting doctors to understand his or her needs and expectations.

While Dr. Pinelli is enthusiastically involved in several fields of re-

In this page, SERI Lugano is a centre for vision science research and innovation in the field of eye surgery, which offers non-invasive, bilateral and painless corrective surgery for all kinds of sight defect in line with the latest scientific developments available.



search, he is particularly interested in presbyopia. Today, there are a variety of approaches to correct this physiological condition, which generally manifests between the ages of 40 and 45 with a gradual loss of elasticity of the crystalline lens.

Specifically, Dr. Pinelli and his highly respected team have developed an innovative technique known as the Pinelli Presby Profile®, internationally patented, which allows the farsighted patient to recover his or her vision. Thanks to this upgrading of the "Only Laser Lasik" technique, no blade is needed and both eyes can be treated simultaneously with three different light sources, resulting in a fast, safe and painless cure. First the surgeon creates a thin flap of corneal epithelium with a femtosecond laser; then he remodels the newly exposed corneal area with an excimer laser, and finally, he uses UV-A rays to fortify the collagen bonds in the corneal tissue. The novel aspect of this Lasik variant is that it allows doctors to correct various vision problems simultaneously in a single brief session, and without the need for exasperating post-op rehabilitation.



Above, Dr. Roberto Pinelli, Scientific Director of the Switzerland Eye Research Institute. **Below,** the location of SERI Lugano in Palazzo Mantegazza with its wide lake-view windows reflect the limpid style of the vision that drives the Institute.

Similarly fast and less invasive than earlier techniques is refractive lensectomy, a form of surgery for patients with initial clouding of the crystalline lens or for those in the age range of presbyopia with serious defects. In this revolutionary new procedure, known as "pha-

coemulsification", an ultrasound is introduced through an incision of less than 2 millimetres, emulsifying the crystalline lens so that it can be aspirated from the eye. An artificial intraocular lens is then inserted in its place.

By allowing patients to completely recover their visual capacity, the Pinelli Presby Profile® and lensectomy are in effect two anti-aging techniques.

Meanwhile, Dr. Pinelli is already looking towards the future. As he explained, "The objective is to prepare the patient's cornea at the age when presbyopia tends to begin, around 40 to 45. In this way, when the presbyopia would normally begin to manifest, the cornea will already be shaped in such a way as to eliminate the effects." This is the "farsighted" goal of one for whom vision is both a profession and a passion.

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SWITZERLAND EYE RESEARCH INSTITUTE, UN FARO DELL'INNOVAZIONE NELLA SCIENZA DELLA VISIONE

Lo Switzerland Eye Research Institute, fondato a Lugano alla fine del 2013 dal Dr. Roberto Pinelli, specialista Fmh in oftalmologia e oftalmochirurgia di fama internazionale, rappresenta un centro di eccellenza in Canton Ticino per la ricerca e l'innovazione in ambito oftalmico. In linea con la migliore tradizione elvetica in campo medico, nell'avveniristico laboratorio di SERI Lugano, dotato delle più sofisticate tecnologie strumentali, si sperimentano e affinano soluzioni – chirurgiche, cliniche e farmacologiche – per qualsiasi problema visivo e fascia d'età (anche pediatrica).

Tra i vari ambiti di ricerca, un'attenzione specifica viene riservata alla presbiopia, condizione fisiologica che si manifesta attorno ai 40-45 anni con la graduale perdita di elasticità del cristallino e che può oggi essere corretta ricorrendo a diversi approcci. In particolare, l'innovativa Pinelli Presby Profile®, oggetto di brevetto internazionale, aggiornando la tecnica "Only Laser Lasik" consente di evitare le bisturi e trattare contemporaneamente entrambi gli occhi in modo rapido, sicuro, indolore, impiegando tre diverse fonti di luce. Qualora si renda invece necessario l'intervento chirurgico, altrettanto veloce e poco invasiva è la lensectomia refrattiva, che con una procedura d'avanguardia, detta 'factoemulsificazione', permette di inserire una lente intraoculare artificiale.

Consentendo di recuperare appieno le capacità visive, sia la Pinelli Presby Profile® sia la lensectomia refrattiva rappresentano due tecniche anti-aging.