



# SERI

SWITZERLAND  
EYE  
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INSTITUTE



## Pinelli Presby Profile®

the panfocal solution  
for presbyopia

Solutions in sight  
[www.seri-lugano.ch](http://www.seri-lugano.ch)



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## Presbyopia can now be corrected!

The **Pinelli Presby Profile®** is a non-surgical procedure that **uses light** to **treat presbyopia**. It is a personalized enhancement of the Femtolasik Lux® technique designed by Dr. Roberto Pinelli.

Contrary to recent popular belief, **it is now possible to eliminate presbyopia with non-surgical techniques that use specific photon emissions at calibrated frequencies.**

The distinguishing feature of the Pinelli Presby Profile® is the possibility to treat not only patients who have never shown visual deficits before the onset of presbyopia (emmetropic patients), but **also those who arrive with other impairments such as myopia (short-sightedness), hypermetropia (long-sightedness) or astigmatism** (ametropic patients).

# How does the Pinelli Presby Profile® work?

The **Pinelli Presby Profile®** is effective because, employing radiation with distinct light sources at controlled frequencies, it leads to the creation of an **aspherical cornea**, whose profile does not follow a perfect curve. In addition to **solving the problem of presbyopia, this asphericity also goes beyond the concept of multifocality, allowing the patient's visual system to focus both near *and* far.** Therefore, a **panfocal aspherical cornea** is created.

It is a **quick and painless non-surgical procedure.** By irradiating the external corneal surface with **femtosecond** light, Dr. Pinelli lifts an extremely thin flap and then remodels the underlying part with the photons of the **exciplex** laser. In this way, he creates an aspherical curve on the cornea through a **specific algorithm** calculated by Dr. Pinelli in an individualized fashion for each patient. After the instillation of a few drops of **ParaCel® osmotic eyewash on the cornea**, light is administered to the cornea again, in the form of ultraviolet light of **UV-A rays**. This strengthens the collagen bonds and stabilizes the result obtained. The flap of superficial tissue is reintegrated from the cornea **within a few hours and without stitches.**



# What are its advantages?

- **It is a non-surgical, completely non-invasive procedure (no incisions, scalpels, or stitches) and therefore absolutely safe.** For this reason, it is particularly welcomed by patients.
- **It simultaneously corrects several visual deficiencies,** thereby doing away with glasses for reading and distance vision.
- The procedure is **bilateral** (both eyes during the same procedure), **completely painless**, and allows normal daily activities to be resumed immediately.
- **Eliminates the need for contact lenses and multi-focal glasses.**
- **Guarantees considerable corneal strengthening.**
- **It has an anti-ageing effect,** as the improvement in vision is accompanied by the discontinuation of glasses and the restoration of a more vital appearance.
- **It is a highly personalized technique,** tailored to the individual.

# Who is it for?

- **Those between 40 and 45 years old,** a period in which the typical inconveniences of presbyopia begin, such as the progressive loss of the ability to focus on printed characters (a newspaper article, a menu, a text message) or small objects placed too close together.
- **Those who, in their advancing years, want to rejuvenate their eyesight** and get rid of their glasses.
- **Those who did not suffer from any visual impairments** before presbyopia, but now have to wear reading glasses.
- **Those who already were wearing glasses or contact lenses for one or more *distance* vision impairments,** but now also have to contend with added presbyopia.

# A made-to-measure solution for the patient

The **Pinelli Presby Profile®** can be performed using different techniques, with a high degree of customization tailored to the characteristics of each individual patient.

**A preoperative assessment consultation is fundamental** because it is the only way to assess with certainty whether the patient would be a good candidate for a safe and effective treatment. The refractive surgeon has expertise in the latest techniques and can therefore **suggest to the patient which treatment will best suit their presbyopia.**

In the unlikely event that, after some time, a minor adjustment is needed to optimize the results obtained with the first procedure, the **Pinelli Presby Profile®** is the best option because it is **extremely delicate and non-invasive, using only light.**

## What is presbyopia

**Presbyopia is a completely natural progressive phenomenon**, due to the physiological process of stiffening of the structures of the eye, which occurs with the passage of time. It is not spontaneously reversible; it can vary from person to person to some extent, but its effects can be remedied, and its progress can be slowed down (and in most cases, halted). It is therefore not a visual deficiency but is rather a process involving the **crystalline lens** (the transparent lens of the eye that determines the focusing of images), **which thickens** and gradually becomes resistant to the so-called **“accommodation mechanism”**, i.e., *near*-focusing. This mechanism is regulated by the ciliary muscle and is similar to the zoom lens of a camera.

The Switzerland Eye Research Institute (SERI Lugano) is a centre for research and innovation in vision science. Founded in Lugano in 2013, it offers solutions for all visual impairments (including presbyopia) through scientifically validated, non-invasive, bilateral procedures that are consistently pain-free.

SERI Lugano not only deals with the correction of visual defects, but also offers services recognized by LAMal (the Swiss Federal Law on Health Insurance) for personalized diagnosis and treatment in all areas of ophthalmology, from retinal disorders to pediatric ophthalmology.

Under its Scientific Director, Dr. Roberto Pinelli, SERI Lugano is continuously developing its research in the fields of vision science, medical ophthalmology, paediatric ophthalmology, and the use of nutraceuticals and light in ophthalmology.

SERI Lugano delivers a range of treatments, whether medical or involving a range of photon-based procedures, which are always in keeping with the most innovative, safe, and effective scientific developments. These results have been brought about through continuous ongoing research and state-of-the-art diagnostic and procedural tools and technology.

The treatment procedures are many and varied; the approach is completely personalized and based on the use of sophisticated equipment. The latest generation of advanced technology is always combined with the technical and interpersonal skills of the various specialists who work within the institute.

SERI Lugano is inspired by, and committed to, an institutional culture of excellence in the field of vision science and in patient satisfaction.

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## Switzerland Eye Research Institute SA (SERI Lugano)



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