

**ELZA**

SWISS EYECARE AT ITS FINEST



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# WELCOME TO ELZA

## SETTING GLOBAL STANDARDS IN OPHTHALMOLOGY

Swiss Medical Excellence.

It's why people travel from all over the world to Switzerland, and it's something that ELZA epitomises.

Even for Switzerland, ELZA is no ordinary eye practice.

Many practices have the latest equipment. Some have experienced surgeons.

Very few have active research and development groups with a global reputation.

ELZA has all three: equipment we helped develop, some of the world's most experienced surgeons, and a research team that has shaped – and continues to shape – how ophthalmology is practiced.

In fact, ELZA epitomises the best medicine available today.

This combination equals the very best of Swiss Medical Excellence. You're in safe hands at ELZA.

Trust us to deliver.

Best regards,



**Farhad Hafezi, MD, PhD, FARVO**

Chief Medical Officer, ELZA Institute

Professor of Ophthalmology, University of Geneva, Switzerland

Visiting Professor of Ophthalmology, University of Wenzhou, China

Research Professor of Ophthalmology, NYU Grossman School of Medicine, New York, USA

Professor of Clinical Ophthalmology, USC Roski Eye Institute, University of Southern California, Los Angeles, USA

# SWISS EYECARE AT ITS FINEST

There's a reason why Switzerland delivers world-class healthcare, and it's not because of the clean air and beautiful surroundings.

The Swiss healthcare system is unique. Most Swiss citizens can choose to visit any physician they want in the country for treatment and have it covered by insurance. Everyone wants to be treated by the best surgeon – so the driving force is quality of service, making what's on offer truly world class.

This is why people travel from all over the world to Switzerland for treatment: Swiss Medical Excellence. It's what ELZA epitomises.

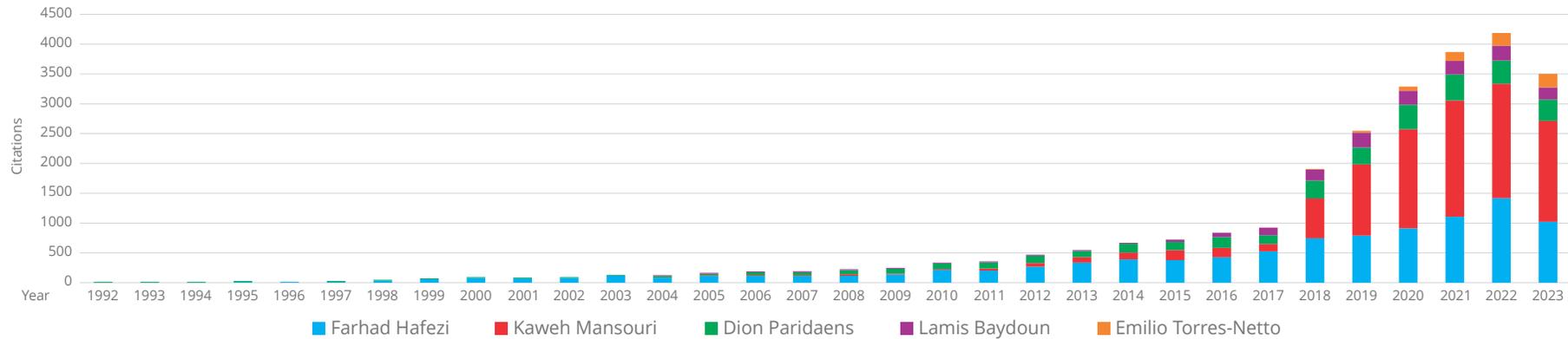
Because even for Switzerland, ELZA is no ordinary eye practice, thanks to its combination of research, equipment, and experience.

So why not come to ELZA and experience Swiss Eyecare at its finest?

You can find us at two locations: at ELZA Dietikon, and our new flagship ELZA in the historical main station building in the heart of Zurich, at the start of the famous "Bahnhofstrasse".



Our scientific work has been cited over 39,000 times by our peers.



**Kaweh Mansouri**  
Adjunct Professor, Department of Ophthalmology, University of Colorado School of Medicine, Denver, USA



**Farhad Hafezi**  
Professor of Ophthalmology, University of Geneva, Switzerland Visiting Professor of Ophthalmology, Wenzhou Medical University, Wenzhou, China; Adjunct Clinical Professor of Ophthalmology, Keck School of Medicine; Research Professor of Ophthalmology, NYU Grossman School of Medicine, New York, USA



We hold 5 professorships in 3 continents.



Our clinical and scientific research work (>700 papers to date) has appeared both in top medical and scientific journals.

# ELZA'S ACHIEVEMENTS

## OUR GLOBAL REPUTATION



The Global Power List ranks the most influential people in ophthalmology.

ELZA staff have been ranked 9 times in the past 10 years – unprecedented for an institute of our size.



# LASER REFRACTIVE SURGERY

## YOUR EYES ARE UNIQUE. SO IS OUR TREATMENT

At ELZA, we understand laser surgery completely. We have more than 20 years of experience – and we’ve successfully treated everything from the simplest to the most complicated cases.

We’ll formulate a customized treatment plan, informed by our decades of experience. And when it comes to touchless laser treatment with our state-of-the-art laser, there’s another detail you should know...

Unlike most practices, ELZA is not merely a user of lasers.

Instead, we help develop them. Our knowledge of what works and what doesn’t is unparalleled.

ELZA handles everything – from a simple myopia correction to some of the most complicated cases ever, referred to us by surgeons from all around the world – with the same care and attention being paid to scanning, planning and treating each person’s cornea.

Trust ELZA to deliver great vision. You’re in the hands of true experts, after all.

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### Our surgeries

- Femto-LASIK, TransPRK and SMILE (CLEAR).
- Myopia up to -14 D, astigmatism up to 10 D and complicated optics.
- Reoperations in previously failed surgeries.

### Our technology

- Schwind AMARIS Excimer laser using data from CSO MS-39, Peramis and Sirius.
- Oculus Pentacam, Keratograph, and Corvis ST.
- Ziemer Z8 Femtosecond laser.

### Our experience

- We developed globally used laser nomograms
- Prof. Hafezi is Associate Editor of the leading journal “Journal of Refractive Surgery” and Dr. Torres is a fellow of the World College of Refractive Surgeons.

# KERATOCONUS

## THE CROSS-LINKING (CXL) PIONEERS

If you have keratoconus and you're reading this, you'll know that corneal cross-linking (CXL) is the only treatment that can slow or stop its progression.

We at ELZA are world leaders in both keratoconus and cross-linking clinics, research and development.

We've been there from the start, and our work has – and continues to – shape the field.

Our surgeons have also pioneered CXL for post-LASIK ectasia, Pellucid Marginal Degeneration, Terrien's Disease and even Keratoglobus.

We have developed the sub400 protocol for ultrathin corneas, and epi-on cross-linking without iontophoresis or additional oxygen.

Our new PACE method can drastically improve vision in keratoconus.

We have developed the most modern CXL device available: EMAGine's C-eye, which is used in more than 70 countries.

Members of our team are placed number 1, 2 and 5 of ExpertScape's list of global CXL experts. Our decades of cross-linking experience mean that your cornea couldn't be in safer hands.

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### Our surgeries

- CXL: high-fluence epi-off CXL, epi-on CXL, sub400 protocol for ultrathin corneas, STARE-X, TREK, CXL for keratoglobus, Athens-Protocol and total corneal wavefront-guided PRK, PACE and Femto-CAIRS.

### Our technology

- Schwind AMARIS Excimer laser.
- Ziemer Z8 Femtosecond laser.
- EMAGine C-eye device.
- CSO Italia MS-39, Sirius, and Peramis.

### Our experience

- Research group with the biggest output in the history of CXL.
- Expertscape global #1, #2 and #5 CXL experts.
- Top 5 research group in the history of keratoconus.





# OCULOPLASTIC SURGERY

## LOOK FANTASTIC, NOT PLASTIC

What's the point of plastic surgery that makes you look plastic? Yet so many people who have eyelid surgery don't end up looking younger – they just look like they've had plastic surgery. Why? Perhaps too much skin was removed here, or a muscle was shortened by a little too much.

Creating a visage that looks youthful, but most importantly, natural, is a work of art. And it takes years of experience to achieve this consistently.

Our consultant surgeon, Dr. Dion Paridaens, MD, PhD is internationally renowned and one of the most experienced oculoplastic surgeons in the world.

As President of the European Society for Oculoplastic and Reconstructive Surgery (ESOPRS), and as Head of a Fellowship Program since 1998, Dr. Paridaens has trained countless oculoplastic surgeons in Europe and elsewhere.

Paridaens has performed more than 35,000 oculoplastic procedures to date, and it's this experience that means you will look fantastic, not plastic, after surgery.

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### Our surgeries

- Complex reoperations in previously failed surgery
- Blepharoplasty, Asian blepharoplasty.
- Congenital and acquired ptosis.
- Malignant tumors.

### Our techniques

- Our surgeons have developed and published several new reconstructive surgical techniques that have been widely adopted.

### Our experience

- More than 35,000 oculoplastic surgeries performed.
- Trained and educated hundreds of younger colleagues since 1998.

# ORBITAL SURGERY

## EXPERIENCE COUNTS IN LARGE AMOUNTS

Whether it's orbital decompression to improve the symptoms and appearance of bulging eyes in Graves' Disease, tumour removal, or even evisceration or enucleation, it's always the surgeon's experience that counts. It's as simple as that.

So whether the surgery is for cosmetic or therapeutic reasons, know that ELZA's surgeons have performed more than almost any other surgeon in the world.

ELZA's Dr. Dion Paridaens, MD, PhD, has performed over 2,000 orbital decompressions to reduce proptosis in Graves' orbitopathy and has removed several hundreds of tumors within the bony orbit.

Few, if any, surgeons practicing today can claim to have done that.

Be sure about your surgeon. Safety and success stem from experience – and our surgeons are world leaders because of theirs. At ELZA, you can be sure that you'll be in safe hands.

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### Our surgeries

- Transconjunctival orbital decompression.
- Removal of orbital tumors.
- Enucleation.
- Evisceration.

### Our techniques

- Our surgeons have developed and published several new reconstructive surgical techniques that have been widely adopted.

### Our experience

- More than 2,000 orbital surgeries performed to date, a number few other centers have achieved.





# CATARACT SURGERY

## INCREASING YOUR QUALITY OF LIFE

We understand optics. We know that cataract surgery is more than just replacing a cloudy lens with a clear one. For us, cataract surgery is refractive surgery.

For light to reach the retina, it has to pass through the optics. That's why we comprehensively assess your cornea, lens and retina, before doing anything else. We will work with you to understand the type of vision you want after surgery, and make a treatment plan to deliver excellence.

Cataract Surgery is more than just the technical act of the surgery. It is about listening to the patient's visual needs, their lifestyle and activities, and choosing the right optical approach from a multitude of possibilities.

Whether you want to see clearly with or without glasses, we have a wide range of techniques and lenses to give you excellent post-surgical vision.

Your goal is to see clearly after the procedure – we will do the rest. At ELZA, we have the most modern surgical instruments and femtosecond lasers, and access to the latest and most advanced lenses. This is all designed to give you a trouble-free procedure, with the best-possible vision afterwards.

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### Our surgeries

- Phacoemulsification and implantation of modern intraocular lenses.
- Femtosecond laser-assisted cataract surgery (FLACS).

### Our technology

- Oertli CataRhex 3 and Ziemer Z8 femtosecond laser
- Pentacam AXL optical biometry.
- IOLs: aspheric, aspheric toric, EDOF, EDOF toric, trifocal, trifocal toric, and multifocal.

### Our experience

- More than 35 years of combined surgical experience.
- ELZA members helped introduce the first blue-blocking aspheric IOLs back in 2002.

# CORNEAL SURGERY

## WHERE LEADERSHIP AND EXPERIENCE MEET

Whether it's using lasers to treat irregular astigmatism or corneal scars, or performing corneal transplantation surgery, ELZA's surgeons are world leaders.

Our surgeons' knowledge of the cornea is comprehensive, earned over more than 20 years of research and clinical practice.

We're educators too: countless surgeons have learned how to perform some of the most advanced corneal transplantation techniques available today (such as DMEK) or therapeutic corneal laser surgery from us.

It's why you'll find ELZA surgeons presenting on the podium at every major international eyecare conference, and why there's a procession of doctors visiting ELZA to learn from us.

These colleagues recognise our knowledge and expertise – from the molecular level upwards – and aspire to one day deliver what we do every day: happy patients with great outcomes.

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### Our surgeries

- Corneal transplant surgeries like DMEK, DSAEK, penetrating keratoplasties, and intracorneal ring segments (ICRS and Femto-CAIRS).
- Therapeutic laser corneal reshaping.

### Our technology

- Our femtosecond laser, the Ziemer Z8, enables corneal surgeries to be performed with the highest precision – from corneal transplants to additive procedures that reshape the cornea.

### Our experience

- Our surgeons have pioneered several of the techniques we offer – and have trained many surgeons worldwide in these techniques.





# GLAUCOMA SURGERY

## PRESERVING YOUR VISION THE SMART WAY

Glaucoma therapy has undergone a revolution over the last 10 years. Instead of being all about eyedrops and major drainage surgery, we are in a new era of glaucoma surgery: an age of lasers and microinvasive glaucoma surgery (MIGS).

For MIGS to be successful, these micro-stents, shunts and laser treatments that re-open the eye's natural drainage pathways have to be implanted in the right place to have the desired effect.

At ELZA, our team includes glaucoma surgeons who are MIGS and laser experts – who have been there from the start and have helped develop the modern standards used today,

So whether your objective is to take fewer eyedrops for pressure control, or you need a much bigger intervention for IOP control, the experts at ELZA can deliver the highest standard of care, with the latest technologies and best practice methods to give you what you want.

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### Our surgeries

- Trabeculectomy, deep sclerectomy, MIGS procedures, HFDS and SLT.

### Our technology

- High-speed dynamic Scheimpflug imaging to assess IOP (CorVis).
- Heidelberg Spectralis OCT, Optos / Nikon Silverstone.
- Zeiss Humphrey Visual Field III.

### Our experience

- More than 3,000 glaucoma surgeries performed.
- Published over 100 scientific papers on glaucoma.
- Prof. Mansouri is Executive Vice President of the World Glaucoma Association.

# RETINAL SURGERY

## ADVANCED CARE AND INNOVATION

At the ELZA Institute, our dedication to retinal research spans over three decades.

In 1997, we achieved the first complete inhibition of light-induced retinal sensory cell death, marking a significant milestone in retinal research.

As pioneers in the field, we have also contributed to the first international clinical studies on the artificial retina, notably the Second Sight Argus II project. Our groundbreaking findings were published in Nature Medicine and Nature Genetics.

The retina is an exquisite and sensitive tissue. At ELZA, we understand the critical importance of this nerve tissue and are committed to preserving and enhancing retinal health through innovative treatments and cutting-edge research.

Our team of highly skilled ophthalmologists leverages decades of experience and the latest technology to deliver personalized care tailored to each patient's unique needs.

Trust ELZA to deliver unparalleled retinal care, ensuring the best possible vision for the future.

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### Our surgeries

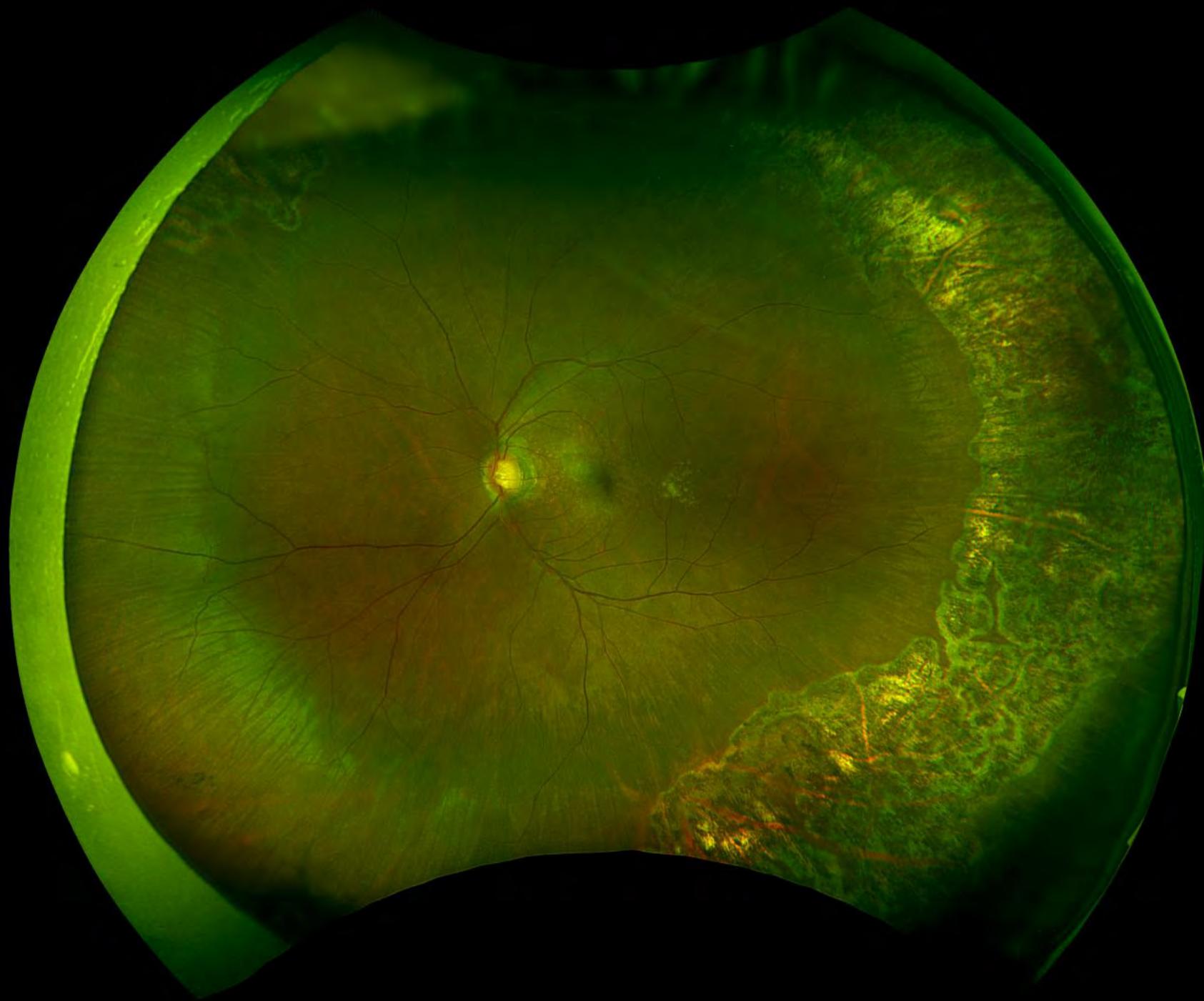
- Scleral buckling surgery.
- Pars plana vitrectomy.
- Macular surgery including macular pucker and macular hole.

### Our techniques

- Optos / Nikon Silverstone ultra-widefield OCT and fluorescence angiography.
- Heidelberg Spectralis OCT.
- Bausch + Lomb Stellaris Elite Vitrectomy.

### Our experience

- More than 10 years of surgical experience in retina
- Research on long-term scleral buckling outcomes in primary rhegmatogenous retinal detachment.
- Published more than 50 scientific papers on retina.



# MEET OUR SURGEONS

## PROF. MULT. DR. DR. FARHAD HAFEZI, MD, PHD, FARVO

Prof. Farhad Hafezi is truly one of the world's leading eye surgeons and researchers. He's been a laser refractive surgeon for over 20 years and been part of the corneal cross-linking story from the start.

When it comes to refractive surgery, Prof. Hafezi is an expert in complicated case management. His decades of experience mean that he is able to successfully treat some of the most challenging corneas – and it's part of the reason why people travel from all over the globe to be under his care.

When it comes to cross-linking, Prof. Hafezi has not only been a pioneer of its use in treating keratoconus, he's also led the

way for PACK-CXL's use in treating corneal infections, a term he has defined.

His bench-to-bedside combination of research and clinical application has helped to improve the lives of hundreds of thousands of people on a global level to date, and there's a reason why he's Expertscape's Global #1 ranked doctor for corneal cross-linking.

His combination of knowledge and experience is unique, and he epitomises the best of Swiss Medical Excellence. You can trust him to deliver great vision.

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### Surgeries

- Corneal diseases, with a special focus on keratoconus.
- Refractive laser surgery.
- Corneal surgery.

### Impact

- Cited over 15,000 times in the scientific literature.
- *h* index of 60, cumulative impact factor 1,050 points.
- More than 260 scientific contributions to the peer-reviewed literature.

### Academic excellence

- Four active professorships (Switzerland, China, USA).
- One of eight ESCRS Council Members.
- Organiser of the 2nd Global Consensus on Keratoconus 2024.





# MEET OUR SURGEONS

## DR. DR. DION PARIDAENS, MD, PHD

Dr. Dion Paridaens is one of the most experienced oculoplastic, lacrimal and orbital surgeons in the world.

Dr. Paridaens performed more than 35,000 oculoplastic and 2,000 orbital procedures to date, and currently performs around 720 oculoplastic, 300 lacrimal, and 200 orbital procedures each year – and it's important to understand just how much experience counts towards the best medical and cosmetic outcomes.

Paridaens' work is part medicine, and part work of art, and there's nothing amateur about it, just professional excellence.

Dr. Paridaens is therefore one of the most in-demand oculoplastic surgeons internationally, not just for what he can do with his hands, but also for what's inside his brain.

He sits on the advisory and editorial boards of many prestigious medical journals, and has trained countless young physicians as the Chief Physician at the Eye Clinic Rotterdam, a position he's held since 1996.

Dr. Paridaens is the current President of ESOPRS (European Society for Ophthalmic Plastic and Reconstructive Surgery) Excellence. Experience. You couldn't be in safer hands.

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### Surgeries

- Eyelid surgeries, including Asian blepharoplasty, eyelid reconstruction, and eyebrow lifts.
- Orbital surgery, including orbital decompression surgery for Graves' disease, removing malignancies.

### Techniques

- Our surgeons have developed and published several new reconstructive surgical techniques that have been widely adopted.

### Experience

- Experience enhances outcomes: Dr. Paridaens has performed more oculoplastic, orbital and lacrimal surgeries than most other oculoplastic surgeons in Europe.

# MEET OUR SURGEONS

## PROF. DR. KAWEH MANSOURI, MD, MPH

Prof. Kaweh Mansouri is a leading figure in modern glaucoma surgery. During his training, he worked with the very best surgeons and researchers globally (and in his thirties was twice voted as one of the “Top 40 Under 40” ophthalmologists in the world).

Today, he’s a leading figure in his own right, and in 2024, was elected a member of The Ophthalmologist’s Power List.

Prof. Mansouri helped pioneer micro-invasive glaucoma surgery (MIGS) right from the start – something that has transformed the surgical treatment of the disease. He is also a keen proponent of laser therapy, and his knowledge and experience make him in great demand as a speaker at international congresses.

In fact, Prof. Mansouri was the first ophthalmic surgeon to give a TEDx talk back in 2012. In addition, Prof. Mansouri is a global top 20-ranked Expertscape glaucoma physician, and was recently appointed Executive Vice President of the World Glaucoma Association.

An Adjunct Professor of Ophthalmology at the University of Colorado School of Medicine in Denver, CO, USA, Dr. Mansouri’s comprehensive understanding of glaucoma from research, plus his lengthy experience pioneering MIGS places him truly in the world’s top tier of surgeons.

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### Surgeries

- Micro-Invasive Glaucoma Surgery (MIGS) - alone, or combined with Cataract Surgery.
- Laser therapies like SLT, ALT and Elios.
- Traditional filtration surgeries.

### Techniques

- Continuous IOP monitoring sensors.
- A wide selection of advanced MIGS devices to ensure the best option for your eye is available.
- Laser trabeculoplasty.

### Experience

- Pioneer of not only continuous IOP monitoring technology, but also was at the leading edge of several MIGS and laser therapy adoption.
- Top 20-ranked glaucoma physician worldwide.





# MEET OUR SURGEONS

## DR. DR. LAMIS BAYDOUN, MD, PhD

Dr. Lamis Baydoun, MD, PhD, is a world-renowned expert in corneal transplantation surgery. She has played a pivotal role in popularizing DMEK surgery, a technically challenging but highly effective partial-thickness corneal transplantation. In addition, she has trained most of the surgeons in Europe who perform this procedure today.

Dr. Baydoun's unparalleled experience and innovative research efforts continue to advance the field. Her recent work focuses on enhancing DMEK and developing new

methods of corneal transplantation to benefit more patients with corneal disease.

Dr. Baydoun is not just a rising star; she is a true superstar in corneal transplantation. Her extensive knowledge and experience ensure the best possible outcomes for her patients.

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### Surgeries

- Dr. Baydoun performs all of ELZA's corneal transplant surgeries, including lamellar keratoplasties like DMEK, PDEK, as well as penetrating keratoplasties (full corneal transplants).

### Technology

- ELZA's Ziemer Z8 femtosecond laser can enable incredibly precise cuts to be made when preparing corneal tissue for keratoplasty surgery.

### Experience

- Dr. Baydoun taught DMEK surgery to most European surgeons who perform it today.
- She has performed more DMEK procedures than most corneal specialists on the continent.

# MEET OUR SURGEONS

## DR. ANDREA OLEÑIK MEMMEL, MD, PhD, MBA

Dr. Andrea Oleñik Memmel, MD, PhD, MBA, is a distinguished ophthalmologist specializing in retinal diseases. She graduated with honors from the Universidad Nacional de Rosario, Argentina, and subsequently specialized in ophthalmology at the same institution.

Dr. Memmel's research interests include age-related macular degeneration (AMD), diabetic retinopathy, and retinal detachment surgery, and her work has been published in leading international ophthalmic journals.

At ELZA, Dr. Oleñik Memmel is known for her meticulous approach to patient care, particularly in managing complex retinal conditions. She employs the latest diagnostic and therapeutic techniques, ensuring personalized and state-of-the-art treatment for each patient.

Dr. Andrea Oleñik Memmel's combination of extensive clinical experience, dedication to research, and commitment to patient care embodies the values of the ELZA Institute.

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### Procedures and surgeries

- Retinal detachment repair.
- Diabetic retinopathy laser treatment.
- Dry and wet AMD medical management.

### Technology

- OCT imaging with the Heidelberg Engineering Spectralis.
- Ultrawidefield retinal and OCT imaging with the Optos / Nikon Silverstone.

### Experience

- Dr Oleñik Memmel is specialized in managing complex retinal conditions.
- Her work is highly regarded by her peers, and is regularly published in leading academic journals.





# MEET OUR SURGEONS

## DR. DR. EMILIO A. TORRES-NETTO, MD, PHD, FWCERS

Dr. Emilio A. Torres-Netto completed his ophthalmology specialty training in 2013 and sub-specialized in cornea, cataract, and refractive surgery since 2016.

Educated at esteemed institutions such as Stanford University, the Federal University of Sao Paulo, and the Fondation Ophtalmologique Adolphe de Rothschild, Dr. Torres-Netto has been engaged in pioneering research and clinical practice in Zurich, Switzerland since 2016.

In 2021, Dr. Torres-Netto completed his second doctorate in sciences from the University of Zurich, with his PhD thesis titled “Keratoconus, Cross-linking, and Modulating Factors of Corneal Biomechanics”.

He is currently advancing innovative therapeutic approaches for keratoconus, cross-linking, and refractive surgeries at the ELZA Institute and the University of Zurich.

In 2023, Dr. Torres received the Waring Medal, one of the highest global distinctions in the field of Refractive Surgery, awarded at the Annual Meeting of the American Academy of Ophthalmology.

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### Surgeries

- Dr. Torres-Netto is an expert in corneal cross-linking, refractive laser surgery, cataract surgery, and lamellar corneal surgery.

### Research

- An integral part of the ELZA research team, Dr. Torres-Netto has helped developed several advanced CXL protocols that are revolutionizing the treatment of corneal ectasias like keratoconus.

### Reputation

- In 2023 Dr. Torres-Netto has received the Waring medal from the American Academy of Ophthalmology, one of the highest distinctions in ophthalmology.



# INTERNATIONAL PATIENTS

## COMING FROM ABROAD

If you live outside Switzerland and want to visit the ELZA Institute, then we're here to help make the entire process as smooth and successful as possible.

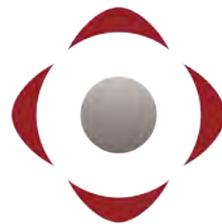
Our team can help you with every aspect of your visit. If you need us to help with obtaining a visa, arranging travel, finding the right place to stay, and organising an interpreter (and more), we're here to make those arrangements.

Everything we do is designed to ensure that the process is as effortless as possible for you.

Every visitor at the ELZA Institute can expect the same excellent service – from the first e-mail or telephone call to the very last check-up.

We're here to make you happy, not just with your medical outcomes, but your entire stay in Switzerland. To get the process started, email to [info@elza-institute.com](mailto:info@elza-institute.com) or scan the QR code to experience the very best of Swiss Medical Excellence – and the rest of what the country has to offer.





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SCAN ME