

In 2024, LVPEI offered INR 97 Crores worth of services at no cost to our patients—nearly 80% as surgical services.

Table Of Contents

Foreword	04
Vision & Mission	06
Eye Care Model	08
Highlights	10
Impact	16
Patient Care	18
Rural Eye Health	32
Education	42
Research	48
Innovation	56
Giving	62
Founders and Donors	68

Foreword

2024 has been a landmark year!

The year began with the Bhosle Gopal Rao Patil Eye Centre in Mudhole, Telangana receiving the NABH (National Accreditation Board for Hospitals & Healthcare Providers) certificate under the 'Small Healthcare Organization (SHCO) Accreditation' category. In fact, 2024 was the year our network crossed the notional mark of 300—we are now at 310 centres across southern and eastern India.

In February, we saw the delivery of another key aspect of the LVPEI promise - taking eye care closer to people who need them. Together with the Infosys Foundation and Infosys Ltd., we launched the SightConnect app. The app uses Al-powered tools to detect signs of any eye and vision abnormalities and guides patients to their nearest eye centre for care. The app also functions as a secure, personal repository of patient visit data and works seamlessly with India's digital health infrastructure. This app is available on the major app stores and allows users to assess the status of their eye health—do use it and share it with others.

In April, the team at Kode Venkatadri Chowdary campus in Vijayawada achieved a major milestone. It is the first and only centre in Andhra Pradesh to offer intra-arterial chemotherapy for retinoblastoma – an eye cancer of young children. More recently, in November, the same team also performed their first plaque brachytherapy (a form of radiation treatment for ocular tumors), demonstrating their quest for excellence. In May, over 2,000 runners sprinted and shuffled to mark Whitathon 2024—our annual run to draw attention to this eye cancer. In June, the GMR Varalakshmi campus in Visakhapatnam was certified the 'best green space'.

By 2024, we had performed over 50,000 corneal transplants since inception, and our partner centre in West

"I believe
that at
the core
of LVPEI's
success is
our ability
to articulate
a unique
vision, hold
fast to it,
and make
it work for
our patients,
donors, and
colleagues."

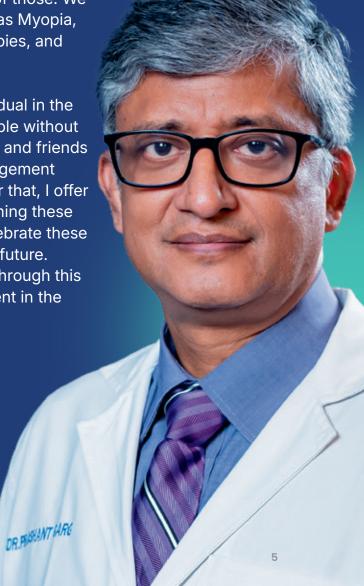
Africa, the Liberia Eye Center, managed 100,000 patient visits since its inception 7 years ago! This year we also celebrated a climb up the SCImago Institutional Rankings charts for Health and Ophthalmology: we were ranked 6th (up from 8th in 2023). These ranks were bookended by some breakthrough announcements from our research teams in gene therapies for intractable vision loss.

All of this demonstrates the relentless drive and commitment of every member of the LVPEI family. I am deeply grateful for the hard work and dedication of my colleagues and team members across all levels.

I believe that LVPEI's success rests in our ability to articulate a unique vision, hold fast to it, and make it work for our patients, donors, and our colleagues too, at every opportunity. Looking ahead, we have set our sights on several focus areas. Elderly eye care & LVPEI@Home (our initiative to bring eye care to the homes of immobile elderly and disabled individuals) are going to be two of those. We will continue to address pressing issues such as Myopia, eye problems in newborns and pre-mature babies, and care for marginalized and tribal communities.

At the centre of all these efforts is every individual in the need of eye care. None of this would be possible without the unwavering support of our donors, alumni, and friends from around the world. Your faith and encouragement have been instrumental in our success, and for that, I offer my heartfelt gratitude. I look forward to cherishing these relationships in the future. Together, let us celebrate these milestones and work towards new ones in the future. With that, dear friends, I invite you to browse through this report to look at the many points of achievement in the year for us.

Prashant Garg Executive Chair "At the centre of all these efforts is every individual in the need of eye care."





Our Vision

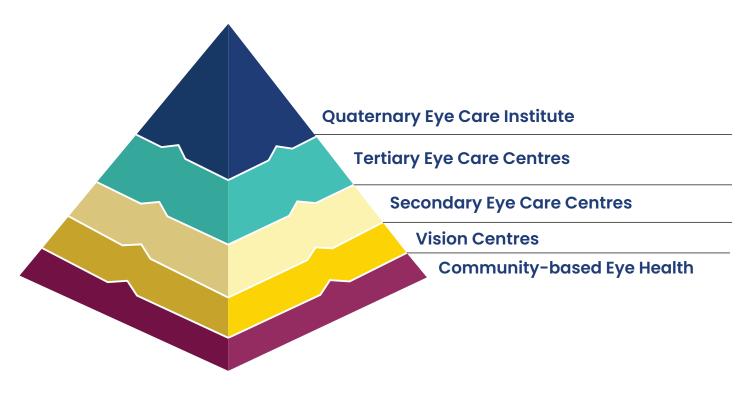
To create excellent and equitable eye care systems that reach all those in need.

Our Mission

The mission of L V Prasad Eye Institute is to be a centre of excellence in eye care services, basic and clinical research into eye diseases and vision-threatening conditions, training, product development, and rehabilitation for those with incurable visual disability, with a focus on extending equitable and efficient eye care to underserved populations in the developing world.



LVPEI Pyramid



Quaternary Eye Care Institute
Serves 50 Million+ Population

Tertiary Eye Care Centres
Serves 5 Million+ Population

Secondary Eye Care Centres (4 Urban City Centres)
Serves 500,000- 1 Million Population

277 Vision Centres (120 Technologically Advanced)
Centre-based primary eye care
Serves 500,000 Population

Community-based Eye Health Serves 5,000 Population

Eye Care Network 310 Centres Across Four Indian States **ODISHA** (as of March 2025) BHUBANESWAR Additionally, LVPEI manages the Liberia Eye Center in Monrovia (established in partnership with Government of Liberia). PALONCHA , VISAKHAPATNAM TELANGANA IYDERABAD ANDHRA ? **PRADESH** KADAPA KARNATAKA Quaternary Eye Care Institute **Tertiary Eye Care Centres** Secondary Eye Care Centres Urban City Centres Technologically Advanced Vision Centres Vision Centres

Highlights

'Top 10 Best NGOs of 2024'



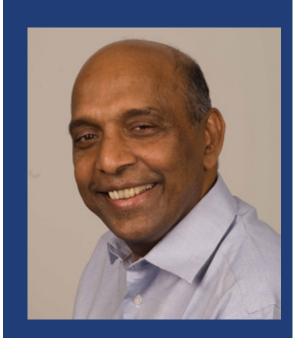
The L V Prasad Eye Institute was recognized as one of the 'Top 10 Best NGOs of the Year 2024' at the Global CSR & ESG Awards. The Global CSR & ESG Awards recognize and felicitate organizations and individuals involved in acts of humanity, social welfare and impact that bring about positive change in society.

One of the Best Eye Hospitals in India

THE WEEK Hansa Research
Survey of the best hospitals in
India named LVPEI's Kallam Anji
Reddy Campus in Hyderabad
second in India, and the first
in the south zone. Four of our
tertiary centres feature in the
national ranks.

ICO Jules François Golden Medal 2024

Dr Gullapalli N Rao has been honoured with the prestigious ICO Jules François Golden Medal for 2024 by the International Council of Ophthalmology (ICO). Established in 1986, this award is presented every four years to an ophthalmologist for outstanding contributions of the highest scientific quality. Dr Rao received this global recognition during the Opening Ceremony of the World Ophthalmology Congress 2024 on August 16, 2024, in Vancouver, Canada. He is the first Indian and the 11th worldwide recipient of this award.



SCImago Institutions Ranking 2024

LVPEI features again among the top ten global eye research institutions in the SCImago Institutions Rankings. Ranked sixth globally (2 spots up from 2023), third in Asia, and first in India in the ophthalmology (health) category for its research output, LVPEI remains the only Indian eye research institution among the top ten global institutions for ophthalmology research





With over 50K Corneal Transplantations, LVPEI leads the World

The Shantilal Shanghvi Cornea Institute (SSCI) at LVPEI has achieved the distinction of performing the highest number of corneal transplants ever by any institution in the world over 50,000—since its inception in 1987. This monumental achievement was made possible by our doctors, extended team, and generous supporters trusting us with their treasure, time, and talent. Above all. thousands of cornea donor families, in their hour of grief, selflessly gave the gift of sight to patients in need. This achievement is significant as corneal opacities are major cause of blindness in India among those who are 50 years and older—and the primary cause in those younger.

Highlights

Stanford/Elsevier's Top 2% World Scientists Ranking 2024

Seventeen researchers from LVPEI are featured in Stanford/Elsevier's Top 2% World Scientists Ranking 2024-four more than last year.

New Tertiary Campus

The Hon'ble former Chief Minister of Andhra Pradesh, Shri Y S Jagan Mohan Reddy, inaugurated the Dr Y S Rajasekhara Reddy (Dr YSRR) Campus at Kadapa, YSR District. Also present on the occasion was Ms Vidadala Rajini, the then Minister for Health and Family Welfare, Government of Andhra Pradesh. The event also saw Mr B K Venkatesh, Head of Operations (South) and Program Head, Environment and Ecology, and Ms Sirisha, Project Manager – Andhra Pradesh, both from ICICI Foundation, as well as Mr Sabitra Kundu, Head of Program Development and Mr D Jaikumar, Senior Manager -Program Development from Mission for Vision, India, all supporters of this new tertiary facility.



Jones/Smolin Lecture Award

Dr Savitri Sharma, Director Emeritus of Laboratory Services at the LVPEI Network, has been honoured with the prestigious Jones/ Smolin Lecture Award by the American Academy of Ophthalmology (AAO) and the Ocular Microbiology and Immunology Group (OMIG), USA.



Institute for Vision Rehabilitation Wins First-ever Governor's Excellence Award

The Institute of Vision
Rehabilitation (IVR) of the L V
Prasad Eye Institute (LVPEI)
received the Governor's Award for
Excellence in Divyangjan Welfare.
This esteemed recognition
highlights the institute's
exceptional contributions to
empowering, including, and
supporting persons with
disabilities (Divyangjan). LVPEI is
one of the very few eye institutes
in the world that has integrated
vision rehabilitation into its
functional arms from inception.



"LVPEI is one of the few eye institutes in the world that has integrated vision rehabilitation into its functional arms from inception."

The Right to Sight-INDIA National Conference

LVPEI played a prominent role at the 18th edition of VISION 2020: The Right to Sight-INDIA national conference, titled 'Vision 2020 to 2030: Insights and Path Ahead,' hosted by the Christian Medical College and Hospital, Ludhiana, Punjab, from July 5-7, 2024.

Senior leadership from LVPEI and faculty delivered special addresses and keynotes highlighting the future vision and strategic plan to combat avoidable blindness, along with participation in various sessions.

Emerging young heroes from LVPEI were awarded for their contributions to furthering the cause of community eye health:

- Mr Shekhar Konegari (Vision Technician, Bhosle Gopal Rao Patil Eye Centre), received the Young Achiever Award.
- Mr Sandeep Dayal, Administrator at Bhosle Gopal Rao Patil Eye Centre, received the Eye Health Champion Award.

Highlights

'SightConnect' app

This ground-breaking mobile application enables individuals to self-assess their eyes, providing early alerts for potential eye conditions and facilitating prompt intervention. The interface supports various Indian languages, ensuring accessibility for all. The app was produced in collaboration with Infosys Ltd and Infosys Foundation.



Whitathon 2024

Whitathon is L V Prasad Eye Institute's premier initiative to raise awareness and funds for the early diagnosis and treatment of children battling Retinoblastoma, a curable eye cancer if detected early. This year, LVPEI organized the 6th edition of Whitathon in Hyderabad and 3rd edition in Bhubaneswar, Visakhapatnam and Vijayawada.



'LVPEI@Home'

LVPEI's @home eye care service aims to deliver comprehensive eye care at patients' homes. This initiative is supported by the Standard Chartered Bank under their 'Seeing is Believing' programme to enhance access to quality eye healthcare, especially for the elderly and those with mobility challenges.

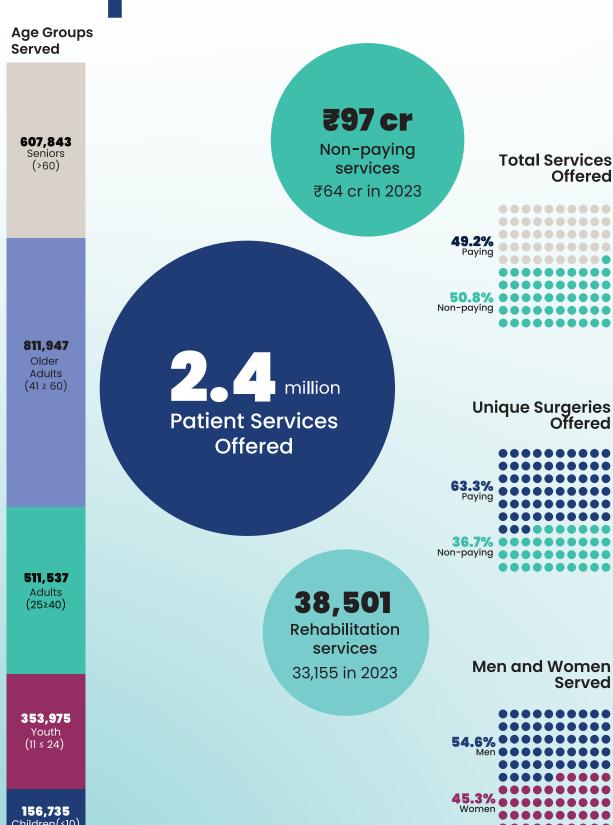


Myopia Awareness Week

Myopia Awareness Week, celebrated from May 13 to 19, debunked the common myths about Myopia. The week-long event included various activities such as lectures covering basic to advanced topics in Myopia, a Myopia Quiz, and a detailed session on managing Myopia cases using the IMPACT Myopia guidelines. Additionally, a social media campaign was launched to raise awareness about common myths surrounding Myopia.



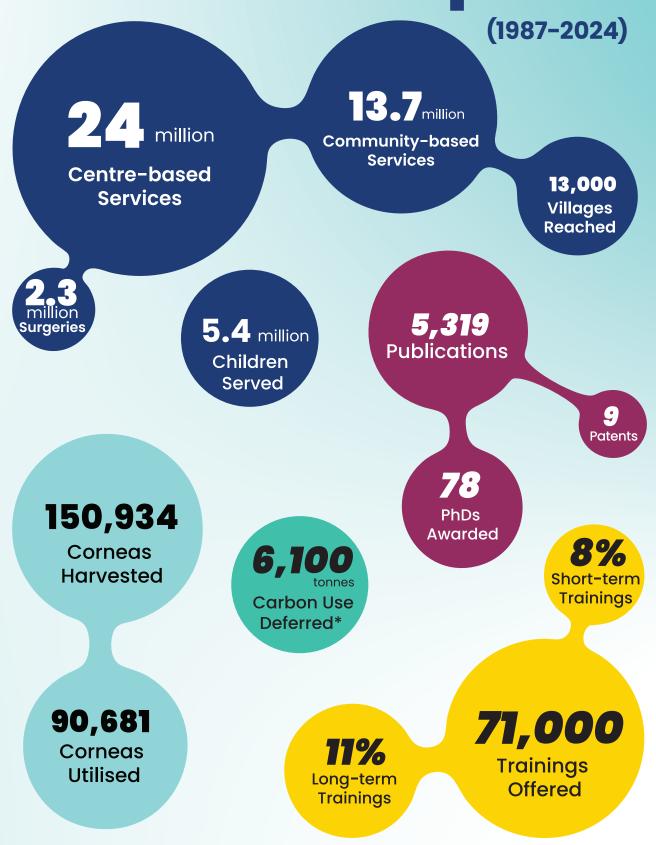
Impact 2024



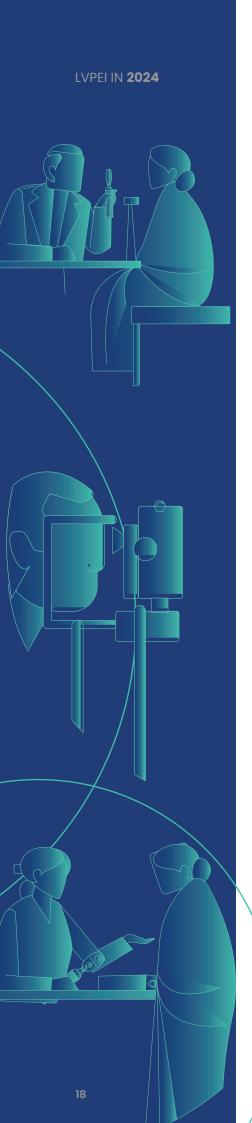
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Children(≤10)

Lifetime Impact



^{*}Equivalent to the per-capita carbon-based electricity consumption of 24,000 Indian households



Patient Care

The L V Prasad Eye Institute is committed to advancing eye health and its benefits to the many millions who walk through our doors. LVPEI, and its pyramidal network of centres, provide eye care services ranging from vision screenings, comprehensive eye exams, surgeries, and even vision rehabilitation for those with irrecoverable sight loss. These services are offered to everyone who needs eye care, irrespective of their ability to pay. Indeed, this has been the LVPEI promise from our inception—so that all may see.

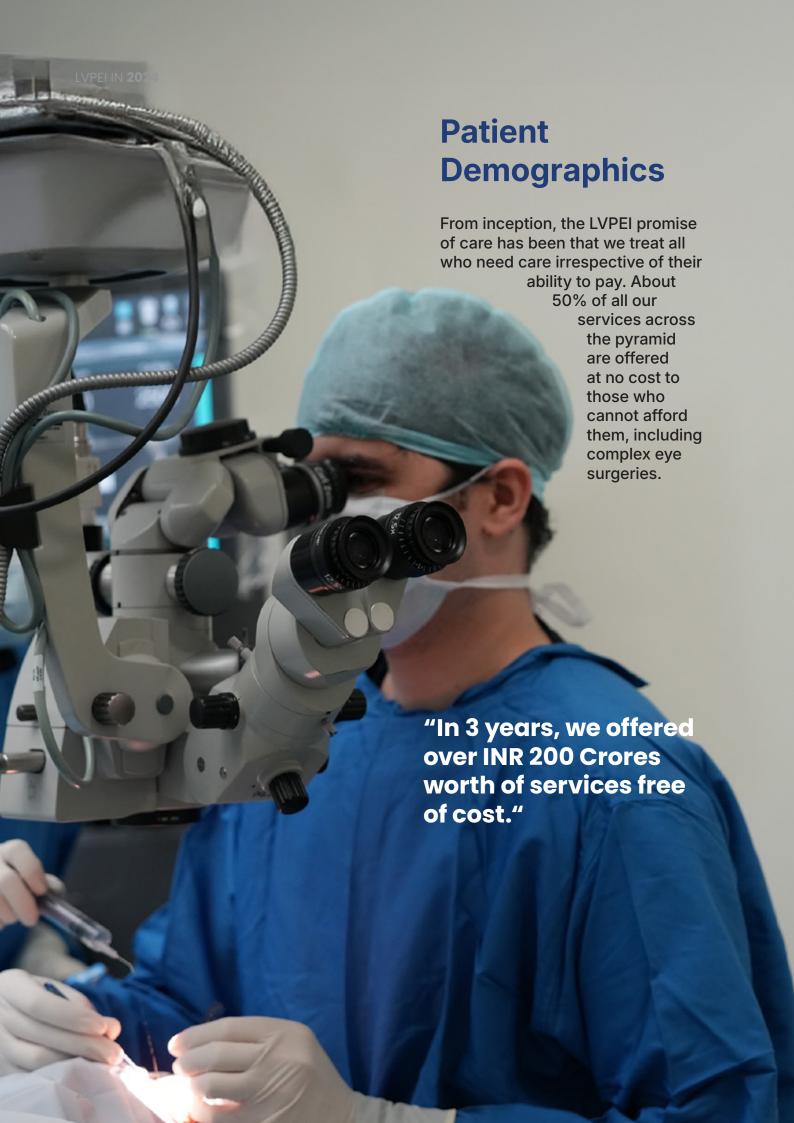
The LVPEI Eyecare Pyramid is the model of eye care delivery pioneered by LVPEI. In 2024, the pyramid had 308 centres across the three southern Indian states of Andhra Pradesh, Odisha, and Telangana, with a 'village vision complex' in Karnataka. The 'village vision complex' comprises of vision guardians—community outreach volunteers or staff—who screen at the village level, a network of vision centres (primary eye care centres), and a secondary care centre they connect to. You can read more about the impact of our village vision complex in the next chapter.

Together, the LVPEI pyramid offers over 2.2 million eye care services, on average, every year. In 2024, we offered the highest so far: over 2.44 million eye care services across the network, which is a healthy 7% increase over the previous year. The Centre of Excellence in Hyderabad, the flagship hospital, alone offered well over half-a-million of these services. Together with the four tertiary care centres in Bhubaneshwar (Odisha), Kadapa, Visakhapatnam, and Vijayawada (Andhra Pradesh), the upper two layers of the pyramid have accounted for just about half of the total services offered (and a lion's share of the surgical services offered—more below). In 2024, these services were offered to over 1.4 million patients—a 9% increase over the number of patients we treated or examined in 2023. Many eye care patients, especially those seeking care for complex conditions

come back multiple times for an eye exam or surgery. So, the 1.4 million patients serviced is less than the total services offered (2.4 million). Similarly, we saw over 480,000 new patients in 2024 (this number may change as we better reconcile our old data)—over 33% of our total patients.

"In 2024, we treated over 1.4 million patients—a 9% increase from 2023."





In 2024, LVPEI offered INR 97 Crores worth of services at no cost to our patients—nearly 80% of which covered surgeries. In fact, more than one-third of our nonpaying services were provided for patients with retinal issues, some with complex treatments. We had offered INR 64 Crores and INR 60 Crores worth of services free to our patients in 2023 and 2022 respectively. So, in three years, we offered more than INR 200 Crores worth of services at no cost to patients who could not afford them. We believe this figure stands for a substantial commitment to our values and the LVPEI promise.

Across the pyramid more men (55%) than women (45%) accessed our services (except our secondary centres, where more women visit them—see page 35). Global vision loss data shows that more women and girls have vision impairment compared to men, both due to relative longevity and social barriers to access. LVPEI believes taking eye care closer to where the need is greatest, is crucial to addressing such issues of access. Blindness and vision impairment have a strong association with age—those who are older tend to develop vision loss (in fact, every one of us will face an eye condition at least once in our lifetimes). Our patient care data also reflects this pattern: nearly 60% of our patients are 40 years old, and older. Children (10-years-old and younger) and youth represent about 20% of patient volume; however, they have a lifetime of experiences ahead of them, and so, any intervention for this age group has the promise of improving the quality of their lives over the majority of their lifetimes.

Surgeries

LVPEI is one of the largest volume eye care hospital networks in the world to offer all kinds of eye surgeries to our patients. We perform routine surgeries, complex procedures and even clinical trials that are still a step away from regular practice. In addition, LVPEI's unique promise is to offer eye care surgeries to people irrespective of their ability to pay them, with a focus on excellent outcomes.

In 2024, we performed over 193,000 surgeries across the surgical facilities in the LVPEI network, spread over secondary, tertiary and quaternary centres. These represent the number of 'eyes' operated and are a marginal increase year-onvear. The total number of patients operated is over 187,000 people in 2024. Of these patients, over 39% represented patients who were offered surgery at no cost to them. Women accounted for 46% of all surgeries offered across the LVPEI network in 2024. Older Adults and seniors (those who are older than 40 years old) account for 78% of all surgical patients in the year. This reflects the prevalence of sight loss and vision impairment in the population—it is mostly found in those who are older.

In 2024, LVPEI crossed an extraordinary milestone: we had crossed over 50,000 corneal transplants since inception. This milestone marks LVPEI as one of the largest volume corneal transplant centres in the world. Similarly, we have been at the cutting-edge of every ocular sub-specialty.

Vision Rehabilitation

Care for individuals with permanent vision loss has been an integral part of LVPEI. Along with outpatient visits and surgeries, LVPEI's Institute of Vision Rehabilitation (IVR) is an Institute of Excellence and a Global Resource Centre that tracks and offers rehabilitation care to such individuals. The institute's services are available across our network in 4 states (Telangana, Andhra Pradesh, Odisha and Karnataka). Besides centre-based services, IVR is also engaged in community-based rehabilitation (see next chapter) and tele-rehabilitation. The services offered range from early childhood intervention, educational support including with audio books and assistive technologies, employment support, a helpline and investments in special needs, including for skill-building and employment. Apart from children with vision loss, IVR also supports children grappling with Cortical/Cerebral Visual Impairment.

In 2024, IVR offered over 38,500 rehabilitation services to 11,259 individuals across the network (nearly 37% of these services were offered to women)—on average, each patient received about 3.4 services (3.4:1). The total services offered increase by 16% compared to the previous year. IVR's services focus on children and the young. Nearly 44% of all services offered were given to children (those under 10 years of age) and with young people (those who are 24 years old or younger), the total services offered account for up to 70%.

These numbers belie the transformational impact these services have on people with special needs. For many, especially in low- and middleincome countries, the world can be very hostile and unfriendly. These services offer them a means to come to terms with their disability and develop the skills and networks to live life to their full potential. IVR's vocational training centre in Tholkatta, Ranga Reddy district, Telangana, offers skill-training and economic opportunities that transform such individuals from 'dependents' to incomeearners and the self-employed. The open spaces and accessible infrastructure give them the freedom of independent mobility and autonomy.

"These numbers belie the transformational impact these services have on people with special needs."



Patient Care at the Centres

The Kallam Anji Reddy campus

The Centre of Excellence (CoE) at LVPEI is the oldest, and one of the busiest centres handling the most patient and surgical volumes of all individual centres of the LVPEI pyramid. The CoE operates from the Kallam Anji Reddy campus in Banjara Hills, Hyderabad. Since its establishment in 1987, this quaternary care centre has become a comprehensive eye health and referral facility, and a World Health Organization (WHO) Collaborating Centre for the Prevention of Blindness for decades now.

As the apex centre of the pyramid, the CoE handled over 569,000 patient visits in 2024—nearly 20% of all patient volume, and an average of 1,560 patient visits every day of the calendar year. Similarly, it offered over 75,000 surgeries (an average of 205 surgeries every day) to 69,735 patients in the year, accounting for nearly 40% of surgical volume. Part of these patient and surgical volumes are from the three satellite urban centres that support the CoE: the Lahoti Eve Centre, in Madhapur; the Sai Life Sciences Eye Centre in Alwal; and the Shirin, Etian and Tara Brown Eye Centre in Kismatpur; all in Hyderabad. While the lion's share of these volumes remains with the CoE, these satellite centres are helping to ease the pressure off the CoE and are helping us take eye care deep into the Hyderabad metropolis.

The Mithu Tulsi Chanrai campus

LVPEI's Mithu Tulsi Chanrai (MTC) campus in Bhubaneswar, Odisha was the first of the tertiary centres to open its doors nearly two decades ago. The MTC campus offers high-quality eye care in a region with immense need. Apart from eye care service delivery, the centre is also home to the Tribal Odisha Eye Study (TOES), a series of studies examining the state of vision and sight loss in Odisha's many tribal communities.

In 2024, the MTC campus managed over 197,000 patient visits or an average of over 540 patient visits on every day of the year. A little more than 60% of these visits were by male patients. The Bhubaneswar facility offered over 26,000 surgeries, and about 27% of them were offered at no cost to patients. For those with irreparable vision loss, the centre offered over 5,300 rehabilitation services through the year. The campus is ably supported by a city centre in the southern parts of the city.

The GMR Varalakshmi campus

The GMR Varalakshmi campus was LVPEI's second tertiary care facility that opened in Visakhapatnam, Andhra Pradesh just days after the centre in Bhubaneswar was inaugurated. The GMRV campus caters to the eye care needs of a large and largely under-served population in the regions of north Andhra and the tribal 'agency' areas of southern Odisha and northern AP.

The GMRV campus handled over 151,000 patient visits in 2024 (just over 400 patient visits, on average, every day of the year), nearly 45% of which were offered to female patients. The centre offered 5,696 vision rehabilitation services to clients with irreparable vision loss in the year. A part of the patient visits includes surgeries, and the centre offered over 17,000 surgeries to patients in the year. For those with irreversible vision loss, the campus offered over 7,000 rehabilitation services in 2024.

The Kode Venkatadri Chowdary campus

Vijayawada in Andhra Pradesh is home to LVPEI's third tertiary care facility, the Kode Venkatadri Chowdary (KVC) campus. Close to the state capital, the campus also meets the eye care needs of the people living in the delta regions of the state.

In 2024, this tertiary facility offered over 145,000 patient consultations, nearly 30% at no cost to the recipients. Similarly, over 45% of

all consultations were offered to women. The centre also offered over 16,000 surgeries, nearly 40% free-of-cost to those who could not afford to pay for them. In all, over 7,000 vision rehabilitation services were also offered at this centre.

The Y S Rajasekhara Reddy campus

This fledgling campus opened its doors in 2024 in Kadapa, serving the large hinterlands of Rayalaseema. Our youngest campus opened its outpatient facilities on 1 February, and a few months later, its surgical facilities. Spread over 66,600 square feet, this centre has 40 examination rooms and four modern operating rooms. The campus is designed to be energy-efficient, sustainable, and green and has been developed in adherence to Indian Green Building Council (IGBC) regulations.

In its first year, the centre saw just over 10,000 outpatient visits, and nearly 45% were free-of-cost to patients who could not afford to pay. In about six months of operations, the centre offered 490 surgeries—nearly 70% free-of-cost.



Teleconsultations and HomeCare

Telemedicine has emerged as a viable alternative to in-person consultations because it saves patients' time and expenses, which can be considerable if they are located in remote areas or they cannot afford to travel. LVPEL has made deep investments in teleophthalmology to collapse the distances that separate patients from the care they need. With a command centre approach, the teleconsultation infrastructure has also enabled access from across our rural network to ophthalmologists who can remotely offer their expertise. So, while most patients are from across the rural network, the command centres with a team of ophthalmologists, operate from the more complex care facilities in the pyramid—the tertiary care centre in Bhubaneswar and the centre of excellence in Hyderabad.

In 2024, the LVPEI teleconsultation network offered over 92,000 teleconsults to just over 43,000 patients across the pyramid. A majority of these services were to paying patients who still ended up saving money and time. Most of the uptake for these services is from older adults and seniors, some of whom may have had trouble visiting a centre for care.

These numbers include our growing service of LVPEI@Home, our flagship initiative to take eye care to the homes of people who cannot visit us. Expert ophthalmic examinations by trained technicians are bolstered

by a teleconsult (voice or video call) with an ophthalmologist. The service prioritises senior citizens or people with disabilities or have their mobility impaired.

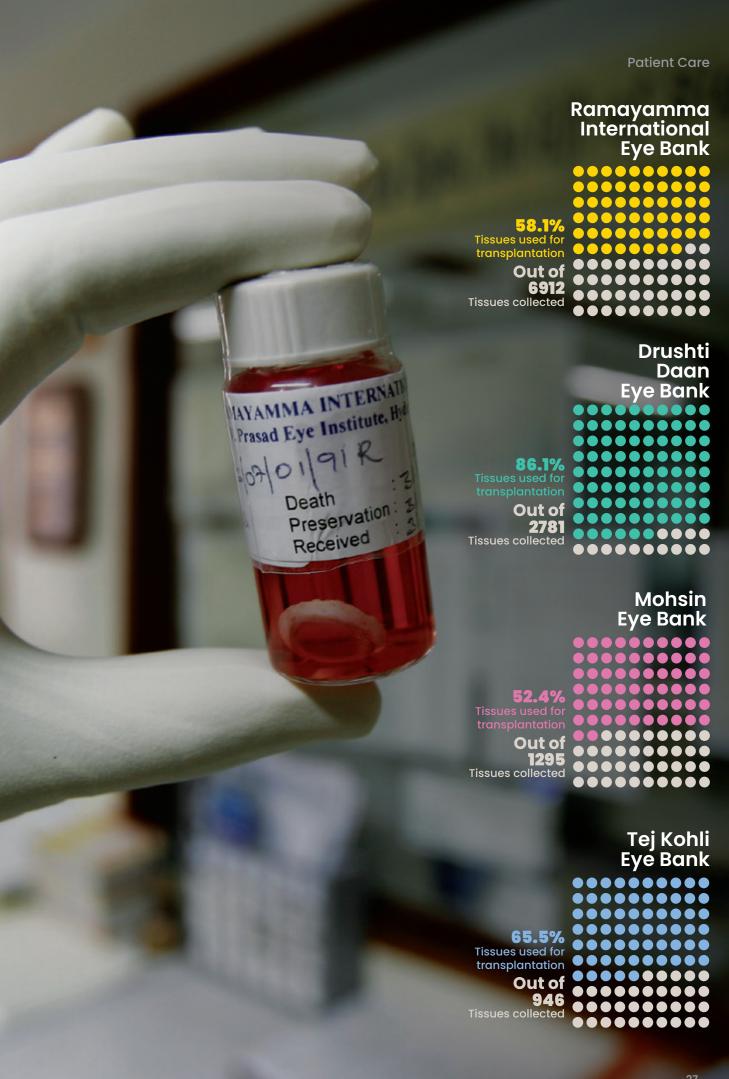
Together, these numbers paint a picture of an urban care network that has deep investments in technology and deeper roots into the hinterlands of the country.

The promise of the large-volume network LVPEI has built has always been to enable care for those who cannot reach us for care. LVPEI's investments in the pyramid make this ambition possible.

Eyebanking

In 2024, one of LVPEI's signal achievements was crossing the milestone of 50,000 corneal transplants. This was only possible because LVPEI runs one of the most successful Hospital Cornea Retrieval Programs (HCRP) in the region. The LVPEI network includes 4 eye banks that work together and have retrieved over 140,000 corneas since inception. Our flagship eye bank, the Ramayamma International Eye Bank, was established in 1989 and is the largest provider of corneas in India.

Together with the Drushti Daan Eye Bank in Bhubaneswar, the Mohsin Eye Bank, Visakhapatnam, and the Tej Kohli Eye Bank in Vijayawada, LVPEI's eye bank network collected 11,934 corneas, of which 7,681 tissues were used for transplants.



Highlights

Andhra Pradesh's First-ever Intra-arterial Chemotherapy

The KVC campus in Vijayawada marked another groundbreaking achievement with a successful and first-ever Plaque
Brachytherapy procedure in Andhra Pradesh. Plaque
Brachytherapy is a cutting-edge procedure to treat eye cancer.
Along IAC, these two procedures mark a feather in the cap for Dr Anasua Ganguly Kapoor, the campus head and specialist, and her multidisciplinary team.

The Saroja A Rao Centre for Uveitis

The Saroja A Rao Centre for Uveitis brings yet another opportunity to advance research and patient care services at LVPEI's Kallam Anji Campus, Hyderabad. Made possible with the generous donation received from Prof. Narsing A Rao, a renowned uveitis and ophthalmic pathology expert, the centre has been named after his wife, Dr Saroja A Rao.

First-ever Plaque Brachytherapy in Andhra Pradesh

In a groundbreaking achievement, Dr Anasua Ganguly Kapoor and her multidisciplinary team at the L V Prasad Eye Institute at Kode Venkatadri Chowdary (KVC) Campus, Vijayawada, have successfully performed the first-ever Plaque Brachytherapy procedure in Andhra Pradesh. Plaque Brachytherapy is a cutting-edge procedure to treat eye cancer.

25 Pearls from 25 Years of Indian Twin Cities' ROP Study

Dr Subhadra Jalali, the Network
Director for Quality and Newborn
Eye Health Alliance at LVPEI,
recently delivered the NEOCON
Oration at the Telangana State
National Neonatology Forum
in 2024. Her oration focused
on '25 Pearls from 25 Years of
Indian Twin Cities' ROP Study
(ITCROPS).'



The Last Stop

Ramesh, in his twenties, was struggling to see. He had laser procedures, and later surgeries too, at his local eye hospital to manage the rising pressures in his eyes for angle closure glaucoma, a sight-threatening condition. Yet, his optic nerve was showing signs of damage, and there were wheel pin-like changes in his macula, the central area in the back of the eye that helps see detail. Ramesh's glaucoma was explosive, and all conventional treatment strategies were failing. Finally, his treating doctors recommended him to go to the L V Prasad Eye Institute, the last stop, before inevitable blindness.

"Ramesh has a condition that falls in between two specialties in eye care: the glaucoma and retina clinics. Inevitably, this means such patients are misdiagnosed or the subtle signs of a rare disease are missed," notes Dr Sirisha Senthil, Head, VST Centre for Glaucoma at LVPEI. Ramesh's condition, a rare genetic disorder, presents with symptoms that look similar to conventional disease, but common interventions fail, and even exacerbate the sight loss. A genetic test detected a missense variant—a base pair in the gene is substituted by mutation, producing a different amino acid-in a gene called BEST1. The BEST1 gene produces an ancient class of membrane proteins in a layer of cells that nourish the retina. The mutation impairs the gene and blocks retinal nourishment, leading to its progressive degeneration. "Young patients also develop glaucoma,

which can lead to blindness without early detection and proper treatment," says Dr Senthil. But the treatment is unconventional: a vitreoretinal approach is necessary.

"It helps that the glaucoma and retina clinics at LVPEI's Kallam Anji Reddy campus are on the same floor," says Dr Brijesh Takkar, who specializes in vitreo-retinal diseases at LVPEI. "Patients with this rare condition present with abnormal ocular pressures, but retinal dystrophy is also present." So, what should be tackled first? Dr Takkar clarifies, "we create a canal in the eye to reverse the fluid flow from the back to the front of the eye." Unlike conventional treatments, this new channel helps control the pressure and prevent serious complications.

This unconventional treatment for patients with BEST1 mutations was developed through a partnership between retinal and glaucoma specialists at LVPEI. "In the beginning, we were unable to pin down the cause for such explosive glaucoma in these patients. It was an enterprising young doctor from the retina services, Dr.Deepika Parameswarappa, who joined up with me to identify the cause," says Dr Senthil. "Together, we ran genetic tests to confirm the mutations and then devised a set of techniques to tackle it." Drs Senthil and Takkar, along with their colleagues, are among the few people in the world who can help handle glaucoma effectively in patients with BEST1 mutations.

There are no known treatments for BEST1 mutations, so genetic testing is critical for early identification of the mutations. Such tests are





Rural Eye Health

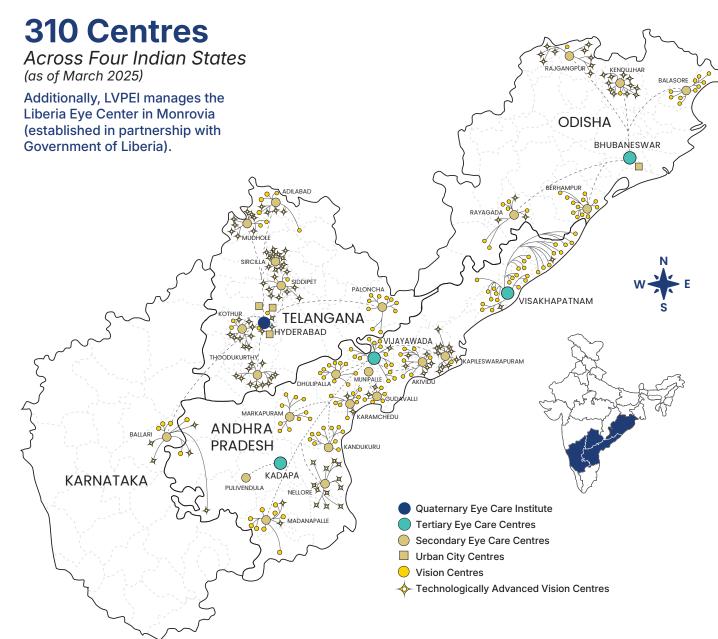
Over 38 years, the LVPEI eye health pyramid established a network of nodes—our vision centres-for public access, and today, our investments in teleconsultation and referral have super-charged these nodes. A network of around 10 vision centres connects to a secondary centre. The vision centres, primary eye care facilities, are supported by a network of vision guardians who are locals and service communities of up to 5000 people around their villages. Together, these three layers of the pyramid constitute the 'Village Vision Complex.' The village vision complex (VVC) can address close to 90% of all avoidable vision impairment under the pyramid.

The vision centres and secondary centres are permanent sites of care. Together, they constitute a vision of eye care: people in need of care will access our centres if we are close to them. Proximity reduces key obstacles that reduce access to eye care: distance, loss of income, the need for a companion, cost of travel and so on. It is gratifying, then, to see that patient volumes live up to this ambition. In 2024, over 55% of all patient volume was handled by our vision centres and secondary centres. This number is distributed over 277 vision centres and 22 secondary centres spread over four southern Indian states. In May 2024, the LVPEI pyramidal network crossed the 300-centre mark—a landmark achievement that has been built on the strength of our rural presence. These centres are built in parts of the country where there are few options for health care, and none at all for eye care.

"The village vision complex can address close to 90% of all avoidable vision impairment."

Patient Volume

[2	Vision Centres	477,281	EQ 10/
2021	Secondary Centres	409,975	53.1%
2022	Tertiary Centres	368,845	
	Centre of Excellence	414,412	
	Vision Centres	615,736	Secondary Eye Care and Vision Centres 55.1% have accounted for
	Secondary Centres	541,669	55.1% have accounted for maximum patient volume
	Tertiary Centres	445,122	
	Centre of Excellence	496,045	
2023			
	Vision Centres	669,607	FF 20/
	Secondary Centres	593,506	55.3%
	Tertiary Centres	481,125	
	Centre of Excellence	540,853	
2024	Vision Centres	762,391	FF 0%
	Secondary Centres	602,587	55.9%
	Tertiary Centres	507,433	
	Centre of Excellence	569,568	



The Vision Centre network

The vision centre is the primary node of access to the LVPEI network. It is run by a Vision Technician, an eye care professional trained for two years at LVPEI, and from the local community. The centre is a free, walk-in primary health clinic equipped to provide basic eye screening and refraction. About 10 vision centres connect up to a secondary centre. Many vision centres are now 'technology-enabled;' they are part of LVPEI's teleconsultation network. Each

such vision centre is equipped with a retinal camera (to take pictures of the back of the eye) and a portable perimeter (to assess a person's visual field). These equipment send pictures over an encrypted line to a teleconsult command centre, and allow the Vision Technician to offer the patient a remote ophthalmic consultation. In 2024, over 92,000 teleconsultations were offered by the network.

The primary function of a vision centre is to tackle the most common

form of vision loss: refractive errors. In 2024, the vision centre network distributed over 158,000 spectacles—the most common form of correction for refractive errors—to their patrons across the four states. In addition, these centres act as sentinel points for identifying deeper issues in the visual system. Patients in rural areas with complex and subtle eye conditions like glaucoma or retinal disease benefit from such a service. So, the more centres that are tech-enabled, the better.

In 2024, 17 new, tech-enabled vision centres were inaugurated across the network (1 each in Andhra Pradesh & Karnataka, 7 in Odisha, and 8 in Telangana). Of the existing vision centres, 17 were upgraded and made techenabled. These centres have benefited from support offered by the Standard Chartered Bank and other donors.

The Secondary Centre network

Secondary centres are health facilities offering primary and community eye care, including surgeries for common conditions, to a catchment population of 1 million people. Some of these centres even offer complex surgical procedures like corneal transplants in semi-rural and peri-urban settings. In 2024, the LVPEI secondary network spanned 22 centres across four states: Andhra Pradesh (9 centres), Odisha (5 centres), Karnataka (1 centre), and Telangana (7 centres).

Patient demographics

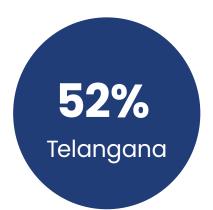
In 2024, the LVPEI vision centre network handled over 762,000 patient visits, while the secondary centres handled over 600,000 patient visits (together accounting for over 55.9% of our total patient volume of 2.4 million patient visits

in 2024). These volumes represent an 8% increase in patient volumes when compared to the previous calendar year. Similarly, over 21% of the INR 97 Crores worth of non-paying services offered in 2024 (outpatient services, investigations, and surgeries) were across the secondary centre network (100% of consultations at our vision centres are offered free-of-cost).

Women constitute nearly 55% of the global population with vision impairment (over 1 billion people), with lack of access to eye care services being a critical obstacle. In general, more men access eve care services than women—except in our secondary centres. Data from our medical records system and a paper from LVPEI's International Centre for Eye Care (ICARE) shows that more women access eye care than men: nearly 51-53% of patient visits to our secondary centres are by women. Secondary centres are conveniently located, particularly for women living in rural or suburban areas. While vision centres are even more accessible. and a subset of women with vision impairment do visit vision centres, they are not equipped to handle more complex cases. So, women with more serious eye problems seem to visit secondary centres. Our data seems to suggest that rural women are more likely to access eye care, especially if they have vision impairment, if an eye care facility is close to their homes. Another key demographic segment that benefits from LVPEI's outreach and research activity are children.

With population-wide surveys by LVPEI teams, we know that refractive errors affect over 1.16% of all schoolchildren in the Telugu states. In an urban metropolis like Hyderabad, the prevalence is twice this average, in 2024. One of the lingering long-term effects of COVID-19 may well be the worsened sight among school children, who spent more time indoors, staring at small screens, instead of being out in the sun.

Secondary centre patient-volume





5% Karnataka

Capacity Building

The Liberia Eye Center

In October 2024, the Liberia Eye Center, the heart of the Liberia Eye Health Initiative, celebrated a key milestone: we had serviced 100,000 outpatient visits (37% of services were offered at no cost) over 7 years of operations in Liberia, West Africa. This milestone also includes 8,700 surgeries (50% performed at no cost), over 40,000 community screenings, and more than 500 low vision and rehabilitation services offered. The Liberia Eye Center is a collaboration between the Ministry of Health of the Republic of Liberia, the John F. Kennedy Medical Center (JFKMC) in Monrovia, and LVPEI. Today, the Center has evolved into a state-of-the-art facility capable of treating all types of eye conditions ensuring that no patient needs to travel outside of Liberia for any of their eye care needs.

In 7 years, LVPEI has begun running an ophthalmology residency training and has trained 4 ophthalmologists at LEC. In addition, several mid-level ophthalmic personnel were trained at LVPEI as well as in Monrovia. These are deep investments into the future of high-quality ophthalmic care in West Africa.



Highlights

Bhosle Gopal Rao
Patil Eye Centre,
Mudhole, Receives
NABH Pre-Entry
Level Standard
Certification!

LVPEI's Bhosle Gopal Rao Patil Eye Centre (BGRPEC) at Mudhole in Telangana State has achieved a remarkable milestone by attaining the NABH Pre-Entry Level Standard Certification under the Small Healthcare Organization (SHCO) Accreditation Program. This 25-bed comprehensive facility is LVPEI's first secondary centre to achieve this feat. This certification is a testament to LVPEI's commitment to providing high-quality patient care, ensuring safety, and upholding the highest standards in healthcare. The journey to this achievement was no easy feat, and it wouldn't have been possible without the collaborative efforts of every staff member at BGRPEC, Mudhole. From our talented medical professionals to our diligent administrative and support staff, each has played a crucial role in making this accomplishment a reality.

310-centre Strong

With 277 vision centres, 24 secondary centres, four city centres, four tertiary centres and an apex centre of excellence, LVPEI is now a 310-centre network. This expansive presence ensures that high-quality eye care is accessible to every segment of society, especially in Telangana, Andhra Pradesh, Odisha and Karnataka, where these centres are present and to those who visit us in these centres from every corner of the globe.

"This expansive presence ensures that high-quality eye care is accessible to every segment of society."

A Rural Health Professional

Vinodha is the Kalla Doctor—'eve doctor'—of Thallada village. Thallada is deep agriculture country: Cotton, Maize, Mirchi (red Chilli) and paddy grow in abundance around the Munneru river in these rural parts of Khammam district in Telangana. The village is home to 28 rice mills processing paddy and supplying it to Wyra and Khammam towns. Tucked away from Thallada is a small tribal settlement of the Erukulas. who make and sell bamboo wickerbaskets. Vinodha Rayapati, the Vision Technician, runs LVPEI's vision centre at Thallada, one of 10 linked to the Nava Bharat Eye Centre, a secondary care facility, in Paloncha.

Vision centres offer primary eye care services. They are a free, walk-in, primary eye health clinic, equipped to provide basic eye screening and refraction. A small optical outlet is an integral part of every vision centre, and the sale of spectacles to those who can afford them sustains the centre. Vinodha's centre is the best-run centre in the district. Locals who have left for Hyderabad come to get their eyes checked during holiday trips. Be it the volume of patients, spectacles sold, or referrals to the secondary centre, the Thallada vision centre is a model of success. Many trainee vision

technicians visit the centre as the 'model' to learn from.

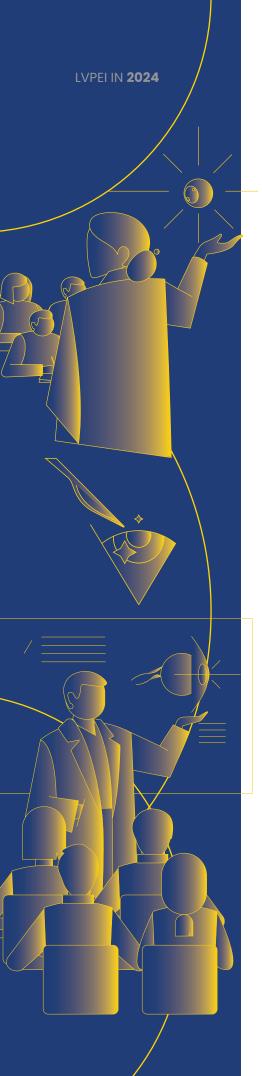
They also learn key life lessons from her: independence, self-reliance, and the confidence to understand the needs of the community they serve. Vinodha had all these qualities in her when she was growing up. Her father, who laboured on other people's farms, could not afford to keep her in school. Financial hardship meant that she was destined to work in the fields too. One day, she heard about the Vision Technician program at LVPEI from her friends, and with her heart full of hope, she applied.

Vinodha walked awestruck into the Bausch & Lomb School of Optometry: she had never seen such a facility before. "The course itself was another revelation: I had never realised before that the eye could have so many problems," she notes! She completed the Vision Technician course with flying colours, and was placed at the Thallada Vision Centre, an hour away from home. "Most of the patients here have refractive errors, though many times, people working at the rice mills visit the centre with foreign bodies in their eyes," Vinodha says. "I am delighted to say that my family is financially stable now, and I can care for and support my children's education. I also have the satisfaction of serving my community to the best of my abilities."









Education

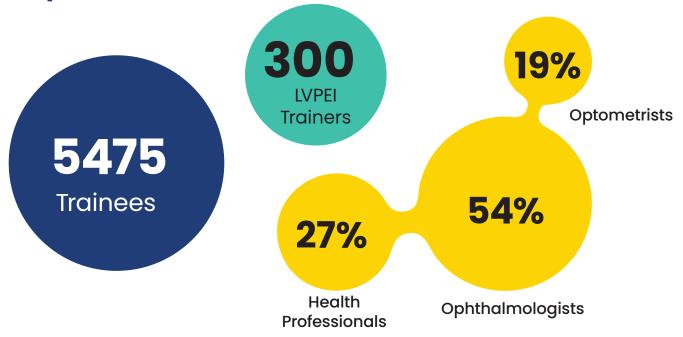
Central to the delivery of eye care are well-trained eye care personnel, and so, delivering eye education has been a key LVPEI functional arm, right from our inception. As a World Health Organization Collaborating Centre for the prevention of blindness, LVPEI trains eye care professionals from around the world. We train every cadre of eye care personnel necessary for eye care service delivery from ophthalmologists with sub-specialty training to eye care managers, and 'vision guardians', the community-based personnel screening the population.

The Standard Chartered Bank-LVPEI Education Academy is LVPEI's Institute of Excellence and global resource centre offering comprehensive eye care education across our centres. The Academy's core objective is need-based human resource development, focusing on nurturing eye care professionals through training programs emphasizing equity, inclusivity, and diversity. The Academy's success is built on the pillars of talent, technology, tenderness, and 'treasure.' In 2024, we offered a wide range of educational opportunities, including over 50 on-site training programs, 30 continuing medical education programs, and regular continuing professional development initiatives.

The courses meet the training needs of ophthalmologists, optometrists, ophthalmic nurse assistants, vision technicians, eye bank technicians and counsellors, vision rehabilitation patient care counsellors, eye care managers, community eye health professionals and others. Since LVPEI's inception, the Academy has offered over 71,000 training opportunities to all cadres of eye care professionals. In 2024, we offered over 1000 virtual programs and brought in 89 external faculty.

"We train every cadre of eye care personnel necessary to make eye care service delivery possible."

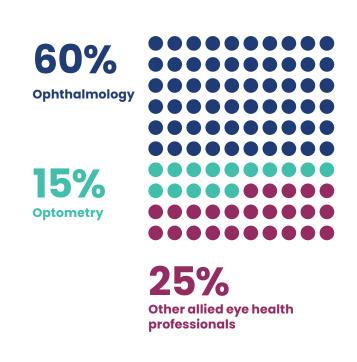
Impact



Onsite Programs

236 Ophthalmologists Other allied eye health professionals 234 Optometrists

CMEs and CPDs



Locations

The Standard Chartered-LVPEI Academy for Eye Care Education offers courses at several locations across its network, including:

Hyderabad

- The Mark Nathaniel
 Thadikonda and Vijayamma
 Nannepaga Centre for Eye
 Care Education
- The Ramachandra
 Pararajasegaram Community
 Eye Health Education Centre
- The Brien Holden Institute of Optometry and Vision Sciences

Bhubaneswar

 The Pathak Centre for Eye Care Education

Visakhapatnam

 The Pathak Centre for Eye Care Education

Vijayawada

The Education Academy

In addition, the Academy extends its reach through digital education platforms.

Ophthalmology Training

The Academy's ophthalmology training, through our long-term and short-term fellowship programs, is one of the most sought-after subspecialty training opportunities in ophthalmology. Every year, two batches of fellows are admitted to our long-term fellowship program in January and July. The fellowship is a 3-year program for ophthalmologists looking to specialize in a subspecialty of choice. After 6 months of training, they also get to spend close to a year at LVPEI's rural secondary centre network—an experience at running a secondary care facility and offering care to some of the most under-served populations in the country. In 2024, we had two batches of ophthalmologists joining us:46 fellows in January and 32 fellows in July. A dedicated faculty of 65 clinicians and executives from induction and run the fellowship.

LVPEI also offers a global ophthalmology fellowship, in collaboration with the London School of Hygiene and Tropical Medicine and supported by The Fred Hollows Foundation. This fellowship brings ophthalmologists from sub-Saharan African countries for full-fledged training at LVPEI. In 2024, Dr Brenda Walaba from Kenya, Dr Beatrice Monday Bako and Dr Gladys Atto from Uganda joined the 12-month global fellowship at the Pathak Centre for Eye Care Education, LVPEI's Grandhi Mallikarjuna Rao Varalakshmi (GMRV) campus in Visakhapatnam.

In addition, Dr Vickie Fayiah Sam from the LVPEI - Liberia Eye Center at the JFK Medical Center in Monrovia, Liberia also received a 15-month vitreo-retinal fellowship at the GMRV campus in 2024. Dr Vickie finished the fellowship to become the first vitreo-retinal surgeon in Liberia, and perhaps, in West Africa. Her work will go a long way in addressing the burden of retinal disease in the region.

Along with the long-term fellowship, a series of workshops and short-term fellowship opportunities were also offered all through the year. The Academy follows a '5Cs' framework-Critical Thinking, Curiosity, Collaboration, Communication and Creativity—to develop a well-rounded clinician at the end of the fellowship. The framework empowers trainees to develop professional competence, embrace lifelong learning, and adapt to evolving standards.

Optometry Training

The flagship four-year bachelor's in optometry program at LVPEI is provided in collaboration with GITAM University. The 2024 batch of 27 students began classes in August, while the earlier batches continue to progress towards graduation. The bachelor's program includes a mix of classroom training and exposure visits to labs and clinics in Hyderabad. The final year includes an internship at the Kallam Anji Reddy campus. This program is hosted at the Bausch and Lomb School of Optometry. In July 2024, the clinical internship in optometry began with 106 interns (students with a bachelor's

in optometry). The interns pick up much-needed patient management skills and hands-on experience from LVPEI's optometry faculty. The internship includes a mix of in-person and online training, where they are rotated through all the subspeciality clinics at LVPEI.

In addition, the Academy offers a Post Graduate Diploma in Optometry and Vision Sciences with an emphasis on equipping optometrists with the skills to diagnose an ocular pathology. This is a one-year diploma, along with a two-year 'combo' at a more elaborate pace. Both the diplomas have 21 students this year.

The Institute of Vision
Rehabilitation (IVR) is one of the sub-specialties where these students get to learn about the complexity of practice, along with the trainee optometrists and others.

"The LVPEI
Education
Academy is a
global resource
centre offering
comprehensive
eye care
education across
our centres."

Allied Health personnel

Allied health personnel are critical for the development and delivery of eye care across various settings. LVPEI has nurtured and developed a new cadre called 'Vision Technicians,' who are trained to offer primary eye care in remote rural and tribal regions. We have trained over 800 vision technicians over the years, and the LVPEI pyramid is home to about 200 technicians every year. The course offered is accredited with the International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO), Canada, and is offered at no cost to the trainee technician. In 2024, 67 Vision Technician

trainees joined the program across the network.

The Academy also trains Ophthalmic Nursing Assistants across the various campuses in Hyderabad, Bhubaneswar, Visakhapatnam, and Vijayawada.

Other courses

As part of the Ramachandra Pararajasegaram Community Eye Health Education Centre, several continuing professional development (CPD) programs, including in eye health management were offered. In 2024, we also took in 15 students as part of the Diploma in Community Eye Health (DCEH) course, offered in collaboration with the University of Hyderabad.



Highlights

Student hostel facility by RHI Magnesita India Limited

LVPEI's GMR Varalakshmi
Campus in Visakhapatnam,
Andhra Pradesh, recently
inaugurated a hostel facility
for its students undergoing
various training programs. Made
possible with support from RHI
Magnesita India Limited as part
of their CSR initiative, this hostel
can accommodate 40 students
at any given time.

Global Ophthalmology Fellowship: A Journey of Exponential Growth

An international exposure visit to the Liberia Eye Center in Monrovia, as part of LVPEI's Global Ophthalmology Fellowship (GOF), has profoundly impacted our visiting fellows. In just three months, they have gained invaluable experience that has expanded their perspectives on life and careers. Their time in Liberia has been truly transformative.

First-ever Residents' Preceptorship Program The Standard Chartered - LVPEI Academy for Eye Care Education launched its first-ever Residents' Preceptorship Program for postgraduate students at LVPEI's GMR Varalakshmi Campus, Visakhapatnam, and Kode Venkatadri Chowdary Campus, Vijayawada. Key concepts like Bloom's taxonomy and learner-centred teaching were introduced to enhance educational strategies. Participants gained practical, bedside experience focusing on diabetic retinopathy with demonstrations of imaging techniques such as FFA, OCT, and B-scan, alongside treatment modalities like retina lasers.



Research

The Prof Brien Holden Eye Research Centre brings together all of LVPEI's research interests in the service of improving patient outcomes. Our research focus aims to find new methods to treat eye disease, to better understand why the disease occurs and its progression. Our approach has two underlying goals: relevance and rigour. Our research interests cover the gamut of basic, translational, clinical, and applied research in eye care. Our priorities cover cellular and molecular genetics, stem cells, visual performance and visual optics, biochemistry, pathology, microbiology, pharmacology, public health, technology and engineering.

LVPEI is able to sustain our unique approach to research thanks to a strong emphasis on a clinician-scientist model, where all clinicians are encouraged to dedicate about a third of their time to research and related priorities. In 2024, LVPEI's clinicians and scientists published 438 papers, taking our 'lifetime' publication volume to over 5,300 papers. Many of these papers have been published in top-quality journals, establishing LVPEI as an institute of record for ocular research in the world. We are ranked sixth globally in the SCImago institutional rankings for 2024. We are ranked third in Asia, and first in India in the ophthalmology (health) category for our research output. LVPEI remains the only Indian eye research institution among the top ten global institutions for ophthalmology research. Similarly, in 2024, 17 researchers from LVPEI were featured in the Stanford/Elsevier's Top 2% World Scientists Ranking for ophthalmology and vision sciences. Our research has also translated into patents: as of 2024, we have 9 granted patents, while another 8 patents are under consideration.

Support and Infrastructure

A key reason for the success of our clinician-scientists is the ample support infrastructure and diverse expertise available at LVPEI. These services include microbiology, pathology, genomics, and proteomics, along with the capacity for grant management, finance and administration. Unique to the LVPEI Ecosystem are two full-fledged facilities:

- The CORE GMP facility
- · The Clinical trials office



The GMP Facility

LVPEI's Good Manufacturing Practices (GMP) facility transforms stem cell and cell-based products that tackle vision loss from the laboratory concepts to treatments. Established in 2017, the CORE GMP facility is a world-class, state-of-the-art manufacturing facility that meets stringent good manufacturing practice guidelines.

The current products under development include:

Product	Current Status
Ex-vivo Cultured Allogenic Limbal Stromal Stem Cells	Phase I Clinical Trial completed Subjects follow up is ongoing
Ex-vivo Cultured Allogenic Limbal Stromal Stem Cells released from Alginate encapsulation	Phase I Clinical Trial completed Subjects follow up is ongoing
Ex-vivo cultivated Allogenic Corneal Endothelial cells manufactured	Product did not meet QC criteria hence terminated
Eyecyte RPE™ - human induced pluripotent stem cells (hiPSCs) derived retinal pigment epithelial cells	Phase I Clinical Trial is ongoing
Human Induced pluripotent stem cells product derived retinal pigmentation epithelial cells (hi-PSC RPE)	Manufacturing shall be started for testing, analysis and preclinical study
CorMx (Decellularized human Corneal Extracellular Matrix Hydrogel) CorCelMx consists of two Components i.e., Component A (Ex-vivo Cultured Allogenic Limbal Stromal Stem Cells) and Component B (Decellularized Corneal Extracellular Matrix Hydrogel)	Testing, analysis & Preclinical study is ongoing

The Clinical Trials Office

Clinical trials are critical for advancing medical knowledge and improving patient outcomes; they are the bestknown approach to evaluate the safety and efficacy of new therapies, procedures, and medicine. LVPEI's clinical trials centre has renowned clinical investigators with active research interests in ophthalmology and vision sciences. We are a key site for several clinical trials with industry partners, in compliance with ICH GCP, EMA, and US FDA standards and guidelines. Our centre adheres to the highest standards of research practice and support services like IP storage. We are one of the best Indian Eye Research Institutes, accredited by NABH, and our clinical trials are registered under Clinical Trial Registry of India and Clinicaltrials.gov.

The institute's trials facilities are distributed across the centre of excellence in Hyderabad (CoE) and the three tertiary care facilities at Bhubaneswar, Visakhapatnam, and Vijayawada. The CoE in Hyderabad is also home to the LVPEI Image Laboratory and Analysis Centre (LILAC). LILAC has certified graders who provide high quality evaluation and interpretation of medical imaging for research.

Grants Management

Over the past couple of years, research management functions at LVPEI have been transformed with in-house software tools. Three key areas of our functioning: grant management, the Institutional Review Board (IRB), and management of scientific equipment are all now digitized, or are in the process of digitization. Together, they add a great degree of process transparency and control, allowing for timely execution of key aspects of the research process.

These tools include 'GraCS,' LVPEI's in-house grant management portal. It is integrated into LVPEI's finance systems, and all grant expenses are mapped on to the grant management portal in real time. GraCS is all on the cloud and is real-time, enabling remote access to information in a secure manner. It also provides consolidated data for analysis and reporting. GraCS has eliminated most manual procedures along the entire life-cycle of the grant process, from application to the closing



678

Enrolled
Participants



stage and has extended features including a database of grant calls, auto generation of various financial reports for submission to funding agencies and pictographic representation of the grant timelines and fund utilisation for each grant, to name a few.

Launched in early 2024, the institutional review board (IRB) has a fully digital workflow. The tool facilitates the IRB review process: from submission of applications, their distribution among committee members, the review process, and even sharing their comments back to the principal investigators (PIs). The IRB meetings and status updates like approvals, decline, etc. all happen through the portal.

Together, these tools developed in-house connect all day-to-day processes and workflows, ensuring greater transparency, minimizing inefficiencies and risks associated with manual processes. These tools are the pipes that enable LVPEI's research agenda.

Key research areas

LVPEI has a set of key priority areas for research. Teams led by experts are exploring a variety of themes and ideas throughout these priority areas.

"We focus on health systems research and on the eye care needs of vulnerable populations."

Community Eye Health, Quality of Life, Vision Rehabilitation

The Allen Foster Community Eye Health Research Centre drives all of LVPEI's public health research initiatives. Part of the Gullapalli Pratibha Rao International Centre for the Advancement of Rural Eye Care (GPR-ICARE), the centre focuses on health systems research and research on the eye care needs of vulnerable populations (children, the elderly, tribal communities, and occupational eye health). Led by Dr Rohit Khanna, the centre has received over 26 major grants and has a lifetime publication count of over 380 papers.

Key ongoing projects all through 2024 have been the Cognitive Level Enhancement through Vision Exams and Refraction (CLEVER) randomized control trial (RCT) to assess the impact of spectacles in reducing cognitive decline among the elderly. The team is also part of a multicountry cataract impact study among other studies.

Rani, P.K., Khanna, R.C., Ravindrane, R. et al. Teleophthalmology at a primary and tertiary eye care network from India: environmental and economic impact. Eye 38, 2203– 2208 (2024). https://doi. org/10.1038/s41433-024-02934-4

Dacryology

The Govindram Seksaria Institute of Dacryology at LVPEI is unique for its focus on Dacryology--the clinical, anatomical, and histological study of the lacrimal glands. Headed by one of the foremost global experts in the field, Prof Dr Mohammad Javed Ali, the institute has published over 70 publications in 2024 alone. In late 2023, Dr Ali was awarded the prestigious 'JC Bose Fellowship' for Medicine by the Government of India.

Singh, S., Bothra, N., & Ali, M. J. (2023). Lacrimal gland targeted therapies for refractory epiphora: quantitative changes in the gland activity. Orbit, 43(1), 74–79. https://doi.org/10.1080/01 676830.2023.2204493

"Dr Javed Ali was awarded the prestigious 'JC Bose Fellowship' for Medicine."

Ocular Oncology

The Operation Eyesight Universal Institute for Eye Cancer, under the leadership of Dr Swathi Kaliki, is the institute of excellence working to ensure comprehensive, patient-centred care. The Institute also aims to advance the field of ocular oncology by pioneering innovative research. Since its

inception, the team has published over 370 papers and has made novel contributions to the field, including by describing nodulo-ulcerative ocular surface squamous neoplasia, the use of stem cells post-surgery in patients with ocular surface cancers, metabolomics in retinoblastoma, liquid biopsies and more.

In 2024, the research priorities have included using AI models to detect retinoblastoma from imaging scans, and the development of a patient-specific pluripotent stem cell line with a heterozygous RB1 gene mutation (this gene's inactivation is known to cause this pediatric intraocular cancer). This line can be used to study various aspects of treatment and disease progression in the lab.

Kaliki S, Vempuluru VS,
Mohamed A, Al-Jadiry MF,
Bowman R, Chawla B, Hamid
SA, Ji X, Kapelushnik N, Kebudi
R, Sthapit PR, Rojanaporn D,
Sitorus RS, Yousef YA, Fabian
ID; Global Retinoblastoma
Study Group. Retinoblastoma in
Asia: Clinical Presentation and
Treatment Outcomes in 2112
Patients from 33 Countries.
Ophthalmology. 2023 Oct
13:S0161-6420(23)00757-1

"Since its inception, the team has published over 370 papers and has made novel contributions to Ocular Oncology."

Biomaterial and 3D printing

The Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory is home to stem cell therapies and research at LVPEI. The laboratory is headed by Dr Savan Basu, who is the Prof. D Balasubramanian Chair of Eve Research at LVPEI. Areas of research interest under Dr Basu include dry eye disease and ocular surface disorders, stem cell therapies and biomaterials. In 2024, the teams at the laboratory have included bioprinting synthetic corneal material including human cornea-derived hydrogels, scarless wound-healing of corneas, developing a 'disease-on-chip' model for drug testing, and novel drug delivery mechanisms.

In May 2024, the Indian government granted a patent for a novel cell therapy that layers together stem cells derived from the eye's surface and two clotting factors. This therapy has a lot of potential to be used to repopulate the corneal surface with healthy cells. Drs Sayan Basu and Vivek Singh are the inventors of this novel therapy.

Ghosh A, Bera AK, Singh V, Basu S, Pati F. Bioprinting of anisotropic functional corneal stroma using mechanically robust multi-material bioink based on decellularized cornea matrix. Biomater Adv. 2024 Dec;165:214007. doi: 10.1016/j. bioadv.2024.214007. Epub 2024 Aug 25. PMID: 39216318.

Inherited eye diseases, Stem Cells and Gene therapies

The Stem Cell Biology Laboratory is also working towards basic and translational research efforts addressing the problems of retinal and corneal diseases using different sources of adult and pluripotent stem cells. The teams are also working on mesenchymal stem cell applications for corneal disease. In 2024, Dr Indumathi Mariappan and her team used an engineered 'Cas9' enzyme variant to correct a mutation in the cells of a patient with a rare retinal dystrophy. This study opens exciting possibilities for developing newer therapeutics and diagnostics for inherited diseases.

Teams pursuing molecular genetics are working to characterize and identify a variety of genetic and molecular markers in the development of various diseases like glaucoma, diabetic retinopathy, and retinopathy of prematurity.

Acharya, S., Ansari, A. H., Kumar Das, P., Hirano, S., Aich, M., Rauthan, R., Mahato, S., Maddileti, S., Sarkar, S., Kumar, M., Phutela, R., Gulati, S., Rahman, A., Goel, A., Afzal, C., Paul, D., Agrawal, T., Pulimamidi, V. K., Jalali, S., Nishimasu, H., ... Chakraborty, D. (2024). PAM-flexible Engineered FnCas9 variants for robust and ultra-precise genome editing and diagnostics. Nature Communications, 15(1), 5471. https://doi.org/10.1038/s41467-024-49233-w

Ocular Pharmacology

The CNR Ocular Pharmacology Research Centre is a newly inaugurated state-of-the-art research facility equipped with an Ultra-Performance Liquid Chromatography machine and other instruments. The centre, headed by Dr Sanhita Roy, works on corneal wound healing, fortified medication, and focuses on antimicrobial peptides and small molecules to combat antimicrobial resistance. The centre focuses on various aspects of protein chemistry, biophysics, cell biology, molecular biology and immunology and also offers compounding pharmacy support for the LVPEI network.

Roy S, Bhogapurapu B, Chandra S, Biswas K, Mishra P, Ghosh A, Bhunia A. Host antimicrobial peptide S100A12 disrupts the fungal membrane by direct binding and inhibits growth and biofilm formation of Fusarium species. J Biol Chem. 2024 Mar;300(3):105701. doi: 10.1016/j. jbc.2024.105701. Epub 2024 Jan 30. PMID: 38301897; PMCID: PMC10891332.

Vision research and myopia

The Brien Holden Institute of Optometry and Vision Sciences (BHIOVS) are a set of labs representing optometry research at LVPEI. These include visual optics and psychophysics, visual performance and functions, myopia, and public health. In 2024, the labs focused on visual function distortion in keratoconus patients; visual acuity in children with cerebral visual impairment; functional markers in retinal diseases; developed a simple, affordable, and easy-to-use guiding tool for clinicians to perform retinoscopy-based peripheral refraction (SPARC) in myopic children, and elderly eye health.

In 2024, the public health and optometry lab, led by Dr Srinivas Marmamula, launched the Longitudinal Eye health, Aging and Disability Study (LEADS) funded by Wellcome Trust India Alliance. This three-year study in Telangana and Andhra Pradesh promises to give vital insights into the eye health of the elderly in this region.

Manoharan MK, Verkicharla PK. Randomised clinical trial of extended depth of focus lenses for controlling myopia progression: Outcomes from SEED LVPEI Indian Myopia Study. Br J Ophthalmol. 2024 Aug 22;108(9):1292-1298. doi: 10.1136/bjo-2023-323651. PMID: 38604622; PMCID: PMC11347265.



Scan and see the full list of publications for 2024



Innovation

The LVPEI approach to innovation brings together engineers, ophthalmologists, and optometrists binding, them together with 'design thinking' in the service of patients. The LVPEI pyramidal network of eye care with its high-quality eye care facilities bring millions of people under its ambit. This makes the LVPEI network a population-scale model, with the potential to take eye care across geographies. Coupled with LVPEI's vision of providing eye care to all, irrespective of the patients' ability to pay, technology innovation plays a key role in building access to eye care. Technology and innovation are also key to solving seemingly insurmountable issues of access or imaging.

The Innovation arm at LVPEI has been making long-term investments in a variety of technologies and ideas that have the potential to improve eye care service delivery, access, or even the cost of eye care. The three key priority areas remain Product Innovation, Product Re-engineering, and Incubation Support.

Product re-engineering

A key function of the innovation team has been to help meet import substitution needs at LVPEI. Damage to expensive or difficult-to-procure parts increases delays and puts key equipment out of use in LVPEI's busy clinics. The reengineering team has developed an array of low-cost, homegrown alternatives that fill this gap—and help save substantial costs. The team also addresses issues that are important to our values: ensuring we are Patient First and Accessible. In 2024, such alternatives saved close to INR 1.18 Crores for the network by re-engineering 53 products.

"Technology and innovation are also key to solve seemingly insurmountable issues of access or imaging."



Product Innovation

Centre for Technology Innovation (CFTI) is working with Aurolab on a 360 Degree Illuminated Catheter, with inputs from Dr Sirisha Senthil, who heads the VST Centre for Glaucoma Care at LVPEI. After finalising the design specifications, Aurolab will now proceed to manufacturing. Similarly, we are in liaison with Dasham Labs, a Venture Studio, as a licence partner to promote Pupil N, a handheld, objective pupillometer. A unit was also deployed to Manipal Institute of Higher Education for a research project.

The LVPEI-BostonSight Lens Manufacturing Lab, established in partnership with BostonSight, USA, has produced over 20,000 lenses serving a network of 138 practitioners in India, including 3 international (1 each in Hongkong, Malaysia, Bangladesh) for this. In 2024, the lab dispensed 4,438 lens to patients in need. While a majority of the lens type we dispensed was the BostonSight scleral lens, about 283 units were the PROSE lens, a specialty lens meant for disfigured corneas that restores vision and improves the quality of life of patients. Another 994 lens kits (both scleral lens and PROSE lens) were given out as replacements and trials.

The teams have worked on the clinical validation of 'ModSL', our modular slit lamp that has been supported by the AT&T Global Network Services India Pvt. Ltd. A slit lamp is a desk-bound microscope with a bright light and is essential for eye examination. This hand-mounted

device holds a smartphone to take clear pictures of the eye and share it with the telecommand centre. This device offers hand-held modular slit-lamp imaging and tonometry (to measure intraocular pressure). A device has been delivered to be a part of the Tribal Odisha Eye Health Study.

The Simplified Peripheral Ancillary Refraction Component (SPARC) is a simple guiding tool for a clinician to perform a peripheral refraction of the eye. SPARC can help check peripheral hyperopia and myopia where the eyeball's axial length is growing. These are common refractive errors, especially in children, and a simple device that can help confirm their diagnosis. SPARC was launched in February 2024.

Incubation Support

The BioNEST program of the Biotechnology Industry Research Assistance Council (BIRAC), Government of India, includes the LVPEI start-up incubator, which serves as the premier hospitalbased incubator for potential eye care technologies. The BioNest incubator worked with 7 start-ups in 2024, including a handful that came through as a collaboration with the All India Ophthalmological Society (AIOS). Together with AIOS, we had hosted an 'Incubator Start-up challenge' in March 2024. A number of products developed by these companies are receiving support for product ideation, prototyping, and even clinical evaluation and validation when ready.

Entities incubated in 2024

Alien Innovations

The team is working to build a wearable spectacle device for people with visual impairment that can read aloud, help navigate around obstacles, recognize people and objects in the surroundings—a device that can make patients independent.

ProCyto Labs

ProCyto Labs are working on a novel formulation for a preservative-free barrier gel for ocular allergies. The allergen blocker gel will help in the management and prevention of chronic eye allergies.

Core Idea Innovations

A spirited entrepreneur and her team building a cloud-based, Al-powered remote vision screening tool that is best suited for India's many millions who miss an eye exam.

Kanohi Eye

BYNOCS software helps amblyopes improve visual acuity and binocular function using video games in clinic and home environments. It works on the principle of providing high-contrast images to the amblyopic eye and at variable contrast to normal eye.

Artelus

Artelus has the ambition to develop the world's most portable and economical Optical Coherence Tomography (OCT) device that provides images as good as devices that are ten times as expensive.

NeuraSim

NeuraSim is putting together BeeVeeTM a CE-certified, immersive virtual reality (VR) therapy that offers treatment modalities for Amblyopia (lazy eye), squint, and other eye movement disorders.

Medev Plus

Medev Plus have launched a portable OCT device that enables vision screening at a patient's home. The MedEv Plus – IXanner® 7vn is a portable OCT scanner designed for comprehensive eye screening, covering both anterior and posterior segments.

Industrial designers from CFTI have worked with this team to develop a supporting stand, the OmniStand, to enhance the device's mobility, stability, and ease of use. The omnistand is a low-cost, ergonomic omnidirectional system that will ensure accurate imaging in infants and children.



Pupilometer

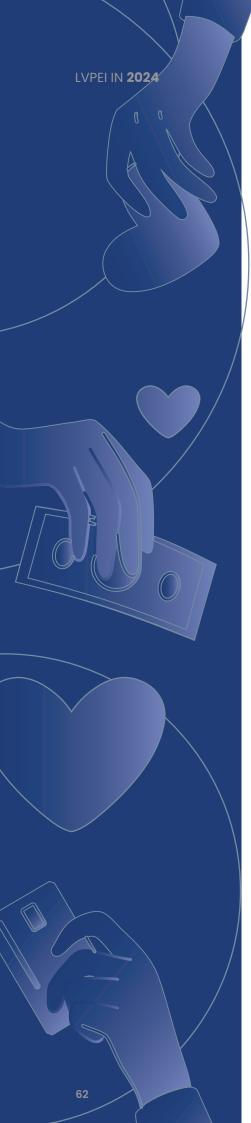
The first step to offering critical care during medical emergencies, or at an ICU, is to check the patient's pupils. The pupil is the aperture-like opening at the center of our eyes. It constricts when exposed to bright light and dilates in low light, calibrating the quantity of light entering the eye the pupillary light reflex. Both eyes respond in unison to luminance. So, paramedical teams use the 'swinging light test' where a flashlight is swung back and forth between the eyes, to check pupil response. Any sluggish or impaired response from either pupil is a sign of deeper neurological damage and helps with medical triage.

The swinging light test relies on the technician or clinician's subjective judgment and is dependent on the location--what if the area is flooded with sunlight?—and other conditions. It also depends on the person's subjective assessment of the pupillary reflex, and there is wide variation in decision-making between medical professionals. Enter: a mobile-based, handheld pupilometer that can address all the limitations of the traditional method. The device is reliable, objective, and addresses inter-observer variance by matching inputs to an objective dataset of outcomes. Every time a technician points the device towards a patient's pupil, the device will check the pupillary reflex time and response to a database and offers a standardized response.

The handheld pupillometer is a product of LVPEI's Center for Technology and Innovation (CFTI) and the Visual Optics and Psychophysics Laboratory, the handheld mobile pupilometer was developed by a team led by Shrikant Bharadwaj, Scientist & Network Associate Director - Brien Holden Institute of Optometry and Vision Sciences, Rahul Negi, Sahiti Reddy and others. "The subjective element in pupil testing can be minimized through standardized, objective assessment using modernday technology," notes Shrikant.

"The subjective element in pupil testing can be minimized through standardized, objective assessment using modern-day technology,"





Giving

The success of the LVPEI model is made possible by many friends, supporters, and donors, who give us their 'time, talent, and treasure.' It is their generosity that has enabled us to take eye care to the doorsteps of the many in need. The LVPEI model builds permanent centres of care that allows people to walk up to us and seek care. These permanent centres build a sense of trust in the communities they operate in. These centres are made possible by donors who are willing to support their establishment. In addition, they offer opportunities for our supporters to give back to their regions of origin, or to give forward to the communities that have come together around LVPEI. Supporters have also helped fund our outreach activities, and LVPEI's popular 'non-paying' services.

Support to LVPEI comes in many forms—the Institute for Vision Rehabilitation has had volunteers come every year to read aloud and record books for people with blindness, for example. For all of us at LVPEI, the wind beneath our wings is the deep trust that our supporters repose in us. We strive to protect their faith, and to build on it, ensuring the many millions we service can benefit from our ambition: so that all may see.

Fundraising

LVPEI receives three major kinds of donations: individual donations, institutional, and corporate social responsibility grants. When LVPEI was established in 1986, most of our donations had come from USA. In these 37 years, this has flipped—over 74% of our donations came from Indian donors in 2024. While about 10% of our fundraising comes from individuals, institutions and organisations constitute the remaining 90%--when you count individual donors, this ratio flips; more than 90% of our donors are individuals. What is heartening for us is the fact that nearly 55% of all our donors come back again to give us the next year, and some 40 donors have been donating to us every year for over 6 years now.



Integrity and Enterprise

Warby Parker has supported vision screenings and spectacles across the LVPEI network to ensure that we reach those who are most in need. Since 2019, their support has helped us provide glasses across the southern states of India to thousands of children and the elderly. 'LVPEI is an incredible role model and example for how to provide comprehensive, high-quality eye care, reaching communities where care is needed most,' say Neil Blumenthal and Dave Gilboa, co-founders and co-CEOs of Warby Parker.

Neil had started his career at VisionSpring, an organization that creates access to affordable eyewear in low-income communities across the globe, conducts vision screenings, and raises awareness about common optical issues. As part of his work, he spent time with LVPEI and got to see our commitment to offering a high standard of care to people irrespective of their ability to pay. Neil, along with Dave and their other co-founders, went on to start Warby Parker, an eyewear brand founded with a mission to inspire and impact the world with vision, purpose and style-without charging

a premium for it. Warby Parker pioneers ideas, designs products, and develops technologies that help people see, from designer-quality prescription glasses and contacts, to eye exams and vision tests. For every pair of glasses purchased at Warby Parker, a pair of glasses are distributed through their Buy a Pair, Give a Pair program.

This is because a pair of glasses can transform lives. More than a billion people have vision loss and have never had their eyes examined—most just need a pair of glasses. Every year, vision loss leads to global productivity losses of over USD 400 billion, but most of these billion people—nearly 90%--live in low- and middle-income countries where their incomes are less than USD 4 a day.

How can we get a pair of glasses into the hands of all these people?

'Lives can be improved so meaningfully by simply increasing access to glasses. We're grateful to work alongside our partners to make an impact, but the need continues to be massive—and we hope that with more awareness of the problem, there will be more mobilization across sectors and organizations to meet this need,' they note.

"Lives can be improved so meaningfully by simply increasing access to glasses."



Donor story: Lakshmi Narasamma

One morning in early 2024, Lakshmi Narasamma, now in her mid-60s, walked back into LVPEI's bustling campus at Banjara hills, Hyderabad. She had come to give us a cheque. Nearly 25 years ago, Lakshmi had first stepped into the campus to join the cafeteria team. This was her first job. In fact, she had never expected to work at all and had always imagined her life around her home. But life's many twists and turns meant that she had to earn a living. She became the cafeteria administrator at the Kallam Anji Reddy campus, and her first days were full of trepidation and uncertainty.

Whatever she felt in her heart, her colleagues never knew it.

Lakshmi was a firm administrator and ran the cafeteria like a ship; with discipline and cleanliness, upholding LVPEI's values. In a few years, she had found her confidence and left LVPEI to pursue her life elsewhere.

All these years later, Lakshmi came back to give us a cheque. Her donation was a gift of gratitude for instilling her with confidence in those early years. She had built a life for herself and her children, and she wanted to give back to the organization that gave her her first job. Lakshmi wanted the money to help disadvantaged families in the communities we serve.







Founders and Donors

The L V Prasad Eye Institute story is as much about the generosity and goodwill of scores of institutions and individuals as it is about eye care delivery. Over the years, many who believed in our vision stepped in to support us and we are sincerely grateful for their trust.

The average donation in 2024 was about INR 130,000 and the median donation was about INR 20,000—these are amounts that are possible donations for many individuals, including LVPEI's own staff some of whom regularly donate a portion of their salary.

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