WHO re-designates LV Prasad Eye Institute as collaborating centre

LVPEI signs MoU with Portuguese Foundation for advanced eye cancer treatment

World Keratoconus Day at LVPEI

On occasion of World Keratoconus Day on November 10, to increase awareness about the disease, Tej Kohli Cornea Institute conducted a patients' interaction at LV Prasad Eye Institute. Keratoconus is a condition where cornea thins into a conical shape causing impairment of vision.

LVPEI observes purple day

Spl. services begin at LV eye institute

India on the brink of a dry eye disease epidemic, says study

Eye hackathon yields innovative solutions

Miriam Hyman Children’s Eye Care Centre at LVPEI completes 10 years

Bhutan'sw, July 4: The pediatric wing of Mitu Tulsi Chandra (MFC) Campus LV Prasad Eye Institute - Miriam Hyman Children’s Eye Care Centre (MHCECC) completed 10 years today MHCECC offers an interdisciplinary comprehensive eye care management of pediatric patients irrespective of their socio-economic background and location. Children with partial vision and total visual impairment are provided United Kingdom, also focuses on Retinopathy of Prematurity (ROP) and Retinoblastoma (eye cancer) treatment. In his inaugural speech in 2008, during the launch of MHCECC, Dr. Jan Pashby - Founder and Chair, LV Prasad Eye Institute said that the inauguration is just the beginning of a long journey. Their vision for the Centre is that in the next five years, every child in Odisha who needs any form of eye care and 10 years of establishment respectively.
31st March 2019 marked the completion of 99 corneal transplant procedures in our rural secondary centres. A day later, we completed a CENTURY - a unique milestone, unthinkable in a country where many residency training programmes don’t offer this service at all. Significantly, a majority of these surgeries were in centres located in the most disadvantaged geographic areas. It was never our intention to get into the care of conditions that are traditionally in the realm of tertiary care because of greater demands on the availability and cost of the required infrastructure, talent and support systems. But we achieved it by combining available talent with cutting edge technology, including tele-ophthalmology tools, as part of an integrated eye care system managed by a committed medical team.

Our long and arduous thirty-year old eye banking journey peaked with harvesting around 10,000 corneas and helping in over 6000 transplants - another milestone unexpected in India. Our entire Cornea and Eye banking teams deserve special applause. To many supporters who helped in diverse ways, we owe a debt of gratitude.

Three hundred plus publications in a year is a cause for celebration and a great return on investment in nurturing a culture of research since the Institute’s inception. Significant progress was made in research on multiple aspects of infections, stem cell biology, and vision psychophysics.

Gullapalli N Rao
Chair, Board of Trustees
The numbers of our secondary service centres and primary care vision centres increased, and the quality of care improved with the application of tools developed by our technology innovation group and others. The Tertiary Centres and the Centre of Excellence continued to innovate, adding some new services, and improving existing ones.

Education programmes continue to improve and grow, with more intensive exit competency exercises. A major milestone is the launch of Ophthalmology Residency training in Liberia, a step towards building internal capacity for Ophthalmologists in Liberia and other countries in that region that have a dire need. The support from Lions Clubs International Foundation’s SightFirst programme for this activity is greatly appreciated.

This year, major support from Standard Chartered Bank gave a big boost to our programmes, and helped us to meet the increasing demand for training of allied ophthalmic health personnel.

The Odisha government’s Universal Eye Health programme is a result of the advocacy efforts of Taraprasad Das, and the massive screening programmes of the Telangana government was guided by Srinivas Marmamula and others.

Through all the intense activity, several team members received recognitions from various organizations around the world, which helped to enhance our image.

Lastly, we are touched by the ever increasing generosity of numerous organizations and individuals who support our continued growth. To all of them, we remain indebted.

Overall, it was a year where many goals were achieved much beyond expectations.
### Timeline 1987 - March 2019

**1987 - 1990**
- Brien Holden Eye Research Centre inaugurated
- Dr PRK Prasad Centre for Rehabilitation of Blind and Visually Impaired inaugurated
- First vision centre
- Production of MK Medium
- Training for ophthalmic nurses, technicians and eye care managers initiated
- Research in public health and epidemiology starts
- First two partner rural secondary centres

**1991 - 1995**
- Meera and L B Deshpande Centre for Sight Enhancement inaugurated
- Andhra Pradesh Eye Disease Study begins
- LVPEI’s first Secondary centre started
- Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care inaugurated
- Supporters and Sightsavers exclusive services initiated
- Retinopathy of Prematurity screening initiated
- Bausch & Lomb School of Optometry established

**1996 - 2000**
- Designated as World Health Organisation Centre for Prevention of Blindness
- Designation as resource centre for VISION 2020: The Right to Sight - Andhra Pradesh
- Eye Bank crosses 1000 mark in cornea collection
- Academy for Eye Care Education formally inaugurated
- Recognised by Indian Govt as centre for stem cell research
- Children’s Eye Health initiative launched

**2001 - 2005**
- Institutes of Excellence for Geriatrics and Dacryology inaugurated
- World record: 2000+ corneal transplants in a year at Hyderabad campus
- Tej Kohli Cornea Eye Bank inaugurated at Vijayawada
- Tele-ophthalmic slit lamp installed in secondary and vision centres
- For the first time, Institute takes up the management of a centre outside India - Liberia Eye Centre
- Institute for Vision Rehabilitation inaugurated
- BostonSight Lens Manufacturing Lab set-up at LVPEI
- Brien Holden Institute of Optometry and Vision Sciences inaugurated
- Official Government partner for: ‘Universal Eye Health’ program in Odisha and ‘Kanti Velugu’ project in Telangana
- LVPEI re-designated as WHO Collaborating Centre

### Key Achievements
- 50,000 sq ft flagship building completed
- Patient care services commence (paying and non-paying)
- First cornea fellowship
- Education activities commence
- Establishment of the Ramayamma International Eye Bank
- Community outreach activities commence
- Comprehensive ophthalmology fellowship

**Institutions**
- 4 tertiary and advanced tertiary centres,
- 19 secondary centres,
- 2 urban city centres and
- 180 vision centres - across Telangana, Andhra Pradesh, Odisha and Karnataka.

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*For more detailed information, please refer to the original document.*
- Bhubaneswar Campus (Mithu Tulsi Chanrai) inaugurated
- Visakhapatnam Campus (GMR Varalakshmi) inaugurated
- Village Vision Complex established
- Eye Banks set-up at Bhubaneswar and Visakhapatnam
- LVPEI Eye Bank recognized as 'Global centre of excellence' by SightLife
- eyeSmart EMR service initiated

**2006 - 2010**

**2011 - 2015**

**2016 - 2019**

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- Vijayawada Campus (Kode Venkatadri Chowdary) inaugurated
- First eye institute to be accredited by the NABH
- LVPEI Centre for Innovation inaugurated
- First secondary centre in Odisha
- Liberia eye health initiative launched
- Performed 20,000 corneal transplants
- New patient care building at Hyderabad
- Institutes of Excellence for cornea and cancer
- Patents filed for two products
- Complex surgeries performed at Secondary Centres

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**Timeline 1987 - March 2019**

4 tertiary and advanced tertiary centres,
19 secondary centres,
2 urban city centres and
180 vision centres - across Telangana, Andhra Pradesh, Odisha and Karnataka.
1 secondary centre and 8 vision centres were inaugurated between April 2018 to March 2019.
Impact
1987 to March 2019

28.48 million People Served

- 10,232 Villages reached
- 94,522 Corneas harvested
- 52,426 Corneas distributed
- 1776 Innovative stem cell based procedures
- 0.18 million Rehabilitated
- 3.93 million Children reached
- 12.23 million People reached through community eye health initiatives
- 1.53 million Surgeries performed
- 14.71 million Outpatients treated
- 1.53 million People reached through community eye health initiatives
- 5 Patents filed
- 48 PhDs awarded
- 2634 Publications
- 50%+ services provided free of cost, regardless of complexity
- 22,033 Eye care professionals trained
- 10,265 Visually impaired rehabilitated
- 1,555,125 Surgeries performed (April 2018 to March 2019)
- 165,490 Outpatients
- 533,186 Surgeries
- 18,686 Reached through community eye health initiatives
- 6045 Donor corneas harvested
- 549 Donor corneas distributed
- 1438 Trained through Continuing Medical Education programs
- 101 Patents filed
- 332 Awards
- 241 Publications
- 1387 Presentations
- 14 Advocacy and awareness generation programs
- 101 Hospitals supported through capacity building programs
The Year at a Glance
(April 2018 to March 2019)

- **1,555,125** Outpatients
- **165,490** Surgeries
- **533,186** Reached through community eye health initiatives
- **10,265** Donor corneas harvested
- **6045** Donor corneas distributed
- **10,265** Visually impaired rehabilitated
- **332** Publications
- **101** Awards
- **241** Presentations
- **14** Hospitals supported through capacity building programs
- **549** Trained
- **1438** Trained through Continuing Medical Education programs
- **3** Patents filed
- **18,686** Advocacy and awareness generation programs
- **1387** Patents filed
- **332** Presentations
- **101** Awards
- **241** Presentations
- **14** Hospitals supported through capacity building programs
- **549** Trained
- **1438** Trained through Continuing Medical Education programs
- **3** Patents filed
- **18,686** Advocacy and awareness generation programs

Impact 1987 to March 2019
50%+ services provided free of cost, regardless of complexity
LVPEI bags 6 ranks in the Times of India Health Survey

<table>
<thead>
<tr>
<th>Ranking</th>
<th>LVPEI Hyderabad</th>
<th>LVPEI Bhubaneswar</th>
</tr>
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<tbody>
<tr>
<td>National</td>
<td>No. 1</td>
<td>No. 3</td>
</tr>
<tr>
<td>Regional (South)</td>
<td>No. 1</td>
<td>No. 1</td>
</tr>
<tr>
<td>Regional (East)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>No. 1</td>
<td>No. 1</td>
</tr>
</tbody>
</table>

The World Health Organization (WHO) re-designated LVPEI as a WHO Collaborating Centre for Prevention of Blindness

- Indywood Hospitality Excellence Award
- The Week ranks LVPEI’s Hyderabad campus at No.2 and Bhubaneswar campus at No.14
- Fittle - The first 3D printed Braille puzzle, developed in partnership with Serviceplan Health & Life and Ravensburger received bronze at the Cannes Lions International Festival and London International Award
- Ramayamma International Eye Bank has been re-certified for quality by SightLife
- Appointed as the technical and training partner for the 'Telangana Kanti Velugu project' launched by the Government of Telangana
- LVPEI Visakhapatnam received the Andhra Pradesh Greening and Beautification Corporation’s 'Green Awards'
Komal Agarwal
- Third prize for designing a portable simple ROP camera, Sixth Engineering the Eye Hackathon, LVPEI

Satish Patnaik Baggam
- Best oral presentation, Indian Eye Research Group annual meeting

Sayan Basu
- Virender Sangwan Chair of Ocular Regeneration, LVPEI
- Council Member, Asia-Pacific KPro Study Group

Soumyava Basu
- Wellcome Trust/DBT India Alliance Intermediate Fellowship in Clinical and Public Health Research

Naheed Arfin Borah
- Travel Award, Indian Eye Research Group annual meeting

Subhabrata Chakrabarti
- Chair, Communication and Technology Committee, World Glaucoma Association
- Global Mentor, Association for Research in Vision and Ophthalmology

Nikhil S Choudhari
- Association for Research in Vision and Ophthalmology publications grant

Taraprasad Das
- Col (Dr) Dinabandhu Panda & Prof Suprava Panda Lecture
- Elected as Vice-President, Asia-Pacific Academy of Ophthalmology

Tarjani Dave
- Best paper award in orbit and oculoplasty, All India Ophthalmological Society

Vivek Dave
- Achievement award and best paper presentation award, Asia Pacific Academy of Ophthalmology

Vivek Dave
- Yasuo Tano travel grant Asia Pacific Academy of Ophthalmology

Vijay Reena Durai
- Best paper award, Dr E Vaithilingam memorial scientific session organized by the Elite School of Optometry, Sankara Nethralaya

Sankeert Gangakhedkar
- Korean Retina Society travel grant, Asia-Pacific Vitreo-Retina Society

Naresh Gattu
- First, second, third prizes, and an honourable mention, The Ophthalmic Photographers’ Society

Sanjukta Guha
- Awarded Senior Research Fellowship, Council of Scientific & Industrial Research, Government of India

Subhadra Jalali
- Queen Elizabeth Diamond Jubilee Trust honoured her ROP (Retinopathy of Prematurity) work by making a documentary on her ‘A Life of Sight’
- Dr Hem K Tewari Memorial Oration, Dr R P Centre for Ophthalmic sciences

Joveeta Joseph
- Associate Fellow, Telangana Academy of Sciences

Sandeep K
- Holman Honorary award, The Light House for the Blind and Visually Impaired
- Certificate of competence, Association for the Blind and Visually Impaired, Rochester

Swathi Kaliki
- The Indian Council of Medical Research - Shakuntala Amir Chand Prize for excellence in clinical research

Inderjeet Kaur
- Treasurer, Indian Society of Human Genetics

Ramesh Kekunnaya
- Associate Editor, Pediatric Ophthalmology & Strabismus, British Medical Journal
- Program Committee, Member, Pediatric Ophthalmology & Strabismus Section, American Academy of Ophthalmology

Abhinav Reddy Kethiri
- Awarded Senior Research Fellowship, Indian Council of Medical Research
- Association for Research in Vision and Ophthalmology travel grant

Rohit Khanna
- Member, Board of Trustees, International Agency for the Prevention of Blindness
- Appointed to Editorial Board of Journal of Population Health Management

Ranjith Konduri
- International travel grant, Science and Engineering Research Board
- Awarded Senior Research Fellowship, Indian Council of Medical Research

Bejanki Kavya Madhuri
- Best paper award in Orbit and Oculoplasty, All India Ophthalmological Society

Anil K Mandal
- Delivered the Noel Rice Lecture, UK Pediatric Glaucoma Society
- Rustom Ranji Oration, Telangana Ophthalmological Society

Somashelia Murthy
- Outstanding woman ophthalmologist, Women Ophthalmologists Society

Ashik Mohamed
- University of New South Wales Alumni Award in Young Alumni category
- Portrait (One among the 14 alumni worldwide) featured in UNSW Science edition of the Facing Equality project

Sashwanthi Mohan
- Third prize, ERUDIO Allergan Quiz Contest

Raja Narayanan
- Young Ophthalmologist award, South Asian Association for Regional Cooperation - Academy of Ophthalmology
- Best Publication in Indian Journal of Ophthalmology (Gold)

T V Aishwarya Pillai
- Young Achiever Award, National Federation of the Blind

Gullapalli N Rao
- Lifetime achievement award, All India Ophthalmological Society

Ashutosh Richhariya
- Felicitated by Vignan Technical University

Sirisha Senthil
- Achievement award, American Academy of Ophthalmology
- International Heroes award, Women Ophthalmologists Society

Pratima Singh Thakur
- Prof I M Sahu award for best cornea paper presentation, Odisha State Ophthalmological Society

G Srinivas
- Rising Star award by Pixoto photo website

Pavan Verkicharla
- Inspire faculty Award, Department of Science and Technology, Government of India
- Early career research award, Science and Engineering Research Board
Hyderabad campus represents the apex of our pyramidal model of eye care delivery and continues to subserve this role optimally. We provided services to more than 460,000 outpatients and performed 72,100 plus surgeries most of which were complex and referred from all over the country. Many faculty members were honoured with prestigious awards and contributed close to 300 articles in various peer reviewed journals.

The best this year: The Week magazine recognising the campus as the second best health care organisation in Ophthalmology category; grant to develop research and clinical care infrastructure for dry eye diseases and invitation to Dr Anil K Mandal to deliver the prestigious Noel Rice Lecture were among the best of the year.

Way forward: A major focus will be to incorporate technology for a superior patient experience including online appointment; payment gateway and even check-in on reporting in the institute. The campus will be the command centre for our organization's tele-ophthalmology initiatives.

Prashant Garg
Director, Kallam Anji Reddy Campus, Hyderabad
Dr Kallam Anji Reddy Distinguished Chair of Ophthalmology
Dr Paul Dubord Distinguished Chair of Cornea
To cater to the eye care needs of people in Eastern India, LVPEI started its services in Odisha with the inauguration of the Bhubaneswar campus 12 years ago. Till date, the centre has seen 1.1 million patients and performed 124 thousand surgeries; over 30% at no cost to the patient. It is also actively involved in research activities. In addition to significant grants and awards, this year alone witnessed 50 peer-reviewed publications by the faculty.

The best this year: Tenth anniversary of the Miriam Hyman Children’s Eye Care Centre that coincided with 370 children being examined and 200 cataract surgeries being performed under the ‘Rashtriya Bal Swasthya Karyakram’ program.


Suryasnata Rath
Director, Mithu Tulsi Chanrai Campus, Bhubaneswar
Taraprasad Das Chair of Ophthalmology
We saw over 130,000 patients in the out-patient department and performed over 15,000 surgeries amounting to 14% and 18% growth respectively, compared to the previous year. More than 30% of these patients were seen at no cost. We were extremely happy with the addition of the Ocular Prosthesis Clinic, which has given a fillip to the oculoplasty service.

The best this year: GMRV campus has taken 'Going Green' to the next level with the installation of solar panels which now provide 150 kW electricity. We were awarded the first prize as a "Green Hospital in AP" by Chief Minister Sri N Chandrababu Naidu.

Way forward: We are looking forward to increasing our patient care infrastructure and human resources in order to meet the increasing demand from North Coastal Andhra Pradesh.

Merle Fernandes
Director,
G M R Varalakshmi Campus, Visakhapatnam
At the Kode Venkatadri Chowdary campus, we examined 95,235 patients, including 15,187 children and performed 10,914 surgeries this year. Infrastructure expansion included a new clinical diagnostic laboratory, electroretinogram (ERG) facility and a wet lab for facilitating training of young ophthalmologists. The campus has also applied for NABH accreditation.

The best this year: The campus now offers advanced Oculoplasty services including complex reconstructions, endoscopic surgeries and ocular prostheses.

Way forward: Develop programs to ensure that every child born premature in the neighbouring areas of Vijayawada and Guntur is screened and provided care for Retinopathy of Prematurity. Additionally, focus on community-based programs for early detection and management of Diabetic Retinopathy.

Prashant Garg  
Director,  
Kode Venkatadri Chowdary Campus, Vijayawada
‘Patient First’ is one of the core values of the institute. Each action of the institute is directed to enhance the satisfaction with careful attention to personalized care through dedicated and unhindered time and professionalism. We drive the system through constant upgradation of infrastructure, continuous professional development of people and quality check on the operational system.

The best this year: Some of the tertiary eye care services were provided at secondary centres. Nearly 100 corneal transplants were performed in the rural secondary eye care network and this is a unique achievement.

Way forward: The patient care 'Big data' for predictive and advanced analysis is being captured through our EyeSmart Electronic Medical Record system. For better patient care and treatment outcomes, it is important to scale this up further.

Tarakprasad Das
Vice Chair,
Patient Care Policy
Population reached 2,253,801

Population Covered

<table>
<thead>
<tr>
<th>Tertiary and advanced tertiary centres</th>
<th>Village Vision Complex</th>
</tr>
</thead>
<tbody>
<tr>
<td>42%</td>
<td>58%</td>
</tr>
</tbody>
</table>

Village Vision Complex includes Secondary Centres, Vision Centres and Community outreach initiatives.

Paying
- Male: 40%
- Female: 54%

Nonpaying
- Male: 60%
- Female: 29%

Children
- Male: 46%
- Female: 29%

Adults
- Male: 71%
- Female: 60%

Outpatients: 1,555,125
Surgeries: 165,490
Door-to-door surveys: 61,634
Community screening programs: 75,679
Children’s eye health initiatives: 395,873
Tertiary and advanced tertiary centres

Kallam Anji Reddy Campus, Hyderabad

<table>
<thead>
<tr>
<th></th>
<th>Outpatients</th>
<th>Surgeries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>460,707</td>
<td>72,107</td>
</tr>
<tr>
<td>Paying</td>
<td>317,030</td>
<td>43,712</td>
</tr>
<tr>
<td>Non-Paying</td>
<td>143,677</td>
<td>28,395</td>
</tr>
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</table>

Mithu Tulsi Chanrai Campus, Bhubaneswar

<table>
<thead>
<tr>
<th></th>
<th>Outpatients</th>
<th>Surgeries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>151,668</td>
<td>23,296</td>
</tr>
<tr>
<td>Paying</td>
<td>107,848</td>
<td>12,356</td>
</tr>
<tr>
<td>Non-Paying</td>
<td>43,820</td>
<td>10,940</td>
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</table>

GMR Varalakshmi Campus, Visakhapatnam

<table>
<thead>
<tr>
<th></th>
<th>Outpatients</th>
<th>Surgeries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>131,887</td>
<td>18,717</td>
</tr>
<tr>
<td>Paying</td>
<td>105,128</td>
<td>13,357</td>
</tr>
<tr>
<td>Non-Paying</td>
<td>26,759</td>
<td>5360</td>
</tr>
</tbody>
</table>

Kode Venkatadri Chowdary Campus, Vijayawada

<table>
<thead>
<tr>
<th></th>
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<th>Surgeries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>95,248</td>
<td>14,275</td>
</tr>
<tr>
<td>Paying</td>
<td>55,429</td>
<td>5618</td>
</tr>
<tr>
<td>Non-Paying</td>
<td>39,819</td>
<td>8657</td>
</tr>
</tbody>
</table>

Analysis of Surgical Procedures

- Cataract: 42%
- Retinal and vitreotinal: 28%
- Oculoplasty: 8%
- Refractive surgery: 4%
- Others: 4%
- Ocular Surface: 4%
- Cornea: 3%
- Anterior segment: 2%
- Strabismus: 2%
- Glaucoma: 2%
- Trauma: 1%
- Strabismus: 2%

Total number of Cornea transplants: 2951
Total number of stem cell based procedures: 143

7938 international patients
Looking at the extremely adorable four-year-old Shristi bubbling with energy, it is hard to believe that she spent the first six months of her life in hospitals fighting for her life and vision. Born prematurely in the 6th month with a birth weight of 650 grams, she was kept in an incubator in a local hospital in Visakhapatnam. Extreme prematurity resulted in a serious retinal problem called Retinopathy of Prematurity (ROP) common in premature babies. Shristi was rushed to LVPEI Visakhapatnam in an ambulance. Her condition was very critical and was further complicated by cataracts. As she needed highly advanced clinical care due to the various complications including her low birth weight, she was treated between the two centres in Visakhapatnam and Hyderabad. Since then she has been operated in both her eyes for cataract, retina and squint, ensuring minimum travel for the family.

“We were scared that even if she survives, without vision her future will be bleak. Thanks to the excellent coordination between the two centres and the advanced care available at LVPEI to treat such complex newborn cases, Shristi today enjoys good functional vision. She goes to play-school now and knowing the fighter that she is, we are confident that she has a great future ahead.”

Shristi’s father

November 2018 marked the completion of 20 years of ROP services at LVPEI. 20,000 babies have been screened and 2818 babies treated for ROP in all these years.

- Jasti V Ramanamma Children’s Eye Care Centre, Hyderabad
- Miriam Hyman Children’s Eye Care Centre, Bhubaneswar
- Nimmagadda Prasad Children’s Eye Care Centre, Visakhapatnam
- David Brown Children’s Eye Care Centre, Vijayawada
Through our Centre-based and Community-based models of service delivery, we were able to positively impact the lives of 8596 people with disabilities and in turn, their family members. We not only focused on catering to the complete rehabilitation requirements of our clients but also conducted training programs to further enhance the skills of professionals working in this field.

Institute for Vision Rehabilitation

The best this year: The commencement of a dedicated 'Special Needs Vision Clinic' to attend to vision and associated needs of children with developmental delays and disabilities is an important milestone in our journey.

Way forward: We are committed to ensuring the 'Right to Dignity' for persons with disabilities. Through our new 'Inclusive skills training' initiative we aim to economically empower them and their families with a better quality of life.

Beula Christy
Head of Services,
Institute for Vision Rehabilitation
15,846 clients availed low vision and vision rehabilitation services

2840 benefited from community outreach services

38% nonpaying  48% children  41% female

167 children with special needs assisted through 441 sessions of vision assessment and therapy

3464 children with developmental delays received therapeutic intervention through 24379 sessions

704 queries on various disability issues resolved through ‘HelpLine for the visually impaired’

162 books in digital audio format were added to the library and accessed by 5303 people from across the country

110 young adults trained on computer skills through assistive software

1185 persons with low vision assisted to improve functional activities through low vision devices

831 volunteers provided 4688 hours of service in the form of scribe writers, readers, audio recording of text books, etc.

64 people with disabilities empowered to be economically independent through self-employment and job placement

21 national and international professionals trained on low vision rehabilitation

2000 participants benefitted from 47 advocacy programs and events organized to promote the rights of people with disability

14,153 visitors sensitized on disability rights and needs through the ‘Mobility and Sensory Integration Park’
Helping Hands App helps connect visually impaired people with volunteers who are willing to assist them in travelling, shopping, paperwork, recreational activities and other similar tasks. This application has been developed in collaboration with Techsophy and can be downloaded from the Google play store.

Some children need extra care and attention because of the various developmental delays and disabilities they have, including visual impairment. They require specialized assessment and intervention besides standard clinical examination. Special Needs Vision Clinic is one such unique initiative aimed at helping these children, their parents and caregivers, lead a better quality of life. It is part of the early intervention program at LVPEI and is funded by RenewSys India Pvt. Ltd in collaboration with Mission for Vision, Mumbai.

Humanistic Co-Design workshop provided an ecosystem for the designers, makers and engineers to work along with people with disabilities and develop innovative technologies and devices that can be of assistance to them. Organized with support from the LVPEI Center for Innovation and MIT India, it aimed at helping the designers understand the challenges and experiences of people with disability and accordingly brainstorm for constructive solutions.
Adding the lost colours

Well, I can barely see, but through the medium of art, I see things beyond what others can see. My love for art is the fuel for my soul and has been my constant companion always.

Born with high myopia and low bone density, my health was never in the best of form. The doctors associated that to my parents’ consanguineous marriage. But I never let it deter me and with the support of my family, participated in all activities possible.

Life took an ugly turn when in my 8th grade I lost vision in the right eye due to a pencil injury and a couple of years later, lost my left eye vision as well due to leucoma. My schools mates, friends and teachers would often ridicule me, and make me feel like an outcast.

Though traumatized initially, I did not succumb to depression for long. After reading an article in a newspaper, my family brought me to LVPEI’s Institute for Vision Rehabilitation. Professional and emotional counselling, training in mobility, use of special assistive software and low vision devices, helped me regain my lost confidence. The fun camps that I would attend at the Institute filled me with positivity. I rely on assistive softwares for reading and writing. However, with the very limited vision that I still have, I continue to pursue my artistic passion. I was so beautifully made to understand at LVPEI that the only disability in one’s life is a bad attitude.

S Ashwini, from Tirupati, Andhra Pradesh

Ashwini works with IBM India as Associate Systems Engineer. She is also associated with an art academy and has won many prestigious awards for her artistic drawings. She is also starting to participate in forums for advocating for women’s rights. Inspired by the LVPEI team, she has started a not-for-profit organization called ‘Krant - Ray of Hope’, where she is trying to provide support to people who face similar challenges.
The expansion we witnessed this year in LVPEI’s rural eye care network included 1 Secondary and 8 Vision Centres. The program of developing robust ‘primary eye health’ mechanisms in the states of Andhra Pradesh, Telangana and Odisha is a major strategic thrust, and we are happy to report that we are progressing rapidly on this.

The best this year: The 20th anniversary celebrations of the formal inauguration of Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care in 2018 was a major milestone.

Way forward: Transforming the way primary eye care will be delivered through technology enabled vision centres, thus accelerating our journey for achieving our goal of ‘Universal Eye Care’.

Rohit C Khanna
Director,
Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care
The landmark occasion was celebrated on 15 September 2018 amidst several dignitaries including the Union Health Minister, Sri Jagat Prakash Nadda; Governor of Telangana and Andhra Pradesh, Sri ESL Narasimhan; the World Health Organization Regional Director for South East Asia, Dr Poonam Khetrapal Singh; the President of International Agency for the Prevention of Blindness (IAPB), Mr Bob McMullan; the Chief Executive of the IAPB, Mr Peter Holland; Immediate Past President of International Council of Ophthalmology, Prof Hugh Taylor; and Dr Maria Alarcos Cieza Moreno and Dr Ivo Kocur from the World Health Organization, Geneva.
Continue to make advanced complex surgical care available at secondary centres

- Since March 2016, close to 100 corneal transplants have been performed
- Retina, glaucoma and surgeries under general anaesthesia including pediatric cataract and squint surgeries are now being performed in some of the centres

- One new Secondary Centre was inaugurated at Akividu, West Godavari, Andhra Pradesh and 8 new Vision Centres were inaugurated in the states of Andhra Pradesh, Telangana, Odisha and Karnataka.
- ‘Innovative Approaches in the Delivery of Primary and Secondary Eye care’, edited by Dr Rohit C Khanna, Dr Gullapalli N Rao and Dr Srinivas Marmamula was published by Springer with Dr Arun D Singh from the USA as the series editor. Additionally, 16 papers were also published in peer-reviewed journals.
- Currently, there are 11 on-going projects in community eye health

Impact

<table>
<thead>
<tr>
<th>Secondary Centres</th>
<th>Vision Centres</th>
<th>Population reached through</th>
</tr>
</thead>
<tbody>
<tr>
<td>366,601 Outpatients</td>
<td>349,014 Outpatients</td>
<td>395,873 Children’s eye health initiatives</td>
</tr>
<tr>
<td>36,273 Surgeries</td>
<td>100% outpatient services provided at no cost to the patients</td>
<td>61,634 Door-to-door surveys</td>
</tr>
<tr>
<td>40% outpatient and 60% surgical services provided at no cost to the patients</td>
<td></td>
<td>75,679 Community screening programs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100% services provided at no cost to the people</td>
</tr>
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- 11% children
- 53% female
Vibrant, brimming with colourful people and nostalgia, Kuchakulla Ramachandra Reddy Eye Centre, LVPEI’s second secondary centre, celebrated its 20th anniversary on 24 October 2018. Nestled against a backdrop of green and hilly mountains, the centre was established in 1998 in the district of Mahabubnagar at that time, considered as one of the most backward districts with a high prevalence of blindness. The dedicated team members, patients who were treated, members of three generations of the donor family, local leaders, community elders, eminent dignitaries, were all gathered there – each of them happy to be associated with the Centre and even happier to celebrate the milestone together. These were some of the experiences that were shared:

“I admire the dedication of the team. Though scared initially, after my surgery I didn’t even realize that I had undergone an operation, everything was so smooth. And the best part was that when I tried to give a tip to one of the employees here, he refused it saying it was his duty.”
Sri Shiva Raj, 93 year old patient

“When we donated this land to LVPEI, there was nothing here. It was completely barren without any power and water supply, or proper road connectivity. It is really overwhelming to see the way this centre has developed, and its impact on the community.”
Sri K Damodar Reddy, Member of Legislative Council, (Sri K Damodar Reddy and his family have supported the centre and it is named after his father)

“It feels as if I have come for the inauguration of a brand new centre. It does not look 20 years old. The school screening programs that are being implemented by the centre are worth applauding and are creating a far greater impact.”
Sri T Harish Rao, Member of Legislative Assembly and former minister.

In the past 20 years, the centre has served 266,849 outpatients and performed 33,153 surgeries. Currently, 11 Vision Centres are connected to it and 303,088 people have been screened through them.
The LVPEI Eye Bank network collected 10,265 corneas last year, of which 6045 were distributed for transplantation. In the coming years, the focus will be to share the wealth of our rich experience with other states and countries, and help them in developing eye banking facilities.

The best this year: Ramayamma International Eye Bank achieved the milestone of collecting 76,000+ corneas since inception. Of these 40,600+ corneas were distributed for transplantation.

Way forward: To ensure that the availability of quality corneal tissue does not remain a barrier in tackling corneal blindness, we will continue to help other states and countries in setting-up successful and sustainable eye bank facilities.

Prashant Garg
Head,
Eye Banking Services
The LVPEI Eye Bank Network

- Ramayamma International Eye Bank, Hyderabad
- Drushti daan Eye Bank, Bhubaneswar
- Mohsin Eye Bank, Visakhapatnam
- Tej Kohli Eye Bank, Vijayawada

3136 Corneas distributed to LVPEI surgeons
2909 Corneas distributed to surgeons outside the LVPEI network
3674 Corneas used for training
550 Corneas found not suitable for training

Crossed the 50K mark in cornea distribution

52,426 corneas have been distributed since inception, of which 40,646 are by the Eye Bank facility at Hyderabad.

From 2016 to 2019, we performed more than 300 corneal transplant surgeries. In more than 90% of these cases, the surgeries have been successful with clear graft. The corneal tissues for these surgeries were provided to us by LVPEI. RIEB is truly a world class state-of-the-art Eye Bank facility which collects, processes and supplies excellent quality corneal tissues to numerous corneal surgeons across the country.

Dr Arjun Srirampur
Anand Eye Institute, Hyderabad
LVPEI continues to be a world leader in eye banking services.

A series of eye donation awareness activities were carried out across the network.

LVPEI in partnership with The Hans Foundation is working towards establishing eye banks in Varanasi in Uttar Pradesh, Rishikesh in Uttarakhand and Guwahati in Assam. The aim is to reduce the burden of corneal blindness by making corneas available to the local surgeons for performing corneal transplant surgeries in these States.

The youngest corneal transplant patient this year was a child aged 3 months and the oldest corneal transplant patient was aged 93 years.

Hospital Cornea Retrieval Program extended to 3 new hospitals in Balangir (Odisha), Hindupur (Andhra Pradesh) and Adilabad (Telangana).
McCarey-Kaufman (MK) Medium, cost effective solution is used for storage and preservation of donor corneas at LVPEI. 30,331 vials of MK medium were produced and 30,606 vials supplied to Eye Banks in India and a few outside India.

Amniotic Membranes (AM) for ocular surface reconstructive surgery is also processed in-house. 2829 vials of AM were produced and 2865 AM supplied to surgeons within and outside LVPEI.

Training eye care professionals in eye banking

6 ophthalmologists and 36 other cadres of eye banking personnel from all over India and abroad were provided training in eye banking techniques.

Thank you for reducing the burden of corneal blindness from the world

LVPEI is thankful to the families of its cornea donors and to its partner eye donation centres.

3417 donor corneas were collected from 39 centres that are part of LVPEI’s eye banking affiliates.

ACSR Medical College, Nellore (16); Amrita Nursing Home, Vemulawada (2); Balaji Eye Care Trust, Anantapuramu (3); Basaveswara Teaching & General Hospital, Gulbarga (2); Chiranjeevi Charitable Trust, Hyderabad (86); District Head Quarters Hospital, Karimnagar (168)*; District Hospital (HCRP)*, Hindupur (2); DBCS, Govt General Hospital (HCRP)*, Anantapuramu (392); Gowthami Eye Institute, Rajahmundry (30); DBCS, Regional Eye Hospital (HCRP)*, Kurnool (692); Kalyan Magatapalli Eye Collection Center, Srikakulam (19); Kamineni Institute of Medical Sciences, Narketpally (16); Khammam Eye Bank, Khammam (68); Lions Club of Kamareddy, Kamareddy (4); Lions Club of Cherial, Cherial (2); Lions Club of Godavarikhani Spoorthy (8); Red Cross Eye Bank, Lions Club of Karimnagar Charitable Eye Hospital, Karimnagar (324); Lions Club of Kesamudram, Kesamudram (4); Lions Club of Mahabubabad, Mahabubabad (2); Lions Club of Ramagundam, Ramagundam (34); Lions Club of Suryapet Eye Hospital, Suryapet (22); Lions Club of Thorrur, Thorrur (2); Lions Eye Hospital, Bodhan (66); Mamata Eye Bank, Khammam (2); Modern Eye Hospital, Nellore (99); Modern Eye Hospital & Research Center, Ongole (2); Mullapudi Venkatarayudu Eye Center, Tanuku (16); Pavani Eye Hospital, Jagitial (2); DBCS, Regional Eye Hospital (HCRP)*, Warangal (959); Rajiv Gandhi Institute of Medical Sciences (HCRP)*, Adilabad (2); Sai Jyothi Netradaana Foundation, Adoni (30); Sneha Sewa Samiti, Proddatur (2); Sri Yerra Balaramamurthy Konaseema Eye Bank, Ambajipeta (27); Smt. Rajeswari Ramakrishnan Lions Eye Hospital, Nidadavole (195); Sudarsani Eye Hospital, Guntur (18); SVRR Govt General Hospital (HCRP)*, Tirupati (87); Swapna Nursing Home, Guntakal (12).

Highlighted are top 5 Major Contributors

*RIEB run HCRP Centres
The Academy for Eye Care Education, recognized globally for eye care ophthalmic training, goes that extra mile to bring together the best faculty and the most promising students by providing them with the resources for a great learning experience. ISTART program (Introductory Surgical Training Across Specialties on the Right Track), Scholarly clinic, robust evaluation of clinical training were the complementing steps this year.

The best this year: Bringing together both clinical and non-clinical faculty with allied interest (for cross talk) under a single umbrella of "Scholarly Clinic". This created fertile grounds for promising insights and future research.

Way forward: We would like to experience another adventure by building a different and passionate resource team called "Ophthalmic Educators" among our faculty with the perfect blend of classical education and contemporary skills.

Avinash Pathengay
Director,
Academy for Eye Care Education
The Academy for Eye Care Education, recognized globally for eye care ophthalmic training, goes that extra mile to bring together the best faculty and the most promising students by providing them with the resources for a great learning experience. ISTART program (Introductory Surgical Training Across Specialties on the Right Track), Scholarly clinic, robust evaluation of clinical training were the complementing steps this year.

Others include Eye Banking, Public health and Community eye care, Low vision and vision rehabilitation, Ophthalmic nurse assistants & Vision technicians.

The training encompassed all cadres of eye care professionals in various domains:

- Ophthalmology: 38%
- Optometry: 23%
- Others: 39%

1438
Trained through Continuing Medical Education programs on diverse subjects such as glaucoma implants, ocular oncology, binocular vision and orthoptics, contact lens, low vision management to optical spectacles dispensing, etc.

100
Continuing Professional Development and Technical Skill-Upgradation Programs were also organized for the LVPEI staff.

549
485
64
485 National
64 International
Trained through various long-term and short-term training programs

15
Guest lectures and Endowment lectures were organized.
A major milestone for the Residency Program has been the coveted Basic Surgical ICO Accreditation for Ophthalmic Residency Training by the International Council of Ophthalmology.

(A new residency program has been initiated at Liberia. For more details view page: 50)

The commitment of faculty to the program and to the students continues to remain impressive and their growth as an instructor, administrator, personal mentor and friend to the students is awesome. They have not only educated themselves in the discipline, but have been able to successfully impart that knowledge to educationally challenged students in multiple languages. We loved our time with you and look forward to changing more lives – patients and staff included!”
A state-of-the-art International Ophthalmic Dispensing Resource Centre has been established with support from One Sight Foundation to provide comprehensive training covering all aspects of optical dispensing, edging and customer service including soft skills. A formal agreement has been signed between LVPEI’s Brien Holden Institute of Optometry and Vision Sciences and Brien Holden Vision Institute at Australia to collaborate for a ‘Practical Optical Dispensing Course’ twice a year.

LVPEI is the technical and training partner for the Telangana Kanti Velugu Project a mass eye screening program launched by the Government of Telangana. Under this collaborative initiative, 852 Para-medical Ophthalmic Assistants, 858 Medical Officers and several other ASHA (Accredited Social Health Activist) and ANM (Auxiliary Nurse Midwifery) workers were trained on clinical techniques, preliminary vision screening and protocols.

We had the honour of having the below dignitaries as speakers during the year:

- Dr Jerry Fanhole Brown, Chief Executive Officer, John F Kennedy Medical Center, Monrovia, Liberia
- Dr Miriam Conway, Senior Lecturer, Optometry Department at City University London, London
- Dr Marisa Rodriguez Carmona, Lecturer in Optics in the School of Health Sciences at City University of London, London
- Dr Sonia Guha, Staff Scientist, Jules Stein Eye Institute, University of California, Los Angeles
- Dr Ralph C Eagle Jr., Chief of the Pathology Service, Wills Eye Hospital, and Professor of Ophthalmology and Pathology, Sidney Kimmel Medical College, Philadelphia
- Dr David Nash, Dean, Jefferson College of Population Health
- Prof Ken Nischal, Professor of Ophthalmology, University of Pittsburgh School of Medicine, Philadelphia
- Dr Anil Patel, Consultant Global Health Care & Medical Device, R&D, Seattle
- Professor Ravi Ramamurti, DMSB Distinguished Professor of International Business & Strategy, Harvard Business School, Boston
- Prof Serge Resnikoff, Visiting Professor, University of New South Wales, Australia
- Professor Akhila Bihari Ota, Special Secretary, Director, SCSTRTI and Tribal Advisor to Government of Odisha, Bhubaneswar
- Professor Anup K Ghosh, Department of Materials Science and Engineering, IIT Delhi, Delhi
- Dr Jayaraman Gowrishankar, INSA Senior Scientist, Centre for DNA Fingerprinting and Diagnostics, Hyderabad
- Mr Ashok Kumar, Founder and Director, Bodhi Wellness, Hyderabad
- Dr Rahul Panicker, Chief Innovation Officer, Wadhwani Institute for Artificial Intelligence, Bangalore
- Dr R D Ravindran, Aravind Eye Care System, Madurai
- Dr Richa Verma, Senior Project Officer, IIT-Madras, Chennai
The research arm of LVPEI is engaged in frontline research to unravel eye diseases and vision threatening conditions using the approaches of Cell Biology, Microbiology, Biochemistry, Immunology, Genetics and Genomics, Stem Cell Biology, Material Science and Vision Psychophysics. The overarching aim is to address issues responsible for vision impairment and blindness using the modern tools of biology, chemistry and physics.

The best this year: The Antonio Champalimaud Symposium oration by Prof Reza Dana, Harvard University, Massachusetts Eye and Ear, a world leader in immunobiology of cornea.

Way forward: We hope that with the existing zeal and enthusiasm, BHERC would become the one-stop centre for eye care and ocular research.

S Shivaji  
Director,  
Prof Brien Holden Eye Research Centre
Case study of a 41-year old woman with deteriorating vision since the past 20 years.

She had undergone radial keratotomy with 16 corneal incisions to treat myopia 23 years back.

She received a revised prescription and was educated on the importance of protective eyewear.

At a 6-month follow-up visit, her vision had not deteriorated further.

**Objective:** To communicate to the medical fraternity, the importance of long-term clinical trials in establishing the safety and efficacy of novel surgical techniques.

**Authors:** Sahib Tuteja and Dr Muralidhar Ramappa.

Sahib from the University of Manchester, Manchester Medical School, spent a few days of his 6-week elective, shadowing Dr Muralidhar Ramappa across the cornea clinics and operating rooms, at LVPEI.

**Publication:** New England Journal of Medicine
At the twelfth Antonio Champalimaud Symposium, Professor Reza Dana of Harvard University, USA, delivered the oration lecture on ‘The immunoregulatory mechanisms of the cornea and ocular surface - the known and the unknown’.

Additionally, there were two special lectures by: Prof Antonio Parreira, Clinical Director of the Champalimaud Centre for the Unknown, Lisbon, Portugal on new approaches to win over cancer; and Prof K Srinath Reddy of the Public Health Foundation of India, New Delhi on cardiac diseases and the ways to address and reduce their incidence.

Champalimaud Centre for the Unknown’s cancer program is the most advanced in the world. With the aim to bring new insights and a therapeutic approach to the problem of eye cancer, an MoU was signed with the Champalimaud Foundation. The collaboration will aim to seek innovative and pioneering eye cancer treatment solutions, and also allow for genetic, molecular and cellular analysis.

Dr Leonor Beleza, President, Antonio Champalimaud Foundation signing the MoU along with Prof Antonio Parreira, Clinical Director, Champalimaud Foundation.

New Introduction

Senior Research Fellowship for students with a minimum period of two years research experience and with a minimum of two good papers (at least one as a first author).
The 25th meeting of the Indian Eye Research Group (IERG) - Association for Research in Vision and Ophthalmology (ARVO) India was hosted by LVPEI at Hyderabad. Over 350 delegates and 13 international faculty comprising eye researchers, scientists, clinicians and optometrists attended it.

Dr Justine Smith, Executive Vice President ARVO delivered the Bireswar Chakrabarti oration lecture and Dr Neeru Gupta, Vice President, International Council of Ophthalmology delivered the D Balasubramanian oration lecture.

Poster presentations were made by delegates.

A few like-minded eye researchers from LVPEI, Centre for Cellular and Molecular Biology and National Institute of Nutrition in Hyderabad got together to form an informal research group by the name - Hyderabad Eye Research Group. In the course of time, other eye institutes across the country also joined and the organization was formally launched as the ‘Indian Eye Research Group’ that later in 2011 became an ARVO International Chapter Affiliate (ARVO-India). With a current membership of about 250 individuals, IERG is the biggest association of eye researchers in India, and LVPEI continues to play a very prominent role in it.

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**Research Labs and Focus Areas**

- Champalimaud Translational Centre for Eye Research
- Kallam Anji Reddy Molecular Genetics Laboratory
- Sudhakar and Sreekanth Ravi Stem Cell Biology Laboratory
- Jhaveri Microbiology Centre & Saroja A Rao Immunology Laboratory
- Biochemistry Laboratory
- Ophthalmic Pathology Laboratory
- Clinical Research
- Vision Psychophysics Laboratories
- Allen Foster Community Eye Health Research Centre
- LVPEI Center for Innovation

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- **Received** 56 research grants
- **Basic** 45
- **Clinical** 10
- **Public Health** 1
LVPEI Center for Innovation

LVPEI is all about creating, sharing and practicing new knowledge. For us, innovation is happening at the intersection of engineering, ophthalmology and optometry with an end goal to transform the knowledge into products and services that impact the communities we serve. Our constant endeavour is to ensure that whatever we deliver should meet the 4 ‘A’s - be Appropriate, Available, Accessible and Affordable to the world.

The best this year: Multi-disciplinary teams comprising ophthalmologists, optometrists, engineers, public health specialists and technicians unleashed the power of collaboration and delivered 8 indigenous products to cater to the needs of the LVPEI network and 2 products for the world at large.

Way forward: Scale and deliver more products to prevent needless blindness on the planet.

Ramam Atmakuri
Executive Vice-Chair,
L V Prasad Eye Institute
Five of the modules developed have now become products and are being validated within the network. With these products, LVPEI will be able to provide quality care, including care for geriatric and chronic eye problems, right at the doorsteps of the community even in the most remote rural locations.

**FoFo**, eco-friendly refractive error screening solution, is finding fans all over the world, with orders from Taiwan in the East to Mexico in the West, from England in the North to Sri Lanka in the South.

**Cyclops**, a tablet on slit lamp module, is being effectively used in LVPEI’s 180 Vision centres to take high-quality images ideal for Tele-Ophthalmology.

**Pupil+**, a quantitative screening solution, is being used to quantify and measure pupillary and neurological responses to light stimulus. The product is being well received within the network.

**Order of Magnitude (OM)**, aims to democratize vision assessment and helps in screening populations at scale for 10x less money and 10x faster - as effectively as the current gold standards.
Engineering products developed in-house:

60 new Ophthalmic Products were introduced in the LVPEI network. **10 fold increase in affordability with no compromise on quality.**

1000+ surgeries recorded by the indigenously developed surgical camera and software ‘Universal Image Capturing Software’ to optimize medical imaging. **30 times more affordable than comparable products.**

**BostonSight Lens Manufacturing Lab**
The production of lenses started in February 2018 and since then 1341 lenses have been dispatched to 24 partner hospitals and clinicians in India. Received **100% satisfaction report on quality and quick turnaround time.**

Plans are underway for accreditation by ISO 13485 quality management system.

**Medtech Incubator**
Work in progress to have a Medtech Incubator which will be a state-of-the-art design, knowledge and prototyping centre. This will help in coming up with industry standard medical device and prototypes.

**Thermal Imaging Lab**
Established in collaboration with the University of British Columbia and IIT Hyderabad, and funded by the Government of India and Canada, it will help to:
- Study eye infections and dry eye diseases
- Design affordable diagnostic tools for rural eye care initiatives

**Research work**
The parameters contributing to the outcomes of corneal surgeries are being studied using Finite Element Modeling Technique. This is done by creating simulations which help in analysing the behaviour of the cornea which otherwise is difficult to study.

Developed **machine learning and AI algorithms** for quantification of specific clinical features of various retinal diseases for automated disease screening. This has been carried out on limited datasets and the results are encouraging. Bigger trials will be carried out soon.
Integrates teleophthalmology, machine learning and data analytics seamlessly all in one platform

eyeSmart is an awarding winning in-house developed Electronic Medical Record (EMR) system

Integrated in August 2010 for the first time in the city centre in Hyderabad

By 2017, all the centres of LVPEI right from the vision centres to tertiary and advanced tertiary were digitalized

Installed at the Liberia Eye Center in Monrovia, a first in the region

110,000 patients seen across LVPEI’s 15 customer sites in India and Nigeria

Pilots being explored in 7 more countries

Clocked in 5 million consultations
2.3 million unique patients

Its Data Science (AEye) has led to the publication of the first 1.45 million cohort paper on demographics and risk factors of Dry Eye Disease
Capacity building initiatives focus on providing strategic and technical assistance by standardizing:

- Systems of patient care
- Human resource management
- Financial processes
- Hospital management

Helping partner hospitals in replicating the vision centre model in their own communities, and initiating community eye care programs is another major focus area.

The average capacity of our partner hospitals since our intervention has increased significantly:

- **304%** Outpatients
- **306%** Dispensing spectacles
- **295%** Surgeries

Facilitated opening of **50+ Vision Centres** through our partner hospitals.
Currently LVPEI is supporting 14 hospitals

60 people were trained in various eye care programs, including community eye care and optical dispensing and retail

“Since 2016, thanks to the mentorship support we have received from LVPEI, we have been able to scale up and upgrade our patient care services. We have also initiated many community and school screening programs. Annually through these programs, we are able to examine nearly 20,800 people and 18,000 children. LVPEI supported us technically to start a secondary centre at Jalore - one of the most remote rural locations at Rajasthan. Over 900 cataract surgeries have been performed here in the past two years.

One of our team members did a one-year diploma in eye health management and two of our optometrists received training in optical dispensing and edging. This has proved to be a great asset to our hospital.”

Mr Jagat Pratap Singh, J Watumul Global Hospital & Research Centre, Mount Abu, Rajasthan
LVPEI is actively engaged in policy making, planning and execution of programs for prevention of avoidable blindness and vision impairment. The institute’s vision centre model is emulated the world over for providing primary eye care.

**Universal Eye Health initiatives:** Playing a key role in the implementation of various eye health initiatives by the state government. The important among them:

**Telangana Kanti Velugu Project:** Technical partner for the massive community eye screening program initiated by the Government of Telangana from the period August 2018 to February 2019. 47 vision technicians from LVPEI under the leadership of Dr Srinivas Marmamula screened 920,611 people in and around Hyderabad. Spectacles were prescribed to 204,002 people, spectacles were provided to 125,755 people and 66,718 people were referred for further examination and care.

**Universal Eye Health Programs, Government of Odisha:** Official partner for the National Health Mission – Odisha State Health and Family Welfare department to provide the best quality eye healthcare to children. Between November 2018 to January 2019, 2402 children were screened, 27 children were referred for further care and spectacles were distributed to 143 children. As part of the Government of Odisha Sunetra program which is conceptualized and led by Dr Taraprasad Das, 53 rural, 6 mobile and 7 urban vision clinics have been set-up. 206 ophthalmic assistants have undergone skill upgradation and technical courses for ophthalmic and surgical assistants are ongoing.

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**Team representation:** Important positions in many global level advocacy committees such as:

- World Health Organization
- International Agency for the Prevention of Blindness
- India Vision 2020, the Right to Sight initiative
- Commonwealth Eye Health Consortium
- Universal Eye Health Program – an initiative by the Government of Odisha
- Telangana Kanti Velugu Project
- Ministry of Health’s National ROP (Retinopathy of Prematurity) Task Force

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**WHO workshop on ‘Patient Safety and Improved Treatment Outcomes’** was hosted by LVPEI, coinciding with the IAPB Council of Members General Assembly in 2018.

**Children being examined under a school screening program organized as part of Universal Eye Health Program, Government of Odisha.**
Raising awareness: To create awareness in the general public, a series of activities were organized throughout the network on important 'Weeks' associated with Glaucoma, Children’s Eye Care, World Sight Day and Eye Cancer.

Whitathon Run was an initiative by LVPEI to raise awareness and funds for the treatment of poor children with eye cancer. 1147 treatments for retinoblastoma eye cancer were done free of cost, thanks to the funds raised through Whitathon 2018.

Creating awareness regarding glaucoma and good children’s eye care practices.
Partnership at Liberia going strong

The Liberia Eye Center is the first outside India where LVPEI is directly involved in the overall management.

Clinical Care: Since the Liberia Eye Center was established in 2017 at the John F. Kennedy Medical Center with the support extended by LVPEI, the various sub specialists from the institute are visiting the center on a periodic basis to examine complex cases and perform surgeries. Complex surgeries such as corneal transplant, glaucoma, squint, oculoplasty etc. are now being performed at this centre.

Outpatients
- 8689 Paying
- 5654 Non-paying

Surgery
- 532 Paying
- 564 Non-paying

Community Eye Care Initiatives:
- 55 community outreach programs
- 1589 diagnosed with refractive errors
- 5605 referred for further care
- 18 school screening programs
- 102 diagnosed with refractive errors
- 68 referred for further care
- 98 teachers trained

Establishing a Comprehensive self-sustaining eye health initiative in Liberia

Education and Capacity Building: Efforts are ongoing to train and enhance the skills of eye care professionals across all cadres including ophthalmologists, optometrists, vision technicians and ophthalmic nursing assistants to ensure that going forward they will be able to run the centre independently.

LVPEI launched the Liberian Residency program in Ophthalmology in partnership with the Liberian College of Physicians and Surgeons.

The Liberia Eye Center has received support from Lions Club International Foundation, Operation Eyesight Universal, OneSight, EYElliance and LDS Charities.
These 'Institutes of Excellence' encompass care across the network - from primary to advanced tertiary care, education, research, public health, planning and policy.

Institutes of Excellence at LVPEI

- Tej Kohli Cornea Institute
- Academy for Eye Care Education
- Child Sight Institute
- Institute for Vision Rehabilitation
- Aurobindo Geriatric Eye Care Centre
- Operation Eye Sight Universal Institute for Eye Cancer
- Govindram Seksaria Institute of Dacryology

LVPEI is also relentlessly working towards the establishment of:

- Institute for Regenerative Ophthalmology
- Centre of Excellence in Eye Banking
- Retina Institute
- Glaucoma Institute
Leveraging Solar Energy

Solar water heating systems have been put into use in the hostels at Kismatpur, thereby replacing electricity driven water heaters and addressing the campus’ water heating requirement completely through renewable options.

CO₂ reduction to the tune of 480 tons. By 2020, the plan is to implement solar systems in all secondary, tertiary and advanced centres.

Solar rooftop energy systems are deployed at 9 centres in the LVPEI eye care network.

600,000 units of energy requirement are met through solar energy annually.

Solar water heating systems have been put into use in the hostels at Kismatpur, thereby replacing electricity driven water heaters and addressing the campus’ water heating requirement completely through renewable options.

It is estimated that the investment made on installing solar panels will be recovered within 4 years from the date of installation and for another 15 to 20 years, energy generated through these solar panels will directly help in saving the recurring energy costs.
Most of our campuses use around 30% of the area for buildings and the remaining 70% for plantation and green landscaping.

Stone flooring and fly ash bricks are used for keeping the temperatures down.

Energy saving lights are used and the Air Conditioner temperatures are maintained at minimum 24°C.

The use of air conditioners and additional light requirements is minimized by relying more on natural ventilation.

Rainwater harvest pits are in use in all campuses to recharge ground water.

Use of recycled water from sewerage treatment plants for gardening, toilet flushing, etc.

Biowaste recycling plants have been installed on a pilot basis in larger campuses.

Picturesque scenes from two of our tertiary campuses at Vijayawada and Bhubaneswar.

A snapshot of the series of tweets by Andrew Fleming, British Deputy High Commissioner after his visit to LVPEI.
The 32-year long journey of LVPEI wouldn’t have been possible without the support the Institute received from many of its well-wishers and donors from across the globe. As always, we are humbled by their generosity and extend our sincere thanks to each one of them. Your donations have impacted the lives of 28.48 million people and will continue to make a difference in the lives of many more by ensuring them better vision and an enhanced quality of life.

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Wen Giving Foundation, LVPEI and Mission for Vision are partnering together to improve the reach and spread of primary eye care services. The generous contribution from Wen Giving Foundation will enable the establishment of 20 Vision Centres equipped with 24 trained vision technicians in the state of Odisha. Additionally, a residential facility for Allied Ophthalmic Personnel at LVPEI’s campus in Bhubaneswar, the Mithu Tulsi Chanrai campus, will also be started with their support.

Since the 1960s the Wen family has been actively engaged in various philanthropic initiatives with the aim to improve and promote the wellbeing and quality of life of those who are less fortunate or disadvantaged. Today, under the guidance of Mr Chiu Chi Wen and Mrs Mei Wen, the Foundation has been creating far reaching impact through its various health, education and humanitarian projects spanning over 10 countries in Asia. They support, facilitate and implement projects that lead to both immediate and long-term improvements in needy communities.
Standard Chartered Bank as an international bank strives to ensure that the financial services they provide to individuals, businesses and global institutions, improve livelihoods and provide new economic opportunities to people. As a responsible company that invests in communities, they work towards contributing to sustainable economic growth. Their community engagement programs are focused on health, education, employability and entrepreneurship.

As part of their program ‘Seeing is Believing’ Standard Chartered Bank has partnered with LVPEI to further strengthen the programs implemented by the Institute’s Academy for Eye Care Education. The partnership will focus on training thousands of underprivileged people in a variety of eye care jobs and set up 58 digitally progressive Vision Centres.

Seeing is Believing is the Bank's global flagship community program aimed at preventing avoidable blindness. In India, between 2003 and 2018 they have provided more than 14 million eye care interventions through a network of 125 Vision Centres across 22 states. In 2018, they launched a new project in Northeast India and made a further investment to train and employ 100 underprivileged girls as certified ophthalmic paramedics by 2020. The program embraces and promotes new technological advancements to deliver superior quality service and products.
Prof. Brijen Gupta, was one of the Founders of the LVPEI’s parental founding organisation in Rochester, New York - the ‘Indo-American Eye Care Society’ - and he continued serving the Foundation till the very end. He ran it almost single-handedly, ensuring that the funds that were raised were diligently spent towards the right cause.

He used to teach at the University of Chicago, Columbia and the University of Rochester as Professor of History and Politics. A Godfather for many, he was always there to mentor people in their difficult times. An outstanding orator with a booming voice, he was also a speechwriter to American politicians.

In many ways, Prof. Gupta was the Co-Founder of LVPEI and will always be remembered as one of the Institute’s biggest well-wisher and supporter.

This year, the LVPEI family lost a few other beloved colleagues:

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Develop a robust, high-quality Primary Eye Care network for Andhra Pradesh, Telangana and Odisha (150 million population)
We will continue to work towards

- Realizing the vision of achieving 'Universal Eye Health' by providing high-quality comprehensive eye care encompassing prevention, treatment and rehabilitation

- Providing technical support in the various initiatives launched by the state governments involving large-scale community eye care programs

- Strengthening partnerships at the local, global and intersectoral level to enhance the delivery of care

- Leveraging technology, both for patient care and education

- Developing a more robust primary eye care model closer to the doorsteps of people encouraging community involvement
To find out more about L V Prasad Eye Institute and its programs, services, and facilities, or to find ways to support the institute, please write to us at communications@lvpei.org or visit www.lvpei.org