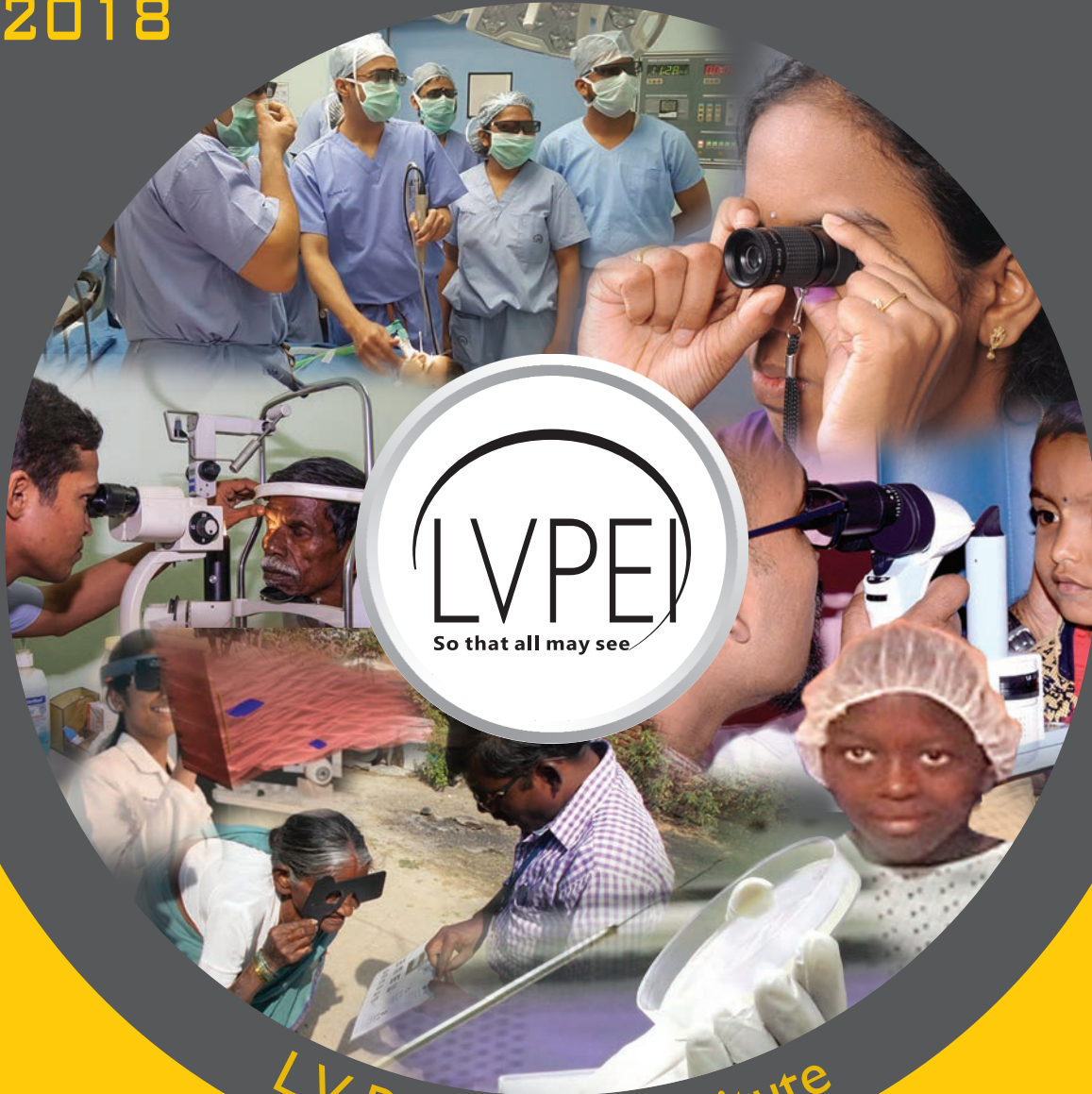


ACTIVITY REPORT 2017 - 2018



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Editors: Dr Sreedevi Yadavalli, Neha Hassija

Design: Y Yedukondalu, N Kishore Kumar, N Ramgopal and C Sreenivasulu

Assistance: Aarti Rawat, Shobha Mocherla and V Mounika

Photography: SBN Chary and Naresh Gattu; Dr Srinivas Marmamula; and LVPEI Archives

Donor Relations: Sam J Balasundaram, Mahaveer Jain and Jacob

Printers: Pragati Offset Pvt. Ltd., Hyderabad



WORKING
TOWARDS
PREVENTING
NEEDLESS
BLINDNESS
AND
VISION
IMPAIRMENT

Clinical Care



Education



Technology
Innovation



Eye Bank



Advocacy,
Policy &
Planning



Rural &
Community
Eye Health



Capacity
Building



Vision
Rehabilitation



Research



Product
Development



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Foreword

Progress Near and Far

Notable progress along diverse functional areas and enhancement of partnerships marked the year 2017-18, while “Institutes of Excellence” and “Primary Eye Care”, the themes from our “Next 25” strategic initiatives, accelerated ahead.

The Tej Kohli Cornea Institute (TKCI), Child Sight Institute and Aurobindo Geriatric Eye Centre continued to expand, with TKCI launching programmes in Myanmar, Cambodia, Oman, Liberia and Mexico. New institutes of excellence launched included Brien Holden Institute of Optometry and Vision Sciences, Institute for Vision Rehabilitation, Centre for Cerebral Visual Impairment in Vijayawada, and Bio-Imaging Laboratory and Centre for Retinitis Pigmentosa and Allied Diseases in Hyderabad.

In primary care, it is heartening to see the Governments of three states committing funds to eye care. In Odisha, Vice-Chair Taraprasad Das has been made Chairman of the Empowered Committee with the

task of creating a “Universal Eye Health Programme”, with funding of Rs 670 crores (about US \$100 million) - indeed a great privilege and opportunity to create an eye health system for over 40 million people. The Governments of Andhra Pradesh and Telangana too have allocated resources, and we are involved in varying degrees in the planning, implementation, training and evaluation of these programmes. Meanwhile within our network, the spread of primary care vision centres continued with almost two new centres added each month.

A new development is the ability to take advanced, tertiary level care closer to rural doorsteps. Advanced surgical procedures such as the latest partial thickness corneal transplants, DMEK (Descemet’s Membrane Endothelial Keratoplasty) are now done at secondary centres. We also adopted emerging technology for rural screening and tele-ophthalmology, improving connectivity across the tiers of our pyramid.

Two large scale children's screening initiatives were funded by US AID and Lavelle Fund of New York, the overall results providing valuable information for better planning of services in the future.

For the first time, we ventured into new geographies by launching a programme in the Republic of Liberia, in response to a call from their President. An eye centre offering high quality comprehensive eye care was inaugurated in the capital city of Monrovia in July, with encouraging results.

Our education academy focused on leveraging technology and tools, and enhancing quality while expanding reach, with special emphasis on comprehensive ophthalmology and residency training, besides capacity building of residency programmes and optometry schools.

More of our clinician faculty is allocating greater time for research, a trend that augurs well for the future. The Institute has always promoted a culture of research, with each faculty member allotted dedicated research time, thus helping build a great track record of peer reviewed publications. We are now working to enhance the quality of publications through expert workshops

on research methodology, manuscript writing and biostatistics. We also had some outstanding scientists visit us, including two Nobel laureates, and forged important partnerships with Harvard Ophthalmology, RIKEN of Japan, and a UK-India programme.

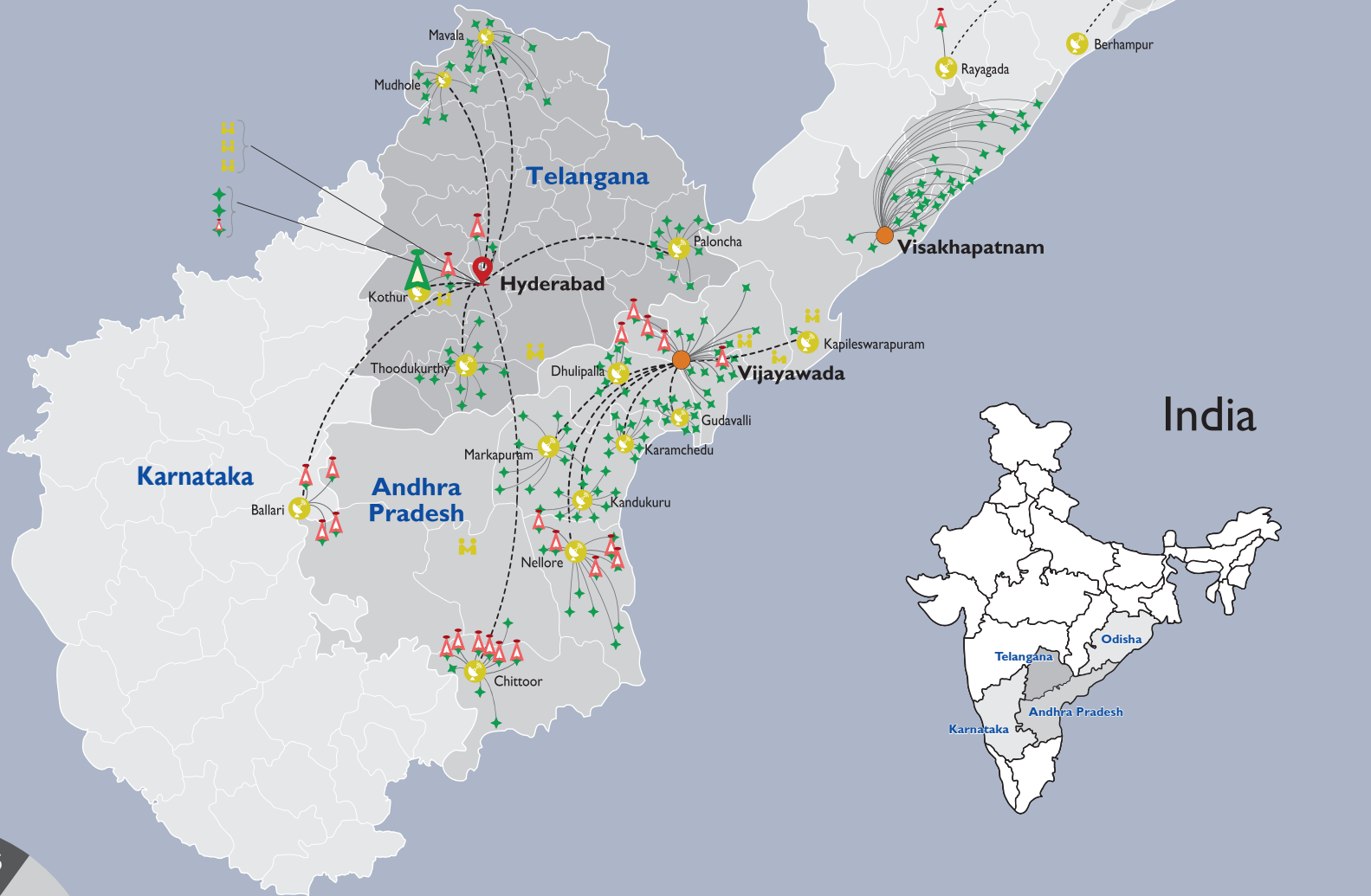
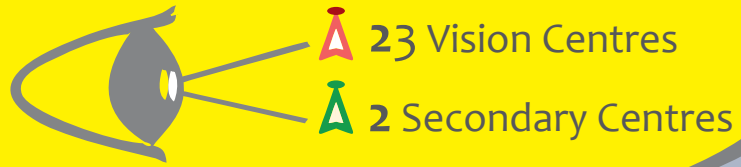
As always, we have had several individuals recognized for their excellence. The Institute was ranked by both the "Times of India" and the "The Week" as the Best Eye Hospital in India. Our "Centre for Technology Innovation" continues to garner recognition. The various awards and honours are listed in the following pages of the report, While we are thrilled with the accolades, we are also conscious of the responsibility that comes with it.

The generosity of our friends continued with two big individual contributions, one of them being the largest single contribution till date. To them, and many others who shared their wealth in various forms, we are indebted. As a friend of ours - a High Court judge - very eloquently said, "You are becoming wealthier day by day. Every morning, millions of people must be showering their blessings on you when they open their eyes. What other form of wealth can equal that!"

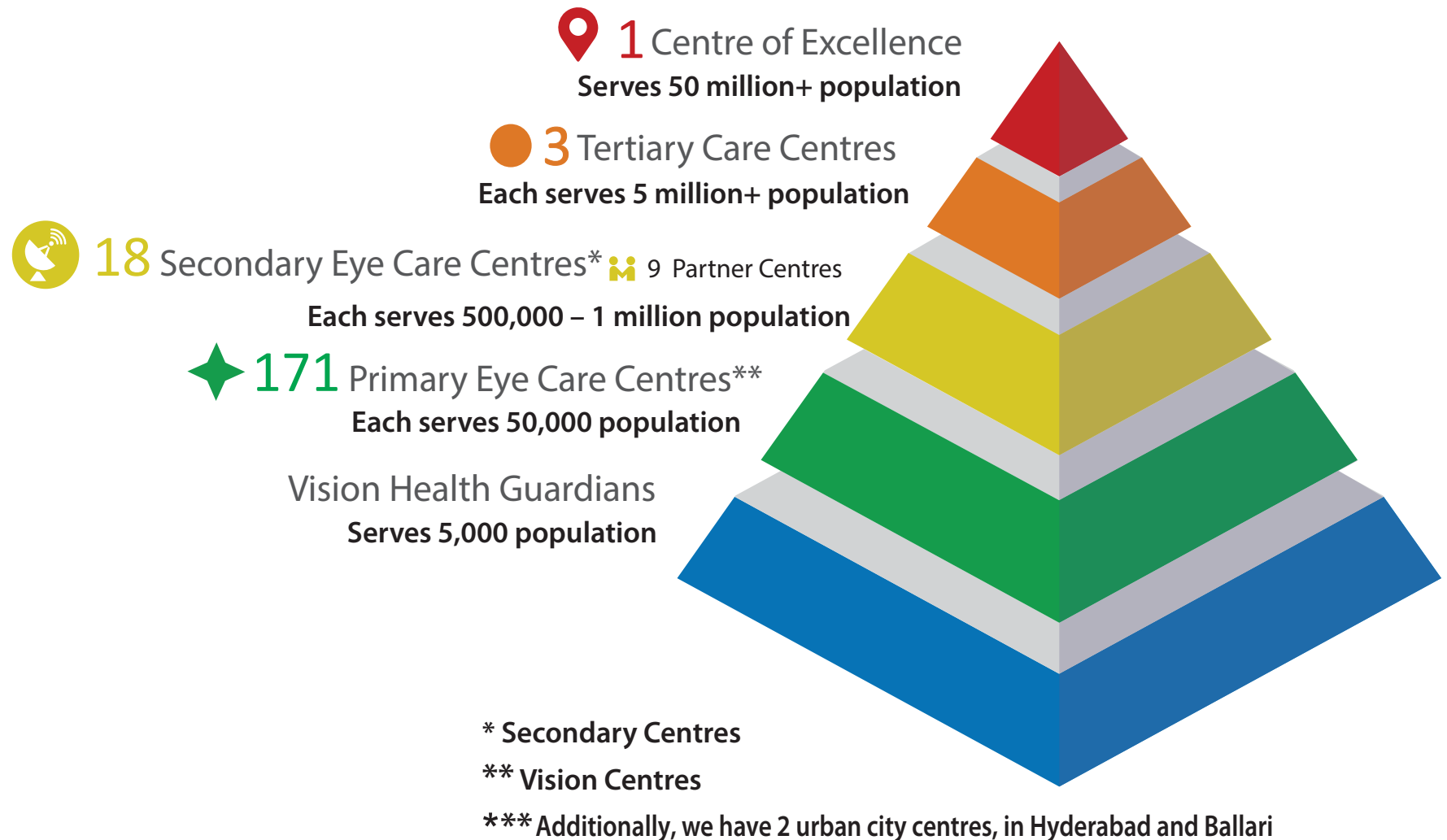


Gullapalli N Rao
Chair, Board of Trustees

New centres inaugurated
April 2017 - March 2018



Total Centres: 195




As of March 2018

Impact


1987 to March 2018

Outpatients treated  **13.16** million

Surgeries performed  **1.37** million


Children reached **3.34** million


Rehabilitated **0.17** million

Villages reached  **9617**

Corneas harvested  **84,297**

Corneas distributed  **46,372**

Innovative stem cell based procedures  **1633**

Eye care professionals trained  **20,046**

Publications **2302**

PhDs awarded  **46**

Patents filed **2**

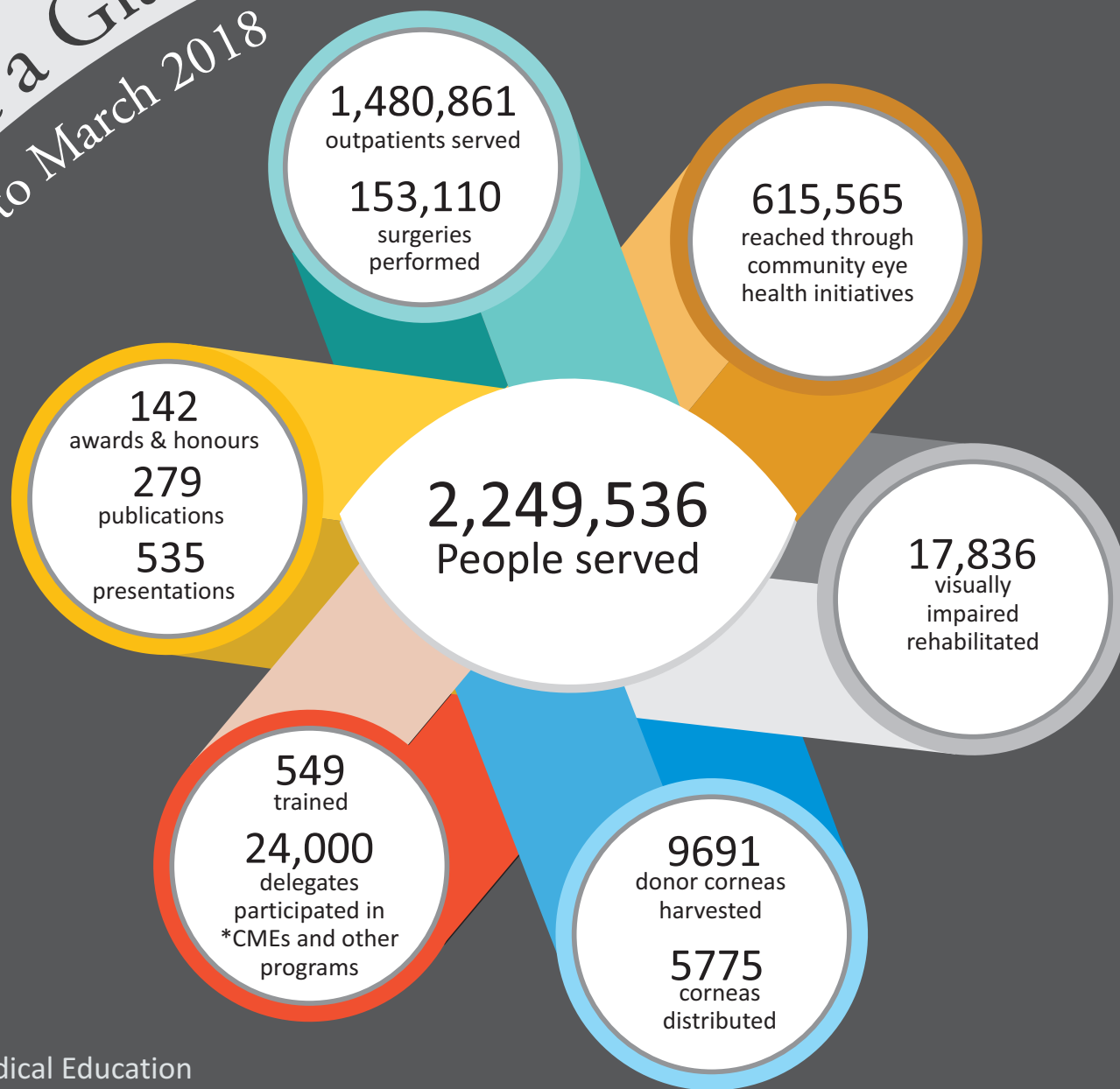
26.04 million
People Served



50%+ services
provided free of cost,
regardless of complexity

The Year at a Glance

April 2017 to March 2018



* Continuing Medical Education

Awards & Honours



FINANCIAL EXPRESS ADVERTORIAL An initiative by 23

Icons of HYDERABAD

L V PRASAD EYE INSTITUTE (LVPEI)

A centre of excellence

Equity, Efficiency and Excellence are at the core of the premier institution's philosophy

LVPEI was established in 1992 at Hyderabad as a not-for-profit, non-government, public sector, comprehensive eye care institution. From its very beginning, it set forth as its core values the "Three E's", namely Equity, Efficiency and Excellence. Equity translates as treating all patients paying for services or not, rich or poor with the same high-quality, no-compromise care. Efficiency translates into using the best available tools and technology translating in savings of research into clinical practice and making or changing as needed. Excellence is an ever-ascending goal that LVPEI attempts to achieve. LVPEI has served over 33.8 million (3 crore 38 lakh) people, over 50% of them entirely free of cost, irrespective of the complexity of care needed.

ACTIVE AREAS OF LVPEI

LVPEI has been active across the full range of eye care services, namely:

- Clinical Services
- Education
- Research
- Vision Rehabilitation
- Cultural and Community Eye Health
- Eye Banking
- Advocacy and Policy Planning
- Capacity Building

INNOVATION

• Product Development

LVPEI NETWORK

LVPEI currently has on September 2017 has 155 Vision Centres (Primary Eye Care Centres) that provide primary care in the districts and villages of Andhra Pradesh, Telangana, Odisha and Karnataka. These are linked to 15 Secondary Eye Care Centres, which are in turn linked to 3 Tertiary Eye Care Centres in Visakhapatnam, Vijayawada and Bhuvanagiri. LVPEI's Centre of Excellence in Hyderabad is at the apex of the Eye Care Pyramid.

Times of India and The Week magazine rank LVPEI as the Best Ophthalmology Hospital in India

Best speciality hospitals	
OPHTHALMOLOGY	
Rank 2017	
L.V. Prasad Eye Institute, Hyderabad	1
Sankara Nethralaya, Chennai	2
All India Institute of Medical Sciences, Delhi	3
Aravind Eye Hospital, Madurai	4
Dr Rajendra Prasad Centre for Ophthalmic Sciences, Lucknow	5
Aditya Jyot Eye Hospital, Mumbai	6
Aravind Eye Hospital, Coimbatore	7
Postgraduate Institute of Medical Education and Research, Chandigarh	8
Narayana Nethralaya, Bengaluru	9
Dr Agarwal's Eye Hospital, Chennai	10
Christian Medical College, Vellore	11
Centre For Sight, Delhi	12

TIMES HEALTH	
ALL INDIA LIFESTYLE HOSPITAL & CLINIC RANKING SURVEY 2017	
OPHTHALMOLOGY NATIONAL RANKING	
Name	Rank
L V Prasad Eye Institute, Hyderabad	1
Sankara Nethralaya, Chennai	2
Narayana Nethralaya, Bangalore	3
Dr. Agarwal Eye Hospital, Chennai	4
Aravind Eye Hospital, Madurai	5
Apollo Hospitals, Bangalore	6
Apollo Hospitals, Hyderabad	7
Billroth Hospital, Chennai	8
Ganga Hospital, Coimbatore	9
Nethradhama Superspecialty Eye Hospital, Bangalore	10
CITY HOSPITAL RANKING - HYDERABAD	
Name	Rank
L V Prasad Eye Institute	1
Apollo Hospitals	2
Win Vision Eye Hospitals	3
KIMS Hospitals	4
Continental Hospitals	5
Challa Eye Care Center	6
CARE Hospitals	7
Yashoda Hospitals	8
Swarup Eye Centre	9

- Bajaj Service Excellence Award
- Indywood Medical Excellence Awards in the category of “Best Initiative for Eye Care”
- Organization of Pharmaceutical Producers of India Health Access Award
- Federation of Indian Chambers of Commerce and Industry - R&D Award
- State Formation Day Award, Government of Telangana
- Institute for Vision Rehabilitation: Project of the Year, Project Management Institute India Awards
- LVPEI Center for Innovation wins the following accolades: (a) Bull’s Eye Dropper - for self instillation of eye drops, in Five Top Ideas transforming healthcare, BioAsia Conference (b) Best Innovative Idea award, Govt of Telangana State, Department of IT, Electronics and Communication (c) Pediatric Perimeter received Public Action Grant, Association for Research in Vision and Ophthalmology (d) Fittle, the world’s first 3D Braille printed puzzle, won a Bronze at the Eurobest awards in Healthcare category



Hitesh Agarwal

- Best poster, Uveitis Society of India

Mohammad Javed Ali

- Honoured by naming a Gold medal after his name ‘Dr Javed Ali Gold Medal’ which will be given annually for the best surgical video by Society for Clinical and Experimental Hypnosis Endoscopy Congress
- All India Ophthalmological Society - Indian Journal of Ophthalmology Silver Award

Ramam Atmakuri

- Technology Member Advisory Group, Global Project Management Institute

Deepak Kumar Bagga

- Travel fellowship to attend Vision 2017, International Society for Low Vision Research and Rehabilitation

D Balasubramanian

- 25th Anniversary Kothari Memorial Oration, Ministry of Defence, India

Soumyava Basu

- Section Editor, Uvea and Inflammation, Indian Journal of Ophthalmology

Sayan Basu

- Editorial Board, Indian Journal of Ophthalmology
- Steering Committee, International KPro Study Group

Shrikant Bharadwaj

- Section Editor, Optometry and Visual Sciences, Indian Journal of Ophthalmology

Jay Kumar Chhablani

- Winner global video contest, American Academy of Ophthalmology
- Associate Editor, Acta Ophthalmologica

Preeti Patil Chhablani

- Associate Editor, BMC Ophthalmology

Subhabrata Chakrabarti

- Special honour, global research training initiative and reappointed, global mentorship program, Association for Research in Vision and Ophthalmology
- Special Recognition, World Glaucoma Association

Goura Chattannavar

- 3rd rank in Erudio quiz, Academic achievers award

Sai Naga Sri Harsha Ch

- Young Innovator, second prize, InnoHEALTH conference

Anthony Vipin Das

- Chevening science and innovation leadership fellowship, UK Govt-Rolls Royce

Sujata Das

- Lead Co-Convener, CII-Health Care and Life Science Panel, Odisha

Taraprasad Das

- YasuoTano Lecture, Asia Pacific Vitreo Retinal Society
- Chairman, Universal Eye Health Program Empowered Committee, Govt of Odisha

Vivek Pravin Dave

- Associate Editor, BMC Ophthalmology

Tarjani Vivek Dave

- Winner P Ramchander competitive free paper session, Telangana Ophthalmic Society

Rohit Dhakal

- Best scientific presentation poster, Dr EV Memorial Scientific Session, Sankara Nethralaya

Sourav Datta

- Research training fellowship, Wellcome Trust-DBT India Alliance

Anasua Ganguly

- (a) Best physical poster award in oculoplasty (b) first prize in FDC Pixel AIOS quiz, All India Ophthalmological Society

Prashant Garg

- Rustom Ranji Oration Medal, Telangana Ophthalmic Society

Chandra Sekhar Garudadri

- Special recognition, World Glaucoma Association
- Dr S S Grewal Oration, North Zone Ophthalmological Society

Naresh Gattu

- Three honourable mentions for pictures, ACRS-ASOA Symposium & Congress

Vijaya Gothwal

- Diplomat in Low Vision (Research stream), American Academy of Optometry
- Travel grant to attend Vision 2017, International Society for Low Vision Research and Rehabilitation

Arushi Gupta

- Winner, N Subramanya Reddy competitive free paper, Telangana Ophthalmic Society

Srinivas G

- Pixoto Rising Star Picture Award

Shahna Shahul Hameed

- Travel fellowship, Association for Research in Vision and Ophthalmology

Subhadra Jalali

- Pabitra Basari Memorial award, Association of Community Ophthalmologists of India
- Prof T Gopinathan Menon gold medal oration, Cochin Ophthalmic Club

Joveeta Joseph

- Assistant Editor, Microbiology, Indian Journal of Ophthalmology

Meha Kabra

- Developing country eye researcher travel fellowship, Association for Research in Vision and Ophthalmology

Swathi Kaliki

- Achievement award, Asia-Pacific Academy of Ophthalmology
- Gold award, All India Ophthalmological Society - Indian

Inderjeet Kaur

- Associate Editor, Journal of Genetics, Indian Academy of

Sciences

- Assistant Editor, Molecular Biology and Genetics, Indian Journal of Ophthalmology

Ramesh Kekunnaya

- Achievement award, Asia-Pacific Academy of Ophthalmology
- Local host President, 4th World Congress of Pediatric Ophthalmology and Strabismus conference

Abhinav Reddy Kethiri

- Best oral presentation award and travel grant, Indian Eye Research Group - Association for Research in Vision and Ophthalmology - India

Rohit Khanna

- Section Editor, Community Ophthalmology section, Indian Journal of Ophthalmology
- Associate Editor, Cataract and refractive surgery, editorial board, BMC Ophthalmology

Rashmi Krishnamurthy

- Best paper, Glaucoma Society of India
- Journal of Ophthalmology

Anil K Mandal

- Winner, Swarup video session, Telangana Ophthalmic Society

Ashik Mohamed

- PhD in Vision Science, University of New South Wales, Sydney
- Member, Association for Research in Vision and Ophthalmology, Global Members Committee

Bhavatharini M

- Winner, Manoj Mathur competitive poster session, Telangana Ophthalmic Society
- Best paper, Keracon, Cornea Society of India

Indumathi Mariappan

- Member, Task Force Committee on Stem Cell Research & Regenerative Medicine, Dept of Biotechnology, Govt of India

Milind Naik

- Best Poster, European Society of Ophthalmic Plastic & Reconstructive Surgery

Raja Narayanan

- Member, Macula Society

Ajay Nath

- 100 Top HR Minds in India Award 2018 instituted by the World HRD Congress

Tapas Ranjan Padhi

- Third prize in free paper category, World ROP Congress
- Mentor, ROP program Nigeria under ROP NET, London School of Hygiene & Tropical Medicine

Bhavik Panchal

- Paper presentation travel grant by Science and Engineering Research Board, Asia Pacific Academy of Ophthalmology

Niranjan Pehere

- (a) Best poster in Pediatric Ophthalmology section (b) E T Selvam award for the best poster presentation, All India Ophthalmological Society
- Editorial board, Indian Journal of Ophthalmology

Gullapalli N Rao

- Admitted into Order of Star of Africa, with grade of Commander, for exceptional performance and contributions to Liberia
- Lifetime Achievement award, Cornea Society of India

Vishal Ramesh Raval

- Honor award, American Society of Retina Specialists

GS Ramani

- Travel grant, World Glaucoma Association

Sanhita Roy

- Member, Editorial Board, Reactive Oxygen Species Journal

Virender Sachdeva

- Clinical Research Fellowship in Neuro-ophthalmology, Emory Eye Center, Atlanta

Sirisha Senthil

- Second prize, video, World Glaucoma Association

Sujata Sharma

- Best poster, World Congress of Paediatric Ophthalmology and Strabismus

Savitri Sharma

- Achievement award, Asia-Pacific Academy of Ophthalmology
- Board Member and Secretary, Ocular Microbiology and Immunology Group, USA

MD Idris Shareef

- Prof Clifton Schor certificate and prize for academic excellence (binocular vision course)
- Mrs. PG Nagalakshmi certificate and prize for academic excellence (clinical internship)

S Shivaji

- E K Janaki Ammal national award for Microbial Taxonomy, Ministry of Environment and Forests, Government of India
- Dr Subhas Mukherjee award for contributions in the area of reproductive biology, Association of Clinical Embryologists of India

Sachin Shukla

- Postdoctoral fellowship, Science and Engineering Research Board, Govt. of India & Indo-US Science and Technology Forum

Arshi Singh

- Two awards in the free paper category (a) Dr R C Meher award (b) Prof BNR Subudhi award (post graduates and residents), Odisha State Ophthalmology Society

Vivek Singh

- Young scientist award, Society of Biological Chemists, School of Life Sciences, Jawaharlal Nehru University
- Global challenge research fund to attend Indo-UK Grant Application Planning Workshop on Infectious Diseases

Mukesh Taneja

- Best poster, Keracon, Cornea Society of India
- Best poster, All India Ophthalmology Society

Mudit Tyagi

- Rhett Buckler Award for best video, American Society of Retina Specialists

Pravin Krishna Vaddavalli

- 7th Marahakim award Lecture, Conjoint Ophthalmology Symposium, Kuala Lumpur

Pavan Verkicharla

- Committee Member, International Myopia Institute

Kiran Kumar Vupparaboina

- India Travel Award, Association for Research in Vision and Ophthalmology

Vivek Warkad

- Rashtriya Bal Swasthya Karyakram award, National Health Mission, Govt of Odisha

■ International Awards

■ National Awards

Proud Moment for LVPEI Family

Dr Gullapalli N Rao was inducted into the 'Ophthalmology Hall of Fame' instituted by the American Society of Cataract and Refractive Surgery (ASCRS) at Los Angeles on 6 May 2017. Dr Virender Sangwan presented the glass obelisk to him.



ndia.com/newscroll/odisha-govt-forms-empowered-committee-to-reduce-blindness/1132431

Outlook

THE NEWS SCROLL

26 AUGUST 2017 Last Updated at 3:05 PM

Odisha govt forms empowered committee to reduce blindness

The panel, is represented by ophthalmologists from state-run medical colleges and experts from private eye hospitals. The panel will guide the state government to operationalise the universal eye care programme through building a cadre of skilled medical and paramedical workforce.



Bhubaneswar, Aug 26 In an effort to develop a roadmap to reduce 25 per cent of curable blindness by 2022, **Odisha government** has formed an empowered committee led by **LV Prasad Eye Institute's Dr Tara Prasad Das** as Chairman.

The committee will have 16-member and recommend standards to implement, monitor and provide oversight for seamless implementation of universal eye care programme.

Under the programme announced by Chief Minister **Naveen Patnaik** recently, the **state government** has set a target to achieve 25 per cent reduction in treatable/curable blindness by 2022, a notification issued by the health and family welfare department said.

The panel, is represented by ophthalmologists from state-run medical colleges and experts from private eye hospitals. The panel will guide the state government to operationalise the universal eye care programme through building a cadre of skilled medical and paramedical workforce.



Kallam Anji Reddy Campus

It is less than 3 years since we moved into the Velamati Sowbhagyvathamma Building for our patient care services, with the help of the generous support that we received from our various donors. With this, we expanded our physical facility by 150 percent, and witnessed an increase of 36% in our outpatient volumes and 22% in surgeries.

'Togetherness' is one of our core values and the behavior that defines this value is 'we are all together as one **so that all may see**'. Towards this goal the team of our doctors dedicated their time to work in our 18 Secondary Centres. This not only helped in increasing the capacity of the teams at the centres, but also made tertiary and advanced tertiary care available at the

doorsteps of the patients in these remote rural areas.

Our Chairman often brings up the differentiating factor between a Hospital and an Institute. The difference being that an Institute is also responsible for creating, practicing and disseminating new knowledge. Yet again, our team of doctors lived up to that expectation by authoring 242 research papers and also reaching out to 2400 trainees through our continuing education programs.

As we step into the new financial year, we rededicate ourselves to our values of excellence, equity, togetherness, and to work towards patient first with integrity, so that nobody goes needlessly blind.

G Chandra Sekhar

Vice Chair,

Director,

Kallam Anji Reddy Campus, Hyderabad

Highlights



The **millionth paying patient** was seen at LVPEI's flagship Hyderabad campus on 5 September 2017. The patient is a farmer by profession, and hails from a remote village in West Bengal.

Initiation of new services:

- **Centre for Retinitis Pigmentosa and Allied Diseases (C-REPID)**, supported by Sri Nataraja Foundation, Chennai.
- **Bio-Imaging Laboratory**, supported by Cognizant Foundation.
- **Emergency ambulance service**, supported by Deccan Cements Limited.

An eponymous **Chair of Contact Lens** was created in honour of **Prof Deborah Sweeney**, Associate Provost for Research at the Western Sydney University in Australia.

A **delegation** of researchers from the **University of New South Wales**, Australia visited to explore multi-disciplinary collaborations.

The **Jasti V Ramanamma Children's Eye Care Centre** celebrated its **20th anniversary** in December 2017.





Mithu Tulsi Chanrai Campus

We witnessed a significant growth in our patient volumes this year – 11% increase in outpatients and 17% increase in surgeries performed. For the benefit of our economically disadvantaged patients, with support from the Infosys Foundation, 'Ashray', a facility to provide accommodation to patients for overnight stay was inaugurated. To provide advanced pathology services, Aperio Digital Pathology was initiated as part of the Ocular Pathology Services.

Suryasnata Rath's project to develop an innovative device to provide minimally invasive, cost-effective treatment for chronic dacryocystitis, has been recommended for the Biotechnology Innovation Grant at the Biotechnology Industry Research Assistance Council. Other members of the team also won research grants in collaboration with the

Department of Physics, IIT, Bhubaneswar, with the Kalinga Institute of Biotechnology (KIIT) as the bio-incubator.

The Government of Odisha has recognized MTC Campus as a resource centre for the treatment of congenital cataract and retinopathy of prematurity. The first CII (Confederation of Indian Industry) Odisha Healthcare and Life Sciences panel meeting was hosted by LVPEI Bhubaneswar where representatives from various city based hospitals discussed issues pertaining to the health care delivery system in the city and the need to have a common platform to unite all the health care institutes in Odisha.

As we step into yet another promising year, we are confident that with the fantastic team that we have, we will continue to scale newer heights.

Sujata Das
Campus Director,
Mithu Tulsi Chanrai Campus

Highlights

The first CII (Confederation of Indian Industry) Odisha Healthcare and Life Sciences panel meeting was hosted by LVPEI Bhubaneswar, where representatives from various city based hospitals discussed issues pertaining to the health care delivery system in the city and the need to have a common platform to unite the health care institutes in Odisha.

Ashray, a 17 bedded night-stay facility for non-paying patients, supported by Infosys Foundation, was inaugurated.

Dr Sivakumar R Rathinam of Aravind Eye Hospital, Madurai visited and delivered the 8th C S Bhaskaran Lecture. Prof G V S Murthy, Director, Indian Institute of Public Health, Hyderabad delivered the Bijayananda Patanaik Memorial Lecture.





GMR Varalakshmi Campus

Once again, LVPEI GMR Varalakshmi campus witnessed an eventful year with the inauguration of the new operation theatre complex, a part of the Aurobindo Geriatric Eye Care centre, on July 7, 2017. We welcomed four new faculty, Dr Sayali Sane and Dr Siddharth Yadav in the Cornea and Anterior Segment service, Dr Bhavik Panchal in the Vitreo-retina service and Dr Sanket Deshmuk in the Glaucoma service. Their contributions have added significantly to the patient care, education and research components. Our team now comprises of almost 200 staff members. This year, we saw over 115,000 patients in the outpatient department and operated over 12,000. In order to enrich

our patient experience, we established two elegant examination rooms for the Sight Saver patients and a magical waiting area and examination rooms for children. Several educational programs, aimed at enhancing the skills and knowledge of our ophthalmology fellows from across the network, were conducted at GMRV campus and were well appreciated by all the attendees. In addition, to increase the awareness in the society at large, we were involved in spreading the message about childhood blindness, glaucoma and corneal donation. The new year promises to be just as exciting and fun-filled as the previous one.

Merle Fernandes

Director,

G M R Varalakshmi Campus, Visakhapatnam

Highlights



The **Aurobindo Geriatric Surgical Centre** was inaugurated during the 11th anniversary celebrations of the campus, 7 July 2017, by Dr Kambhampati Hari Babu, Member of Parliament and Sri K Nityananda Reddy, Vice-Chairman, Aurobindo Pharma Limited.

Eye care awareness talks were organized by the team for students of different schools in Visakhapatnam.

A **special eye screening program** was organized for the children of SOS village centres located at Bheemunipatnam and Pedda Waltair in Visakhapatnam.





Kode Venkatadri Chowdary Campus

The Kode Venkatadri Chowdary campus is in its 7th year of operations and celebrated its anniversary on 16 February 2018. While writing this foreword, I would like to make a special mention of a couple - Edward Hickman Brown and Soona Brown. The couple supported the creation of the David Brown Children's Eye Care Centre at our campus. They not only helped in setting up the centre, but also made it a point to visit the centre every year to spend time and motivate the team. Edward left this world in 2017, but has left behind lots of fond memories for us to cherish. He will continue to guide us in our journey ahead. On behalf of our entire organization, I will like to pay our tribute to him through this foreword.

As is typical of any growing organization, we undertook several new initiatives last year. I will like to draw your attention to two of these: the inauguration of the Centre for Cortical Visual Impairment and the creation of a state-of-the-art Eye Bank facility. Additionally, to cater to the increasing number of outpatients at the campus, four new examination rooms were added to the existing infrastructure. Highlights for the year were the setting up of the most modern laser refractive surgery unit, enhanced care for retinoblastoma patients and upgrading the ophthalmology service. Aligned to our value of excellence with equity, these new initiatives and infrastructural upgradation will help us cater to more people in need of eye care, and provide them with a "wow" experience.

Prashant Garg
Director,

Kode Venkatadri Chowdary Campus, Vijayawada

Highlights

The **Centre for Cerebral Visual Impairment** was formally launched at LVPEI's KVC campus at Vijayawada on 13 October 2017. This centre is one of its kind in the country, and provides interdisciplinary care to children with brain damage in accordance with their overall development including vision, motor, sensory and auditory development. It has been supported by Mr Subbarao Chalavadi from the USA who gifted this to his parents Mrs and Mr Chalavadi Krishnamurthy, on the occasion of their 50th wedding anniversary.

Upgrading infrastructure and introducing new services:

- 1 new clinic and 4 additional examination rooms have been added
- ERG equipment for retina and neuro-ophthalmology diagnosis
- Fully equipped retinoblastoma treatment
- Fully equipped ocularistry set-up with a full time ocularist, for the first time in Andhra Pradesh
- Complex maxillofacial surgery in collaboration with max-fax surgeon
- Orbital decompression surgery for thyroid eye disease





Patient Care Services

‘Expansion’ was the highlight of patient care this year. Following the addition of new facilities at Hyderabad, we increased our physical capacity by at least 25% in all three tertiary care centres at Bhubaneswar, Visakhapatnam and Vijayawada. The expansion has helped us cater to additional patient volumes, without compromising on the quality of care. The expansion did not stop with the cities. We added 23 Vision Centres in villages and 2 Secondary Centres in small towns. The institute now operates through 195 locations (171 Vision Centres, 18 Secondary Centres, 2 City Centres, 3 Tertiary Centres and 1 Centre of Excellence).

With these facilities spread over 4 states - Telangana, Andhra Pradesh, Odisha and Karnataka, we touch the lives of over 1.48 million people who trust us with their eye

care needs. We are proud that close to 50% of our outpatient care, and a quarter of our surgeries, are done in villages and small towns of these states. Additionally, through our visiting specialty faculty, our services have spread beyond cataract surgery and refractive error correction.

But the most noteworthy of our expansion was the introduction of our eye health system in another continent and country - Liberia in West Africa. A few years ago we had agreed to help the Government of Liberia. After an initial delay because of unexpected calamity, we succeeded in putting together a system and practice of quality and equitable eye care in this nation. We are certain that this collaboration will usher in a new standard of eye care in Africa.

A handwritten signature in black ink, reading 'Taraprasad Das'.

Taraprasad Das
*Vice Chair,
Patient Care Policy*





 population reached
2,249,536





 outpatients
1,480,861


 surgeries
153,110


 reached through
 community eye care
615,565

Eye Care Services *across the network*


 services provided at
 no cost to the patient
63%


 female
46%

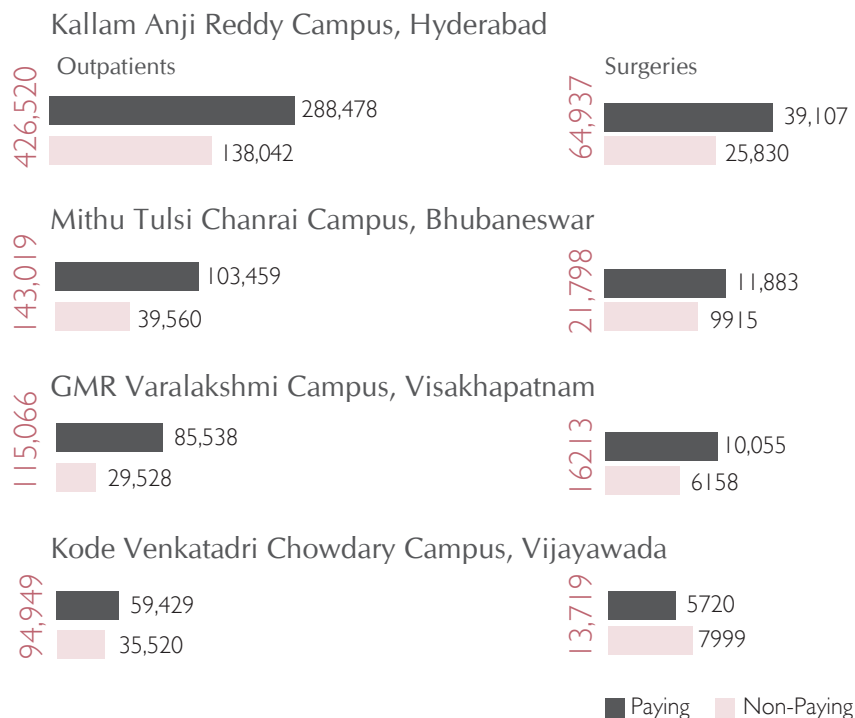

 children
14%

Centre of Excellence Tertiary Centres

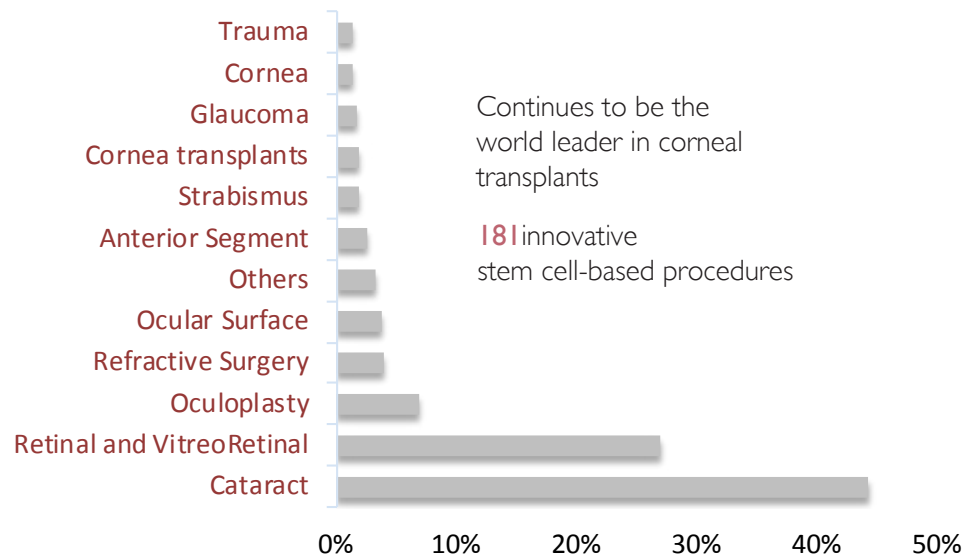
779,554 outpatients

116,667 surgeries

2618
international
patients



Analysis of Surgical Procedures



577,675
children reached

78%
provided services at no
cost to them

193,688
outpatients

19,940
surgeries

364,047
reached through children's
eye health initiatives

Refer pages
Vision rehabilitation data - 29
Rural eye health data - 33
Liberia eye health initiative - 52



ROP

Retinopathy of Prematurity

screened	identified
6840	1950

laser sessions	surgeries
604	391

(604 eyes operated;
early stage)

(391 eyes operated,
injections included;
advanced stage)



Vision Rehabilitation

It was heartening to see the year unfold with a lot of accomplishments and success stories of clients rehabilitated at the Institute. We reached out to 17,836 people and provided them with low vision and rehabilitation services, thus enabling them to live a life of dignity and independence.

We constantly strive to facilitate inclusive work opportunities for our clients, and this year 36 people in various sectors such as banking, IT, service, etc were provided gainful employment. 32 people were rehabilitated through self employment opportunities such as petty shops, cattle rearing, etc in the rural communities. At both regional and national level, various advocacy initiatives are part of our ongoing efforts to reach out to marginalised people

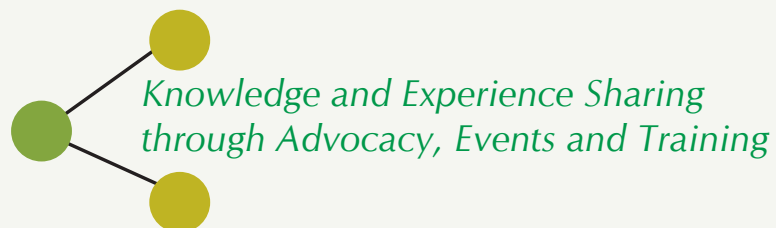
and children with visual impairment, and to enable them to exercise their rights freely.

Community outreach activities are a key component of our service delivery model and currently these services have been integrated in 16 of the LVPEI's secondary centres, thus enabling their reach right at the doorstep of the community. Over 1700 people have benefited from these services.

The accomplishments of the year are a reflection of the dedicated efforts put in by the team. As we embrace yet another year full of opportunities, we are geared up to scale new heights, to touch more lives, and to enable them to achieve their full potential.

A handwritten signature in black ink that reads "Beula Christy". The script is fluid and cursive.

Beula Christy
Head of Services
Institute for Vision Rehabilitation



A series of programs and training sessions were carried out for the clients and their family members.

Parent Support Forums: Empower parents and caregivers to provide a nurturing environment to their wards.



12 programs **925** beneficiaries

Adult Rehabilitation workshops: Provide training in mobility and orientation, independent life skills such as cooking, financial and computer literacy, technology, etc.



96 workshops **768** beneficiaries

Integrated fun and summer camps: Provide an interactive platform to people with visual impairment and their family members to socialize and learn.



5 programs **740** beneficiaries

Assistive Technology workshop: Training on the latest assistive technological devices and softwares available for people and children with low vision and vision loss.

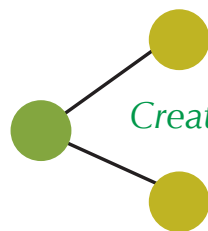


3 workshops **198** beneficiaries

Program for children with special needs: Assessments in the areas of speech, vision, cognitive and sensory motor skills are done and interventions planned accordingly for children.



4 programs **140** beneficiaries



Creating a strong work force of rehabilitation personnel

A major obstacle in providing quality low vision care, especially in the developing countries such as India, is the absence of a trained workforce of rehabilitation personnel. A series of specialized training programs were organized for rehabilitation specialists, including community workers. Additionally, training and awareness programs were also organized for various stakeholders involved in the education of children with special needs.

Types of training	Training programs	Beneficiaries
Low vision Awareness Program (LAP) for eye care professionals	2	70
National seminar on Community-Based Rehabilitation for eye care managers	1	75
Community-Field Assistant training program	4	78
School teachers' training program on classroom management for special needs children	1	120



*Our Volunteers,
our support system*

The gamut of activities carried out at the Institute would have been impossible without the dedicated efforts of our volunteers who have contributed in terms of their Time, Talent and Treasure. Our volunteers are from different age groups and various walks of life.



The Award Winning Community Based Rehabilitation Project at Adilabad

The first of its kind project, that integrated low vision and rehabilitation services for the early intervention group of children through community based rehabilitation in the district of Adilabad, Telangana, funded by Sight First - Lions Clubs International Foundation, received the prestigious Project Management India (PMI – India) award for the year 2017. 1733 people with incurable blindness were provided rehabilitation that included early intervention for children with multiple disabilities. The three year-long project covered a total population of 900,000 people.



Impact

17,836
rehabilitated



16,134

availed low
vision and vision
rehabilitation
services

7230

New clients

10,606

Follow up
clients

1702

benefited from
community
outreach
services

682

Community
based

1020

Centre based

1111 benefited from the
low vision and other assistive
devices prescribed to them

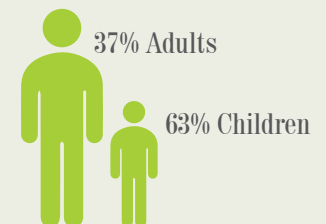
3595 clients supported
through early intervention
services

4924 clients provided skill
based training

3365 people who availed
the service of HelpLine for the
visually impaired

36 provided gainful
employment

32 provided with self
employment opportunities





Rural and Community Eye Health

For the last 20 years, we have been reaching out to communities, most often the neglected and the unreached, and are making quality eye care accessible and affordable to them. Additionally, systematic research for the improvement and advancement of eye health care services is an ongoing endeavour.

The year witnessed the expansion of LVPEI's eye care network, with 2 Secondary and 23 Vision Centres. The program of developing robust 'primary eye health' in the states of Andhra Pradesh, Telangana and Odisha is one of our major strategic thrusts and we are happy to report that we are progressing rapidly on this.

Through our rural eye care network, comprising 18 secondary and 171 Vision Centres, and our various community screening programs, we were able to

directly impact the lives of over a million people and their families, who otherwise would have been unidentified victims of visual impairment. Deployment of technology through tele-consultations and teleophthalmology has enabled us to make quality eye care more accessible for the community.

Complemented by dynamic governance, motivated teams, sophisticated technology and the right people at the right place, we have evolved into an efficient eye health care service delivery component of LVPEI. We are always indebted to all our donors and institutions spread across the globe for giving their infinite support to make this possible. As we step into yet another promising year, we are driven by our manifesto of ensuring that nobody is denied eye care and everybody is empowered to enjoy their right to sight.

A handwritten signature in black ink, appearing to read 'Rohit C Khanna', with a long horizontal line extending from the end of the signature.

Dr Rohit C Khanna

Director,

Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care

Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care (GPR ICARE)

Inaugurations



Natco Eye Centre

Kothur, Ranga Reddy, Telangana

The centre is supported by Natco Trust.

2 Secondary Centres

17th Secondary Centre

18th Secondary Centre

Pabitrদিহা, Keonjhar, Odisha

The land for the centre has been gifted by the late Dr Bijayananda Patnaik and his wife Dr Rajinder Kalsi Patnaik. The construction and the equipment are supported by Combat Blindness International, USA through a generous gift from the Jack Deloss Taylor Charitable Trust, USA.



Bijayananda Patnaik Eye Centre

Many of our secondary centres are now equipped to provide complex surgical eye care to patients such as corneal transplant, squint, oculoplasty, etc.

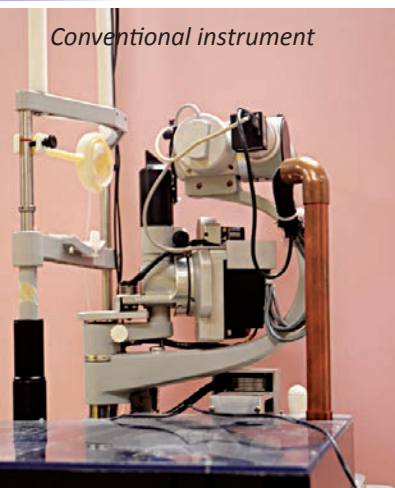
23 Vision Centres

23 Vision Centres were inaugurated in the states of Telangana and Andhra Pradesh. Major support was extended by RayBan Foundation, TOMS-Seva Foundation, Sai Life Sciences Ltd, OneSight Foundation, Indian Metals and Ferro Alloys, Members of Parliament Local Area Development Scheme (MPLADS), funds of Hon'ble Minister Sri YS Chowdary, Sujana Foundation and Lions Club Uravakonda (AP). Additionally, support was also extended by a few key individuals from the local community.

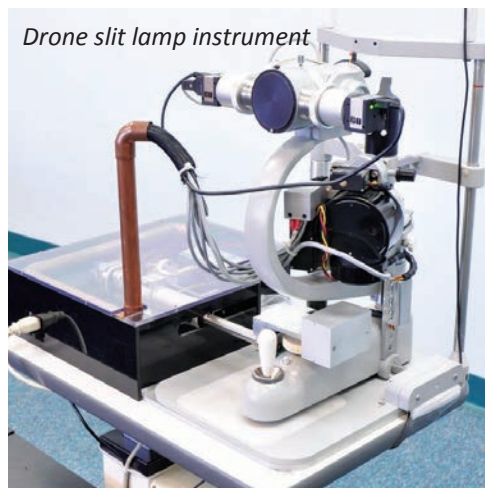
For LVPEI's eye care network refer page - 6



Conventional instrument



Drone slit lamp instrument

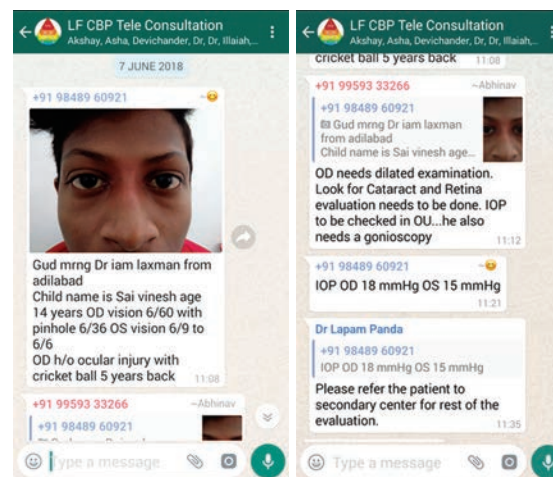


Technology Enabled Care

Secondary Centres: Five of our secondary centres are equipped with the Drone Robotic Slit lamp. Through this, the doctor sitting at the LVPEI Hyderabad campus can examine a patient at the secondary centre and provide treatment advice.



Vision Centres: Using the EyeSmart Tab application, the Vision Technician clicks pictures of the anterior segment of the eye and shares it with doctors at the secondary, tertiary and advanced tertiary centres, and receives expert advice.



Community Level Programs:

A WhatsApp group has been created where the Vision Technicians involved in school eye health/children's eye health initiatives click pictures, share them with the expert doctors and receive instant advice.

How is technology helping our patients at our rural centres?

- Receive expert advice from doctors right at their doorstep
- Save on travel cost and time
- Cut down on referrals for further care

Research Projects in Community Eye Health

Projects 18
Publications 14

April 2017 - March 2018

Projects 59
Publications 179

1996 - 2018 March



- ◆ Prevalence, Causes and Risk Factors for Blindness and Low Vision in Children in Krishna District of Andhra Pradesh, India *(completed)*
Supported by: Lions Clubs International Foundation, SightFirst research grant and Hyderabad Eye Research Foundation
- ◆ Assessing the trends in prevalence and causes of visual impairment in the south Indian state of Telangana *(completed)*
Supported by: Lions Clubs International Foundation, SightFirst research grant and Hyderabad Eye Research Foundation
- ◆ HOMES - Hyderabad Ocular Morbidity in Elderly Study *(ongoing)*
Supported by: Wellcome Trust / DBT India Alliance

Other Major Projects

- ◆ Children's Eye Health Initiative *(ongoing)*
Supported by: United States Agency for International Development - USAID, Lavelle Fund for the Blind, Inc, USA. and Sun Pharma
- ◆ Disability Inclusive Community Eye Care *(ongoing)*
Supported by: Christoffel-Blindenmission, Germany



Population reached

53%
female



11%
Children



9617
22 villages
districts covered

Rural Eye Health Outreach

Secondary Centres

324,120 Outpatients

35, 211 Surgeries

43% outpatient and 67% surgical services provided at no cost to the patients

Vision Centres

343,218 Outpatients

100% outpatient services provided at no cost to the patient

Community Eye Care

364,047 Children's eye health initiatives
children reached

177,300 Door-to-door surveys
people reached

74,218 Community screening programs
people reached
100% services provided at no cost to the people

461 people were trained in community eye health through various short-term and long-term training programs in community eye health.



Eye Banking

It gives me immense pleasure to write this year's foreword for eye bank related activities. In the year 2017-18 we achieved several milestones, as you will see in the data presented in the annual report. I would like to draw your attention to two important developments, the most notable being that nearly half of the transplantable corneas were distributed to corneal surgeons outside the LVPEI network. This reflects our commitment toward eradication of corneal blindness and our belief that community eye banking is the right model for eye banking to be effective.

The second one is the new partnership with The Hans Foundation. Under this, LVPEI will be developing model eye banks in the North East, Uttarakhand and Uttar Pradesh. The process began in the last quarter of the year 2017-18 with the identification

of sites and initiation of dialogue with the Regional Institute of Ophthalmology, Guwahati. We are optimistic that such model eye banks will initiate the whole process of reorganizing the eye banking network in our country, and will finally take us to the destination of being self sufficient in donor cornea availability.

It is so satisfying that a journey we began in 1989 has resulted in creating a model of eye banking that the community at large believes is the right model for developing nations. Uncompromising commitment, continuous focus on quality and numbers, innovation, partnership with other organisations, and support from our donors, and friends, has made this journey possible. We are indebted to all the contributors.

Prashant Garg
Head,
Eye Banking Services

Eye Bank Network



Ramayamma International
Eye Bank
Hyderabad

6687 corneas
collected

Drushti daan Eye Bank
Bhubaneswar

1263 corneas
collected

Mohsin Eye Bank
Visakhapatnam

1131 corneas
collected

Tej Kohli Eye Bank
Vijayawada

610 corneas
collected

9691
total corneas
collected

2989 corneas distributed to LVPEI surgeons; 2786 were distributed to surgeons outside LVPEI network.

2516 corneas were used for training and 1400 corneas were not suitable for transplants.

The youngest corneal transplant patient this year was a child aged 2 months and the oldest corneal transplant patient was aged 90 years.

McCarey-Kaufman (MK) Medium, cost effective solution is used for storage and preservation of donor corneas at LVPEI.

30,005 vials of MK medium were produced and 32,221 vials supplied to Eye Banks in India and a few outside India.

Amniotic Membranes (AM) for ocular surface reconstructive surgery is also produced in-house.

2690 vials of AM were produced and 2683 AM supplied to surgeons within and outside LVPEI.

Setting New Records

- Ramayamma International Eye Bank (RIEB) at LVPEI Hyderabad reached the milestone of distributing more than 1000 pre-cut tissues in a single year (distributed 1030 pre-cut lenticules to surgeons across the country).
- Record of distributing the highest number of corneas to surgeons in India (outside LVPEI network)

Recognized as one of the top centres of Excellence in Eye Banking by SightLife

Hospital Cornea Retrieval Program (HCRP) expanded to centres at Anantapuramu and Nellore in Andhra Pradesh.

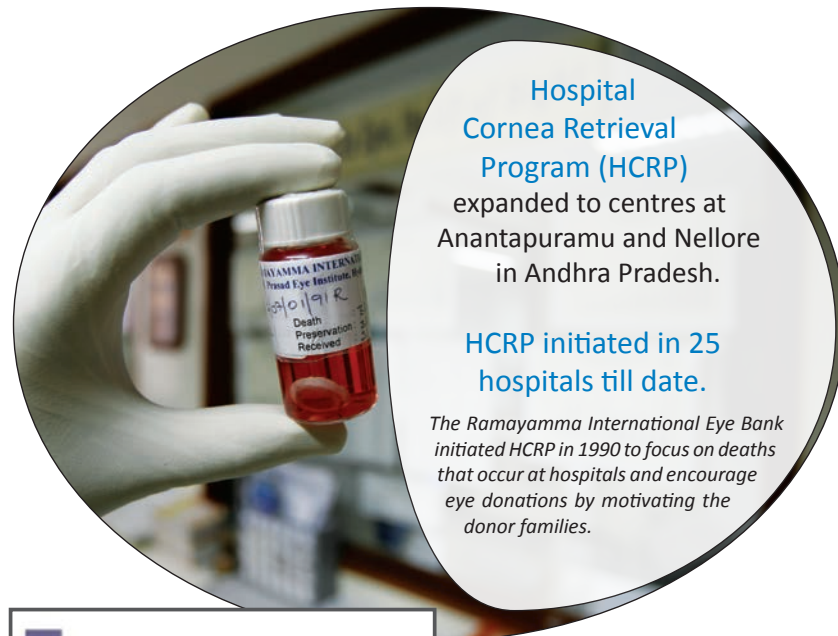
HCRP initiated in 25 hospitals till date.

The Ramayamma International Eye Bank initiated HCRP in 1990 to focus on deaths that occur at hospitals and encourage eye donations by motivating the donor families.

A series of awareness activities on eye donation were carried out across the LVPEI network as part of the **32nd National Eye Donation Fortnight**, 25 August - 8 September 2017, including awareness talks, rallies and other similar forums.



- The Tej Kohli Eye Bank at Vijayawada moved into a new facility with state-of-the-art laboratory for the preparation of pre-cut tissues.
- Corneas were provided at LVPEI's secondary centres at Paloncha, Nellore and Sattenapalli in Andhra Pradesh to perform corneal transplants.
- Drushti daan Eye Bank at Bhubaneswar received quality certification from SightLife, USA.
- LVPEI and The Hans Foundation are entering into a partnership to establish eye banks in the states of Assam, Uttar Pradesh and Uttarakhand in India.





Training

35 ophthalmologists and 29 other cadres of eye banking personnel from all over India and abroad were provided training in eye banking techniques.

We are thankful

To the donor families

To all our cornea donors and their families, who gave the precious gift of sight to somebody who was deprived of vision.

To our partner eye donation centres

A Total of **3214** donor corneas were collected from **40** centers that are part of LVPEI's eye banking network affiliates:

Balaji Eye Care Trust, Anantapuramu (30); Basaveswara Teaching & General Hospital, Gulbarga (4); Chiranjeevi Charitable Trust, Hyderabad (109); Cuddapah Eye Bank, Kadapa (4); DBCS, Govt General Hospital (Vol), Anantapuramu (20); DBCS, **Govt. General Hospital (HCRP)*, Anantapuramu (221)**; DBCS, Regional Eye Hospital (Vol), Kurnool (36); **DBCS, Regional Eye Hospital (HCRP)*, Kurnool (637)**; District Blindness Control Society, Nalgonda (2); District Hospital, Mahabubnagar (2); Goutami Eye Institute, Rajahmundry (69); Govt. General Hospital, Nellore (4); Govt. General Hospital, Guntur (10); Kamineni Institute of Medical Sciences, Narketpally (8); Khammam Eye Bank, Khammam (32); Lions Club of Cherial, Cherial (4); Lions Club of Godavarikhani, Godavarikhani (4); Lions Club of Godavarikhani Spoorthy (2); Lions Club of Kamareddy, Kamareddy (2); **Red Cross Eye Bank, Lions Club of Karimnagar Charitable Eye Hospital, Karimnagar (315)**; Lions Club of Kesamudram, Kesamudram (16); Lions Club of Mahabubabad, Mahabubabad (8); Lions Club of Mancheri, Mancheri (2); Lions Club of Ramagundam, Ramagundam (2); Lions Club of Suryapet Eye Hospital, Suryapet (32); Lions Club of Thorur, Thorur (8); Lions Eye Hospital, Bodhan (83); Megur Eye Center, Bidar (1); Modern Eye Hospital, Nellore (123); Modern Eye Hospital & Research Center, Ongole (21); Mullapudi Venkatarayudu Eye Center, Tanuku (28); Pavani Eye Hospital, Jagtial (8); **Regional Eye Hospital (HCRP)*, Warangal (954)**; Regional Eye Hospital (Vol), Warangal (22); Rotary Eye Hospital, Vuyyur (12); Sai Jyothi Netradaana Foundation, Adoni (46); Santhiram General Hospital, Nandyal (30); Sri Yerra Balaramamurthy Konaseema Eye Bank, Ambajipeta (62); **Smt. R.R. Lions Eye Hospital, Nidadavole (180)**; Sudarsani Eye Hospital, Guntur (28); Sukhabhogi Seva Samithi, Mancheri (2); SVRR Govt General Hospital (HCRP)*, Tirupati (24); SVRR Govt. General Hospital (Vol), Tirupati (3); Yanam Eye Bank, Yanam (4).

Testimonials

I just got a phone call from Dr Jeffrey J. Ing, and he was absolutely delighted with the quality of tissue that he received, saying that it was equivalent to the quality he gets from SightLife in the USA. In particular, he said that the DSAEK cuts were beautiful, and that they were even better than what he has seen from some USA eye banks. He was skeptical of procuring tissues locally, but you made him your raving fan. ”

Caroline Hoover

Vice President of Clinical Operations
- SightLife Surgical

Highlighted are top 5 Major Contributors
**RIEB run HCRP Centers*



Education

In line with LVPEI's pyramid model of eye care service delivery, our focus was on building a strong work force of eye care professionals across all cadres. Providing need based training to help build capacity of the various institutions that approach us for their training needs, is our constant endeavour.

One such strong collaboration that we have is with John F Kennedy Memorial Medical Center, in Monrovia, Liberia. A significant development was the enhanced capacity of the team managing the Liberia Eye Centre there, right from optometrists, vision technicians, nurses, and doctors. The way forward is to initiate an ophthalmology residency program in that country.

Ophthalmology residents from 13 medical colleges in Andhra Pradesh, Telangana and Odisha are linked to our ECHO (Extension for Community Healthcare Outcomes), an online training program where various subspecialty training sessions are conducted by the LVPEI faculty. While we continued to invest in the digitalization of our training program to maximize our reach and benefit trainees worldwide, a series of continuous professional development and evaluation programs were organized for building the capacity of the internal team. 2018 being a consolidation year for LVPEI, our focus will be to further strengthen our internal training programs for larger impact.

A handwritten signature in black ink, consisting of a stylized 'A' followed by a series of loops and a long horizontal stroke.

Avinash Pathengay
*Director,
Academy for Eye Care Education*

549

485

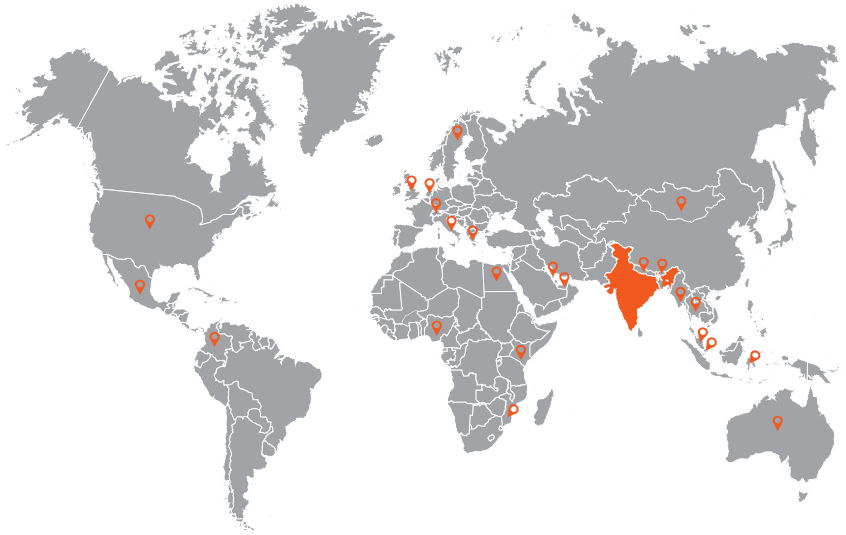
National

64

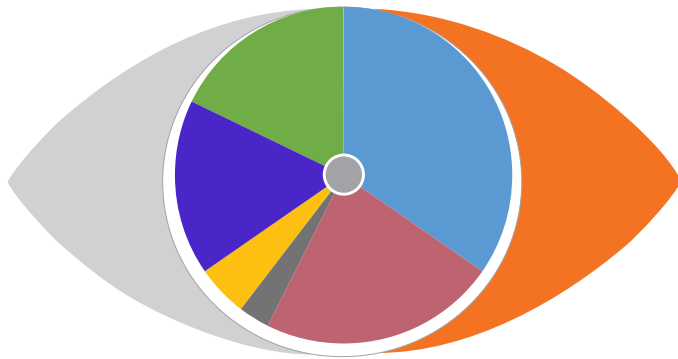
International

Total
Trained

through various long term and
short term training programs



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



- Ophthalmology
- Optometry
- Vision rehabilitation
- Eye Banking
- Others
- Community and Public Health





29 CMEs (Continuing Medical Education programs) were organized

24,000+ delegates from across India and the world were trained



Feedback from two prominent delegates

Wonderful meeting! I was privileged and honoured to participate.

Dr Alex V Levin,
Chief, Pediatric Ophthalmology and Ocular Genetics, Wills Eye Hospital

I enjoyed the discussions and the formats that you employed to ensure audience participation.

Dr N Venkatesh Prajna
Chief, Department of Medical Education, Aravind Eye Care System



A series of 6 **exit competency training programs** were organized in various subspecialties for the ophthalmology fellows to promote skill based training and problem solving approach to various clinical scenarios.

Practicing ophthalmologists from various partner hospitals at Jorhat, Gurgaon, Delhi and Moradabad in India and our collaborative partners in Myanmar, Liberia and Nigeria participated in the online training program - **ECHO, Extension for Community Healthcare Outcomes**. Headed by LVPEI's Tej Kohli Cornea Institute's faculty, it focuses on case based discussions and didactic lectures on corneal ulcers. Simultaneously, subspecialty lectures are organized by LVPEI faculty through this platform for ophthalmology resident students from various medical colleges in Telangana, Andhra Pradesh and Odisha.

Clinical Pearls - **JAM: Just a Minute**, which was initiated in 2016, concluded in September 2017 with the 365th clinical pearl. Catalysed into single 60 seconds email learning, they received an overwhelming response from ophthalmologists across the world. Soon, the Academy will be back with a new avatar of JAM.

2 Endowment and **16 guest lectures** were organized across the network for our trainees, faculty, staff and invited audience of eminent professionals from all walks of life.

A series of **continuous professional development training programs** were conducted for the internal employees throughout the year.

International Collaborations

Training of the candidates was routed through the following collaborations:

- World Health Organization, Geneva
- European School for Advanced Studies in Ophthalmology, Switzerland
- The Queen Elizabeth Diamond Jubilee Trust, London
- International Council of Ophthalmology, California
- Wills Eye Institute, Pennsylvania
- University of Rochester, New York
- University of New South Wales, Australia
- John F Kennedy Memorial Medical Center, Liberia.

Being completely new to ophthalmology, LVPEI has taught me everything right from learning how to examine a patient, to how to make a diagnosis, and how to manage a patient. My thesis guide, Dr Nikhil S Choudhari, guided me and always motivated me to do better. I have 3 publications with him and I also won the best paper award at the Telangana Ophthalmological Society meet last year. The credit for this goes to all the consultants at LVPEI who have taught us so well.

Dr Ketaki Gaitonde,
Recent Graduate of Ophthalmology Resident Program



I joined LVPEI as a field worker in 2013. Looking at the commitment that I showed towards my work, I was given the opportunity to grow further and was enrolled in the one-year vision technician course. Today I work at the Kismathpur Vision Centre (Hyderabad) of LVPEI. I find the work that I do very fulfilling both personally and professionally. At LVPEI we have a very conducive environment for learning and are provided with a platform to constantly upgrade our knowledge and skills.

Rajashekar Bullolla,
Vision Technician



I come from a very remote village called Lonjo in Jharkand. Due to family reasons I could not study beyond my 10th grade and was really worried about my future. I always wanted to be a nurse and so when I came to know about the Ophthalmic Nursing Assistant course offered by LVPEI, it was a gateway for me to achieve my dreams. I am enjoying my training and the best part of it is when I am posted in the Operating Theater and get to assist the doctors performing oculoplasty surgeries. That time I really feel that I am contributing to the success of the surgery. I am now looking forward to completing my training and starting work professionally. The journey so far has been a great learning experience, where I feel that everybody I met at the Institute has taught me something or the other.

Anjali Sundi,
Ophthalmic Nursing Assistant Trainee





Research

The Prof. Brien Holden Eye Research Centre (BHERC) is dedicated to basic and clinical research into eye diseases and vision-threatening conditions. Starting from case reports of interesting clinical observations to unraveling the genetic basis of various eye diseases, their prevalence in the population, identifying pathogens of the eye, the best modes of treatment, understanding the molecular basis of ocular diseases, the physics of vision and developing outside-the-box technologies for eye care, the repertoire of research at BHERC, encompasses it all. More importantly, our agenda inter-woven into the fabric of research, is to develop methods to rehabilitate the vision impaired and blind, innovate devices and instruments for eye care, and to understand the outcomes of eye care from the patient's point of view. All this makes LVPEI unique. During

the past year, apart from several research papers published in reputed journals like Nature Genetics, Ophthalmology, Stem Cells, Lancet Global Health, American J Ophthalmology, Frontiers in Immunology, Scientific Reports etc., the faculty has also distinguished itself by receiving several awards and grants, and by participating in national and international conferences. BHERC has also played host to several distinguished speakers during the year, including two Nobel laureates, and worth mentioning is our efforts to attract students to our research projects through our "Eye Opener" program that brought together scientists and students from four colleges in the city of Hyderabad. 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 (BHERC)

279
Publications in peer
reviewed
journals

58 Research Grants



42 Basic



13 Clinical



3 Public Health



Key Symposia and Workshops

The **Eleventh Annual Antonio Champalimaud** Symposium on 28 January 2018 marked 10 years of the LVPEI - Champalimaud Foundation collaboration. The keynote lecture was delivered by **Prof Masayo Takahashi** from Riken, Japan and the pioneer of Stem cell transplantation techniques, on 'Regulatory System for regenerative medicine'. Additionally, there were talks by Prof Martin Chalfie, 2008 Nobel laureate in Chemistry from Columbia University, and Prof Brigitte Roeder from University of Hamburg and the Leibniz prize winner.



Dr GN Rao, Founder-Chair, LVPEI and Dr Leonor Beleza, President, Champalimaud Foundation presenting the Champalimaud Oration award to Prof Takahashi.

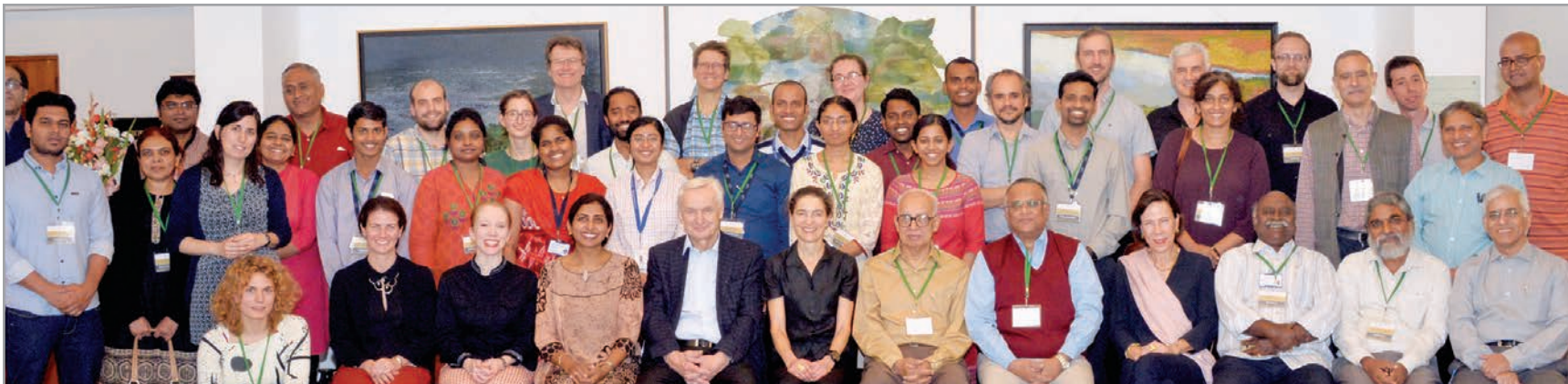


Nobel Laureate Prof Martin Chalfie (Centre), Dr S Shivaji, Director of Research and Prof D Balasubramanian, Director Emeritus, BHERC, LVPEI



Prof Brigitte Roeder (Left) with Dr G Chandra Sekhar, Vice-Chair, LVPEI





The **Indo-German Leopoldina-INSa Symposium** on the challenges and new approaches related to the study of stability vs. plasticity in the brain, was organised with support from Indian National Science Academy and the German Academy of Sciences Leopoldina. The faculty included Professor Brigitte Roeder of the University of Hamburg, Germany and Professor Neeraj Jain of the National Brain Research Centre, India.

UK-India Researcher Links workshop was organized in collaboration with British Council, Royal Society of Chemistry and Newton Bhabha Fund, with Prof Sheila MacNeil, University of Sheffield and Dr Virender Sangwan, LVPEI as mentors. It focused on providing a good understanding of the unmet or clinically challenging problems that exist in treating loss of vision due to corneal problems, to budding chemists and biomaterial scientists from UK and India.

Eye Opener-II was organized for the students from Hyderabad based M.Sc colleges to orient them about the various research projects carried out at the institute and motivate them to pursue research in eye care as a career.



Prominent Visitors



Professor Bruce Alberts (University of California, San Francisco, CA, USA), Former President, US National Academy of Sciences, and Former Chief Editor, "Science" visited the research facilities at the centre, and also delivered the 31st Foundation Day lecture.



Professor Sarah Coupland, Department of Molecular & Clinical Cancer Medicine, University of Liverpool, UK, visited LVPEI and had fruitful interactions with the LVPEI scientists on topics such as eye tumors, genetics and stem cell biology.



Prof Erwin Neher, Nobel Prize winner in Physiology or Medicine, accompanied by his wife, visited LVPEI and appreciated the work being done.

Power Picture

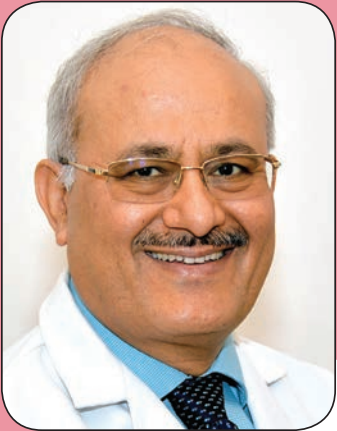


LVPEI team of clinicians and scientists interacted with the Prime Minister of India, Hon'ble Sri Narendra Modi during their visit to the Champalimaud Centre in Lisbon.

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





Innovation

With the LVPEI Center for Innovation completing five years of its existence, this year was very productive and witnessed innovative technology being implemented across the LVPEI eye care network.

Raghu Gullapalli joining us as the Executive Director has further strengthened the capacity of our already dynamic team of engineers, researchers and scientists. His vast experience will help us focus more on emerging technologies, product and business development, and democratizing of eye healthcare.

Some very innovative and cost effective products were introduced this year. FITTLE, a teaching tool for the visually challenged, in collaboration with Ravensburger the world's largest puzzle maker from Germany, was launched. The Folding Foropter (FoFo) was re-launched in its new avatar and is currently being used across our network, as also by several other organizations, for mass eye screening. The production of Pupil+, which helps to measure pupillary

abnormalities and diagnose related eye disorders, has been taken up by CYIENT, our founder donor through, CE marketing.

The Engineering group led by Dr Ashutosh Richhariya continues to make breakthrough progress in using sophisticated in-house developed technologies to make eye care more accessible and affordable for all. Innovative methods have brought down the maintenance cost of some of the clinical equipment that is used in patient care. A significant achievement was the production of a special type of lenses (PROSE lens), in collaboration with Boston Sight Foundation, to treat patients with complex corneal conditions. Ours is the only facility in India and the second in the world after Boston to produce these lenses.

We are confident that in the coming year, with the endless opportunities and possibilities that it offers, we will continue to maximize our potential and create larger impact.

A handwritten signature in black ink, reading 'V. Sangwan' with a stylized flourish at the end.

Virender Singh Sangwan
*Director,
LVPEI Center for Innovation*



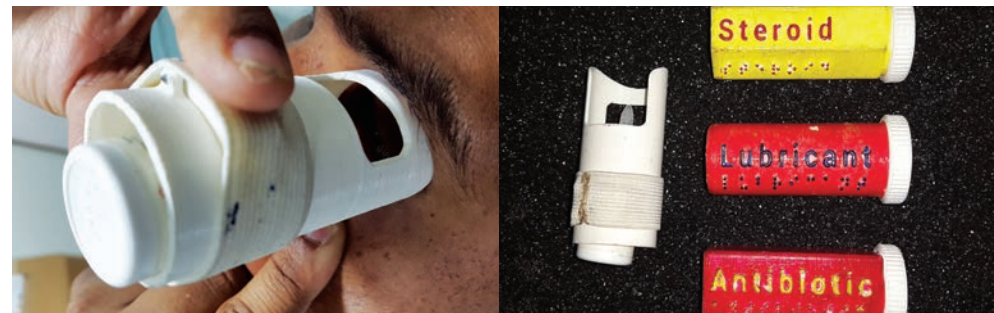
LVPEI Center for Innovation

To provide affordable, effective and customized contact lenses to patients with complex ocular surface disorders, a state-of-the-art **BostonSight Lens Manufacturing Lab** has been set-up with support from Boston Foundation for Sight. Inaugurated in September 2017, it is the first facility outside Boston, and the second facility in the world to manufacture Boston Scleral lenses.

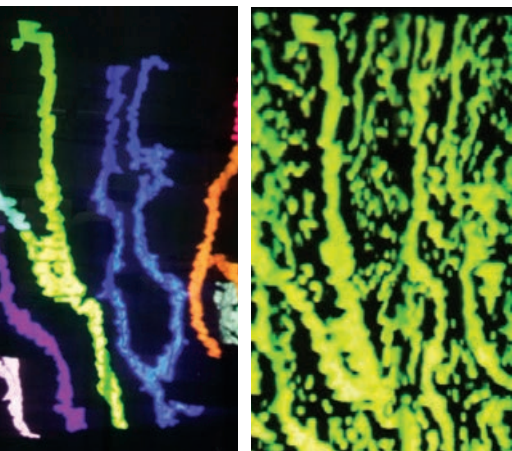
- Full-fledged production started in January 2018
- Served over 150+ patients
- Lenses are being provided to patients across the LVPEI network and other premier eye hospitals across India
- An 'Intensive PROSE training' program has been initiated for practitioners across the country, in fitting and dispensing these lenses

Funded by AT&T, **Voice Interactive Engine for Visually Impaired (VIEVC)** is an in-house developed technology to assist the visually impaired in navigating the world, especially their work-place. It can perform the following functions with a voice command (which marketed solutions such as Cortana and Dragon cannot do): • Email sending • Email reading • PDF reading • MS document - creation, reading and deletion. In phase II, speech recognition AI (Artificial Intelligence) will be developed to further enhance its utility and efficiency.

Born out of the Engineering team member Sandeep's own experience of living with degenerative retinal pigmentosa, **Eye Renk** has been designed to help the visually impaired to easily differentiate between various ocular medications. It qualified for the final round of the international Holman prize, which funds blind and low vision people pursuing ambitious goals.



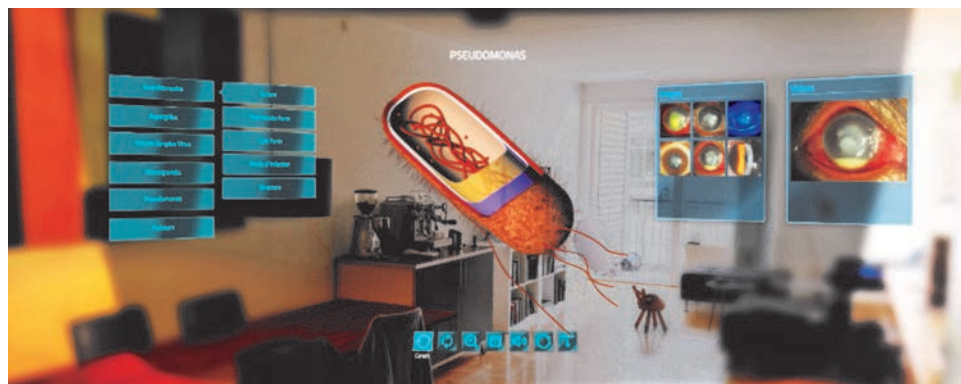
With a vision to bridge the gap between rural and urban eye-care, LVPEI's **telemedicine network** added four more centres in 2017. The network connects 10 rural centres spread across Telangana, Andhra Pradesh, Orissa and Maharashtra, to experienced specialists at LVPEI's Hyderabad based Centre of Excellence. This initiative has delivered around 650 remote consultations so far.



The team has collaborated with the Institute's vitreo-retina specialist Dr Jay Chhablani to **develop an algorithm to measure changes in the choroidal vasculature**. The algorithms are being used for age related macular degeneration, high-myopia, central serous retinopathy and retinal pigmentosa in clinical studies. LVPEI's specialists are paving the way for the use of the Choroid as a diagnostic tool in early diagnosis of high burden eye diseases and a surrogate marker for disease monitoring. This work has resulted in 9 peer-reviewed publications.



LED Light source for Slit lamp: To reduce the cost and effort of equipment maintenance for Slit lamps, the halogen lamps used in them have been replaced by an LED light source. This has made it 90 times cheaper and 6 times more long lasting. 80 such slit lamps have already been installed in the network.



Eva is an extension of the Holo Eye Anatomy, being developed as a virtual classroom on a 3D platform to help medical students learn both practically and theoretically, the various concepts of the human eye and methods of treatment including but not limited to anatomy, microbiology and surgery. The content library for Eva is expanding through the collaborative effort of expertise in different areas throughout the LVPEI network.



At the India Today Conclave Next 2017, Microsoft CEO, Satya Nadella invited Dr Anthony Vipin Das to talk about how LVPEI is using mixed reality and artificial intelligence in medicine for diagnosis and predictive analysis, and also for studying eye anatomy.



Folding Foropter, an effective, easy to use, low-cost refractive error screening device designed in-house, was launched in a completely new avatar this year. The device has been exhaustively clinically validated on 4000 patients. Around 400 devices have been supplied to the Telangana Government, Essilor and Johnson and Johnson for patient screening campaigns in India, the Asia Pacific and some regions of Africa. The project was showcased and well received at the TEDxGateway, Mumbai 2018.



OPEN ACCESS

Articles | July 2017

Pediatric Perimeter—A Novel Device to Measure Visual Fields in Infants and Patients with Special Needs

PremNandhini Satgunam; Sourav Datta; Koteswararao Chillakala; Karthik R. Bobbili; Dhruv Joshi

+ Author Affiliations & Notes

Translational Vision Science & Technology July 2017, Vol.6, 3. doi:10.1167/tvst.6.4.3

July 2017
Volume 6, Issue 4

Pediatric Perimeter, an LVPEI patent, was built to quantify the visual fields in infants with diseases such as retinopathy of prematurity and congenital glaucoma. The first clinical validation study for the device was published in TVST journal this year and it stood as one of the Top 3 trending articles. The device was also one of the Top 5 finalists in IMC, Chamber of Commerce and Industry-Inclusive awards in 2017.



Portable binocular device **Pupil+** to quantify and measure pupillary and neurological responses to light stimulus, will soon be deployed for clinical validation across the LVPEI network. The product was presented at the World Congress of Optometry 2017 and was received very well by all the delegates.



Fittle 3D printed puzzle, developed in partnership with Serviceplan and Ravensburger, makes education for visually impaired children more accessible and engaging. It is an innovative and affordable way for blind and visually impaired people to learn and discover new things.

Capacity Building



Hospitals supported till date

National: **250** International: **12**

Ongoing projects

National: **14** International: **2**

LVPEI – SCALE Impact

Since 1994 LVPEI has been working with partner eye care hospitals, with support from development agencies, and is providing them with strategic and technical assistance to establish standardized systems of patient care, human resource management, financial sustenance, hospital management and community eye care.

Supported by **Seva Foundation**, through the project Strengthening Capacity and Learning to Effectively Deliver Quality Eye Care (SCALE), LVPEI is helping build the capacity of 14 hospitals across India.

- Compared to last year, the hospitals have shown a growth of 27% in their outpatient services and 12% in the cataract surgeries performed.
- Overall, as compared to the baseline performance, 104% growth has been witnessed in outpatient services and 50% in cataract surgeries.



SCALE Review Meeting at Raipur

Success stories



Chandra Prabha Eye Hospital, Jorhat, Assam

- The hospital, in association with Operation Eyesight Universal, has initiated a vision centre in the remote underserved area of Majuli island in the Brahmaputra river; the Kothalguri Gaon village there has now been declared avoidable blindness free
- The hospital has also started a centre dedicated to community ophthalmology, education and research



As part of global sight initiative and to help Jawaharlal Rohatagi Eye Hospital at Kanpur, Uttar Pradesh build an eye care network to make primary eye care accessible to the people there, LVPEI facilitated the establishment of four vision centres, supported by SEVA Foundation.



- ☞ LVPEI Bhubaneswar is the official partner for the National Health Mission - Odisha State Health and Family Welfare department to provide best quality pediatric eye healthcare to children in the state of Odisha.
- ☞ Call Netra - 18002002211, an initiative by LVPEI's Tej Kohli Cornea Institute, aims at creating awareness about various eye diseases among the general public, specifically in the rural areas. It was launched by Sri M Venkaiah Naidu, Honorable Vice President and Sri Banvarilal Purohith, Governor of Tamil Nadu.
- ☞ Senior representatives from LVPEI's community eye care team were key contributors to the following important consultation meetings:
 - WHO's National action plan for achieving universal eye health in India
 - WHO's Training in assistive technology for community level workers in India
 - WHO's Global Vision consultation meeting
 - National Task Force meeting for operational guidelines for Integration of ophthalmology services in comprehensive primary health care
 - 13th annual conference of Vision 2020 on inclusive eye care services for all
 - International conference on evidence in global disability and health by the Public Health Foundation of India and the International Centre for Evidence in Disability, London School of Hygiene & Tropical Medicine
 - Review meeting by Maharashtra Government on the digital village project at Harisal, where LVPEI has facilitated a primary eye care centre
- ☞ LVPEI is a global partner for 'Our Children Vision' campaign initiated by Brien Holden Vision Institute to improve access of quality eye care for children.

Advocacy and Policy Making

Advocating for equitable and efficient eye care to all sections of society

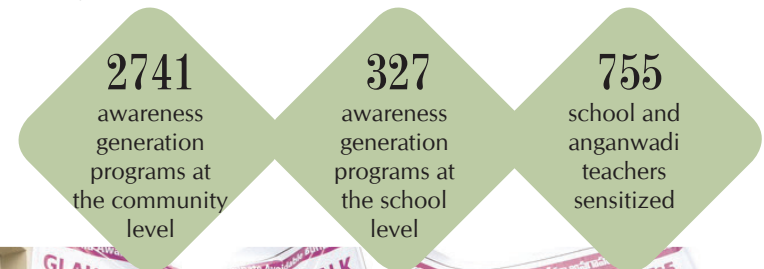
LVPEI representation in national and global level advocacy committees:

Dr Taraprasad Das, *Vice-Chair, LVPEI*, has been designated:

- ☞ Chairman, Universal Eye Health Program - an initiative by Government of Odisha to minimize the avoidable blindness numbers in the State
- ☞ President, VISION 2020 India, the Right to Sight, which is the global initiative for the elimination of avoidable blindness, a joint programme of the World Health Organization and the International Agency for the Prevention of Blindness.

Creating awareness

To create awareness in the general public, a series of activities were organized throughout the network on important commemorative weeks associated with glaucoma, children's eye care, diabetic retinopathy, eye cancer, etc.



Footprints in Liberia, West Africa



The formal inauguration of The Liberia Eye Center at the John F Kennedy Memorial Medical Center in Monrovia, Liberia on 24 July 2017 by the then President of Liberia, Her Excellency Dr Ellen Johnson Sirleaf, has marked a significant milestone in the partnership between LVPEI and the Government of Liberia.

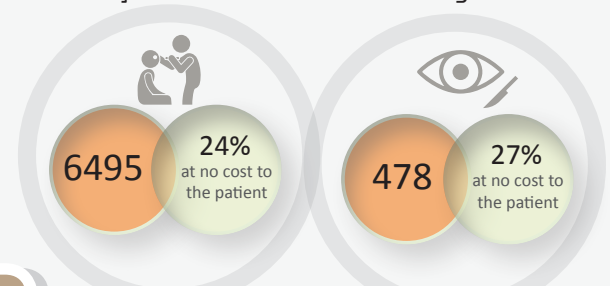
- For the first time, LVPEI has been directly involved in the management of a centre outside India.
- With the support received from the Lions Club International Foundation, Operation Eyesight Universal and OneSight, the latest medical equipment were brought in.
- In addition, LVPEI ophthalmologists and optometrists are permanently deployed there; subspecialty doctors from LVPEI Hyderabad visit the centre on a periodic basis to treat complex cases.
- It is also providing guidance and assistance in human resource planning, recruitment, training and in developing and implementing a countrywide community eye health programme.
- Initiated the three year ophthalmology residency program, which involves rotation at Liberia Eye Centre and LVPEI Hyderabad for medical students, in collaboration with the Liberia College of Physicians and Surgeons.
- A new education program for technicians and health workers will be launched shortly.



Outpatients

Surgeries

July 2017 -
March 2018



Training

8 people from the
Liberia centre
(from various cadres)
trained at LVPEI
Hyderabad



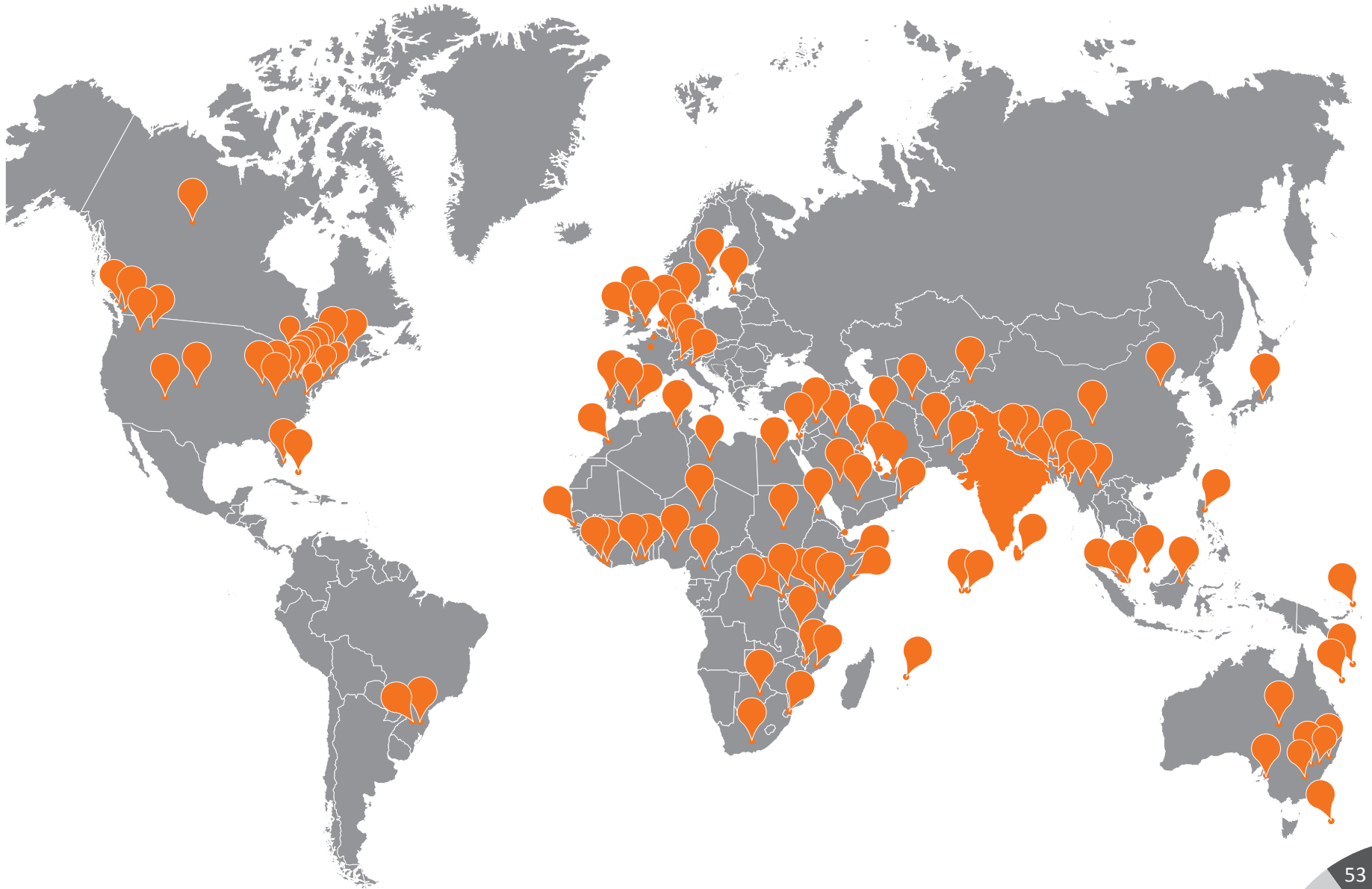
Making inroads in Amaravati, Andhra Pradesh

LVPEI signed an MoU with the Government of Andhra Pradesh to support the eye health facilities at Amaravati, the state capital of AP. Recently the institute was allotted 12 acres of land in the region to establish an Institute of Excellence in Global Eye Health there.





The team at LVPEI is actively involved with reputed national and international organizations across India and the world through collaborations and partnerships in various domains of eye care to build a stronger and wider network of eye care service delivery.



OneSight strengthening eye care at the root level

OneSight is an independent non-profit whose founding global sponsor is Luxottica Group – an independent non-profit body working to eradicate the vision care crisis. OneSight's association with LVPEI started in the year 2014, which resulted in capital support for the establishment of 28 Vision Centres in the underserved areas of Guntur, Nellore and Chittoor Districts of Andhra Pradesh. Additionally, they have supported the training program for Vision Technicians and an Optical Dispensing lab for LVPEI's Bausch and Lomb School of Optometry.

Their contribution has powered LVPEI's initiative of reaching out to the masses at the root level in rural areas. With these 28 Vision Centres, the Institute has served to the primary eye care needs of over 1.4 million population that has acted as a significant pedestal to refer patients to the most appropriate level of treatment. Their support has also resulted in developing the vocational opportunity for the local youth in these areas.



Our aim is to eradicate the vision care crisis from every corner of the world, and when it comes to reaching out to the most affected regions in the new territories, it becomes a huge challenge. Having a complementary services system like that of LVPEI working with you makes it convenient, systematic, comprehensive and reliable. We are assured that we are doing the right thing in the right direction.

- Mony Iyer, OneSight

We are equally grateful to our other partners who extended support this year for the establishment of the Vision Centres in the states of Telangana and Andhra Pradesh - [TOMS-Seva Foundation](#), [Sai Life Sciences Ltd](#), [Indian Metals and Ferro Alloys](#), Members of Parliament Local Area Development Scheme (MPLADS) funds of [Hon'ble Minister Sri YS Chowdary](#), [Sujana Foundation](#) and [Lions Club Uravakonda \(AP\)](#). Additionally, a few key individuals from the local community also helped with their significant contribution.

Over two decades of togetherness

Theseeds of a lasting relationship with the Kothapalli family were sowed more than two decades ago when the late Mr Kothapalli Rama Rao invited the LVPEI team to establish a world-class Lions Eye Hospital at Nidadavole with an ambition to provide high-quality eye care services to the needy from surrounding rural areas, which LVPEI accepted readily. Later, this experience contributed significantly to developing the institute's own rural eye health model.

Later, Mr Kishore Kothapalli, funded the Kothapalli Rama Rao Ophthalmic Surgical Centre in the memory of his late father. The state-of-the-art surgical centre stands tall as a tribute to the late Mr Kothapalli Rama Rao and is a symbol of the Kothapalli family's long-term association and confidence in LVPEI's mission of eliminating avoidable blindness.

More recently, Mr Kishore Kothapalli committed himself to a substantial contribution for the development of LVPEI's upcoming facility "Institute of Excellence in Global Eye Health" in the new state capital of Andhra Pradesh, Amaravati.



Preventive intervention to eradicate reversible blindness is a strong possibility with LVPEI and we, as a family, are blessed to be a part of this future journey.

- Mr Kishore Kothapalli

“Self-sustainable eye care service model” with Seva & TOMS



Seva Foundation is a global non-profit organization that is transforming lives and strengthening communities by restoring sight and preventing blindness for the past 4 decades. Their association with LVPEI commenced in 2008, when Seva supported LVPEI through capacity building programs to expand the scope of eye care treatment to the most underserved people in India.

Today, LVPEI is one of Seva's major partners in India, helping them mentor 13 eye care hospitals to deliver high quality eye care, in order to accomplish the goal of 1 million additional eye care surgeries by 2020, under the Global Sight Initiative.

LVPEI's partnership with Seva led to another meaningful association with TOMS. TOMS is known for their initiative of "One-for-One Giving" to sight programs, under which they provide eye care to someone in need for each pair of TOMS eyewear they sell. Since the eye care program began, TOMS, Seva and their partners have provided more than 500,000 eye care services. Recently, TOMS, Seva and LVPEI have committed to ensuring that these services last far into the future by investing in vision centers. To date, 4 vision centers have started operation thanks to the collaboration of Seva, TOMS and LVPEI.

“
With LVPEI, Seva works with hospitals across India to improve the volume, quality and efficiency of eye care in the most affected communities. Given our partnership with LVPEI, we are confident of a bright future in which no one goes unnecessarily blind.
”

- Heidi Chase, Seva

The Nannapaneni family - a legacy of philanthropy

Sri Venkaiah Chowdary Nannapaneni, Chairman and Managing Director, NATCO Pharma Limited, a visionary and a humanitarian, believed that no patient should go without medicine or treatment due to economic constraints. His belief inspired him to start NATCO Pharma with a vision of “making specialty medicines accessible to all.” Today, they are market leaders in general oncology, and are known for their path-breaking new discovery of drugs at affordable prices.

The alliance between NATCO Group and L V Prasad Eye Institute first bloomed over two decades ago, when Sri Venkaiah Chowdary Nannapaneni came forward to support LVPEI’s endeavours to eliminate needless blindness. This effort brought out self-reliance in the affected people and communities. In the recent past, they supported LVPEI’s 17th Secondary Care Centre, the ‘NATCO Eye Centre’ at Kothur in Ranga Reddy District.

Each time they came forward to support any of LVPEI’s initiatives, they were stronger than before. More recently, this philanthropic legacy scaled a new high when Mrs. Swathi and Mr. Rajeev Nannapaneni, Vice Chairman & CEO, NATCO Pharma Limited, made the biggest ever contribution in a single installment till date. This indeed is a trailblazer in Indian philanthropy for young industrialists.

The latest proceeds have strengthened the efforts of The Child Sight Institute at LVPEI in the areas of children's screening programs, free treatment, and surgeries and providing free spectacles to needy children. Last year, 138,799 children were served through the Institute. Path-breaking research to aid young children, with innovative approaches to cure blindness and visual impairment, is another avenue benefited by this support.



I am very happy to be associated with LVPEI and I am sure this contribution would help in transforming lives.

- Rajeev Nannapaneni

The Bijayananda Patnaik Eye Centre - An epitome of philanthropic convergence



The extension of LVPEI's frontiers continued further with the inauguration of the network's eighteenth secondary eye care centre, The Bijayananda Patnaik Eye Centre in Keonjhar, North Odisha. Inaugurated on 1 March 2018, it is a true tribute to the Late Dr Bijayananda Patnaik who was greatly known for his contribution of introducing many high class methodologies in Retina specialty treatment in India. This centre has a special significance as it is the product of the exceptional philanthropic spirit of multiple ophthalmologists - donation of ancestral property in the heart of the town by Dr Rajinder Kalsi Patnaik in memory of her late husband, Dr Bijayananda Patnaik, both renowned Retina specialists of New Delhi; and with funding through the Combat Blindness International of Madison, Wisconsin, USA, founded by Professor Suresh Chandra, another renowned Retina specialist. We are also deeply indebted to Dr Catherine Taylor of Jack Deloss Taylor Charitable Trust, USA, for providing significant funding in memory of her father Jack Deloss Taylor that made this centre a reality.

With primary focus on half a million people around Keonjhar, one of the five tribal regions of Odisha state, accessibility and affordability of quality eye care is no more a challenge for the people in this area.

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Contributors

A Adinarayana, India
A Sashi Mohan, India
A Bheem Reddy Memorial
Trust, India
A S Chowdhri Nava Bharat
Foundation, India
Aarti and Siddarth
Velakacherla
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Kallam Anji Reddy Campus
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