



LV Prasad Eye Institute



Excellence

Equity

Efficiency

Activity Report 2016 - 2017



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Editors: Dr Sreedevi Yadavalli, Neha Hassija

Design: Y Yedukondalu, N Kishore Kumar and N Ramgopal

Assistance: Vamshi Inaganti, Sharmila, Lakshmi Sakuntala, B Satish and Ch Ravinder

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Foreword



The past year (April 2016-March 2017) can be distinctly characterized into a movement to the future with the implementation of the strategic objectives of 'Institutes of Excellence (IOE)' and 'Primary Eye Care (PEC)' (part of our 'Next 25' goals). Together these will accelerate our journey for achieving the goal of "Universal Eye Health" for the populations we serve directly and help in the capacity building of others to achieve this goal. Our concept of creating IOE has received positive response from several supporters that has led to the inauguration of some of these Institutes.

The Tej Kohli Cornea Institute has already made a sizeable impact and initiated partnerships with a few global institutions already. Aurobindo Geriatric Eye Institute, Academy of Eye Care Education, Institute of Eye Cancer, Institute of Dacryology, Brien Holden Institute of Optometry and Vision Sciences, Child Sight Institute (which has just received a major philanthropic gift), Institute for Ocular Regeneration and Institute for Vision Rehabilitation have begun to explore newer frontiers.

Into the Future

On the 'Primary Eye Care' front, we have expanded to more geographic territories, have begun forging new partnerships, enhanced the technology component to maximize benefits and are training more professionals. These two major programmes with advances made by our Innovation Center and Ophthalmic Engineering Center, have set a new direction for our Institute's future.

In clinical care, most campuses recorded record volumes without losing sight of equity. Record numbers of corneas harvested and transplanted, special forms of contact lenses (scleral lenses) dispensed, children served with special focus on cataract, glaucoma, retinopathy of prematurity and retinoblastoma eye cancer, scores of schools screened, special clinic on cortical visual impairment, focus on niche areas such as dacryology, incorporating more visual functions in routine testing, addition of a "Clinic for the Unknown" to solve some puzzling clinical problems were all representative of the year.

Research had an exciting and productive year with greater penetration into areas of stem cell biology genetics, visual psychophysics and imaging. Addition of new cGMP and cGLP facilities, adoptive optics scanning laser ophthalmoscopy, newer and expanded research space, addition of myopia research, biosynthetic cornea and ocular tuberculosis units with expanded work in infections, antibiotic resistance and newer ways of drug delivery contributed to this. Much of this work is significantly translational with potential for large scale application to counter several forms of ocular morbidity and dysfunction.

Equally exciting is the migration of some aspects of tertiary care such as corneal transplantation, laser therapy, management of more complex glaucomas, children's care and plastic surgery - bringing them closer to the "doorstep" of people who need them the most. These services

were initiated in about six of our secondary centres and the results are gratifying as they eliminate travel costs to the economically disadvantaged rural families.

Increasing adoption of technology in more areas of our work, more alliances forged towards this end, and our technology group receiving several honours, has been a clear indication of the potential of the reach and coverage of the innovative products.

This phenomenal year was a product of the hard work and compassion of our team and ever increasing support from generous individuals and organizations. The number as well as the size of contributions have increased, reflecting the trust we enjoy. This certainly adds to our burden of responsibility to do more and better. We are cognizant of this and ready to face the challenges with greater vigour as we move "Into the Future".



Gullapalli N Rao
Chair, Board of Trustees



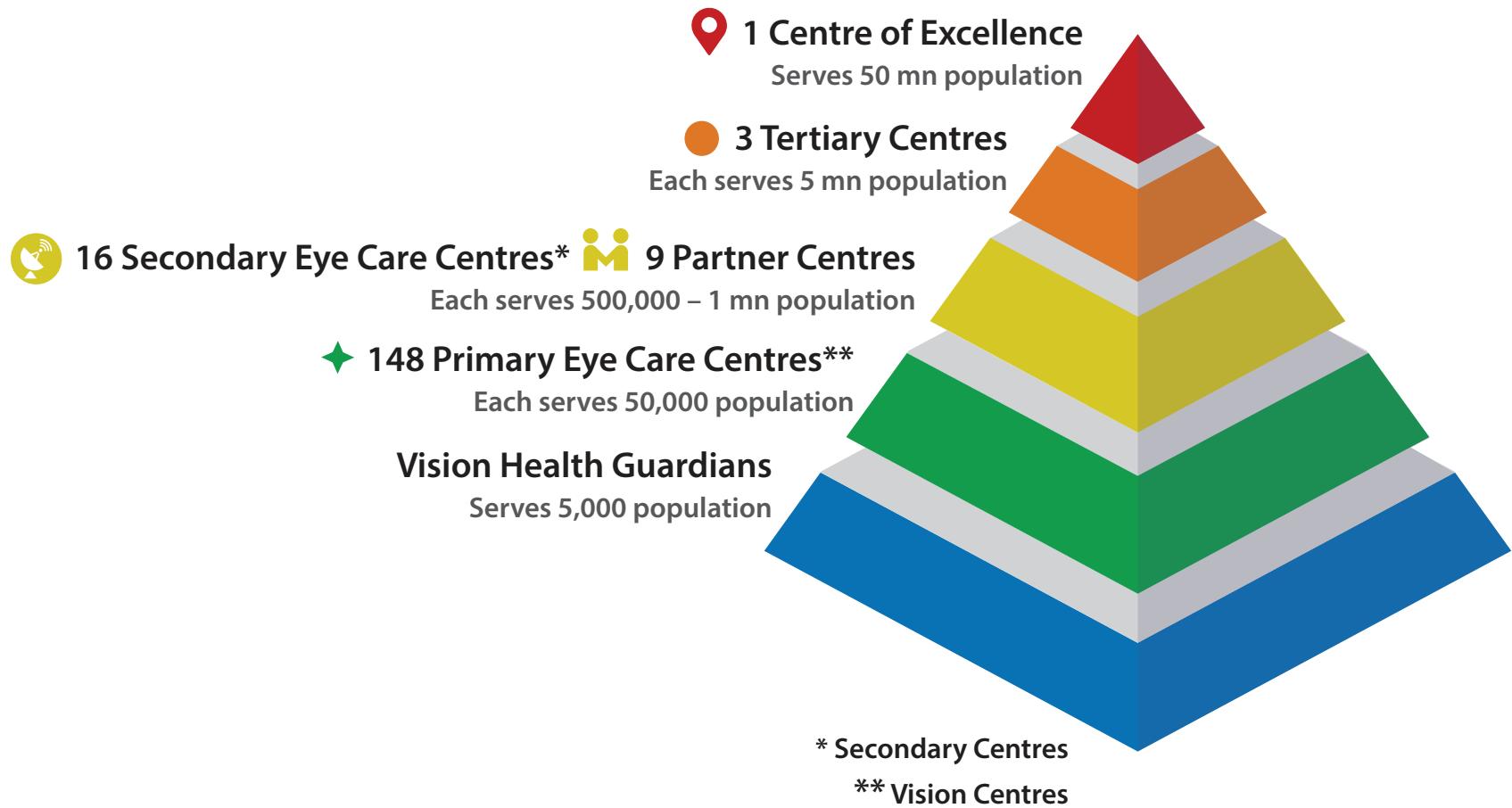
C o n t e n t s

| | | |
|----|--------------------------------------|----|
| 1 | Network Map | 04 |
| 2 | Year at a Glance | 06 |
| 3 | 30 Years of Excellence | 07 |
| 4 | Highlights of the Year | 09 |
| 5 | Linkages | 10 |
| 6 | Awards & Honours | 12 |
| 7 | Campus News | 16 |
| 8 | Patient Care | 24 |
| 9 | Vision Rehabilitation | 30 |
| 10 | Eye Banking | 34 |
| 11 | Rural and Community Eye Health | 38 |
| 12 | Education | 44 |
| 13 | Research | 48 |
| 14 | Innovation | 52 |
| 16 | Donor Stories | 56 |
| 17 | List of Board Members | 64 |

The LVPEI Eye Care Network

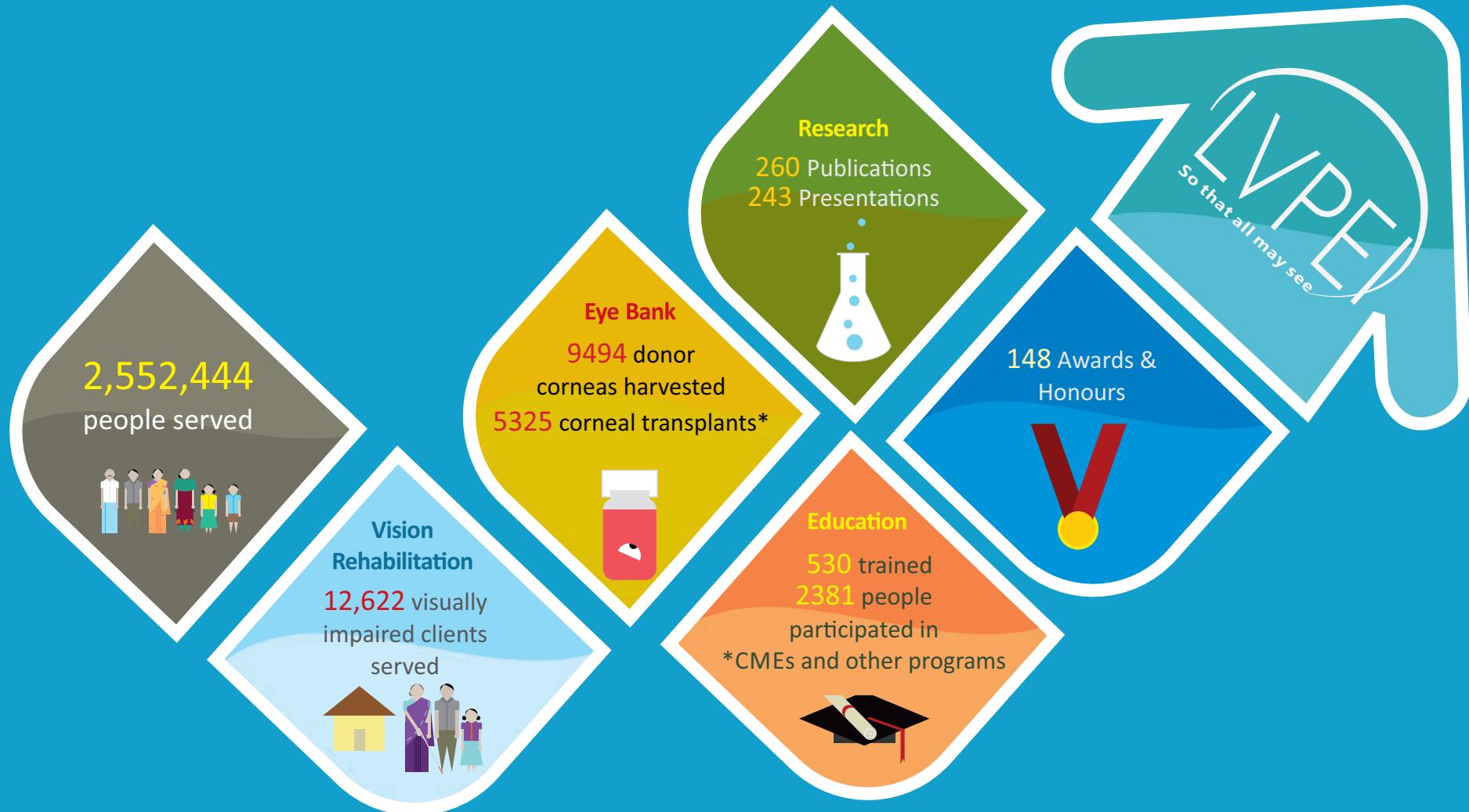


As of March 2017



The Year at a Glance

(April 2016 to March 2017)



*Continuing Medical Education

*3011 corneal transplants within the LVPEI network and 2314 outside the LVPEI network

For more details, refer page no 25

30 Years of Excellence

(1987 to March 2017)

Served over 23.8 million people

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

11.68 million outpatients treated

1.22 million surgeries performed

0.16 million rehabilitated

69,084 donor corneas harvested

34,096 donor corneas transplanted

1028 stem cell based procedures

424 SLET* procedures

6000 villages provided with direct services through secondary and primary care

170 centres

19,497 Indian and foreign eye care professionals trained

2023 research papers published

43 PhDs awarded

Impact Created - 30 Years



National

- Helped upgrade eye care centres in 18 states in India
- Played a key role in forming the Eye Bank Association of India and in developing the manual for Indian Eye Banking Medical Standards
- Publication of the 'Indian Journal of Ophthalmology' for 12 years
- Established the Indian Eye Research Group, now a chapter of Association for Research in Vision and Ophthalmology (ARVO)
- Helped develop and standardise medical education curricula
- Govt of India adopted LVPEI's Vision Centre and Eye Health Pyramid models
- Initiated founding of VISION 2020 India

International

- A World Health Organization (WHO) Collaborating Centre for the prevention of blindness and a pioneer in developing eye health models for underserved areas of the developing world
- Member of Commonwealth Eye Health Consortium
- Secretariat of the International Agency for Prevention of Blindness (IAPB)
- International Centre for Eye Care Education
- International Association of Contact Lens Educators
- High quality eye care model programs for Asia and Sub-Saharan Africa
- Resource Centre for International Agency for the Prevention of Blindness (IAPB) and Operation Eyesight Universal
- Helped upgrade eye care centres in 12 countries
- Continues to be a world leader in eye banking and corneal transplants
- Training of eye care professionals from many countries



Highlights of the Year

First ever complex ophthalmic plastic surgery performed at secondary centre in Mudhole, Telangana



Indian Oil Centre for Rural Eye Health inaugurated at Bhubaneswar campus



Partial corneal transplant surgery DSEK performed at secondary centre in Nellore, AP

Akkineni Manoharamma Chemotherapy Unit inaugurated at Hyderabad campus



Corneal transplant surgery performed at secondary centre in Mudhole - the first in Telangana

Visakhapatnam campus gets NABH accreditation



*Eye donation fortnight observed



Srujan Center for Innovation inaugurated at new facility in Hyderabad campus



Innovative surgery - *SLET performed at secondary centre in Paloncha, Telangana



Ramayamma International Eye Bank (RIEB) crossed the 30,000 mark in the distribution of corneal tissues

Kapileswarapuram Vision Centre upgraded as Secondary Centre

- 16 Vision Centres inaugurated at Telangana and Andhra Pradesh through the year
- Teleophthalmic slit lamps installed at seven locations including secondary and vision centres

*Eye Donation Fortnight - 25 August to 8 September

*SLET - Simple Limbal Epithelial Transplantation

Allahadini Mishra Zebra-Fish Research Facility inaugurated at MTC campus



LVPEI Bhubaneswar named as Mithu Tulsi Chanrai (MTC) campus

New world record set - 2043 corneal transplants performed in a single year



Squint surgery performed at secondary centre in Thoodukurthy



Institute for Vision Rehabilitation inaugurated



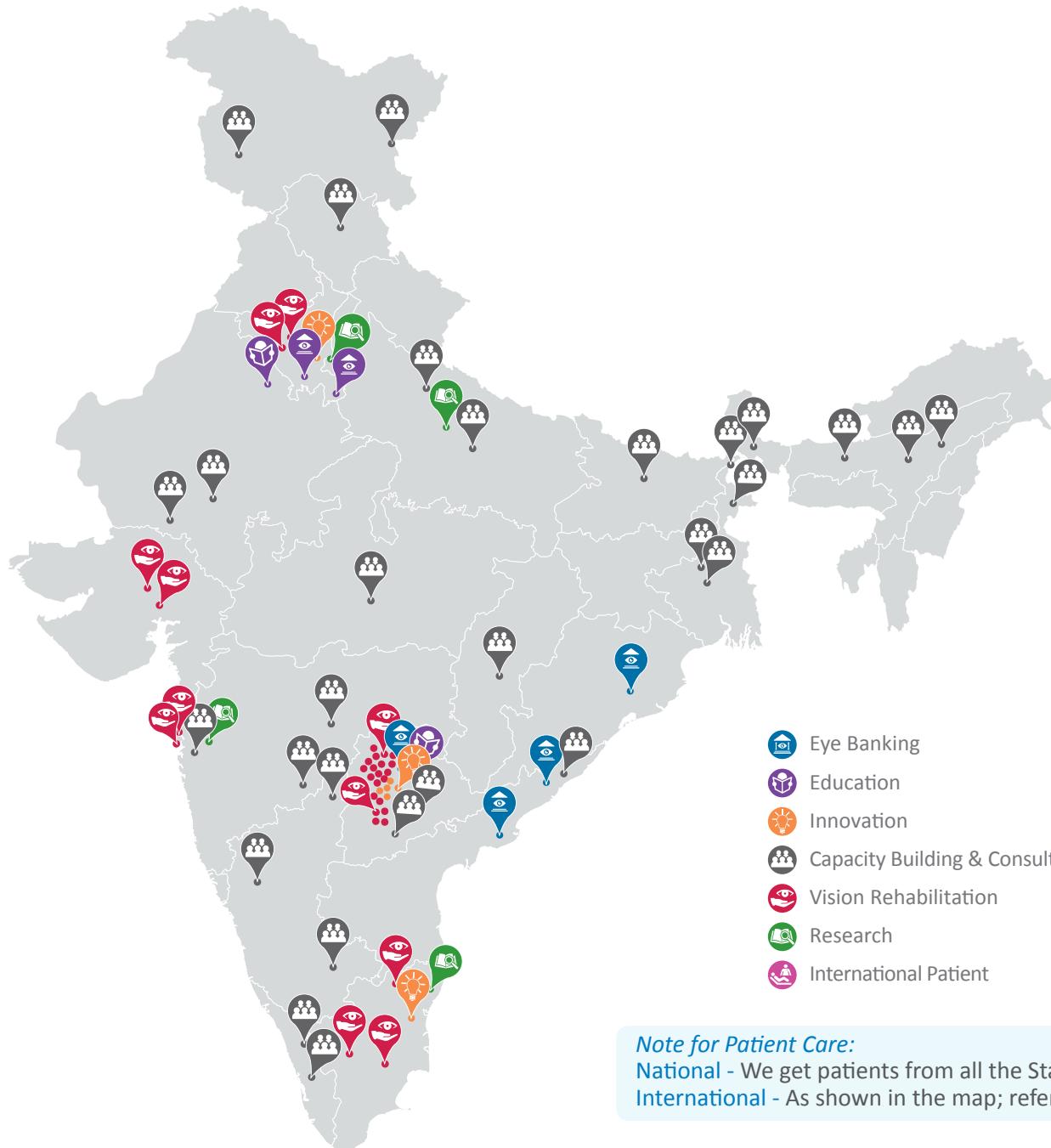
LVPEI hosts WHO meetings



Microsoft, LVPEI and Global Experts collaborate to launch MINE (Microsoft Intelligent Network for Eyecare)

Timeline: April - 2016 | May - 2016 | June - 2016 | July - 2016 | August - 2016 | Sept - 2016 | Oct - 2016 | Nov - 2016 | Dec - 2016 | Jan - 2017 | Feb - 2017 | Mar - 2017

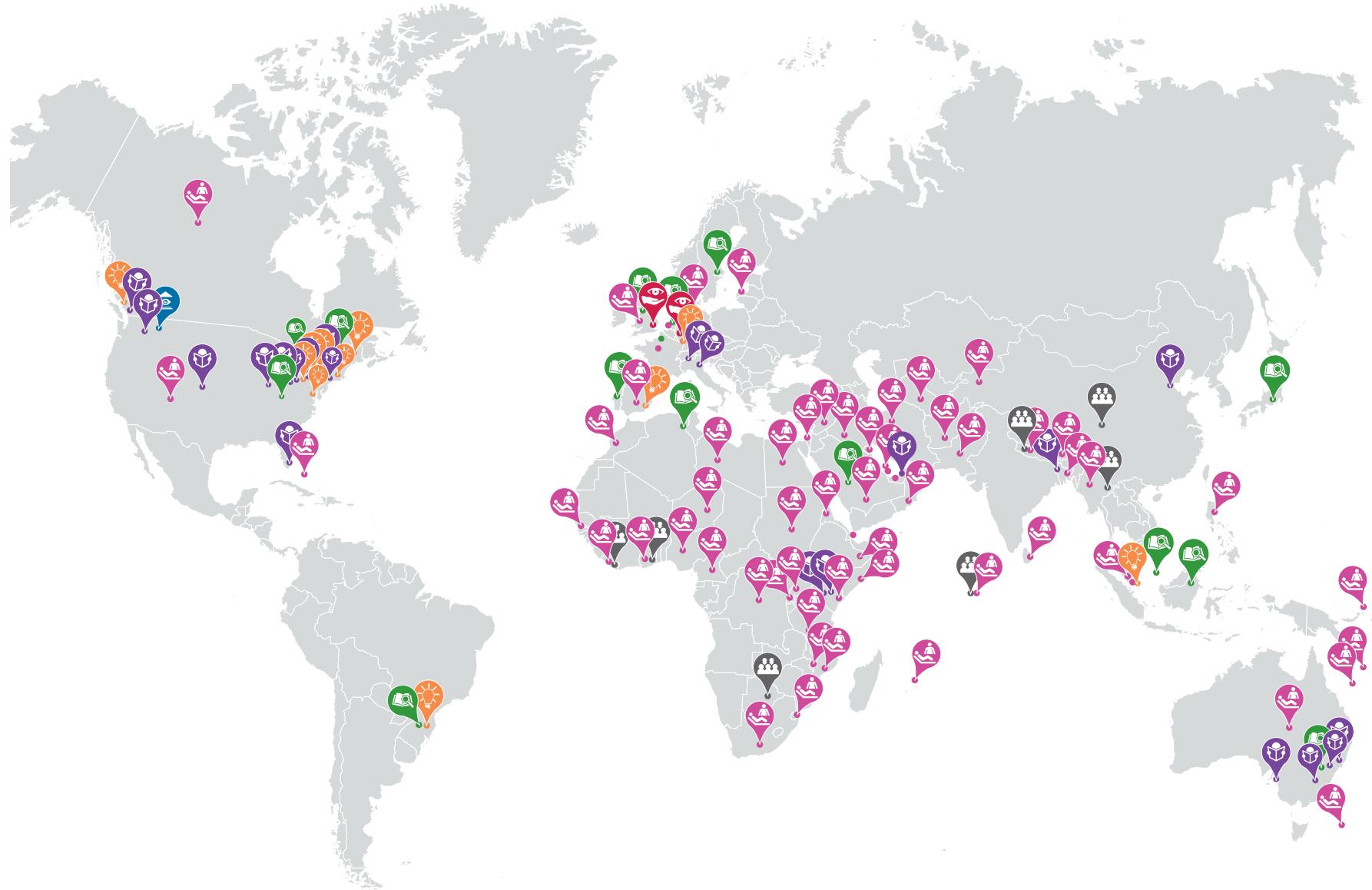
National



Note for Patient Care:

National - We get patients from all the States across India
International - As shown in the map; refer legend

International



Awards & Honours



TIMES HEALTH
SURVEY EDITION
Wednesday, 21 August 2016
An OME publication, The Times of India, Hyderabad
An OME publication, Health Professional Media

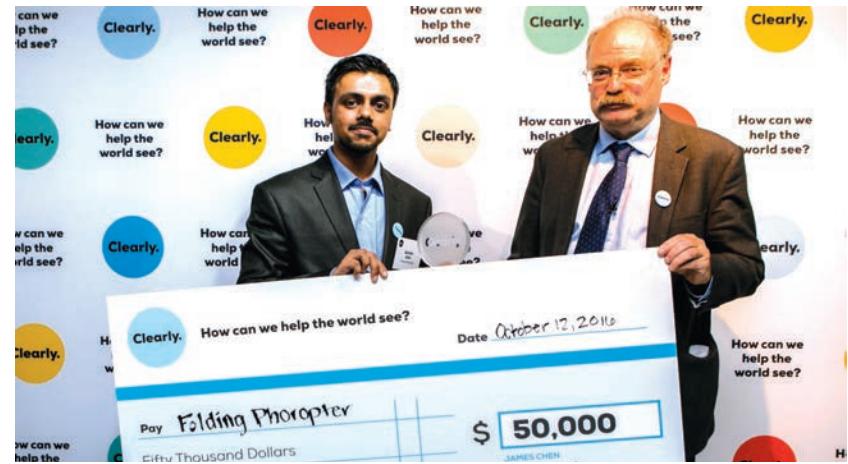
ALL INDIA LIFESTYLE HOSPITAL & CLINIC RANKING SURVEY 2016

The objective of this research was to arrive at a list of top lifestyle hospitals & clinics in India (for elective procedures/ treatments)

OPHTHALMOLOGY NATIONAL RANKING

| RANKING | Rank | Name | Rank |
|--------------------|------|---|------|
| National | 1 | L V Prasad Eye Institute, Hyderabad | 1 |
| National | 2 | Sankara Nethralaya, Chennai | 2 |
| National | 3 | Narayana Nethralaya, Bangalore | 3 |
| National | 4 | Navavali Super Speciality Hospital, Mumbai | 4 |
| National | 5 | Dr. Agarwal Eye Hospital, Chennai | 5 |
| National | 6 | Anand Eye Hospital, Madurai | 6 |
| National | 7 | Shroff Eye Centre, New Delhi | 7 |
| National | 8 | Indraprastha Apollo Hospitals, New Delhi | 8 |
| National | 9 | Max Super Speciality Hospital, Saket, New Delhi | 9 |
| National | 10 | Max Super Speciality Hospital, Saket, New Delhi | 10 |
| National | 11 | Amrita Institute of Medical Sciences, Kochi | 11 |
| National | 12 | Jaslok Hospital, Mumbai | 12 |
| Mumbai | 13 | Jaslok Hospital , Mulund, Mumbai | 13 |
| Mumbai | 14 | Fortis Hospital , Mulund, Mumbai | 14 |
| Mumbai | 15 | BLK Super Speciality Hospital, New Delhi | 15 |
| Mumbai | 16 | Centre for Sight, Delhi | 16 |
| Mumbai | 17 | Fortis Memorial Research Institute, Gurgaon | 17 |
| Mumbai | 18 | Asian Eye Institute & Laser Centre, Mumbai | 18 |
| Mumbai | 19 | Dr. L.H. Hiranyandani Hospital, Mumbai | 19 |
| Mumbai | 20 | National Institute of Ophthalmology (NIO), Pune | 20 |
| Chennai | 1 | Kohinoor Hospital, Mumbai | 21 |
| Chennai | 2 | REGIONAL RANKINGS - SOUTH | 22 |
| Chennai | 3 | L V Prasad Eye Institute, Hyderabad | 1 |
| Chennai | 4 | Sankara Nethralaya, Chennai | 2 |
| Chennai | 5 | Narayana Nethralaya, Bangalore | 3 |
| Chennai | 6 | Dr. Agarwal Eye Hospital, Chennai | 4 |
| Chennai | 7 | Anand Eye Hospital, Madurai | 5 |
| Chennai | 8 | Amrita Institute of Medical Sciences, Kochi | 6 |
| Hyderabad | 9 | Apollo Hospital, Bangalore | 7 |
| Hyderabad | 10 | Netrindham Superpecialty Eye Hospital , Bangalore | 8 |
| Hyderabad | 11 | Apollo Health City, Hyderabad | 9 |
| Hyderabad | 12 | Win Vision Eye Hospitals, Hyderabad | 10 |
| Hyderabad | 13 | HYDERABAD RANKINGS - HOSPITALS | |
| Surgery, Hyderabad | 1 | L V Prasad Eye Institute, Hyderabad | 1 |
| Surgery, Hyderabad | 2 | Apollo Health City, Hyderabad | 2 |
| Surgery, Hyderabad | 3 | Win Vision Eye Hospitals, Hyderabad | 3 |
| Surgery, Hyderabad | 4 | Continental Hospitals, A Gleneagles Facility, Hyderabad | 4 |
| Surgery, Hyderabad | 5 | Maxivision Eye Hospital, Hyderabad | 5 |
| Surgery, Hyderabad | 6 | Challa Eye Hospital, Hyderabad | 6 |
| Surgery, Hyderabad | 7 | Dr. Agarwal Eye Hospital, Hyderabad | 7 |
| Surgery, Hyderabad | 8 | Mediclini Hospital, Hyderabad | 8 |
| Surgery, Hyderabad | 9 | Spark Eye Care Hospital, Hyderabad | 9 |
| Hyderabad | 10 | HYDERABAD RANKINGS - CLINIC | |
| Hyderabad | 11 | Partha Dental, Hyderabad | 1 |
| Hyderabad | 12 | Apollo White Dental Care, Hyderabad | 2 |
| Hyderabad | 13 | Dentix's, Hyderabad | 3 |
| Hyderabad | 14 | The Dental Specialists, Hyderabad | 4 |
| Hyderabad | 15 | Dr. Motiwala Dental Clinic & Implant Care, Hyderabad | 5 |
| Hyderabad | 16 | FOCUS Dental, Hyderabad | 6 |
| Hyderabad | 17 | FMS Dental Hospitals, Hyderabad | 7 |
| Hyderabad | 18 | Smileline Dental Hospital, Hyderabad | 8 |

Best Hospital for Ophthalmology for LVPEI, in three categories - National, Regional (South) and Hyderabad, Times of India 'All India Lifestyle Hospital and Clinic Ranking Survey 2016'.



Srujana Center for Innovation: (a) Folding phoropter awarded \$50,000 second prize Clearly Vision, London (b) Open Indirect Ophthalmoscope, shortlisted finalist, Hackaday Prize; won \$2000 in 'automation' category (c) Pediatric Perimeter among top 17 innovations in Medical Science and Biotechnology, displayed at 'Festival of Innovation' at Rashtrapati Bhavan, Delhi.

Ramayamma International Eye Bank (RIEB) won Excellence in Eye Banking, and 3000 Transplants Club awards, SightLife Annual Meeting.



9th CIDC Vishwakarma Award to **Velamati Soubhagyavathamma Building** in 'Best Project' category, Construction Industry Development Council (CIDC).

Uday Addepalli

- Postgraduate Student Scholarship Travel Grant and Runner-up, amateur photography, IAPB
- Winning Entry, UNSW Optometry and Vision Science - photo and video

Mohammad Javed Ali

- Editorial Board, Graefe's Archive for Clinical and Experimental Ophthalmology
- Rhinocon Keynote Medal, 29th All India Rhinology Society
- International Ophthalmic Hero Award, AIOS

Ramam Atmakuri

- Co-Convenor, CSR panel, Confederation of Indian Industry (CII) Telangana
- Board Member, Project Management Institute India

Bhupesh Bagga

- Runner-up, Keracon film challenge, Cornea Society of India

D Balasubramanian

- Visiting fellow, Institute for Advanced Study, Stellenbosch University, South Africa
- Lifetime achievement award, Indian Peptide Society
- Institute Fellow award, Indian Institute of Technology (IIT), Kanpur

Shrikant Bharadwaj

- Member, Core committee for defining curriculum of vision/ ophthalmic technicians, Ministry of Health and Family Welfare, Govt of India.

Sayan Basu

- Achievement Award, AAO
- Adjunct Associate Professor of Ophthalmology, URMC

- Pioneering work in stem cell research, international documentary 'Sight: The Story of Vision'
- Young Achiever award, Vidarbha Ophthalmic Society

Nandini Bothra

- Best Poster, 75th AIOS

Subhabrata Chakrabarti

- Global Mentor, ARVO
- Member, Professional Development & Education Committee, ARVO
- Ex Officio Member, International Chapter Affiliate Committee, ARVO
- Co-Chair, Associate Advisory Board, World Glaucoma Association
- Program Committee Member, World Glaucoma Congress, Helsinki
- Scientific Session Organizer and Chair, International Society for Eye Research, Tokyo
- Lead speaker, ThermoFisher Genetics Solutions World Tour Symposium
- Chancellor's nominee, Dr MGR Medical University, Tamil Nadu
- Executive Committee, Indian Society of Human Genetics

Jay Kumar Chhablani

- First Dr Ian Constable Lecture, APVRS
- Achievement Award, American AAO
- Committee Member, AAO Global ONE Network
- 'Best of Show' video award, EURETINA, Copenhagen
- Yasuo Tano Travel Grant, APAO
- Faculty, ASRS Symposium
- Adjunct Associate Professor of Ophthalmology, URMC

- Member, International Retina Panel
- Honorary Secretary, Hyderabad Retina Society

Anthony Vipin Das

- Microsoft Azure Research Award
- Director, Microsoft Intelligent Network for Eyecare (MINE)

Shilpa Das

- Two best poster awards, AAO

Taraprasad Das

- Regional Chair, South East Asia, IAPB
- Editorial Board, Ophthalmic Research
- WHO Consultancy, Diabetic Retinopathy
- Associate Editor, Asia Pacific Journal of Ophthalmology
- William J Holmes Lecture, APAO
- Member, APAO Council
- Chair, Ethics Committee, Indian Institute of Public Health
- TNC Vedantham Memorial Oration Lecture
- G Venkataswamy Oration Lecture, Tamil Nadu Ophthalmic Association
- Member, Advisory Board - Ophthalmology, 13th Five Year Plan, Govt of India

Sourav Datta

- Best oral presentation, Dr E Vaithilingam Memorial Conference

Tarjani Dave

- Best poster presentation in Oculoplasty and video selection in Top 15, 75th AIOS

Vivek Dave

- Adjunct Associate Professor of Ophthalmology, URMC
- JM Pahwa Award, best free paper, Vitreo-Retinal Society – India

Navya Deepthi

- Best oral presentation (student category), Dr E Vaithilingam memorial conference, Sankara Nethralaya
- Young Optometry Researcher Rolling Trophy, India Vision Institute

Gousia Faraha

- Travel grant, Dr E Vaithilingam memorial conference, Sankara Nethralaya

Prashant Garg

- Member, Global Advisor Committee, AAO
- Invited author, AAO, 'Focal Points Module' on Parasitic Keratitis
- Editorial Board, EuCornea Journal

Naresh Gattu

- 3 honourable mentions, 1st and 3rd prize, Ophthalmic Photographers' Society Exhibit, ASCRS-ASOA Annual Symposium & Congress

Shweta Gupta

- Travel Grant, Centre for International Co-operation in Science (CICS) for 32nd APAO Congress

K Hariharan

- Eye banking Leader of the Year, SightLife Annual Meeting

Subhadra Jalali

- Member, ROP Care Team, Ministry of Health, Bangladesh, in collaborating with Orbis International
- Achievement Award, APAO
- First Prof Syedur Rahman Memorial Oration, Bangladesh Vitreoretina Society
- Adjunct Associate Professor of Ophthalmology, URMC
- R P Tandon oration, Mid-term conference, Jharkhand

- Ophthalmological Society and Bihar Ophthalmological Society**
- Founder Member, Indian ROP Society
 - Mother Teresa award, Hyderabad Women Empowerment Group
- Joveeta Joseph**
- Young Scientist award, Telangana Academy of Sciences
- Praveen Joseph S**
- Fulbright-Nehru Doctoral Fellowship
 - Young Scientist Award, K V Rao Scientific Society
 - Best Poster, ARVO India Chapter meeting
- Meha Kabra**
- Young Scientist Award, Indian Society of Human Genetics
 - Best Poster, ARVO India Chapter meeting
- Swathi Kaliki**
- Associate Editor, Oncology section, BMC Ophthalmology
 - Adjunct Assistant Professor of Ophthalmology, URMC
 - Crossed 100 publications on PubMed
 - Best paper, P Ramchander competitive free paper session, TOS
 - Best Paper, Inflammation session, 75th AIOC
- Aditya Kapoor**
- C S Resmi Best Video Session, AIOS
- Twinkle Katyal**
- Travel grant, Dr E Vaithilingam memorial conference, Sankara Nethralaya
- Inderjeet Kaur**
- Treasurer, Indian Society of Human Genetics
- Ramesh Kekunnaya**
- Honour Award, AAPOS
 - Best Paper, 42nd annual meeting, AAPOS
 - Member Faculty, Strabismus & Pediatric Ophthalmology section, F1000Prime
 - Associate Editor, Pediatric Ophthalmology and Strabismus section, BMC Ophthalmology
 - Annual Program Committee, AAO
 - Low Vision and Rehabilitation committee, AAPOS
 - Marylin Miller Lecture, Ophthalmological Society of Nigeria
 - Achievement Award, APAO
 - Best Video Gold Medal, Joint meeting, AAPOS - Strabismus and Pediatric Ophthalmological Society of India
- Rohit Khanna**
- Leading international expert at WHO to discuss cataract management strategies
- Preetam Kumar**
- Best Poster presentation, Dr E Vaithilingam Memorial Conference
- Mayank Mahajan**
- Best Comprehensive Ophthalmology Fellow of the Year - Village Vision Complex Network, LVPEI
- Srinivas Marmamula**
- Featured in the 40th anniversary publication of the British Council for Prevention of Blindness report
 - Delivered the prestigious 'The Rich Lecture', University of Alabama, Birmingham
 - ALO (Alumni of LVPEI Optometrists) Alumnus of the Year Award
- Ashik Mohamed**
- CSIC for Development (iCOOP) Fellow, Visual Optics and Biophotonics Lab, Instituto de Óptica "Daza de Valdés", Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain
- Sujoy Mukherjee**
- 2 Honourable Mentions, photography contest, primary care section, American Academy of Optometry
- Milind Naik**
- Executive Committee, APSOPRS
 - Editorial Board, Journal of Aesthetic Cutaneous Surgery and Indian Journal of Ophthalmology
- Raja Narayanan**
- Advisory Board, Management of Polypoidal Choroidal Vasculopathy
 - Faculty, Duke University, Retina Grand Rounds
 - Council member, APAO
 - Honorary Secretary, VRSI
 - Editorial Board, Indian Journal of Ophthalmology
 - Faculty, Indian School of Business (ISB)
 - Adjunct Professor, School of Medicine and Dentistry, URMC
- Goni Neelaveni**
- Best Special Educator, Lioness Club of Hyderabad
- Vinay Kumar N**
- Best poster award, ARVO India Chapter Meeting
- Krushna Gopal Panda**
- Grand Prize, 2nd Runner-up, and Honorable Mention, photography contest, primary care section, American Academy of Optometry
- Tapas Ranjan Padhi**
- Member, ROP Care Team, Ministry of Health, Bangladesh, in collaborating with Orbis International
 - Program In-charge, Queen Elizabeth Diamond Jubilee Trust (QEDJT), Supported program on ROP at Odisha
- Bhavik Panchal**
- Travel grant, Science and Engineering Research Board, for 32nd APAO Congress
- Rajeev Reddy Pappuru**
- Honour Award, ASRS
- P K Sai Prakash**
- Eminent Educationist Award, Indo-American Education Summit, The Indus Foundation
- Divya Rao**
- Best Poster, Glaucoma Society of India conference
- Muralidhar Ramappa**
- Best Free Paper, Best Poster and Top 15 research paper, AAO
 - Adjunct Associate Professor of Ophthalmology, URMC
 - International Ophthalmic Hero Award, AIOS
 - Best Poster Award, TOS
- Padmaja Kumari Rani**
- Member, ROP Care Team, Ministry of Health, Bangladesh, in collaborating with Orbis International
- Rajkishori Rana**
- Narsing Rao best free paper award, Uveitis Society of India's annual meeting
- Gullapalli N Rao**
- 2017 Ophthalmology Hall of Fame, ASCRS.

Suryasnata Rath

- Best paper Ocular Pathology, 75th AIOC

Jagadeesh C Reddy

- Adjunct Assistant Professor of Ophthalmology, School of Medicine and Dentistry, URMC

Mamatha Reddy

- Innovative Young Biotechnologist Award, Department of Biotechnology, Govt of India

Sanhita Roy

- Member, Indian National Young Academy of Science

Virender Sachdeva

- Associate Editor, Pediatric

- Ophthalmology and Strabismus, BMC Ophthalmology
- Reviewer, British Journal of Ophthalmology, BMC Ophthalmology, Indian Journal of Ophthalmology, Archives of Medicine and Health Sciences
- Expert panel, Neuro-ophthalmology Free papers for AIOC

Virender S Sangwan

- 2 Best Posters, AAO
- Oration, Indian Society of Cornea and Keratorefractive Surgeons conference
- Rustom Ranji Oration, TOS
- Ranked 4th - Medical Researchers

in India, Department of Science and Technology

- Sun Pharma Research Award 2015 – Medical Sciences & Clinical Research

Savitri Sharma

- Fellow, Telangana Academy of Sciences

S Shivaji

- Prof Biswambhar Rajguru Oration, Odisha State Ophthalmological Society
- Polar Science & Cryosphere award, Ministry of Earth Sciences, Govt. of India

Mudit Tyagi

- Honour Award, ASRS

Pravin Vaddavalli

- Chairman, Scientific Committee, TOS
- Executive Committee, Cornea Society of India

Jachin D Williams

- Eye Health Hero award, IAPB

Alumni Awards

K V Ravi Kumar: (a) Runner-up best video, Intraocular Implant & Refractive Society (b) Dr K Vengal Rao best paper, Swaroop best video, best of APOS, A P State Ophthalmic Conference

Vivek Labhishetty: Dr Emerson Woodruff Scholarship in Paediatrics

Sushmita Shah: Video award, XI International Congress on Advances in Ophthalmology, EyeAdvance 2016

Preeji Sudharman: 2016 William C Ezell Fellowship, American Optometric Foundation

Note: International Awards National Awards

Abbreviations

AAO - American Academy of Ophthalmology

AAPOS - American Association for Pediatric Ophthalmology & Strabismus

AIOS - All India Ophthalmological Society

APAO - Asia Pacific Academy of Ophthalmology

APSOPRS - Asia Pacific Society of Ophthalmic Plastic & Reconstructive Surgery

APVRS - Asia-Pacific Vitreo-retina Society

ARVO - Association for Research in Vision and Ophthalmology

ASCRS - American Society of Cataract and Refractive Surgery

ASOA - American Society of Ophthalmic Administrators

ASRS - American Society of Retina Specialists

IAPB - International Agency for the Prevention of Blindness

TOS - Telangana Ophthalmic Society

UNSW - University of New South Wales

URMC - University of Rochester Medical Center

VRSI - Vitreo Retina Society of India

WHO - World Health Organization



Kallam Anji Reddy Campus

We completed a little more than a year of patient care services at the Velamati Soubhagyavathamma building. The enhanced infrastructure is enabling us to provide care to greater numbers - 365,000 patients in the outpatient and 57,000 surgeries, a growth of about 25% compared to last year. The potential slowing down due to the use of electronic medical records is almost overcome and the average waiting times have reduced despite the increased numbers. We are thankful to all our donors who supported us in this transition.

The state-of-the-art technology and dedicated facility for femtosecond cataract and refractive surgery services

allows us to devote personalized attention to our patients in a time efficient manner. Specialized surgeries such as Simple Limbal Epithelial Transplant, advanced Retinopathy of Prematurity, Refractory Congenital Glaucoma, Navigation Guided Orbital Surgery, etc ensure that we are at the leading edge of technology in providing quaternary level care to the most complex problems. We are proud of our dedicated team of doctors, optometrists, nursing and support staff who work with compassion and commitment to make us truly "Patient Centric". Our commitment to offer care - however complex - to all our patients, irrespective of their ability to pay, is what sustains our mission 'So that all may see'.

A handwritten signature in black ink, appearing to read "G. Chandra Sekhar".

G Chandra Sekhar
*Vice Chair,
Director,*
Kallam Anji Reddy Campus, Hyderabad



Microsoft Intelligent Network for Eyecare



Ms Arundhati Bhattacharya

Gebauer Refractive Surgery Outpatient Service



Senior delegation from UNSW



Rotary Club of Hyderabad

Suzannah Jessep

Highlights

Microsoft India, in collaboration with LVPEI, launched Microsoft Intelligent Network for Eye care (MINE). This is a mission-driven global consortium of like-minded commercial, research and academic institutions to apply artificial intelligence for the elimination of avoidable blindness and scale delivery of eyecare services worldwide. The partner organizations of this consortium include Bascom Palmer - University of Miami, Flaum Eye Institute - University of Rochester (USA), Federal University of Sao Paulo (Brazil) and Brien Holden Vision Institute (Australia).

State Bank of India (SBI) has supported LVPEI with ophthalmic equipment for non-paying patients. Ms Arundhati Bhattacharya, Chairman, SBI, unveiled a plaque on the occasion.

Gebauer Refractive Surgery Outpatient Service was inaugurated by Mr Steffen Gebauer, Managing Director, Gebauer Medizintechnik GmbH, Neuhausen, Germany.

LVPEI signed an MOU with Zynergy, a solar solutions company from Chennai, for installing 220 KW solar power plants across the network.

Rotary Club of Hyderabad funded ophthalmology equipment for the glaucoma outpatient clinic.

Eminent visitors:

Professor Ian Jacobs, President and Vice Chancellor, and a senior delegation from UNSW (University of New South Wales).

Professor Brian Cantor, Vice-Chancellor, University of Bradford, along with a senior delegation comprising Prof Stephen Rimmer and Mark Garratt.

Suzannah Jessep, Deputy High Commissioner for New Zealand.

Mr Y S Choudary, Minister of State, Science and Technology & Earth Sciences



Mithu Tulsi Chanrai Campus

Last year witnessed a spurt in growth, thanks to the tremendous support from philanthropists and the community at large. While we served 128,970 outpatients (24% free) and operated 15,133 patients (44% free), support came in from various organizations, notably Mission for Vision, Indian Oil Corporation, Dalmia Holdings, and the family of Mr Jayabardhan Mishra. This helped increase patient care capacity with additional outpatient and surgery rooms, Amblyopia clinic for children, Newborn Eye Health Alliance (NEHA), Centre for Rural Eye Health (CREH) and Zebra Fish Laboratory for translational research. The campus was named after Shri Mithu Tulsi Chanrai in recognition of the support extended by the Chanrai family.

The Queen Elizabeth Diamond Jubilee Trust grant is helping create an effective Diabetic Retinopathy care model in a district, and Retinopathy of Prematurity model in 5 districts. At the other end, 160,000 school children were screened in an ambitious project in Rayagada district.

Professor Deepak Edward from the Johns Hopkins University spent a week as Visiting faculty teaching glaucoma and eye pathology. Our colleague Srikant Sahu returned from the Schepens Eye Research Institute, Boston after a year of enriching his experience, which will benefit the institute in a significant way. We welcome a new year with new possibilities.

Sujata Das

Sujata Das
Campus Director,
Mithu Tulsi Chanrai Campus



Mithu Tulsi Chanrai Campus



Allahadini Mishra Zebra-Fish Research Facility

Newborn Eye Health Alliance



Eye Care Awareness Talks



Highlights

LVPEI Bhubaneswar's 11th anniversary on 16 January 2017 saw its renaming as **Mithu Tulsi Chanrai campus**, named after the father of Shri Jagdish Chanrai of Mission for Vision. Other dignitaries who graced the occasion included Shri Subroto Bagchi, Chairman - Skill Development Council, Government of Odisha; Smt Chanrai and senior officials from Mission for Vision - Ms Elizabeth Kurian, Mr Steve Oronsaye, Dr Prakash Mirchandani, Major D K Zarekar, Ms Cynthia D'Souza and Mr Mani Subramonian.

Allahadini Mishra Zebra-Fish Research Facility the new facility that was inaugurated, will significantly contribute to the research activities at the campus.

The **Abha Dalmia Newborn Eye Health Alliance (NEHA)** was inaugurated by Smt Abha Dalmia and Shri M H Dalmia, former President of OCL India Ltd. LVPEI Bhubaneswar is the only Centre in Odisha providing Pediatric retinal imaging, neonatal intensive care facilities, in addition to ROP care, and NEHA will further enhance these capabilities and reach in Odisha.

A highly interactive workshop on '**Standard Protocols for Operation Theatres (SPOT)**' was conducted at Indian Oil Centre for Rural Eye Health.

A series of **eye care awareness talks** were organized throughout the year for school going children, health professionals and other stakeholders.



GMR Varalakshmi Campus

July 7 2016 marked 10 years of the establishment of GMR Varalakshmi campus in Visakhapatnam.

A little more than a decade ago, two young gentlemen Mr O Naresh and Mr Appala Raju had met our chairman Dr Rao about the need for a tertiary facility to serve north coastal Andhra Pradesh. Thanks to their perseverance, 5 acres of land was allotted in the Health City. Operation Eyesight Universal came forward with a generous grant besides contributions from Mr O Naresh and his friends. The foundation stone was laid on May 26, 2005 and by July 7, 2006, patient care commenced. Over the past decade, we have served over 750,000 patients in the

outpatient and performed over 80,000 surgeries, 50% of them at no cost to the patient.

Team GMRV has since crossed many milestones, ranging from establishing vision centres in far flung areas, to reinvigorating Mohsin Eye Bank's hospital cornea retrieval program. The Aurobindo Geriatric Eye care centre, the first centre dedicated to eye care for the elderly, completed a year. Aurobindo Pharma gave a fillip to the venture with support to a new operating complex dedicated to geriatric patients.

We look forward to the next decade with renewed vigor and great anticipation.

A handwritten signature in black ink, appearing to read "Merle Fernandes".

Merle Fernandes
Director,
G M R Varalakshmi Campus, Visakhapatnam



Decennial Celebrations



NABH Accreditation



Multi Purpose Health Assistants



World Diabetes Day

Highlights

Decennial Celebrations: A CD titled “Clinical Pearls in Ophthalmology” was released by Dr V Raghunathan, Chief Executive Officer of GMR Varalakshmi Foundation and chief guest for the day.

Mr O Naresh, CEO, Symbiosys Technologies was the guest of honour.

Granted accreditation by the **National Accreditation Board for Hospitals and Healthcare Providers (NABH)**.

An educational campus tour program was organized for a group of people working as **Multi Purpose Health Assistants** at various government hospitals in Visakhapatnam.

To mark the **World Diabetes Day**, a patient education forum, highlighting the importance of a good diet for prevention against diabetes, and an awareness walk were organized.

Several **eye screening programs** were organized, one of them being at Harmony Foods Pvt Ltd.

Personality Development Session for the Patient Counseling Staff in collaboration with ‘Junior Chamber International (JCI)’ was organized.



Kode Venkatadri Chowdary Campus

With the capital city of Andhra Pradesh coming up in nearby Amaravathi, Vijayawada is a hub of activities. So is Kode Venkatadri Chowdary campus, the institute's youngest tertiary centre, with several new initiatives this year.

The addition of 5 neonatal intensive care units (NICUs) to our NICU based retinopathy of prematurity (ROP) screening program will help mitigate childhood blindness due to ROP in this region. The Ocularistry service for cosmetic rehabilitation of individuals with their eyeball either absent or lost in shape, will minimize the psychological trauma of disfigurement of face.

The Ocular Oncology service is supported by colleagues in medical and radiation oncology affiliated to other centres in the

city. The weekly interdisciplinary clinic for intervention strategies for children with cerebral visual impairment has a pediatric ophthalmologist, vision rehabilitation specialist, physiotherapist and speech therapist working together.

The Tej Kohli Eye Bank began operations and collected 71 corneas of which 51 were distributed for transplantation. Very soon, the eye bank will be housed in a state-of-the-art facility. Also commenced was a Fellowship in Comprehensive Optometry – a new program that links Optometry with Community Eye Health.

This year, we also welcome Dr Siva Kumar Wurity (Anterior segment service) and Dr Santhipriya (Glaucoma service), and wish them a very productive career.

A handwritten signature in black ink, appearing to read "Prashant Garg".

Prashant Garg
Director,
Kode Venkatadri Chowdary Campus, Vijayawada



Highlights

6th anniversary celebrations on 16 February 2017.

The **Ocularistry (customised ocular prosthesis) services** at the campus commenced on 27 August 2016. The first patient receiving a prosthetic eye was a 29 year old gentleman from Vijayawada. Diagnosed with eye tumour, his left eye was removed, to stop the tumour from spreading to other parts of his body. To restore the cosmetic appeal of his face, a prosthetic eye was made for him.

The campus is contributing towards the **education of ophthalmic residents** by initiating residents ECHO (Extension of Community Healthcare Outcomes) clinics twice a month, and by the visits made by the campus faculty as guest faculty at the Guntur medical college. This is in addition to the existing rotation program where the residents of Mamta medical college, Khamam come for observership to the campus.

In collaboration with DEEP Foundation Vijayawada, a series of **eye screening programs for the Vijayawada police personnel** and their family members were organized, starting from 11 April 2016.



Patient Care Services

'Patient First' and 'Equity' are two of the five values we practice in the institute. The care extends across a remote village through a Vision Centre manned by a trained technician, to cities through our tertiary and quaternary centres that offer an entire range of medical and surgical eye care. Appropriate care and affordable for the location, the LVPEI service extends from a simple prescription of spectacles at a village to the most complex eye problem in the city. The institute believes in providing quality assured, evidence based, and comprehensive eye care round the year as close as possible at the doorstep of people. Manned by the most able health care personnel, in a given day LVPEI examines at least 4500 outpatients (distributed at 21% in Vision Centres, 24% in Secondary centres, 26% in Tertiary centres, and 29% in Quaternary Centre)

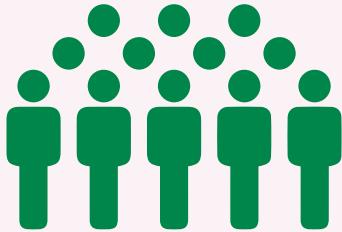
and performs 400 surgeries (distributed 28% in Secondary centres, 32% in Tertiary Centres, and 40% in Quaternary Centre) through a network of 148 Vision Centres, 2 City Centres, 16 Secondary Centres, 3 Tertiary Centres, and 1 Quaternary Centre. Connected by smart electronic medical record (EMR) the patient care is seamlessly connected.

Each of our larger centres at Hyderabad, Bhubaneswar, Visakhapatnam and Vijayawada have all the necessary ancillary support, be it general anaesthesia or laboratories (pathology, microbiology, clinical biochemistry). The other unique signature of LVPEI is the integrated low vision and rehabilitation services meeting the patient demand. Each of these centres is also a physical beauty surrounded by as much greenery as possible and as much green energy as available.

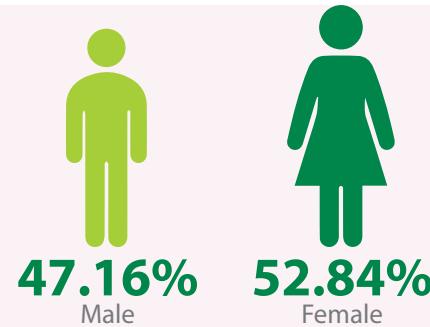
A handwritten signature in black ink that reads "Taraprasad Das".

Taraprasad Das
*Vice Chair,
Patient Care Policy*

Eye Care Services Across the Network



Total Population Reached
2,552,444

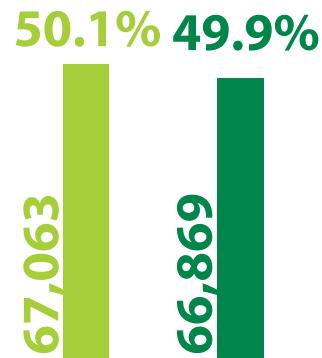
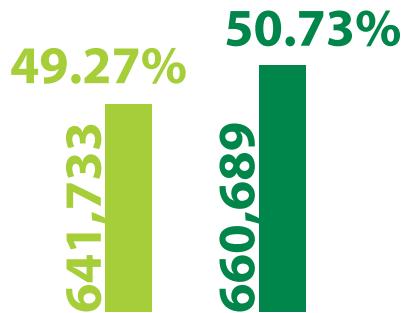


47.16%
Male

52.84%
Female

Outpatient Visits
1,302,422

Surgical Procedures
133,932



1,116,090
people screened
through various
community eye health
initiatives *(at no cost)*

Paying Non-Paying

Paying Non-Paying

Eye Care Services Across the Campuses

Outpatient Visits

Paying Non-Paying

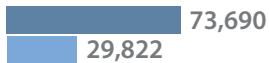
Kallam Anji Reddy Campus, Hyderabad - Total **388,351**



Mithu Tulsi Chanrai Campus, Bhubaneswar - Total **128,970**



GMR Varalakshmi Campus, Visakhapatnam - Total **103,512**



Kode Venkatadri Chowdary Campus, Vijayawada - Total **83,766**



Surgical Procedures

Paying Non-Paying

Kallam Anji Reddy Campus, Hyderabad - Total **57,286**



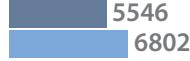
Mithu Tulsi Chanrai Campus, Bhubaneswar - Total **18,345**



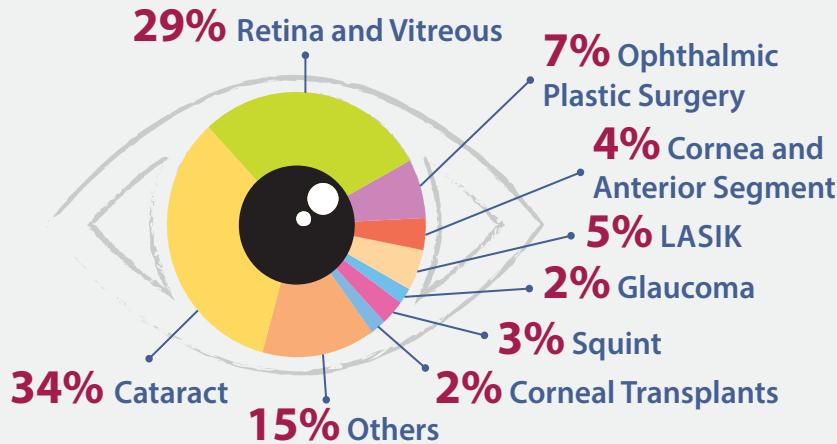
GMR Varalakshmi Campus, Visakhapatnam - Total **13,700**



Kode Venkatadri Chowdary Campus, Vijayawada - Total **12,348**



Analysis of Surgical Procedures



LVPEI continues to be the world leader in corneal transplants



International Patients
2030

Rural Eye Health



Outpatient Visits
597,823

50.3%
146,900

16 Secondary Centres
(Rural Eye Hospitals)
292,549

49.7%
145,649



Surgical Procedures
32,253

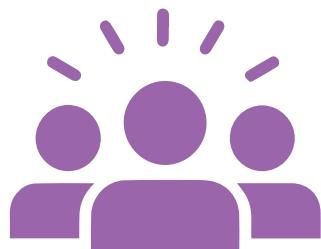
16 Secondary Centres
(Rural Eye Hospitals) **32253**

8571
26.6%

23,682
73.4%

Paying Non-Paying

Community Eye Care



Population reached through
community screening

380,651

Population reached through various
children's eye health initiatives

735,439



6000 Total villages covered



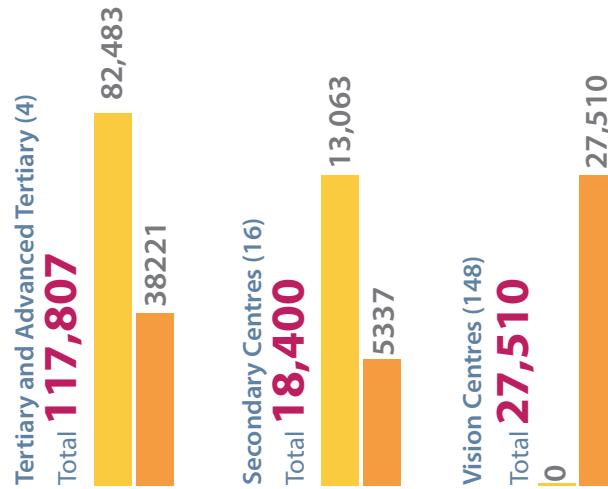
18 Total districts covered

Children's Eye Care Services

932,920 Children Reached

Outpatient Visits

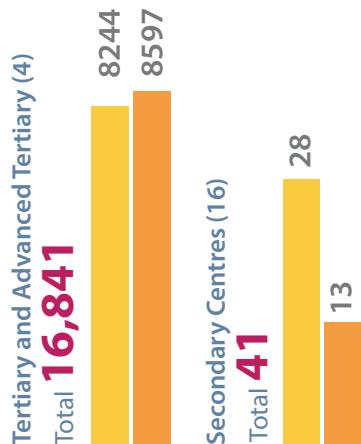
180,599



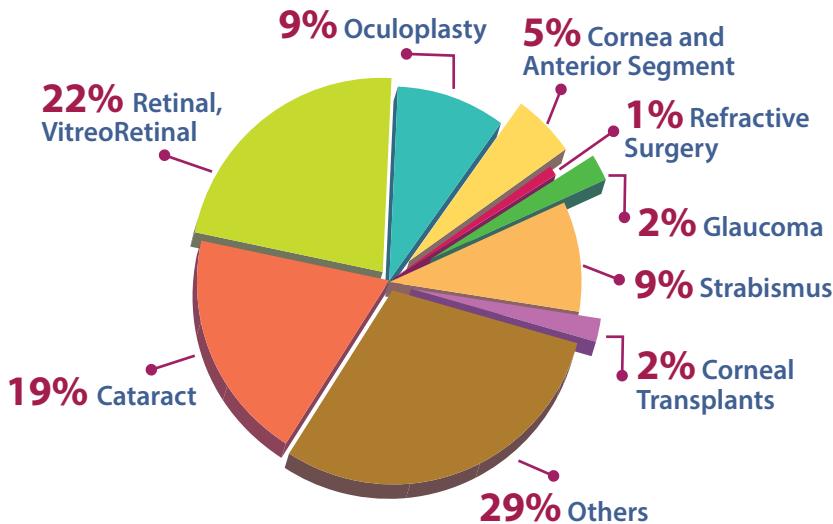
Paying
Non-Paying

Surgical Procedures

16,882



Analysis of Surgical Procedures



Community Eye Health Initiatives



700,015
School screening
35,424
Anganwadi screening

Patient Testimonials

"I brought my father V Rama Murthy for surgery and this was my first visit to LVPEI, the world renowned eye care institute. I visited a couple of times and every time my experience was top notch. The facility is clean, organized and I truly had a 'Wow' experience."

Satish Vadlamani

"Millions of thanks to the doctors, staff and management of L V Prasad Eye Institute for restoring vision for those who have lost it! Many needy people with eye problems are able to see because of LVPEI. Your services are invaluable. I wish that LVPEI reaches many more rural areas through its services."

Pirangi Sailu

"I heard a lot about LVPEI, and for the first time, went there to consult. The staff is very cooperative and understand well. Though the time taken for consultation was long, it was satisfactory. Cafeteria was spick and span and service was good. Well maintained stairs and walkways. You will never feel that you've been to hospital. The most interesting part is the greenery and rocks in the building - they will blow your mind."

Omkarnadh Sanka

"I am an agricultural labourer from Santhapalem village, Kothavalasa mandal, Vizianagaram district. My son, Malluvalasa Pavan Kumar, had black spots in his eyes since the age of two, and his eyelashes were so small that he could not open his eyes easily. He underwent a series of surgeries at LVPEI Visakhapatnam and can now see and is even going to school. We are amazed with the results of the surgery and the timely treatment given completely free of cost to someone from a remote village like ours."

Gopati Sundar Rao

Patients from across India and the world trust LVPEI



Vision Rehabilitation

Initiated in 1992, the vision rehabilitation services at the institute have now scaled up significantly and have touched the lives of 0.16 million people by helping them achieve their full potential despite visual impairment.

The academic excellence of our students who received educational assistance in the pursuit of their 10th and 12th grades, has been extremely gratifying. We are also delighted with the achievements of our young adult clients who were provided assistive computer training and are now working in reputed IT and retail industries, and leading a dignified life.

Completion of the 3 year long Community Based Rehabilitation program supported by Sight First - Lions Clubs International Foundation in Adilabad District, Telangana

state was an important milestone achieved in this year. Low vision and rehabilitation units have been integrated into 13 Secondary Centres in the state of Telangana, Karnataka, Andhra Pradesh and Odisha. In addition to the centre-based services, the secondary centres will also provide home-based training to the needy visually impaired.

The 2016 year-end marked a new beginning for us with the formal inaugural of 'Institute for Vision Rehabilitation' by Dr Poonam Khetrapal Singh, WHO Regional Director for South East Asia. Becoming a centre of excellence for vision rehabilitation service delivery, our focus now is to position ourselves both nationally and globally as a resource centre for education, training, advocacy and research.

A handwritten signature in black ink that reads "Beula Christy". The signature is fluid and cursive, with varying line thicknesses.

Beula Christy
Head of Services
Institute for Vision Rehabilitation



Dr Poonam Khetrapal Singh, WHO Regional Director for South East Asia, formally inaugurated LVPEI's 'Institute for Vision Rehabilitation' at Kallam Anji Reddy Campus, Hyderabad.

Community Based Rehabilitation

The 3 year long Community Based Rehabilitation (CBR) program supported by Sight First - Lions Clubs International Foundation in Adilabad was successfully completed on 31 July 2016. A first of its kind project, it integrated low vision and early intervention through CBR. The key highlights of the project that covered a population of 8,03,028 across 772 mandals and 18 villages are:-

- 1733 persons rehabilitated - including blind, low vision and persons with additional disabilities
- 395 aids and appliances distributed - including Low vision devices, wheel chair, calibers, cane, educational and early intervention material etc.
- 685 school screening and community screening programs organized
- 230 awareness programs organized
- 41 people provided economic rehabilitation



Glimpses of the activities across the network



Expansion of vision rehabilitation services in 13 secondary eye care centres



Job based vocational training workshops



Soft Skills training for students with visual impairment



The integrated fun camps organized across the campuses provide rich learning experiences to kids with visual impairment through a variety of sports, games, talent shows, and group play experiences, which otherwise is restricted in their routine life.

Clients can now experience the three famous monument of India - India Gate, Taj Mahal and Charminar through the tactile and audio painting installed at the institute's Hyderabad campus.



Volunteer meets were organized to thank the volunteers for the services rendered



The biannual Low Vision Awareness Programs (LAP) create awareness among ophthalmologists, optometrists, rehabilitation professionals, special educators, optometry students, opticians, vision technicians, ophthalmic technicians and administrators working in eye care organization on management of low vision. The 35th, 36th and 37th LAP were organized this year.



Clients Scale New Heights

- Shravya Kanithi, has aced her GMAT examination and has secured admission at Indian School of Business (ISB) for an eighteen month management programme, 2019-2020.
- Suribhi Mudgal, was the first runner-up at the recently concluded beauty pageant contest in Mumbai, exclusively for people with visual impairment. Present as judges were John Abraham, Subash Ghai and Javed Ali.
- Several other client students from the institute have passed their 10th and 12th grades with flying colours.

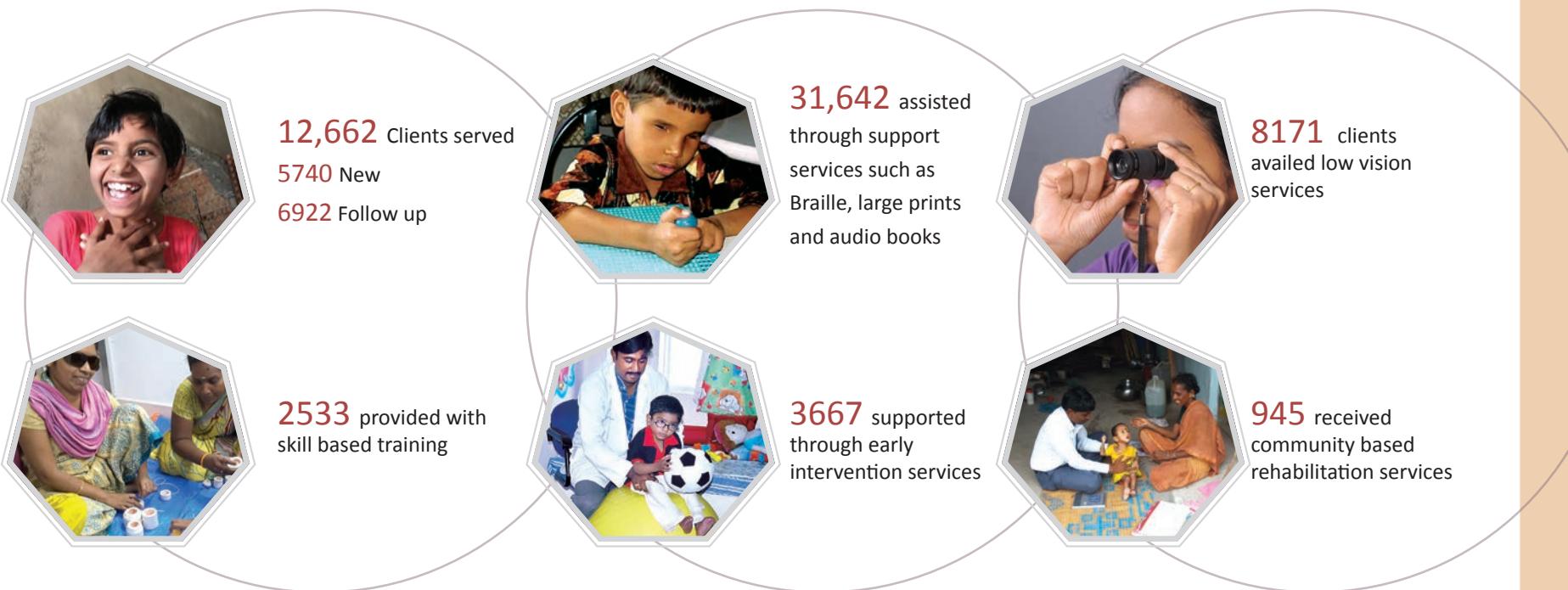


Shravya Kanithi



Suribhi Mudgal

Touching Lives, Rehabilitating Lives





Eye Banking

2016 was a fruitful year for eye banking activities in all aspects - tissue harvesting, distribution and expansion of activities in the states of Telangana, Andhra Pradesh and Odisha.

The Ramayamma International Eye Bank (RIEB), Hyderabad - a unit of Tej Kohli Cornea Institute (TKCI) - moved into a new, renovated and expanded location with state of the art infrastructure including a laboratory for the preparation of pre-cut tissues. The new facility can handle 10,000 corneal tissues, a goal set for the year 2020.

Another milestone was the initiation of the "Andhra Pradesh Eye Banking initiatives" in that state. Vebart Trust of Visakhapatnam joined hands with TKCI for

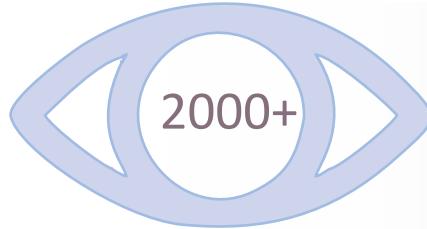
handling operations of Mohsin Eye Bank. In the first year of this collaboration the eye bank achieved a record growth of 110% in tissue harvesting and 280% in tissue utilization. The Tej Kohli Eye Bank of Vijayawada started its operations, collecting 227 corneas and distributing 127 for transplantation in the very first seven months. Soon, the eye bank will be housed in a dedicated premises equipped to meet the standards of a Centre of Excellence.

New records in operations and recognition for our team members marked the year, the most important being collecting 7167 corneas and supplying 3810 corneas for transplantation.

Nothing is impossible, if we have the will.

A handwritten signature in black ink, appearing to read "Prashant Garg".

Prashant Garg
Head,
Eye Banking Services



New Record Set

In the year 2016-17, RIEB collected **7167** corneas and distributed **3810** corneas for transplants to surgeons across the country. These numbers are the largest by any single eye bank in the country. LVPEI created yet another piece of history in the field of corneal transplantation with its Hyderabad campus becoming the first ever in the world to perform **2043** corneal transplants in a single year. This is a record for the highest ever corneal transplant surgeries from a single centre, anywhere in the world.

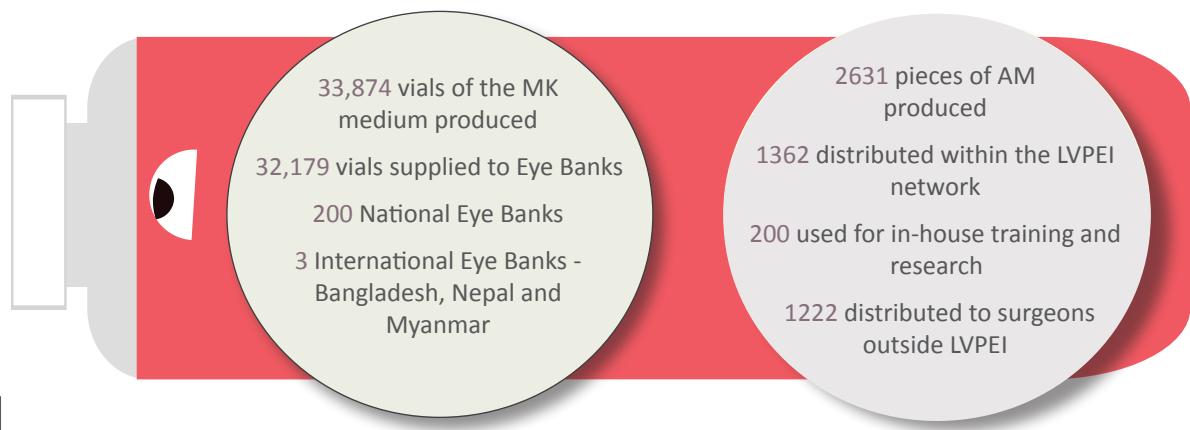
Product Development

RIEB uses **McC Carey-Kaufman (MK)**

Medium, which is specially developed at LVPEI as a cost effective product for the preservation and storage of corneas for up to four days. The eye bank also produces **Amniotic Membranes (AM)** for ocular surface reconstructive surgeries.



RIEB receives quality certificate for a period of two years from SightLife.



Training in Eye Banking



RIEB offers certificate courses to different cadres of eye bank personnel from India and other countries. Refresher courses in the latest advancements and techniques in eye banking are also organized.

23 technicians were trained as eye bank technicians, **11** in eye donation counselling and **9** in eye bank observership program.

Partner Eye Donation Centres



A total of **2607** donor corneas were collected from **35** centres that are part of RIEB's Network affiliates.

Detailed list on page 31

Tej Kohli Eye Bank

As part of the Andhra Pradesh Eye Banking Initiative and the Tej Kohli Eye Bank, the Hospital Cornea Retrieval Programme (HCRP) has been initiated at the Government General Hospital, Vijayawada; Government General Hospital, Guntur and the District Hospital at Eluru. From these three hospitals, 227 corneas have been collected and 127 corneas have been distributed. TKEB located in LVPEI's campus in Vijayawada is part of the LVPEI's Eye Banking network.

Mohsin Eye Bank

In the month of April 2016, the operations of Mohsin Eye Bank were taken over by LVPEI. A record of 1,082 corneas were collected - 110% growth compared to last year and 542 corneas utilized - 280% growth compared to last year.

Drushti daan Eye Bank

Year 2016-17 witnessed a spectacular increase in annual collections and transplants. We achieved a record collection of 1,245 corneas - an increase of 35% over last year's collection. 982 corneas were used for transplants - 28% increase from last year. At present Drushti daan is the only eye bank in Odisha to achieve more than 1000 annual collections of corneas.

Eye Bank Statistics

| Corneas Collected | Ramayamma International Eye Bank, Hyderabad | Drushti daan Eye Bank, Bhubaneswar | Mohsin Eye Bank, Visakhapatnam |
|-----------------------------------|---|------------------------------------|--------------------------------|
| Hospital Cornea Retrieval Program | 3744 | 1112 | 794 |
| Volunteered | 816 | 74 | 204 |
| Affiliate Centres | 2607 | 59 | 84 |
| Total | 7167 | 1245 | 1082 |
| Corneas Utilized | | | |
| Surgeries at own Campuses | 2043 | 201 | 97 |
| To Other LVPEI Campuses | 315 | 0 | 355 |
| To Surgeons Outside LVPEI | 1452 | 773 | 89 |
| Training & Research | 1950 | 8 | 357 |
| Total | 5760 | 982 | 898 |
| Discarded | 1407 | 264 | 183 |



The youngest corneal transplant patient this year was a child aged 2 months and the oldest corneal transplant patient was aged 91 years.

31st Eye Donation Fortnight

To mark the 31st Eye Donation Fortnight, 25 August - 8 September 2016, a series of eye donation awareness activities such as rallies, talks, etc were organized across the LVPEI network.



Awareness rally by RIEB

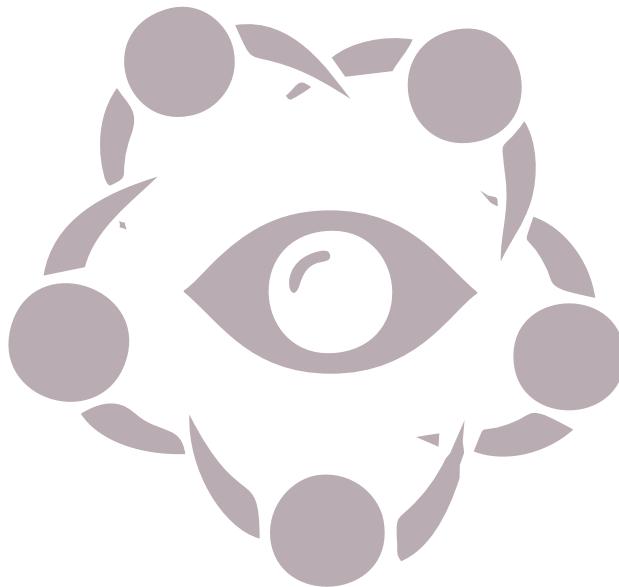


Awareness rally by Mohsin Eye Bank



Drushti daan
Eye Bank

Partner Eye Donation Centres



Akbar Eye Hospital, Anantapur (6); Amrita Nursing Home, Vemulawada (2); Balaji Eye Care, Anantapur (45); Chiranjeevi Charitable Trust, Hyderabad (60); DBCS, Nalgonda (2); *Dist. Hospital, Mahabubnagar (24); District Hospital, Anantapuram (2); District Hospital, Nandyal (2); Dr. YV Lakshmidhi Eye Bank, Prodduturu (14); Indian Red Cross Society (IRCS), Eluru (Operated by TKEB) (56); Goutami Eye Institute, Rajahmundry (84); Kadapa Eye Bank, Kadapa (2); Kamineni Institute of Medical Sciences, Narketpally (26); Khammam Eye Bank, Khammam (28); *Lions Club of Karimnagar Charitable Eye Hospital, Karimnagar (556); Lions Eye Hospital, Bodhan (60); Lions Club of Suryapet, Suryapet (37); Lions Club of Kesamudram, Kesamudram (22); Lions Club of Cherai, Cherai (14); Lions Club of Mahabubabad, Mahabubabad (8); Lions Club of Nizamabad, Nizamabad (2); Lions Club of Thorrur, Thorrur (12); Lions Club of Ramagundam, Ramagundam (4); Mamata Eye Bank, Khammam (8); Mohsin Eye Bank, Visakhapatnam (631); Modern Eye Hospital, Nellore (136); Modern Eye Hospital & Research Centre, Ongole (28); MVR Eye Centre, Tanuku (38); Pavani Eye Hospital, Jagityal (4); Ram Reddy Lions Eye Hospital, Mahabubnagar (2); *Regional Eye Hospital, Kurnool (747); Regional Eye Hospital, Warangal (830); Rotary Eye Hospital, Vuyyur (22); Santiram Medical College, Nandyal (78); Sri YBR Murthy Konaseema Eye Bank, Ambajipet (62); SRR Lions Eye Hospital, Nidadavole (296); Sudarsani Eye Hospital, Guntur (34); Surya Swachanda Seva Samithi, Mahabubabad (8); *SVRRG General Hospital, Tirupati (60); Tej Kohli Eye Bank (Vijayawada & Guntur HCRPs) (171)

* RIEB runs Hospital Cornea Retrieval Programme at these centers

Top Contributors highlighted in colour



Rural and Community Eye Health

Taking quality eye care to the most underprivileged communities has been the mandate of GPR ICARE since its inception. In this pursuit, our network of 16 secondary centres and 148 vision centres served about 292,000 outpatients and performed 32,000 surgeries. Our Vision Centres collectively provided services to 305,274 people, 55% of them being women. We also established one secondary centre and sixteen vision centres during this year.

To create a much larger impact, our community eye care services are now integrated with Low vision and Rehabilitation services across our secondary centres. Our vision centres have gone fully digital, and subspeciality services were initiated in some secondary centres, bringing sub-speciality care much closer to the doorsteps. Our social return

on investment remains the innumerable lives we impact with our sight restoring services.

An important milestone was the 20th anniversary of our first secondary centre - Bhosle Gopal Rao Patil Eye Centre, Mudhol. We trained 140 candidates in various aspects of Eye Health Management and Community Eye Health and our faculty's research was highlighted in national and international journals. At the IAPB meeting in Durban, we had fifteen presentations from our group.

With the support of various international organizations, we continue to allocate our resources to capacity building programs of partner hospitals, including one in Liberia. We look forward for another year fully committing our resources towards providing eye care services to the communities we serve.

A handwritten signature in black ink, appearing to read "Rohit C Khanna".

Dr Rohit C Khanna
Director,

Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care

LVPEI's Kapileswarapuram Vision Centre Upgraded as the 16th Secondary Centre

LVPEI's Kapileswarapuram Vision Centre in East Godavari District, Andhra Pradesh has been upgraded to a full-fledged secondary care facility and is now named as Godavarthi Satyanarayana Murthy Eye Centre. Dr Kamineni Srinivas, Minister for Health and Medical Education, AP and Dr B V R Mohan Reddy, Chairman NASSCOM & Cyient Ltd were present during this event. This is the institute's 16th secondary centre.



Specialized Surgical Procedures – Right at Rural Doorstep

Taking forward LVPEI's efforts to make complex surgical care available at secondary centres, a series of specialized procedures were performed at various secondary centres across the network. These included, advanced corneal transplant surgeries, Simple Limbal Epithelial Transplantation (SLET), ophthalmic plastic surgeries and squint correction, some of them being the first ever to be performed in a rural eye care centre in India.

Tele-ophthalmic Slit Lamp Installed in Secondary and Vision Centres

Teleophthalmic slit lamps that are developed in-house, are now being used in three of our secondary centers and three vision centres. With this, doctors sitting in tertiary centres, will be able to examine the patients in secondary and vision centres, and give their expert opinions and advice. Active communication is possible between the doctors and the patients. Way forward, the plan is to connect the entire LVPEI network through teleophthalmology.



Indian Oil Centre for Rural Eye Health

With an aim to provide solutions to visual impairment in rural Odisha, the Indian Oil Centre for Rural Eye Health was inaugurated at LVPEI's Mithu Tulsi Chanrai Campus at Bhubaneswar by Shri Dharmendra Pradhan, Honorable Minister of State (Independent Charge), Ministry of Petroleum and Natural Gas, Government of India. The centre which is supported by Indian Oil Corporation, focuses on working towards creation of 'Odisha Vision Atlas' that will enable planning quality eye care programs in Odisha.



Anniversary of LVPEI's First Secondary Centre

LVPEI's first secondary centre, Bhosle Gopal Rao Patil Eye Centre in Mudhole, Telangana celebrated its 20th anniversary on 20 December 2016. Till date 349,684 patients have been examined and 45,652 surgeries have been performed. 378 clients availed low vision services and 265 clients benefitted from the vision rehabilitation services, and 235,370 patients have been screened through the vision centres connected to this secondary centre.



16 New Vision Centres Inaugurated

This year 16 new vision centres were inaugurated in the most rural and unreach areas of Telangana, Andhra Pradesh and Odisha. With this LVPEI is now spread across a network of 148 vision centres spread across these states. The major support extended was by RayBan Foundation, Latter-day Saint Charities, Lions Club International Foundation, OneSight Foundation, Hartex Rubber Pvt Ltd, Operation Eyesight Universal, OCL India Ltd, Seeds Foundation and Swarna Bharath Trust. In addition, the local community also supported with rent free premises.



Digitization of the Village Vision Complex

The LVPEI vision centres are now linked to the in-house electronic medical record platform – eyeSmart. With this the real time data of all the centres, including demographic and clinical information seen at the first mile of eye care is being documented and is enabled through the Cloud for our patients.

A Village Vision Complex (VVC) constitutes the very foundation of the LVPEI Eye Health Pyramid. The VVC has three components - community eye care, primary eye care and secondary eye care. A typical VVC comprises a secondary eye care Service Centre (SC) at the top, linked to a complement of 10 primary care Vision Centres (VC), in turn linked to grassroots level, locally-sourced Vision Health Guardians.

Projects in Community Eye Health



Rapid Assessment of Visual Impairment Studies

India has the largest number of people with visual impairment. Epidemiological data is essential for planning eye care services to address visual impairment. Three visual impairment studies were conducted in the states of Telangana and Tripura, a north-eastern state, to provide data for planning eye care services. Over 7,000 people were examined as part of these projects. These studies were supported by Lions Clubs International Foundation, Government of Tripura, Infrastructure Leasing and Financial Services (IL&FS) and LVPEI.



Children's Eye Health Initiatives



Visual impairment in children adversely impacts the lives of the children and their families. Around 0.7 million children were provided with eye screening. The projects are ongoing in Andhra Pradesh, Telangana and Odisha states. These initiatives were supported by United States Agency for International Development (USAID), Sun Pharma Grant, Lions Clubs International Foundation, Lavelle Fund for the Blind Inc. and LVPEI.

Empowering Communities



Empowering local communities through various eye health initiatives has been the hallmark of LVPEI's community eye health program. Five such projects are currently ongoing, including, Disability Inclusive Community Eye Care Project - supported by Christoffel-Blindenmission (CBM), India and LVPEI; Mobile Refraction Screening Program - supported by Essilor Ltd; and Hospital Based Community Eye Health Projects supported by Operation Eyesight Universal and LVPEI.



Dr Rohit C Khanna was part of 'Expert Consultation on Cataract' meeting at WHO Geneva.

Developments During the Year



LVPEI hosted the 'Regional Expert Group Consultation - Accelerating Actions for Prevention of Blindness' meetings of the World Health Organization. It was inaugurated by Sri ESL Narasimhan, Honourable Governor of Andhra Pradesh and Telangana states. Dr Poonam Khetrapal Singh, WHO Regional Director for South East Asia was also present for these meetings.

Dr Taraprasad Das has been elected as the Regional Chair for South East Asia, International Agency for the Prevention of Blindness, and he is also on the board of WHO Consultancy for Diabetic Retinopathy.



LVPEI team in discussion with Hon'ble Ellen Johnson Sirleaf, President of Liberia at JKF Medical Centre

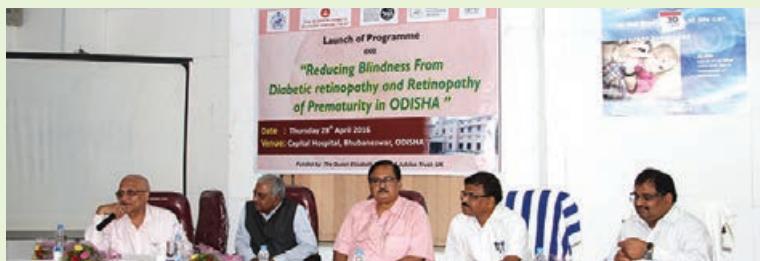
Helped Upgrade the Eye Department of JK Medical Centre in Liberia

- The department is now renovated with the latest medical equipment (supported by Lions Clubs International Foundation and Operation Eyesight Universal)
- Provided extensive training to all cadres of eye care professionals at the centre
- Deputed an ophthalmologist from LVPEI to manage and implement standard operating systems and processes



Tele-Ophthalmic Slit Lamp installed at A vision Centre in Maharashtra

In collaboration with Microsoft and the Maharashtra State Government, LVPEI installed an in-house developed Tele-Ophthalmic slit lamp at a vision centre in Harisal village, Amravati District, Maharashtra. Initially, this centre will be directly connected to LVPEI's Hyderabad campus, but later it will be connected to the Public Health Centre in Amravati.

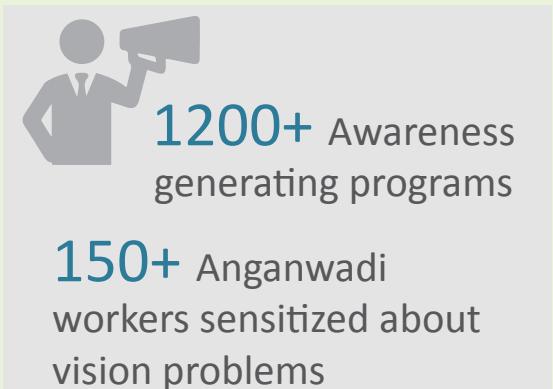


Mentoring Partner

LVPEI is a 'Mentoring Partner' for the program "Reducing Blindness from Diabetic Retinopathy and Retinopathy of Prematurity in Odisha". The program is supported by the Queen Elizabeth Diamond Jubilee Trust through the Public Health Foundation of India.



To create awareness among the masses, a series of activities were conducted on World Sight Day, World Diabetes Day, Children's Day, Retinoblastoma Week and World Glaucoma Week.





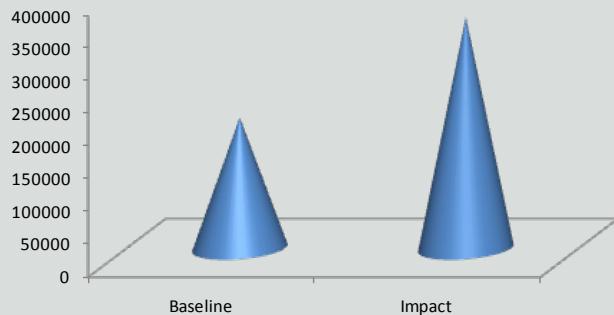
Capacity Building

Hospitals Supported (till date)

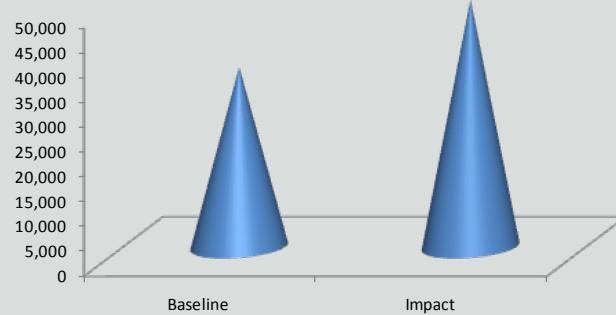
National: 250 International: 12

Ongoing Projects - National Hospitals: 14, International Hospitals: 2

Outpatient Services **77%** increase



Surgical Procedures **38%** increase



Supported by Seva Foundation as part of the Strengthening Capacity and Learning to Effectively Deliver Quality Eye Care (SCALE) project



Conducted 'Training of trainers in cataract surgery' for the faculty of hospitals in Kunming in Yunnan Province, China and Hohhot in inner Mongolia. This initiative was supported by Fred Hollows Foundation



Redesigned operating complex and provided staff training at Nepal Eye Hospital, Kathmandu with support from Operation Eyesight Universal



A total of 140 people were trained in delivering quality eye care to benefit the community as a whole through various training programmes such as certificate, diploma and online courses in Community Eye Health and Eye Health Management.



Education

2016-17 has been a year of “Digitalizing education and Maximizing reach”, which we achieved through multiple initiatives that connected international audiences as well as doctors working for community at secondary centres - innovating existing programs, online exams, Echo Clinics and secondary centre grand rounds using Adobe Connect.

The enormous success of our Clinical Pearls series – JAM: Just A Minute, a quick platform to share ophthalmology learning pearls – has now led to evolving new concepts like JAM-Prime!

Our Continuous Medical Education programs have fulfilled their design in offering a range of hands-on training opportunities to practitioners.

We revisited our Ophthalmology training curriculum and introduced 2 new

fellowships: Cataract-Refractive fellowship and Medical Retina–Uveitis fellowship.

The Academy’s collaboration with International organizations flourished this year. We trained teams nominated through our collaboration with the London School of Hygiene & Tropical Medicine, UK (through the Commonwealth Eye Health Consortium – CEHC). We have facilitated the training of 22 candidates since the advent of this collaboration in 2015.

LVPEI’s 2015 agreement with John F Kennedy Memorial Medical Center, Liberia, has led to our support for Team Training in Liberia, besides training 5 candidates, and providing a trained ophthalmologist from LVPEI for initial Eye Care delivery in the country.

Our focus for 2017-18 will be to strengthen our pyramidal structure bottom-up.

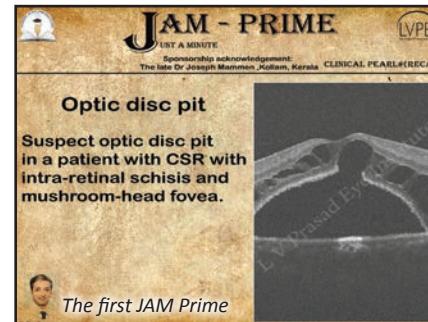
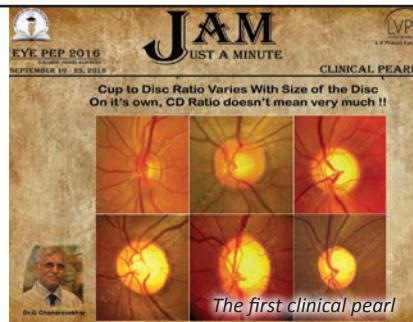
A handwritten signature in black ink, appearing to read "Avinash Pathengay".

Avinash Pathengay

*Director,
Academy for Eye Care Education*

Digital Education Cuts Across Borders

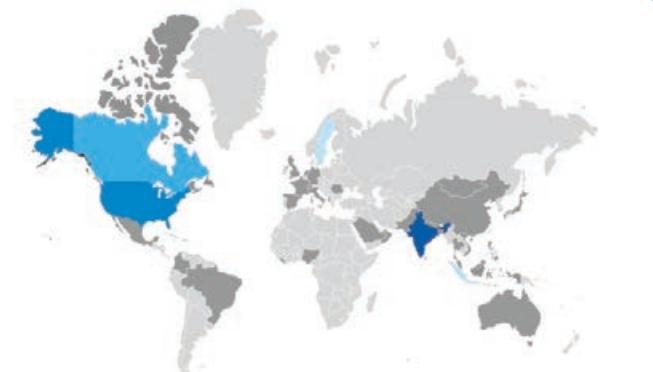
The first Clinical Pearl - JAM: Just a Minute - was disseminated on 9 August 2016. Till 31 March 2017, 235 such clinical pearls have been shared. The design and content of each clinical pearl is crystallized into a single 60 second learning experience.



Based on the success of these series, a new series - JAM Prime: A Guide for Beginners - has also been initiated.

Top locations by opens

| | | |
|----------------|-------|-------|
| India | 1,431 | 53.2% |
| USA | 845 | 31.4% |
| Canada | 113 | 4.2% |
| Indonesia | 61 | 2.3% |
| United Kingdom | 47 | 1.7% |



The average opening rate of JAM - Clinical Pearl series

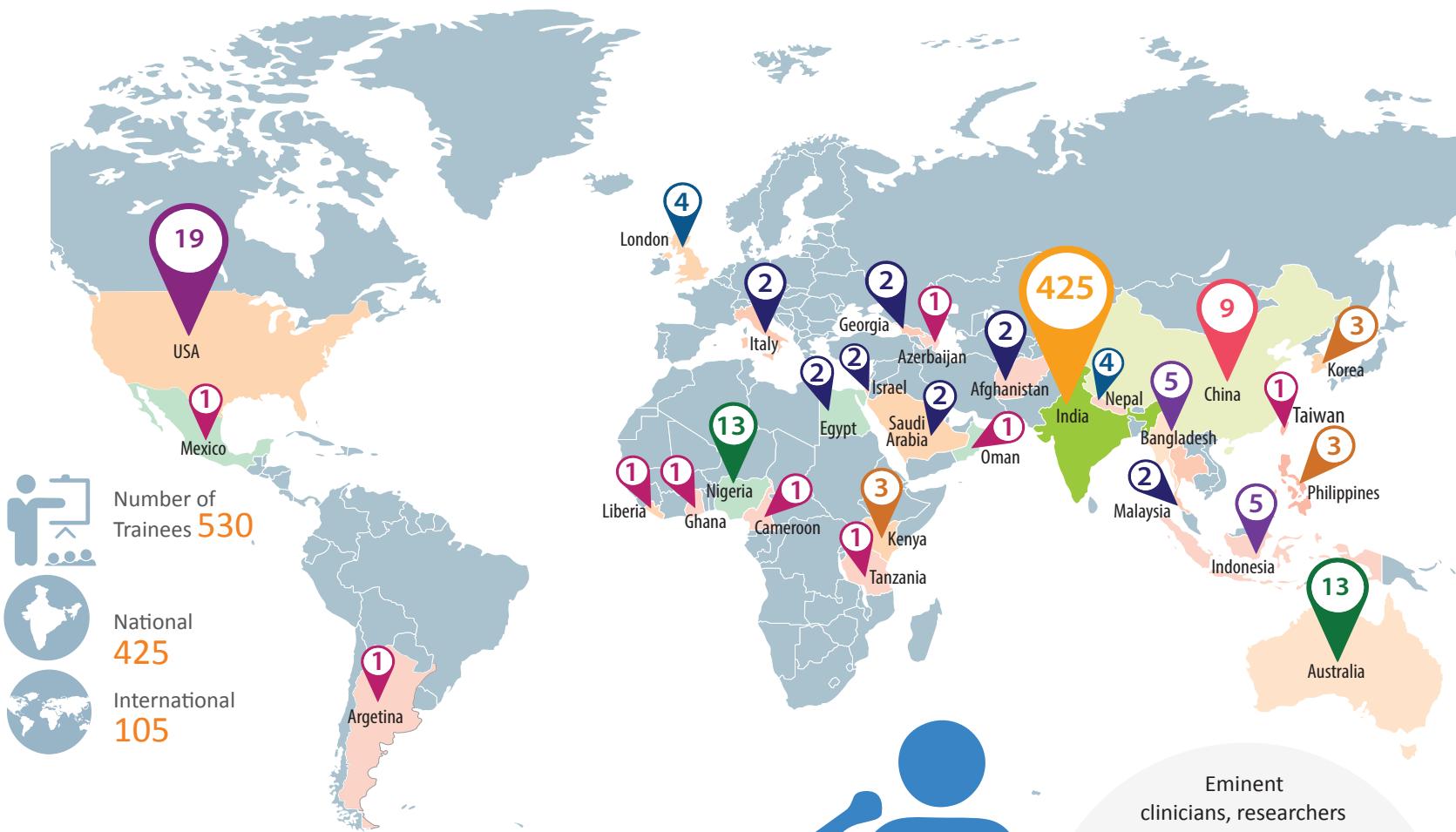


The third Education Day had Dr Ken K Nischal, internationally renowned pediatric ophthalmologist, deliver the keynote lecture. Certificates were awarded to 149 trainees from across the network, comprising Ophthalmologists, Optometrists, Vision Technicians, Ophthalmic Nursing Assistants, DEHM and DCEH graduates.



The third ALO (Alumni of LVPEI Optometrists) annual meeting had over 150 alumni, including 61 optometry students. The highlight of the meet was the interactive scientific discussions on pediatric optometry and vision therapy.

Geographical Spread of Trainees



In addition to our training programs, a total of **28** Continuing Medical Education (CMEs) and workshops were organized across the LVPEI network. **2381** participants from the world over attended these programs.



Eminent clinicians, researchers and change-makers from different walks of life delivered guest lectures on a varied spectrum of topics and engaged in discussions with our faculty, fellows and a distinguished invited audience. Through the year **3** endowment lectures and **20** guest lectures were organized across the network.



I did my fellowship at LVPEI in Ophthalmic Plastic Surgery in 2014. The structured training program, the protocol based treatment and the opportunities you get to present and publish, are unique to this fellowship. It trains you to train others as well. The most important thing that I took away from my time at LVPEI is the skill of critically reading medical literature and applying it in clinical practice.

Dr Akshay Nair is an ophthalmic plastic surgeon and ocular oncologist at Advanced Eye Hospital, Navi Mumbai.



I did my comprehensive fellowship, specializing in Pediatrics, at LVPEI's Bhubaneswar campus in 2016. One very important thing that I have learnt is that patient care should never be compromised come what may! I got an opportunity to assist doctors renowned for their surgical prowess and medical acumen, and I started loving what I was doing.

Dr Debasmita Majhi is currently a faculty member at LVPEI Bhubaneswar.

The first time I took off as a retinal surgeon was when I was posted with Dr P Rajeev Reddy - he used to leave me alone in difficult surgical cases, quietly peeping inside through the window and keeping a watch. This instilled a sense of confidence in me. When I was asked about my publications, a prerequisite for teaching, I could with utmost pride share that I already had ten publications in indexed journals for my work in LVPEI, a few still being in the pipeline. The biggest thing that it has taught me is to respect the patients. I can feel the change in me and it shows in the love and warmth that my patients express towards me.

Dr Vikas Ambiya is the sole retinal surgeon in one of the busiest Army Hospitals in the country catering to a huge population of ex-servicemen and their families. He is also an Assistant Professor in the Army College of Medical Sciences, New Delhi.



I feel a sense of satisfaction and pride when the doctors and my peers appreciate my work. Before undergoing this training, I was just sitting at home. My life now has got a new direction.

Phoolmani Baraiik, hailing from a naxal-dominated village in Jharkhand, completed the two year ONA (Ophthalmic Nursing Assistant) program in July 2016 and has now joined LVPEI as a theatre nurse.



I completed my Vision Technician course in 2013 and since then have been working as a vision technician at LVPEI's vision centre in Nagarkurnool. I feel empowered today, to be able to support my family. The respect and identity that I have gained in my community, makes me feel really proud of the work that I am doing.

Lingeshwari, Vision Technician, Vision Centre, Nagarkurnool, Telangana.



Research

Dr D Balsubramanian, after 18 long and fruitful years of yeoman service to BHERC as its first Director, has stepped down to continue as a Distinguished Scientist (& Director of Research Emeritus). Balu, as he is dearly known to all, singlehandedly put together the personnel, facilities and themes of research at BHERC which even today are very relevant to eye research. Thus for me as the incumbent, my toughest task is to measure up to his standards and carry forward the mantle of performance and excellence. BHERC is a small but vibrant research centre catering to the requirements of an eye hospital with respect to eye diseases and eye care research and has also ventured on to the untrodden path of stem cell research, genetic basis of eye diseases, causes for antimicrobial resistance, role

of lens proteins in eye development, relationship between gut microomes and disease, vision psychophysics, community eye health research, patient reported outcomes research etc. In addition, it has put together engineers, scientists and ophthalmologists to design devices and instruments for day-to-day use in the eye clinic and for research. The performance of a research centre is essentially based on the research output (number of papers), the recognition (prestigious awards, grants and invitations) and manpower development (that is the number of Ph. Ds produced and students trained). On all the above counts the performance has been good and there is a clear potential to achieve excellence. I am overwhelmed with the activity and hope to strengthen it in the years to come.

S Shivaji
Director,
Prof Brien Holden Eye Research Centre (BHERC)

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
- Srujan Center for Innovation



Developments During the Year

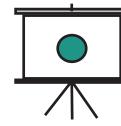


260 Publications

in peer reviewed journals

Total impact factor - 524.50

Average impact factor - 2.11



243 Presentations

153 national

90 international

Prestigious conferences where presentations were made include American Society of Cataract and Refractive Surgery, American Academy of Ophthalmology, Association for Research in Vision Ophthalmology, American Association for Pediatric Ophthalmology and Strabismus, All India Ophthalmological Society, etc.

54 Research Grants



29 Basic



15 Clinical



7 Public health



3 Low vision
and rehabilitation



30+ Awards

won by LVPEI scientists, ophthalmologists and fellow students for research.

Key Symposia and Workshops



Tenth Annual Champalimaud Symposium: The Champalimaud Oration “VEGF: From discovery to therapy” was delivered by Prof Joan W Miller, Chair, Department of Ophthalmology, Harvard Medical School; Chief of Ophthalmology, Massachusetts Eye and Ear Infirmary, USA. The other notable invited lectures were by Dr Soumya Swaminathan, Secretary, ICMR and Dr Niyaz Ahmed. Dr Deeba Hussain, Associate Professor of Ophthalmology, Harvard Medical School also attended the meeting.

Dr Leonor Beleza, Chair, Champalimaud Foundation and Dr GN Rao gave away the Champalimaud Oration award to Joan W Miller.

Medical Research Council and Government of India Department for Biotechnology Workshop: The MRC-DBT Workshop on “Exploring biology of antibiotic resistance and potential targets for early diagnosis and effective management of infectious diseases” jointly organized with the University of Sheffield, UK had scientists from University of Bradford, University of Sheffield, besides several other universities and institutes from across India. Three priority areas of research were identified for collaborations: drug delivery systems using nanoparticles, understanding biofilms using synthetic biofilms like hydrogels and developing non-antibiotic strategies for tackling infection.



Centre for Ocular Regeneration Meet: The annual CORE meeting had two invited guests from Centre for Cellular and Molecular Biology (CCMB), Hyderabad - Dr Rakesh Mishra, Director, spoke on 'Zebra fish model systems in gene regulation' and Dr Kiran Kumar, Scientist, on 'Therapeutic applications of neural stem cells'.



Indian Eye Research Group: The highlight of the IERG meet was the interactive poster session on various topics pertaining to eye research.



Eminent Visitors: Prof Brian Cantor, Vice Chancellor; Prof Stephen Rimmer, Head, School of Chemistry; and Mark Garratt, Director of External Affairs; University of Bradford (UoB), UK; Visited on 16 November 2016 to explore the possibility of mutual collaboration. UoB and LVPEI are already collaborating in two programs funded by Wellcome Trust and MRC aimed at developing smart polymers for detection of infection in the eye and targeted delivery of antimicrobials.

Prestigious Lectures

- **Mohammad Javed Ali**, delivered Rhinocon Medal Keynote Lecture, All India Rhinology Society, Annual Meet, Hyderabad; Title: Difficult and Extremely difficult Endoscopic DCRs.
- **Subhabrata Chakrabarti**, lead speaker, ThermoFisher Genetics Solutions World Tour Symposium; Title: Next Generation Sequencing in Ocular Genomics Research.
- **Jay Chhablani**, delivered the APVRS (Asia-Pacific Vitreo-retina Society) first Ian Constable Lecture, 10th APVRS Congress, Bangkok; Title: Clinical effects and economic impact of intravitreal Ziv-aflibercept.
- **Taraprasad Das**, delivered (a) William Holmes lecture and award -

the highest APAO award in Prevention of Blindness, 32nd Asia-Pacific Academy of Ophthalmology (APAO) Congress, Singapore; Title: Blindness Profile and Rapid Assessment of Avoidable Blindness in Southeast Asia.

(b) G Venkataswamy Oration at Tamil Nadu Academy of Ophthalmology, Vellore; Title: Translating eye health pyramid (c) Dr TNC Vedantham Memorial Oration lecture, Chennai; Title: Contemporary retinal imaging technology in diabetic retinopathy - down the innovation lane.

- **Subhadra Jalali**, delivered (a) the first Prof Syedur Rahman Memorial Lecture, Biennial Seminar Bangladesh Vitreo-Retina Society; Title: Neonatal blindness and ROP: A clinical perspective (b) Dr R P Tandon oration, mid-term conference, Jharkhand Ophthalmological Society and

Bihar Ophthalmological Society; Title: An overview of endophthalmitis and its treatment: 25 years of fighting and understanding endophthalmitis.

- **Srinivas Marmamula**, delivered the prestigious 'The Rich Lecture' at University of Alabama at Birmingham, sponsored by the Loris and David Rich Lecture series in visual science, Alabama, USA; Title: Public Eye Health Research at LVPEI.

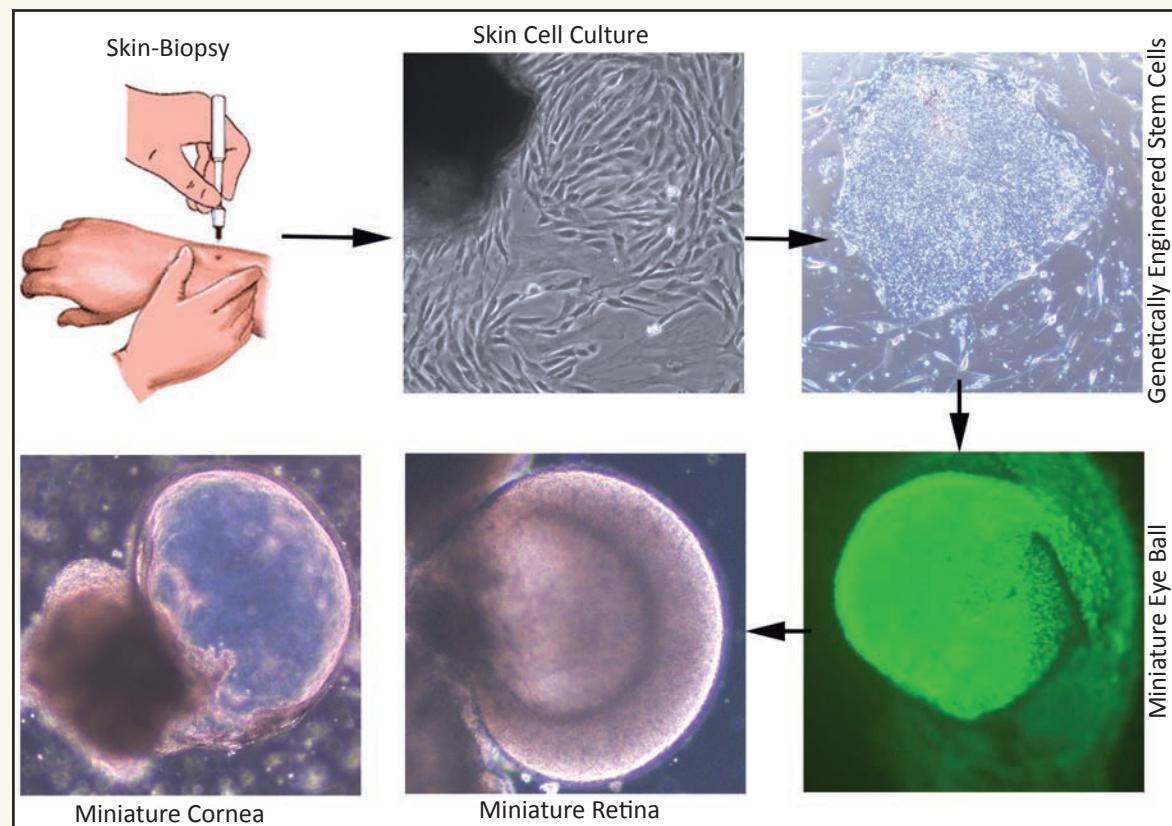
- **Virender S Sangwan**, delivered (a) First oration, Indian Society of Cornea and Kerato refractive Surgeons conference, New Delhi; Title: Tackling end-stage corneal Blindness (b) Rustom Ranji Oration, Telangana Ophthalmic Society; Title: Treatment of end-stage corneal disease - a ray of hope.

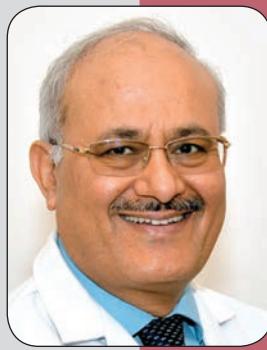
- **S Shivaji**, delivered (a) Inaugural lecture, "Microbial Resource Centers and Conservation of Microbial Diversity" international meet and 13th meeting of the "Asian Consortium For the Conservation and Sustainable Use of Microbial Resources", Chandigarh; Title: Bacteria, genes and genomes from Antarctica, Arctic, Himalayan glaciers and Stratosphere (b) Prof Bishwambar Rajguru oration sponsored by Odisha State Ophthalmological Society, Bhubaneswara; Title: Transition from cold loving microbes to ocular microbes.
- **Inderjeet Kaur**, delivered keynote lecture, Koti Women's College, Hyderabad; Title: Opportunities and Careers in Science and Research.

Research Highlight of the Year - Engineered Stem Cells to Treat Challenging Eye Disorders

The stem cell research team at the LVPEI has been successfully treating some forms of corneal surface disorders using autologous limbal stem cells. However, there is a need for alternative stem cell sources for the treatment of bilateral corneal defects and other retinal degenerative conditions.

The group has established a method of genetically converting a patient's skin cells into stem cells that can form different parts of an eye such as the retina and cornea resembling those of an adult eye.





Innovation

When I first spoke to Ramesh Raskar of MIT Media Lab about solving some challenges we face in the clinic, it led to the first Hackathon in 2013. We dreamed boldly, excited to interact with a 100 bright young minds and rethink the delivery of eye care. Over the years, Srujanika has grown from a small room to the now world-class Innovation Center, our ideas graduating to clinical testing in our patients. In the past four years, Srujanika has launched 5 products, currently ready for production and implementation in the LVPEI network - Pupil +, Open Indirect Ophthalmoscope, Paediatric Perimeter, Folding Phoropter and eyeSmart EMR App.

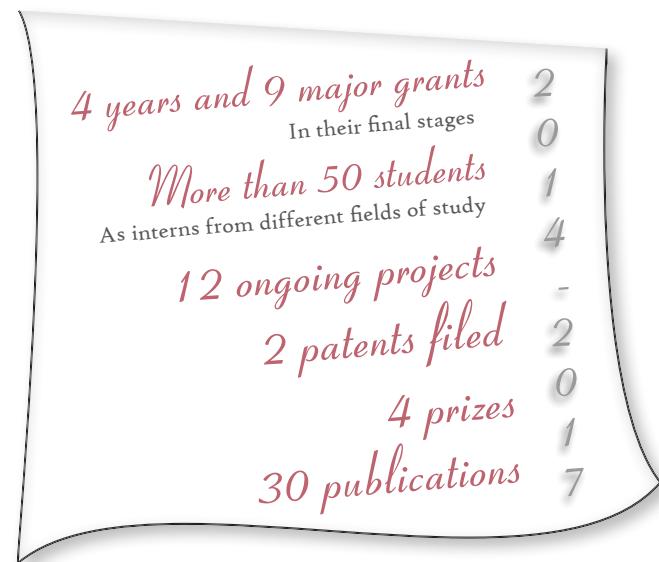
The ophthalmic engineering lab is going strong with competitive grants worth over 10 crore from agencies such as IC-IMPACTS (the India-Canada Centre for

Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability), BIPP grant from the Govt of India's Biotechnology Industry Research Assistance Council (BIRAC), and Grand Challenges Canada. Going forward, we want to connect the entire LVPEI network through teleophthalmology. We are also working on developing special contact lenses in-house that can be used by patients with complex ocular diseases, and making them more affordable and accessible to all.

As we conduct the 5th edition in 2017 of our flagship Hackathon, 'Engineering the Eye', it is a humbling experience to know that there are over 800 applications from engineering and design schools across the country, where we accept 80 students assigned to 20 mentors.



Virender Singh Sangwan
Director,
Srujanika Center for Innovation



Sri KT Rama Rao, IT Minister for Telangana and BVR Mohan Reddy, Executive Chairman of CYIENT and Chairman of NASSCOM inaugurating the new facility of Srujana Center for Innovation at LVPEI's Hyderabad campus, 22 August 2016.



4th Edition of Engineering the Eye workshop was organized in association with Camera Culture group at MIT Media Labs. The one-week extensive workshop witnessed the highly energetic and young participants challenging the problem statements, and brainstorming and discussing about the innovative solutions with the LVPEI clinicians and scientists. It was attended by the best of engineers, designers, doctors and entrepreneurs.

This year, the introductory Tej Kohli Cornea Institute (TKCI) – Srujana Award went to a portable device for measuring corneal topography. The product will be incubated at the centre with support from TKCI.

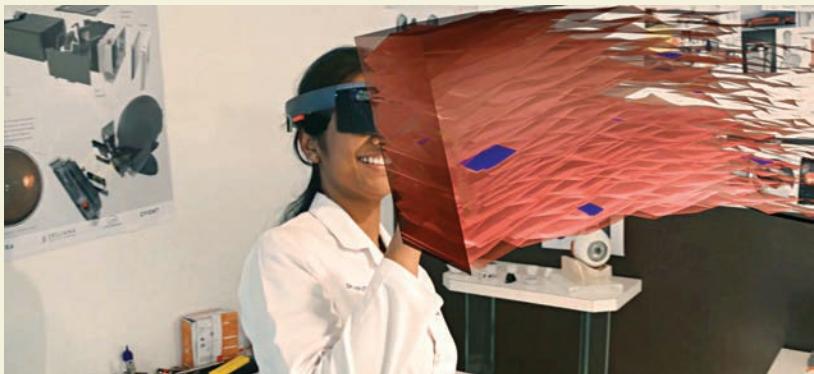


Product Innovation

Pediatric Perimeter, a first of its kind device in Asia, built to quantify the visual fields in infants, has been tested on 160 babies (3 - 10 months age). The product was among the 15 projects that were selected from across the country to be showcased at the “Innovations in Medical Science and Biotechnology” at Rashtrapati Bhavan as part of Festival of Innovations for the year 2017.



The **Folding Phoropter**, a low-cost and easy-to-assemble device developed to perform eye test to quickly spot refractive errors, especially during mass screening and other similar public health initiatives in rural areas and low resource settings, won the Clearly Vision Prize's second place worth \$ 50,000 from among 100 entries across 21 countries. 20 devices were sent to the World Economic Forum at Davos where Clearly founder James Chen and his team represented Folding Phoropter to the delegates from the world across, talking about most effective ways to curb the world's largest eye problem - refractive error.



Holo Eye Anatomy, module for the cornea, published on the Microsoft Hololens, is a sophisticated device worn on your head to help one see the human eye anatomy in 3 D perspective. This will make learning more experiential, enabling one to holistically study the cornea and also split individual parts to the component layers to study them in detail.



Open Indirect Ophthalmoscope, OWL is an open-source, ultra low-cost, portable screening device for retinal diseases. The device integrates into a massive online grading system (theia) built by our partners at MIT Media Labs. The product was shortlisted as finalist in the global The Hackaday Prize, with the team having won USD 2000 in the "automation" category.

Ophthalmic Engineering



Preventive Maintenance Training

LVPEI's biomedical and vision technicians were trained for preventive maintenance, smooth functioning and major refurbishments of ophthalmic instruments. Till date over 150 technicians from across LVPEI's tertiary, secondary and primary eye care centres have been trained. Advantages:

- Basic maintenance of the instruments can be handled by the vision technicians now and thus their dependability on the skilled technicians from tertiary and advanced tertiary centres has reduced
- This will eventually bring down the overall maintenance cost of the instruments

Microscopy in the eye

Adaptive Optics Scanning Laser Ophthalmoscope (AOSLO), first of its kind in the Asia Pacific Region, was built in LVPEI in collaboration with the University of Rochester to capture *vivo* ultra high resolution images of human retina. Earlier biopsy (where cells are extracted from the eye) was the only option to study the cells. But now with this we can examine live cells in the retina non-invasively. This is useful to both clinicians and researchers. Advantages:

- It helps in studying not only the structure of the cells, but also determines the function of the cell
- Could help in early diagnosis of the disease and in monitoring the cell health for a longer duration

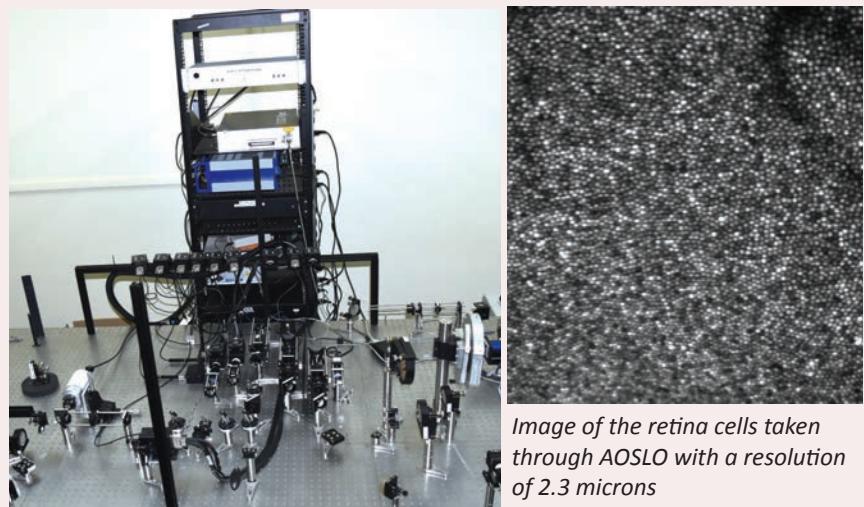
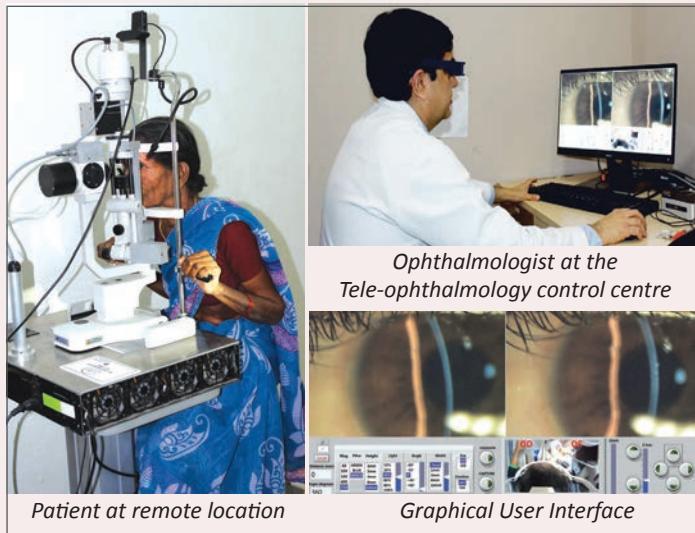


Image of the retina cells taken through AOSLO with a resolution of 2.3 microns

Accessibility and Affordability

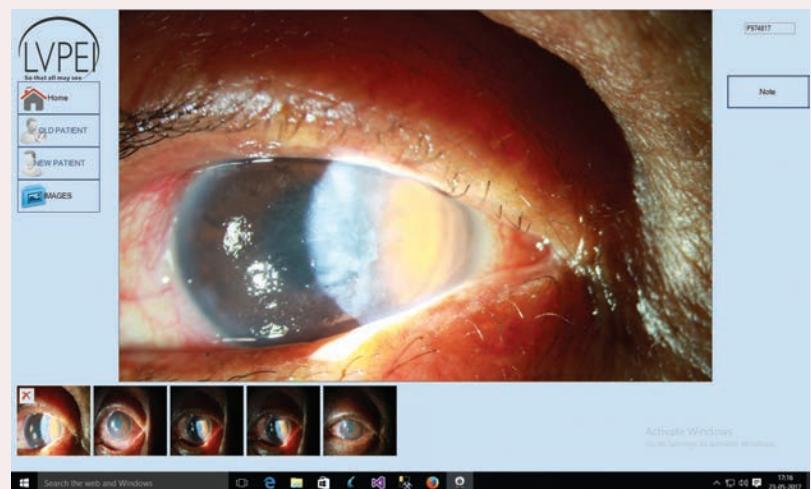


Patient at remote location

Graphical User Interface

With an aim to provide the best eye care to the rural community, **Teleophthalmic slit lamps** were built in-house and placed at 7 locations across the LVPEI network, including vision centres and secondary centres in Telangana and Andhra Pradesh, and one in Maharashtra, each about 300 Kms away from Hyderabad. Advantages:

- 250 patients have been examined by the consultants sitting at LVPEI's Hyderabad campus
- Timely intervention and clinical management of the disease
- Patients save on their travel cost and time



Universal Image Capturing System (UICS) software, helps in capturing clinical images and is compatible with any medical instrument. It also helps in building database of diagnostics images. Advantages:

- Helps in capturing detailed image and highlights features, which otherwise are not visible
- Increases the clinician's productivity in clinical diagnosis
- Less time consuming and thus enables the clinician to see more patients



Rajkumar Seksaria



Late Shri Govindram Seksaria



Nandkumar Seksaria

From the Family of the Cotton King of the World

The late **Shri Govindram Seksaria**, famously known as the “Cotton King of the World”, was a successful businessman who ventured into the industry starting with oil business and later diversified into sugar, textile, minerals, banking, printing and motion pictures. He was also actively involved in the freedom struggle of India. An ardent philanthropist, he generously contributed towards educational, humanitarian and public causes.

Shri Seksaria was also a principal donor for the Bombay Hospital at Mumbai and many reputed educational and medical institutions are named after the Seskaria family. When he died in 1946, all the major markets in India, including the stock exchange, bullion exchange and cotton exchange, remained closed in his honor.

Rajkumar and Nandkumar Seksaria, grandsons of Govindram Seksaria, manage his business and the trusts which run various institutions. The family has in the past funded the emergency examination room at LVPEI. The Institute of Dacryology at LVPEI, the first of its kind in the world, got a big boost with a pledge of support from the Govindram Seksaria Charity Trust. The **Govindram Seksaria Institute of Dacryology** was inaugurated in October 2016. Dacryology deals with the watering of the eyes and disorders of the tear drainage that can lead to impaired tear flow, resultant watering and infections. The centre is equipped with state-of-the-art operating suites and a dedicated team of specifically trained optometrists and ophthalmologists.

A World Free of Avoidable Blindness



Mrs & Mr Jagdish M Chanrai

Mr Jagdish M Chanrai, an entrepreneur and philanthropist, believes that the private sector should use its entrepreneurial expertise and professionalism for the greater good. This guided his efforts in establishing the Tulsi Chanrai Foundation in Nigeria and Mission for Vision in India.

Mr Chanrai has always been deeply conscious of the need to reduce the inequity in society, and this gave rise to his philosophy of "Caring Capitalism". It has always been his desire to devote a significant portion of his time and income to help those in need and he is an ardent advocate of this philosophy.

The eastern part of the country, marked by high levels of poverty and need, is largely bereft of the capacity to enable transformational change for people with visual impairment, both with avoidable and irreversible vision loss. It was in response to this need that Mr Chanrai decided to support the strengthening of LVPEI's Bhubaneswar campus to the stature of Centre of Excellence. The support was extended in collaboration with the Kewalram Chanrai Group and the Enpee Group. In appreciation of his support, the campus is now named **Mithu Tulsi Chanrai Campus**, after Mr Chanrai's father.

Mr Chanrai is confident that one day the world will be free of avoidable blindness. In his words, "If you have the right intentions and strive for excellence, others will join you, and if the essence comes from your heart, the forces of nature will be with you."

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| Lucknow | Konkar JS | Ganti Narasimha Murthy | Sri S S Maharaj |
| Renu Sinha | Marina Bijoy | Warangal | West Godavari |
| Medchal | | Keerthi Rajendra Prasad | Panduranga Vijaya Varma D |
| Namala Srinivasa Rao | | | Satyanarayana Raju M |

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Hyderabad

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LVPEI Bhubaneswar renamed Shri Mithu Tulsi Chanrai Campus

PBD BUREAU

BHUBANESWAR, JAN 16

RECOGNIZING a donor's commitment to the eradication of avoidable blindness and the establishment of centres of excellence, L V Prasad Eye Institute (LVPEI), Bhubaneswar which celebrated its 11th anniversary today, renamed its campus here as Shri Mithu Tulsi Chanrai Campus.

Speaking at a special function held here to mark the institute's 11th anniversary, Founder-Chair of L V Prasad Eye Institute, Dr Gullapalli N Rao said, "Today we are delighted that the generosity of Shri Jagdish M Chanrai of Mission for Vision believes it is a company's obligation to give a substantial portion of generated wealth to the communities in which it does business. 'Mission for Vision (MFV) believes in giving the gift of vision to every human being regardless of nationality, status or religion. The culture and spirit of MFV encourages at the hospitals with which it partners is also critical to its success.' MFV partners with 23 hospitals in 15 States across the country, annually reaching out to over 500,000 people in line with his principle



of "Caring Capitalism". Jagdish M Chanrai of Mission for Vision believes it is a company's obligation to give a substantial portion of generated wealth to the communities in which it does business. "Mission for Vision (MFV) believes in giving the gift of vision to every human being regardless of nationality, status or religion. The culture and spirit of MFV encourages at the hospitals with which it partners is also critical to its success." MFV partners with 23 hospitals in 15 States across the country, annually reaching out to over 500,000 people in line with his principle

from the most vulnerable communities. Highlighting the performance of the Institute, LVPEI Vice Chair Dr Taraprasad Das said that the hospital has expanded its eye care services beyond the tertiary Centre at Bhubaneswar with three Secondary Centres at Rourkela, Rayagada and Berhampur, Rayagada which are fully functional. "We saw 18,146 patients and operated upon 1007 in these Secondary Centres. We also conducted screening programs for more than 15,000 tribal school children of Kalinga

Institute of Social Science (KISS). The relentless support from our donors will enable us to accomplish more in the coming years," said Das.

LVPEI Director, Dr Sujan Das said, "We are actively engaged in eye care education and skill-development programs like ophthalmology residency, comprehensive and sub-specialty fellowship. Since from clinical research, we have expanded our research activities to basic research. We have performed more than 1500 corneal transplants in these years."

Microsoft & LVPEI collaborate to launch network for eye care

Continuing to enhance real life impact through technology, Microsoft India, in collaboration with L V Prasad Eye Institute, has launched Microsoft Intelligent Network for Eyecare (MINE). This is a mission-driven global consortium of like-minded commercial, research and academic institutions that have joined hands to apply artificial intelligence to help in the elimination of avoidable blindness and scale delivery of eyecare services worldwide.

The partner organisations of this consortium include Bascom Palmer - University of Miami, Flaum Eye Institute - University of Rochester (USA), Federal University of Sao Paulo (Brazil) and Brien Holden Vision Institute (Australia). The partner organisations will collaborate and collectively work on diverse datasets of patients across geographies to come up with machine learning predictive models for vision impairment and eye disease. This will include the rate of change of myopia in children, conditions that impact children's eyesight, predictive outcomes of refractive sur-

For your 'eyes' only

Using Origami, city-based researchers develop paper device to detect eye

Exclusive

M SAI GOPAL
Hyderabad

Even the simplest of designs can solve complex of issues. The popular sixth century Japanese art of paper folding

spired researchers in the city to design a simple paper device that enables patients self-diagnose their refrac-

The design team of city-based LV Prasad Eye Institute (LVPEI) developed a prototype of the device — Photoropter — which can completely change the existing system of detecting

LV Prasad Institute launches LVPEI restores sight Vision Rehabilitation unit to Oman baby

OUR BUREAU

Hyderabad, December 15

The Hyderabad-based LV Prasad Eye Institute has launched Institute for Vision Rehabilitation. The WHO Regional Director for South East Asia, Poonam Khetrapal Singh, formally inaugurated it.

WHO has always emphasized on comprehensive health care, however health care institutions mostly focus on pre-

world and undertake research on rehabilitation.

Almost 90 per cent of the world's visually impaired live in resource-poor countries such as India. According to the WHO, there are an estimated 8 million people with blindness and an additional 55 million people with low vision in India. Of this, only less than 10 per cent have access to rehabilitation care.

STAFF REPORTER
HYDERABAD

A nine-month infant from Oman was able to see clearly for the first time in nine months thanks to the efforts of doctors at L V. Prasad Eye Institute.

Toddler Rana was diagnosed with corneal infection and glaucoma soon after birth, severely affecting her vision.

The joy of their baby's birth was short-lived for the parents who sought treatment at several places before they were directed to the institute in Hyderabad. However, the baby could not be operated immediately upon arrival in January. She was suffering from aspiration pneumonia and hypothyroidism, two conditions that did not permit

LVPEI inaugurated NEHA

Bhubaneswar, Mar

7: L V Prasad Eye Institute (LVPEI) today inaugurated the AbhaDalmia Newborn Eye Health Alliance (NEHA) at their Bhubaneswar centre — the Shri Mithu Tulsi Chanrai campus.

Blindness and vision impairment in newborns and young children are on a rapid rise in India owing to improved newborn care and swift socio-economic development. Amongst the various eye disorders in neonates, Retinopathy of Prematurity (ROP) and Amblyopia are two major disorders affecting them and has emerged as a severe challenge particularly in developing and middle-income group



countries. LVPEI Bhubaneswar is a pioneer in providing Retinopathy of Prematurity (ROP) services in Eastern India and is the only Centre in Odisha providing Pediatric retinal imaging, neonatal intensive care facilities in addition to

ROP care under one roof. NEHA, which is supported by Mr. M. H. Dalmia former president of OCL, will further enhance LVPEI's capabilities and increase the reach in Odisha. The centre with state-of-the-art equipments for

Newborn Eye Care and basic lifesaving neonatal care has a team of highly skilled pediatric retina specialist and support staff of anesthesiologist, optometrist and specially trained nurses capable of handling the

most critical newborn eye diseases, especially ROP. The World Health Organization (WHO) has underscored the importance of this condition by including ROP as a major target disease in its prevention of blindness program VISION 2020 — The RIGHT to SIGHT programme to combat needless blindness globally by the year 2020. This centre will provide fully integrated range of in-house ROP services that include screening, pediatric ocular imaging, medical and surgical treatments, pediatric refraction, amblyopia and squint management and any other eye associated problems.

OUR BUREAU

LV Prasad Eye Institute (LVPEI), Dr Taraprasad Das and Dr Rohit Khanna recently interacted with the media. The announcement came from Founder-Chairman of LVPEI, Dr Gullapalli N Rao, who shared the details of the hospital's new venture.

Dr

Das

Vice-Chair,

LVPEI has been re-elected as Regional Chair - South East Asia for the International Agency for the Prevention of Blindness (IAPB). He will hold this position from Oct 2016 to 2020, informed Dr

Rao.

IAPB towards eliminating avoidable blindness and this position demands commitment and conviction to ensure that we achieve the objective and goals within the defined time frame.

At the recently concluded World Health Organization (WHO) meeting on eye health in the world with cataract blindness in the world, convened at the World Health Organization in Geneva, Switzerland, Dr Rohit Khanna was one of the members of WHO con-

ference.

Dr

Rohit

Khanna

IAPB International Centre for Advancement of Rural Eye care (public health division of LVPEI and GE) has been re-elected as Regional Chair - South East Asia for the term. During this tenure, he will be involved in the IAPB's work at LVPEI in Hyderabad where 46 delegates from across the globe will meet to discuss rural eye health delivery, universal health coverage and country action plan to reduce avoidable blindness by 2030.

Talking about his new responsi-

bility

Dr

Taraprasad

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Vice-Chair,

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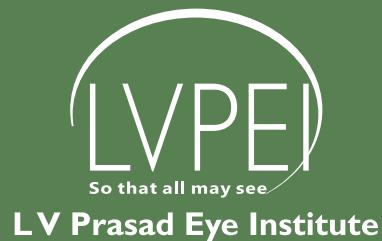
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To find out more about L V Prasad Eye Institute and its programs, services, and facilities, or to find ways to support the institute, please write to us at communications@lvpei.org or visit www.lvpei.org



L V Prasad Eye Institute

Kallam Anji Reddy Campus, Hyderabad
Tel: 91 040 39892020
City Centre: 91 40
39171600/39171601
E-mail: info.hyd@lvpei.org

Mithu Tulsi Chanrai Campus
Patia, Bhubaneswar, Orissa
Tel: 91 0674 3989202
E-mail: info.bbsr@lvpei.org

GMR Varalakshmi Campus,
Visakhapatnam
Tel: 91 0891 3984555
E-mail: info.vizag@lvpei.org

Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada
Tel: 91 0866 3062020
E-mail: KVC-appointment@lvpei.org