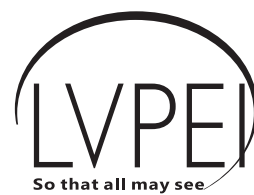


# ACTIVITY REPORT 2014-2015



**L V Prasad Eye Institute**

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## Abbreviations Used

KAR - Kallam Anji Reddy Campus  
GMRV - GMR Varalakshmi Campus  
KVC - Kode Venkatadri Chowdary Campus

RIEB - Ramayamma International Eye Bank  
GPR-ICARE - Gullapalli Pratibha Rao International  
Centre for Advancement of Rural Eye care  
AP - Andhra Pradesh



# THE LVPEI NETWORK

## Centre of Excellence



Kallam Anji Reddy Campus  
Hyderabad, Telangana



## Tertiary Care Centres



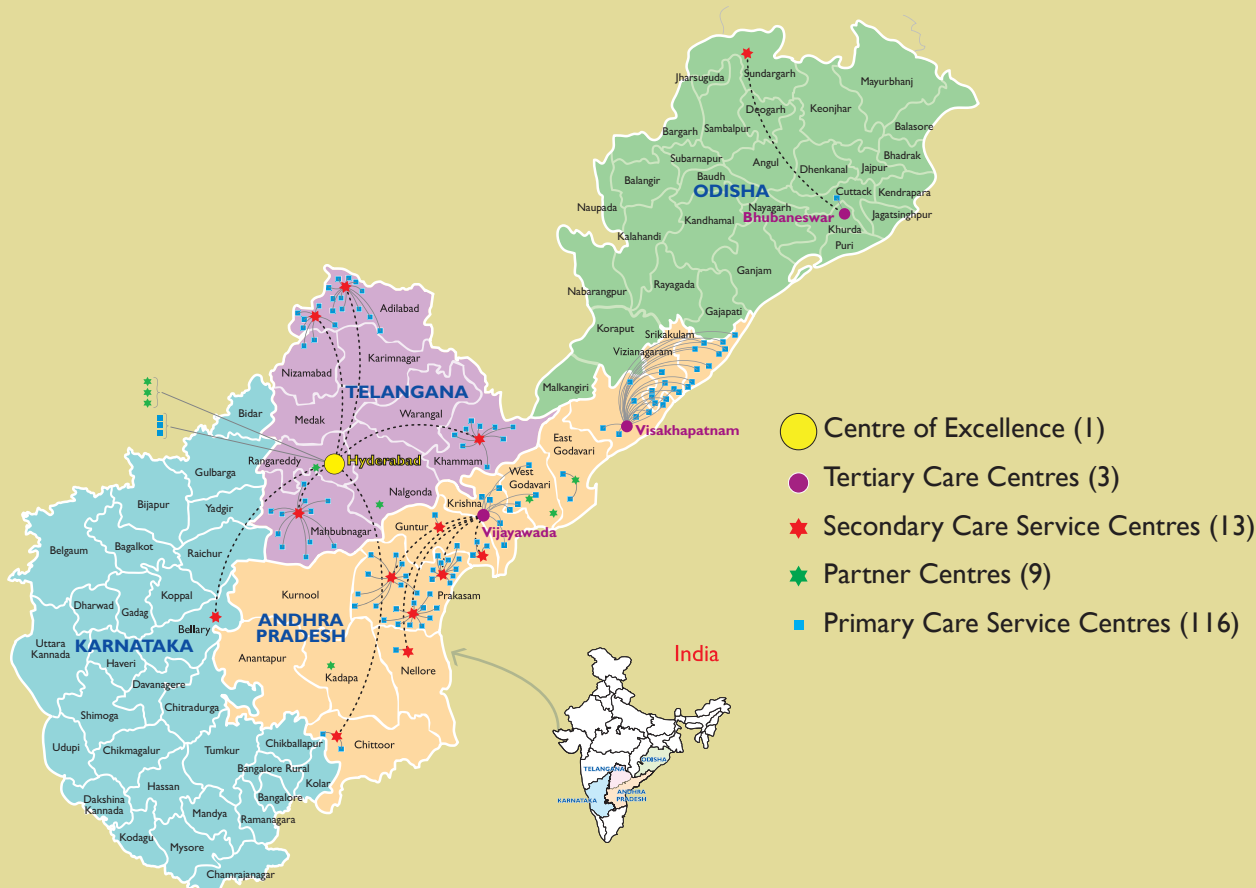
Patia, Bhubaneswar  
Odisha



GMR Varalakshmi Campus  
Visakhapatnam, Andhra Pradesh



Kode Venkatadri Chowdary Campus  
Vijayawada, Andhra Pradesh



- Centre of Excellence (1)
- Tertiary Care Centres (3)
- ★ Secondary Care Service Centres (13)
- ★ Partner Centres (9)
- Primary Care Service Centres (116)

<ul style="list-style-type: none"> <li>● KAR Campus City Centre at Hyderabad</li> </ul>	<ul style="list-style-type: none"> <li>● LVPEI Bhubaneswar</li> <li>■ Banra</li> </ul>	<ul style="list-style-type: none"> <li>★ Paramahansa Yogananda Netralaya, Rajahmundry</li> <li>■ Ravulapalem</li> </ul>	<p>Urban Vision Centres</p> <ul style="list-style-type: none"> <li>■ Ramnagar</li> <li>■ Ramakrishna Math</li> <li>■ Kismathpur</li> </ul>
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(As of 31 March 2015)

## Vision Centres linked to Tertiary & Secondary Centres



★ Bhosle Gopal Rao Patil Eye Centre  
Mudhole  
Adilabad, Telangana

- Bhainsa
- Kubeer
- Nandipet
- Navipet
- Narsapur
- Lokeshwaram
- Tanur



★ Seshanna Chennawar Eye Centre  
Adilabad, Telangana

- Utnoor
- Boath
- Jainath
- Bela
- Narnoor
- Jainoor
- Jannaram
- Medarpet
- Gudihathnoor
- Echoda
- Indravelly
- Neradigonda



★ Kuchakulla Ramachandra Reddy Eye Centre  
Thoodukurthy  
Mahbubnagar, Telangana

- Wanaparthly
- Achampet
- Nagarkurnool
- Kothakota
- Kollapur
- Peddakothapally
- Bijnapally
- Telkapally
- Kalwakurthy
- Lingala
- Amangal



★ Venkata Lakshmi Eye Centre  
Karamchedu  
Prakasam, Andhra Pradesh

- Parchuru
- Panguluru
- Pedanandipadu
- Yeddapanudi
- Marturu
- Ballikuruva
- Epurupalem
- Chinnaganjam
- Naguluppalapadu
- Vetapalem
- Narasayapalem



★ Sudhakar & Sreekanth Ravi Eye Centre  
Markapuram, Andhra Pradesh

- Tripuranthakam
- Yerragondapalem
- Dornala
- Cumbum
- Bestavaripeta
- Giddalur
- Podili
- Darsi
- Kurichedu
- Chimmakurthi



★ Sudhakar & Sreekanth Ravi Eye Centre  
Kandukuru  
Prakasam, Andhra Pradesh

- Tangutur
- Kondapi
- Lingasamudram
- Chandrasekharapuram
- Singarayakonda
- Pamuru
- Ulavapadu
- Medarametla
- Santhanuthalapadu
- Kothapatnam



★ Siloam Eye Centre  
Madanapalle  
Chittoor, Andhra Pradesh

- Nimmanapalle
- B Kothakota



★ Swarna Bharat Eye Centre  
Venkatachalam  
Nellore, Andhra Pradesh

- Podalakuru



★ Nava Bharat Eye Centre  
Paloncha  
Khammam, Telangana

- Yellandu
- Kallur
- Manuguru
- Ashwapuram
- Dammamet
- Tekulapally
- Cherla
- Chandrugonda
- Thallada



★ Dr Kommareddy Raja Ram Mohan Rao Eye Centre  
Gudavalli  
Guntur, Andhra Pradesh

- Bhattiprolu
- Amrutaluru



★ Y Mahabaleswarappa Memorial Eye Centre  
Bellary  
Karnataka



★ Edward and Soona Brown Eye Centre,  
Dhulipalla, Guntur, AP

- Vutukuru



★ OCL Eye Centre,  
Rajgangpur, Odisha

### ● GMRV Campus, Visakhapatnam (Srikakulam & Vizianagaram)

- Shrungavarapukota
- Chodavaram
- Revidi
- Gajapathinagaram
- K Kotapadu
- Yalamanchili
- Kailasapatnam
- Govindapuram
- Kothavalasa
- Kasimkota
- Araku
- Lakkidam
- Lakkavarapukota
- Lodagalavanipalem
- Bhogapuram
- Mandasa
- Santhabommali
- Maliyaputti
- Pydibhimavaram
- Tekkali
- Hiramandalam
- Ranasthalam
- Ponduru
- Kotturu
- Narasannapeta

### ● KVC Campus, Vijayawada

- Kapileswarapuram
- Kovvali
- Pedapadu
- Mylavaram
- Lingala
- Buttayagudem
- Agiripally
- Vissannapeta
- Movva
- Unguturu

# The Year at a Glance

The LVPEI pyramid of service delivery touches all levels of society, from remote rural villages to busy urban centres. From primary eye care to advanced tertiary (quaternary).

This year, we reached a total of 1,709,382 people including 175,695 children through these various levels of care. Of these, 1.2 million (1,185,633) received eye care services entirely free of cost as part of our community programs, outpatient and surgical services at various levels.

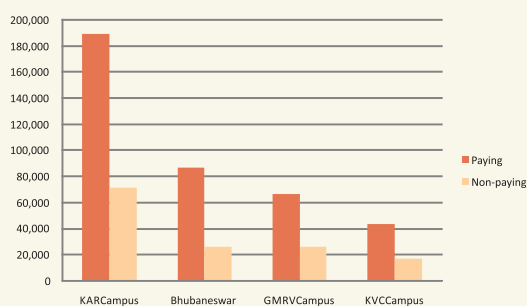
## PATIENT CARE Service Delivery: Community Eye Health Programs

Entirely free of cost

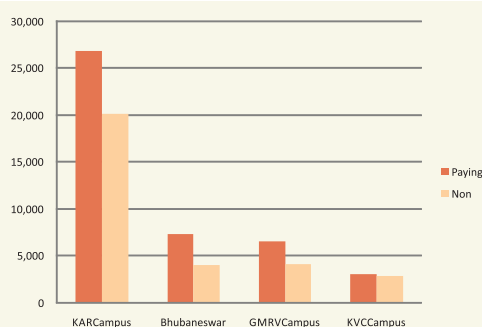
Population covered by door-to-door surveys (600 villages surveyed)	629,889
Population screened (1750 community programs)	118,222
Schools & Anganwadis (creches) covered	632
Population reached	629,889
Children screened	84,058
Total reached	713,947

	Outpatient visits	Entirely Free of cost	Surgeries	Entirely Free of cost
<b>PRIMARY EYE CARE</b>				
116 Vision Centres	195,737	100%	NA	NA
<b>SECONDARY EYE CARE</b>				
13 Service Centres	175,141	49.8%	23,338	76.0%
<b>TERTIARY EYE CARE</b>				
Bhubaneswar	113,008	23.1%	11,363	35.4%
Visakhapatnam	92,111	28.0%	10,689	38.6%
Vijayawada	60,501	27.9%	5,913	48.5%
<b>ADVANCED TERTIARY (QUATERNARY) CARE</b>				
Hyderabad	260,547	27.3%	47,087	42.8%
<b>Total</b>	<b>897,045</b>	<b>47.0%</b>	<b>98,390</b>	<b>43.65%</b>
Includes 91,637 children				
Free of cost services are provided irrespective of the complexity of care.				
These numbers do not include data from our partner centres.				
Partner Secondary Centres	208,031	46.6%	28,132	62.4%

### Outpatient Visits



### Surgical Procedures



# The Network Grows

(As of 31 March 2014)

	In operation	In process
Centre of Excellence	1	--
Tertiary Centres	3	--
Service Centres	13	3
Vision Centres	116	26
Capacity building collaborations		
Technical consultancy in specific areas	16	4

REHABILITATION	
Providing a better quality of life	
Sight enhancement client visits (low vision)	8,416
Vision rehabilitation client visits	17,164
Community based rehabilitation	951

EYE BANKING				
Facilitating the gift of sight				
Corneas harvested	Hyderabad	Bhubaneswar*	Visakhapatnam*	Total
	5,066	700	828	6,594

\*Community Eye Bank

EDUCATION			
Enhancing skills and building human resources			
Ophthalmologists	155	Optometrists	95
Other eye care professionals	151	Vision technicians	45
Participants in CME and other programs	1180	Ophthalmic nursing trainees	21
Community eye health professionals	24	Others	51

In addition, many more attended our CME programs through live webcasts.

RESEARCH	
Pushing the frontiers	
Presentations	
International	184
National	363
Publications	248
Awards and Honours	98

# Our Team

Gullapalli N Rao  
*Chair*

Taraprasad Das  
*Vice Chair*

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

Ramam Atmakuri  
*Executive Vice Chair*

D Balasubramanian  
*Director, Prof Brien Holden Eye Research Centre*

Prashant Garg  
*Director, Academy for Eye Care Education*  
*Dr G Chandra Sekhar Chair of Education*

Virender S Sangwan  
*Director - SRUJANA Centre for Innovation, Centre for Regenerative Ophthalmology and Dr Paul Dubord Chair of Cornea*

Savitri Sharma  
*Director, Laboratories*

Rohit Khanna  
*Director, Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye Care (GPR ICARE)*

Subhabrata Chakrabarti  
*Prof Brien Holden Eye Research Centre*

Shrikant R Bharadwaj  
*Optometry*

Vijaya K Gothwal  
*Meera & L B Deshpande Centre for Sight Enhancement*

Beula Christy  
*Dr PRK Prasad Centre for Rehabilitation of Blind & Visually Impaired*

Venkatesh M Reddy  
*Chairman's Office*

K V Subba Rao  
*Finance & Accounts*

Vamshi Krishna NK  
*Human Resources*

Ghanshyam Singh  
*Opticals - Technology & Training*

Nagavardhan Reddy  
*Opticals - Operations*

Sam Balasundaram  
*Fund Raising & Donor Relations*

K Annapurna Devi  
*Technology*

Sreedevi Yadavalli  
*Communications & Corporate Relations*

M Shobha  
*Audio Visual*

Elena D Roopchandra  
*Research*

Chaitanya Nelluri  
*Mark Nathaniel Thadikonda & Vijayamma Nannepaga Centre for Eye Care Education*

Md Hidayath Ali  
*Stores*

Anjaneyulu B  
*Purchase*

J Shive Shankar  
*Security*

## Kallam Anji Reddy Campus, Hyderabad

G Chandra Sekhar  
*Director and Dr Kallam Anji Reddy Chair of Ophthalmology*

Subhadra Jalali  
*Clinical Services, all Hyderabad campuses*

Chandra Sekhar  
*Director's Office*

### Clinical Services

#### Cornea & Anterior Segment

Somasheila Murthy

Bhupesh Bagga

Sayan Basu

Sunita Chaurasia

Prashant Garg

Pravin V Krishna

R Muralidhar

Varsha Rathi

C Jagadesh Reddy

Virender S Sangwan

Mukesh Taneja

K Madhavi Latha

Preetam Kumar

P Veerendranath

J Karthik

Nazia Begum

B Praveen Kumar

Geetha Sravani

N Vinay Kumar

Swaathi Balaji

Vaishaali Gunalan

Baghya Lakshmi

P Rajni

Samrat Sarkar

#### Bausch & Lomb Contact Lens Centre

Pravin V Krishna

Varsha Rathi

D Srikanth

T Shyamsunder

Preetam Kumar

Parthasarathi K

Nending Pampi

#### Cataract & Refractive Surgery Services

Pravin V Krishna

Bhupesh Bagga

Prashant Garg

R Muralidhar

Somasheila Murthy

Varsha Rathi

C Jagadesh Reddy

Sayan Basu

#### Ocular Oncology

Mohammad Javed Ali

Milind N Naik

Vijay Anand P Reddy

Swathi Kaliki

Tarjani Vivek Dave

#### Ophthalmic Plastic Surgery & Aesthetics

Milind N Naik

Mohammad Javed Ali

Gautam Dendukuri

Swathi Kaliki

Vijay Anand P Reddy

Tarjani Vivek Dave

M Yashwanth Goud

Winston D Prakash

Sadiya Iram

#### Ocular Prosthesis

Srinivas Allam

Gayatri Bharadwaj

#### Uveitis & Ocular Immunology

Annie Mathai

Jay Chhablani

Somasheila Murthy

Raja Narayanan

Rajeev R Pappuru

Virender S Sangwan

Mudit Tyagi

Apoorv Sharma

Raghava Chary

Ravi Kumar

J Ganesh Babu

A Uday Kumar

Ashwin Goud

Shankar Kalmuri

Shashikant Chaudhary

Unnisa Begum

#### Comprehensive Ophthalmology

Rohit Khanna

Bhupesh Bagga

Anthony Vipin Das

#### Smt. Kanuri Santhamma Centre for Vitreo Retinal Diseases

Rajeev R Pappuru

Divya Balakrishnan

Jay Chhablani

Taraprasad Das

Subhadra Jalali

Annie Mathai

Raja Narayanan

Padmaja K Rani

Mudit Tyagi

Vivek Pravin Dave

Apoorv Sharma

Hari Kumar

Jennifer Jayaraj

Karnati Bharath

Ashwin Goud

Mahender Singh

Naresh Kumar

Yugandhar Reddy

Sobia Taureen

Sandipan Roy

Sitarama Anjaneyulu

#### VST Centre for Glaucoma Care

Sirisha Senthil

Rohit Khanna

Anil K Mandal

Vanita Pathak-Ray

B L Harsha Rao

G Chandra Sekhar

Siddharth Dikshit

Nikhil Choudhari

Ashwin Goud

A Uday Kumar

Aditya Chaitanya

Cyril Sarah

J Ganesh Babu

Kalmuri Shankar

Raghava Chary

Ravi Kumar

Shashikant Chaudhary

Unnisa Begum

Yugandher Reddy

Seema Banerjee

#### Jasti V Ramanamma Children's Eye Care Centre

Ramesh Kekunnaya

Divya Balakrishnan

Preeti Patil Chhablani

Subhadra Jalali

Swathi Kaliki

Anil K Mandal

R Muralidhar

Padmaja K Rani

C Jagadesh Reddy

Sirisha Senthil

Divya Jagadish

Geetha Sravani

Tabita Naomi

Puja Sarbajna

Winston Prakash

#### Strabismus (Squint)/ Neuro-ophthalmology

Ramesh Kekunnaya

Preeti Patil Chhablani

Nikhil Choudhari

#### Internal Medicine

Archana Bhargava

#### Dietician

A Rama Devi

#### Refractive Clinic Team

J Ganesh Babu

Ravi Kumar

T Shyamsunder

A Uday Kumar

Winston D Prakash

Yashwanth Goud

P Veerendranath

#### Administration

Joji Prasad

Operations

E S Manjula

Patient Care

G Vijaya

Nursing

Kishore Babu

Medical Records

SBN Chary

Photography

Snehasis Mitra

Properties & Maintenance

#### City Centre, Madhapur

Bhupesh Bagga

Anjul Kumar

Krishnendu Mandal

Kiranmayi Ch

Dharani Tripuraneni

Sushma Gollapudi

Sana Quadri

#### Administration

K Durga Dhanraj

#### Vision Rehabilitation Centres

Meera & L B Deshpande

Centre for Sight

Enhancement

Vijaya K Gothwal

Deepak K Bagga

Seelam Bharani

Rebecca Sumalini

Premnandhini Satgunam

Dr PRK Prasad Centre for Rehabilitation of Blind & Visually Impaired

Beula Christy

Mahalakshmi

#### Ramayamma International Eye Bank

Sunita Chaurasia

K Hariharan

G Srinivas

#### Mark Nathaniel Thadikonda & Vijayamma Nannepaga Centre for Eye Care Education

Prashant Garg

Director and Dr G. Chandra

Sekhar Chair of Education

#### LVP-Zeiss International

Academy of Advanced

Ophthalmic Education

Vanita Pathak-Ray

Varsha Rathi

#### Bausch & Lomb School of Optometry

P K Sai Prakash

Principal

Y Vijay Kumar

Registrar

#### Faculty

Shrikant R Bharadwaj

Archana Bhargava

Beula Christy

Vijaya K Gothwal

Korani Jyothi

S Kartheek Kumar

Y Vijay Kumar

Srinivas Marmamula

K Parthasarathi

Vanita Pathak-Ray

Vijaya L Ramam

P Shailaja

T Shyamsunder

M Srikanth

D Srikanth

Jachin D Williams

Charanya Ramachandran

L Srinivasa Varadharajan

Premnandhini Satgunam

Sitarama Anjaneyulu

B Praveen Kumar

Snigdha

#### Administration

Chaitanya Nelluri

Snigdha



## Prof Brien Holden Eye Research Centre

D Balasubramanian  
*Director*

**Jhaveri Microbiology Centre**  
Savitri Sharma Das  
Joveeta Joseph

**Saroja A Rao Immunology Laboratory**

Sanhita Roy  
Savitri Sharma Das

**Ophthalmic Pathology Laboratory**  
Dilip Mishra

**Kallam Anji Reddy Molecular Genetics Laboratory**  
Chitra Kannabiran

Subhabrata Chakrabarti  
Inderjeet Kaur

**Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory**  
Charanya Ramachandran  
Indumathi Mariappan  
Virender S Sangwan  
Vivek Singh

**Visual Optics and Psychophysics Laboratory**  
L Srinivasa Varadharajan  
Shrikant R Bharadwaj

**Ophthalmic Biophysics Laboratory**  
Ashutosh Richhariya

**Vision Rehabilitation**  
Premnandhini Satgunam

**Clinical Research**  
Raja Narayanan  
Thiruttani Charithi

## Bhubaneswar Campus, Bhubaneswar

Sujata Das  
*Director & Dr Taraprasad Das*  
*Chair of Ophthalmology*

### Clinical Services

**Cornea & Anterior Segment**  
Srikant K Sahu  
Sujata Das

**Contact Lens & Refractive Surgery**

Srikant K Sahu  
Sujata Das  
Sujata Samal  
Satabdi Sundaray  
Arnav Ghosh

**Consultant Optometrists**  
Sujoy Mukherjee

**Glaucoma**  
Aparna Rao  
Sanghamitra Dash

Avik Kumar Roy  
**Retina & Vitreous**  
Soumyava Basu  
Tapas Ranjan Padhi  
Umesh Chandra Behera

**Ophthalmic Plastic Surgery, Orbit & Oncology**  
Suryasnata Rath  
Devjyoti Tripathy

**Ocular Prosthesis**  
Suryasnata Rath  
Devjyoti Tripathy  
Arunima Mishra  
Suryasmita Nayak

**Comprehensive Ophthalmology**  
Sagarika Dash

**Paediatric Ophthalmology, Strabismus & Neuro-ophthalmology**  
Vivek Warkad

**Miriam Hyman Children's Eye Care Centre**  
Vivek Warkad

Tapas Ranjan Padhi  
Sanghamitra Dash  
Srikant K Sahu  
Suryasnata Rath  
Aparna Rao

**NTPC Centre for Diabetic Eye Diseases**  
Soumyava Basu

Tapas Ranjan Padhi  
Umesh Chandra Behera

**NTPC Eye Trauma Centre**  
Suryasnata Rath  
Soumyava Basu  
Sujata Das  
Tapas Ranjan Padhi  
Umesh Chandra Behera

**NTPC Centre for Sight Enhancement and Rehabilitation of Visually Challenged**

Ch Sirajum Monira  
Sumita Lima  
Soumya Panda

**Ocular Microbiology Service**  
Savitri Sharma

**Dalmia Ophthalmic Pathology Service**  
Ruchi Mittal

**Anesthesia Services**  
Debendranath Das

**Pathak Centre for Eye Care Education**

Suryasnata Rath  
Suchitra Panda

**Internal Medicine**  
Bharat Panigrahi

**Basic Research**  
Mamatha Reddy

**Administration**  
Bikash Chandra Mohanta  
Prakash Chandra Das  
Chhoton De

Sudipta Parida  
Prakash Nayak

**Drushtidaan Eye Bank\***

Sujata Das  
Srikant K Sahu

\*Community Eye Bank on our campus

## GMR Varalakshmi Campus, Visakhapatnam

Merle Fernandes  
*Director*

### Clinical Services

**Cornea & Anterior Segment**  
Merle Fernandes  
Jayesh Vazirani

Rashmi Shukla  
Abhishek C Bawdekar  
Rekha Gunturu

**Contact Lens & Refractive Surgery**  
Merle Fernandes

Jayesh Vazirani  
Rashmi Shukla  
Rekha Gunturu  
D S V Ramkumar

**Glaucoma**  
P V K S Varma  
J J Praveen

**Retina & Vitreous**  
Avinash Pathengay  
Anand Kumar P

**Ophthalmic Plastic Surgery, Orbit & Ocular Oncology**  
Samir Mahapatra

**Nimmagadda Prasad Children's Eye Care Centre**  
Virender Sachdeva  
Merle Fernandes  
P V K S Varma

**Strabismus/ Neuro-ophthalmology**

Virender Sachdeva  
Avinash Pathengay  
Rekha Gunturu

**Uveitis**  
Avinash Pathengay  
Abhishek C Bawdekar

**Bob Ohlson Centre for Sight Enhancement**

Rekha Gunturu  
Lakshmi Dwara  
Dharani Nanda

**Rehabilitation services**  
Winifred Roche

**Ocular Microbiology Service**  
K Nagendra Kumar

**Pathak Centre for Eye Care Education**

Virender Sachdeva

**Administration**  
B V S Mallikarjuna Rao  
K Lokesh  
K Gopal Rao  
G Rambabu  
Anil Kumar Kathala

**Mohsin Eye Bank\***  
Merle Fernandes

\*Community Eye Bank on our campus

## Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada

Avinash Pathengay  
*Acting Director*

### Clinical Services

**Cornea & Anterior Segment**  
Mahesh Kalyankar  
Arjun Srirampur  
Aravind Roy

**Retina & Vitreous**  
Vishal R Raval  
Sameera Nayak

**Glaucoma**  
Prakrati Gupta  
Balu Garudadri

**The David Brown Children's Eye Care Centre**  
Niranjan K Pehere  
**Neuro-ophthalmology**  
Niranjan K Pehere

**Ocular Microbiology Services**  
Shaily V Raval

**Centre for Sight Enhancement**  
A Narasaiah

**Rehabilitation services**  
Beula Christy  
Mary Jennifer  
Ravi Kumar

**Consultant Optometrists**  
B V L Narayana  
P Srinivasa Rao  
Venkatesh

Kelli Vidya Sagar  
Rajavardhan M  
Srilatha M  
Satish M

**Visiting LVPEI Faculty**  
Pravin V Krishna, *Cataract, LASIK and Contact Lens*  
Somashaile Murthy, *Cornea, Ocular Immunology and Uveitis*  
Avinash Pathengay, *Retina and Vitreous*

Samir Mahapatra and Sourabh Kamal, *Ophthalmic Plastic Surgeons*

**Administration**  
P V Kiran  
M Sridevi  
Subrahmanyam N  
Jani S M  
S Sirisha  
M Satya Ramesh

## Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care (GPR ICARE), Kismatpur Campus

Rohit C Khanna  
*Director*  
V Rajashekar  
*Executive Director*

**Service Delivery (Secondary, Primary and Community Eye Care)**  
Varsha Rathi

B V Raghavulu  
Amol Sonawane  
Uday Kumar A  
Jachin D Williams  
Suresh K  
Naresh Rao S  
Vasu Babu V  
Narsing Rao

**Ramachandra Pararajasegaram Community Eye Health Education Centre**  
Srinivas Marmamula  
Jachin D Williams  
Asha Latha Mettla  
Korani Jyothi

**Allen Foster Community Eye Health Research Centre**

Srinivas M. armamula  
Giridhar Pyda  
Asha Latha Mettla

**Programs & Projects**  
V Rajashekar  
Gullapalli N Rao  
Rohit C Khanna

# Boards of Management

L V Prasad Eye Institute (LVPEI), a not-for-profit organization is managed by: the Hyderabad Eye Institute (HEI), a registered Trust under the Indian Trust Act, and the Hyderabad Eye Research Foundation (HERF), a society registered under the Societies Act. HEI and HERF together are responsible for governance of all activities at LVPEI.

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Founder-Chair  
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Public Health Foundation of India, New Delhi

Prof Seyed E Hasnain (until December 2014)  
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Indian Institute of Technology, New Delhi

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Precision Eye Care  
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L V Prasad Eye Institute, Hyderabad

Taraprasad Das (Ex-Officio)  
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L V Prasad Eye Institute  
Hyderabad

Ramam Atmakuri (Ex-Officio)  
Executive Vice Chair  
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Hyderabad

## Hyderabad Eye Research Foundation

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Distinguished Biotechnology Professor  
Translational Health Science & Technology Institute  
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L V Prasad Eye Institute  
Hyderabad

Taraprasad Das (Ex-Officio)  
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Ramam Atmakuri (Ex-Officio)  
Executive Vice Chair  
L V Prasad Eye Institute  
Hyderabad

# Foreword



## Depth, Breadth and Impact

It is said that purposeful and long term survival of an organisation is based on its values. Our Institute was founded on the values of “Excellence” and “Equity” and we have never wavered from these in our journey. In the past couple of years, this was further extended to include Integrity, Patient First and Togetherness. As I reflect on the year past, several facets of our work were clear manifestations of these values.

A record performance in the field of corneal transplantation with over 20,000 transplants done, and over 45 percent of these at no cost to the recipient, exemplifies the reconciliation of the two foundational values even in the care of complex corneal problems. Building what has become one of the biggest cornea services in the world, from nothing, meant creating each component of this complex system and integrating it into an impactful service. This service touched every economic, social, geographic, gender and generational group, created nearly two thirds of the trained corneal specialist force in India; and for many countries, their sole cornea specialists. Over the years, the service has gone deeper into such areas as stem cell transplantation, keratoprosthesis and bioengineered corneas, employing cutting edge technologies. Research covers many facets of corneal disease including infections, regeneration, dry eye and several aspects of corneal transplantation, with focus on the “translational” component. Our cornea service indeed exemplifies all aspects of work that our Institute stands for – Service, Education, Research, Advocacy, Policy and Planning. This is the approach we follow in each of the subspecialty areas. Retinopathy of prematurity, glaucoma, diabetic retinopathy and refractive errors are a few other areas where a similar process is being implemented.

We broadened our geographic reach with our foray into the rural hinterlands of the state of Odisha (formerly Orissa). The first secondary level eye care centre in the north-western part of the state will cover a grossly underserved population. Local funding, and employees mostly drawn from local communities, ensure community partnership and enhance the chances of its success. Nearly a million people in this geographic area can access high quality comprehensive eye care provided by a highly trained eye care team. This model will be expanding to three other rural locations in the near future, a replication of our successful model in Andhra Pradesh and Telangana. While on rural eye care, let me add that our count of primary eye care vision centres has now reached one hundred and sixteen.

We have also proven ourselves to be quite good at repair and reconstruction, with nature testing our resilience when the super cyclone “Hudhud” hit Visakhapatnam on the east coast of India with massive devastation. But the value of “togetherness” of our team made our tertiary campus ready for services in 24 hours keeping alive the value of “Patient First”. Many team members across the network made personal contributions to cover for the losses sustained by some of our colleagues showing “togetherness” of the highest degree.

A couple of years ago, we embarked on our vision of “Next 25”, beginning with six initiatives. The progress made on each of these during the year has been very encouraging, and the new wave of “Corporate Social Responsibility” funding from the Indian corporate sector made a significant difference. The image and the reputation of our Institute - our “Integrity” - a value that we cherish, helped the Institute become a desirable candidate for funding. Grants from some of our long term partners further helped. Children’s Eye Health, Eye Care for the Elderly, Eye Banking, Eye Cancer, Ocular Regeneration and the Academy for Eye Care Education have all progressed well due to this infusion. Expansion, enhancement and innovation were the features of this progress.

Education programmes covering all cadres of eye care personnel have become sharper and our capacity has increased. Research component continued to flourish with excellent outcomes while becoming broader and deeper. Infections, stem cell biology, visual psychophysics, ocular tuberculosis and epidemiology are some of the examples.

As in earlier years, many in our team were recipients of accolades from all over the world that enhanced our image significantly. The generosity of our friends and supporters continued to grow making it possible for our proliferation more impactful. To all of them, we convey our deepest sense of appreciation.



Gullapalli N Rao  
Chair, Board of Trustees



# Awards and Honours

## International

### D Balasubramanian

- Science Diplomacy Award, World Academy of Sciences, Muscat, 25-28 October 2014; Category: Advancement of science in developing nation.
- Guest of Honour, Delivered the Convocation Address, BITS Pilani, Dubai campus, 6 September 2014.

### Subhabrata Chakrabarti

- Chairperson, Asia-Pacific Society for Eye Genetics, International Symposium of Ophthalmology, Hong Kong, 27 September 2014.
- Founder Member, Asian Eye Genetics Consortium (AEGC), under the aegis of the National Eye Institute, USA.
- Vice President, Asian Eye Genetics Consortium - A joint initiative: National Institute of Sensory Organs Tokyo Medical Centre, Japan; National Eye Institute; National Institute of Health, USA.
- Committee member, Association for Research in Vision and Ophthalmology (ARVO), Global Eye and Vision Sciences Research Training Initiative.
- Oration, Association for Research in Vision and Ophthalmology (ARVO), Egypt Chapter; 2014.
- International Reviewer, PhD Review Panel, University of New South Wales, Sydney, 2014.
- International Reviewer, PhD Review Panel, Chinese University of Hong Kong, 2014.

### Jay Chhablani

- Senior Honour Award, American Society of Retina Specialists (ASRS).
- Member, Global ONE network, American Academy of Ophthalmology.

### Sunita Chaurasia

- Achievement Award, American Academy of Ophthalmology (AAO).

### SBN Chary

- First prize and 3 Honourable Mentions, Annual Symposium and Congress: American Society of Cataract and Refractive Surgery (ASCRS) and American Society of Ophthalmic Administrators (ASOA), San Diego, 21-27 April 2015.

### Taraprasad Das

- Committee Member, International Council of Ophthalmology (ICO) Vitreoretinal Diseases and Surgery Subspecially Fellowship Committee.

### Naresh Gattu

- Second Prize and One Honourable Mention, Annual Symposium and Congress: American Society of Cataract and Refractive Surgery (ASCRS) and American Society of Ophthalmic Administrators (ASOA), San Diego, 21-27 April 2015. This is a hetrick for him.

### Subhadra Jalali

- Honoured, Distinguished Lecturer, Boston Children's Hospital Foundation, Harvard Medical School, July 2014.

### Swathi Kaliki

- Achievement Award, American Academy of Ophthalmology, Chicago, 18-21 October 2014.

### Ramesh Kekunnaya

- Member, Professional Education Committee, American Association for Pediatric Ophthalmology and Strabismus (AAPOS), 1 July 2014-30 June 2015.
- International Scholar Award, American Academy of Ophthalmology 2014.
- Section Editor, British Journal Of Ophthalmology, June 2014.

### Rohit C Khanna

- Member, Editorial Board of PLOS ONE - A Scientific Journal.
- Member, Programme Committee, 10<sup>th</sup> General Assembly of International Agency for Prevention of Blindness, Durban, 27-30 October 2016.
- Member, Steering Group Committee, Commonwealth Eye Health Consortium, Open Educational E-learning Resources / Courses (OER).

### Srinivas Marmamula

- Travel Grant to attend Asia ARVO (Association for Research in Vision and Ophthalmology) Meeting, Yokohama, Japan, 16-19 February 2015.

### Ruchi Mittal

- Awarded, University of Liverpool - India Fellowship, Department of Molecular and Clinical Cancer Medicine, University of Liverpool, United Kingdom, 2014-2015.

### Rohit Modi

- Travel Grant, Department of Science and Technology, Government of India, October 2014.

### Ashik Mohamed

- Winner, Annual Student Photo Competition, School of Optometry and Vision Science, University of New South Wales (UNSW), Australia, September 2014; Title- Minishadowgraphy images of isolated human donor lenses.
- Postgraduate Research Support Scheme (PRSS) Recipient, Graduate Research School, The University of New South Wales, Sydney, Australia, Apr 2014.

### Somasheila Murthy

- Achievement Award, American Academy of Ophthalmology (AAO), 2014.
- Best Poster of the Session Award, American Academy of Ophthalmology, Chicago, 2-18 October 2014; Title: Prosthetic Replacement of the Ocular Surface Ecosystem in Stevens-Johnson Syndrome.



### Muralidhar Ramappa

- Achievement Award, American Academy of Ophthalmology, November 2014.

### Gullapalli N Rao

- Chair, Academia Ophthalmologica Internationalis.
- Delivered the prestigious W Morton Grant lecture, Tufts Medical School, Boston.
- Delivered the Professor Barrie Jones Lecture; Royal College of Ophthalmologists, Annual Congress, Birmingham, UK.
- Member, Board of Trustees, Orbis UK, London.
- Member, Board of Trustees, SightLife International, Seattle, USA.

### Varsha M Rathi

- Best Poster of the Session Award, American Academy of Ophthalmology, Chicago, 2-18 October 2014; Title: Prosthetic Replacement of the Ocular Surface Ecosystem in Stevens-Johnson Syndrome.

### Jagadesh C Reddy

- Travel Grant to attend World Ophthalmology Congress (WOC) 2014, Tokyo, Japan, April 2014.

### AR Sandeep Roy

- A picture clicked by him on the cover page of Eurotimes, October 2014 issue.



### Virender S Sangwan

- Senior Achievement Award, American Academy of Ophthalmology (AAO).

### Sachin Shukla

- Best Abstract Award and Wings for Life Travel Award, Joint symposium of the "4<sup>th</sup> International Neural Regeneration Symposium (INRS)," the "6<sup>th</sup> International Spinal Cord Injury Treatment and Trials Symposium (ISCITT)" and the "9<sup>th</sup> Asia Pacific Symposium on Neural Regeneration (APSNR)", China, 6-10 September 2014.
- Travel Award, 3<sup>rd</sup> International Conference on Hydrogen Sulfide in Biology and Medicine (H2S2014), Kyoto, Japan, 4-6 June 2014.

### Pravin K Vaddavalli

- (Co-author) Best Poster, American Society of Cataract and Refractive Surgery (ASCRS) in category of cornea; Title: Real-Time Intraoperative OCT Imaging: Lamellar Keratoplasty and Donor Tissue Preparation.

### L Srinivasa Varadharajan

- Inducted, Editorial Board, Dove Press's Clinical Ophthalmology, March 2015.

## National Newborn Week 2014 Award

The National Newborn Week 2014 Activities Award was jointly awarded to LVPEI and the Odisha State Branch of National Neonatology Forum (NNF). Subhadra Jalali received the award from the Bihar Minister of Education and Human Resource Development Shri Brishen Patel on 5 December 2014 in Patna.

## Frost & Sullivan's Best Practices Awards

LVPEI was the proud recipient of the '2014 Frost & Sullivan India Technology Innovation Leadership Award for Eye Care Solutions'. Dr G Chandra Sekhar received the award on behalf of the Institute on 23 September 2014.

## National

### Mohammad Javed Ali

- AIOS-APAO Santosh G Honavar Award, Agra, January 2015; Category: Best lacrimal research.
- Raman Mittal Award, Best Paper, APSOPRS, Delhi, 2014.
- Rapid Fire Award, Best paper, APSOPRS, Delhi, 2014.
- Dr P Ranga Reddy Endowment Lecture, Annual Conference of Sarojini Devi Eye Hospital, July 2014; Topic: The Great Debate: Approaches to Lacrimal Interventions.

### Ramam Atmakuri

- Hyderabad Software Exporters Association (HYSEA) Award, 12 March 2015; Category: Outstanding Service to the IT Industry.



### D Balasubramanian

- Nayudamma Gold Medal, Andhra Pradesh Academy of Sciences, 13 November 2014; Category: For lifetime contributions to research and education.
- Eminent Educator Award for Lifetime, INDUS Foundation, Hyderabad, 20 November 2014; Category: Education, Research and Social Welfare.
- TWAS Science Diplomacy Award, Bangalore, 18-20 February 2015.

### Kishore Babu

- Best Paper Presentation, Annual National Medical Records Conference MEDRECON, Tamil Nadu, 6-7 March 2015; Title: Medical Records: Role and Accreditation Process



### Deepak K Bagga

- Amjad Rahi Prize, Best Poster Presentation, Clinical Sciences, IERG 26-27 July 2014; Title: Educational levels in patients with Albinism. Co-authors: Vijaya K Gothwal and Adedayo O Adio.

### Seema Banerjee

- Young Leadership Program Award, Indian Vision Institute, Hyderabad, 2014-2015.

### Umesh C Behera

- Best Poster award, Vitreo-retinasociety of India, Annual Meet, Agra, November 2014; Title: Pulsating long posterior ciliary artery and the mysterious temporal macular dimple.

## BSLO Wins Educational Excellence Award

The Bausch and Lomb School of Optometry (BSLO) won the award for Educational Excellence presented by the Indo-Global Education Expo and Summit 2014.

#### Jay Chhablani

- Member, Editorial Board, Indian Journal of Ophthalmology.

#### Subhabrata Chakrabarti

- Re-elected, Executive Council, Indian Society of Human Genetics (ISHG).

#### Taraprasad Das

- Delivered the Adenwala Oration, 73<sup>rd</sup> All India Ophthalmological Society (AIOS), New Delhi, 5-8 February 2015.
- Committee member, Vitreoretinal Diseases and Surgery Subspecialty Fellowship Committee, International Council of Ophthalmology (ICO), 2014.
- Member, Task Force for Prevention and Control of Diabetic Retinopathy, Ministry of Health and Family Welfare, Government of India, 2014.

#### Siddharth Dikshit

- Best poster, Glaucoma Society of India, Bhubaneswar, 12-14 September 2014; Title: Glaucoma progression on 24-2 versus 10-2 Humphrey visual field examinations.

#### Rajat Jain

- Suryanarayan Gold Medal, Annual Conference, Rajasthan Ophthalmological Society in Kota, 5-7 September 2014; Category: Best competitive paper.

#### Subhadra Jalali

- Patron, Telangana Women Ophthalmologists Society, March 2015.
- Member, National Board of Examinations, Evaluating Theory Answer Sheets and Conducting Feedback Sessions, DNB Ophthalmology Residents, March 2015.
- Chief Guest, International Women's Day, Shantha Biotech Pharmaceuticals, 6 March 2015; Title: 1) Triumphs and challenges as a woman ophthalmology practitioner. 2) Preventing blindness in your newborns.
- Member, Extended and Re-Constituted ROP National Task Force, Department of Health and Family Welfare, Government of India, October 2014.

#### Joveeta Joseph

- Dr C S Bhaskaran Gold Medal, 18<sup>th</sup> Annual Conference of Indian Association of Medical Microbiologists, AP Chapter, Khammam, Telangana, 7-8 February 2015; Category: Junior Best Paper Award; Title: Corynebacterium spp. endophthalmitis: Clinico-microbiologic profile and outcomes.

#### Parthasarathi Kalaiselvan

- Best Poster, 36<sup>th</sup> All India Optometry Conference held at Agra, 6-8 September 2014. Title: Corneal Asphericity in Normal and Keratoconus Eyes - Quadrant-wise analysis. Co-authors: Ashik Mohamed, Shyam Sunder Tummanapalli and Pravin K Vaddavalli.
- Grand Prize Winner, All India Cooper Vision Quiz (South zone), September 2014.

#### Inderjeet Kaur

- Treasurer, Indian Society of Human Genetics (ISHG), 2015-2017.

#### Rohit C Khanna

- Prof R P Pokhrel ACOIN NNJS Indo Nepal Friendship Award 2013, Association of Community Ophthalmologists of India (ACOIN), Kolkata, 31 October-2 November 2014.

#### Srinivas Marmamula

- Wellcome Trust/DBT India Alliance - Early Career Fellowship, 2015 to 2020; Project Title- Impact of intervention for avoidable visual impairment among the elderly population in residential care in and around Hyderabad, India.

#### Avinash Pathengay

- K Vengal Rao Award, 38<sup>th</sup> Annual Conference of Andhra Pradesh Ophthalmological Society, Rajahmundry, October 2014; Category: Best Paper; Title: A new clinical sign in parafoveal telangectasia.
- Scientific Committee, Andhra Pradesh Ophthalmological Society, October 2014.

#### Tapas Ranjan Padhi

- Received, Pfizer Fellowship from the Association of Research in Vision and Ophthalmology (ARVO).

#### Gullapalli N Rao

- Dr G Venkataswamy Endowment Award, Dr G Venkataswamy Eye Research Institute, Aravind Eye Care System, Madurai, 1 October 2014.
- Member, Andhra Pradesh State Chief Minister's Medical Advisory Committee, 2014-2015.

#### Raja Narayanan

- Elected, Joint Secretary, Vitreo-retinal Society of India, December 2014.

#### Padmaja Kumari Rani

- Member, Expert Group: Capacity building of ophthalmologists for management of diabetic retinopathy, Queen Elizabeth Diamond Jubilee Trust (QEDJT), January 2015.
- Editorial Member, Telangana Ophthalmology Society Journal, January 2015.

#### Suryasnata Rath

- Best Free Paper Award, APSOPRS, New Delhi, September 2014; Title: Modified transconjunctival dacryocystorhinostomy.

#### Sonika Rathi

- Young Scientist Award, Indian Society of Human Genetics and International Symposium on Genomics 2015, National Institute of Immunohematology, Mumbai, 28-30 January 2015; Category: Health and diseases.

#### Virender Sachdeva

- V Raghavachar Award, 38<sup>th</sup> Annual Conference, Andhra Pradesh Ophthalmological Society, Rajahmundry, October 2014; Category: Best Paper; Title: Treatment of Non arteritic Ischaemic Optic Neuropathy (NAION) - Intra-vitreous Avastin Vs oral corticosteroids.

- Swarup's Best Video Award, 38<sup>th</sup> Annual Conference, Andhra Pradesh Ophthalmological Society, Rajahmundry, October 2014; Title: Re-operations in horizontal strabismus: make the second chance count.
- Editorial Board, APOS News and View Journal of AP Ophthalmological Society, January 2015.

#### G Chandra Sekhar

- Delivered Dr C S Grover Oration, 11<sup>th</sup> Annual UKOS Conference, UTTARA-EYECON 2014, Mussoorie, 4-5 October 2014; Title: Understanding and improving clinical acumen.

#### Premnandhini Satgunam

- Proposal shortlisted for the final round of the CAMTech India Innovation Award; Title: "Pediatric Perimeter"

#### Savitri Sharma

- Dr K Rajyalakshmi Memorial Oration Award, 18th Annual Conference, Indian Association of Medical Microbiologists, AP Chapter, Khammam, Telangana, 7-8 February 2015; Title: The rigour and relevance of research in eye infections: An account of 28 years.

#### S Shivaji

- Carl Woese Memorial Award, Association of Microbiologists of India, September 2014; Category: Excellence in Microbiology.

#### Sachin Shukla

- DST - INSPIRE Faculty Award - 2014, Department of Science and Technology (DST), Govt. of India.
- Amjad Rahi Prize, Indian Eye Research Group ARVO - India Chapter - 21<sup>st</sup> Annual Meeting, 26-27 July 2014; Category: Best Poster Presentation; Title: Analysis of trans differentiation potential of human dental pulp stem cells: Clinical implications for bilateral limbal stem cell deficiency

#### Pravin K Vaddavalli

- Founder Member, Executive Committee, Cornea Society of India.
- Chairperson, Scientific Committee, Telangana Ophthalmological Society.

#### Shyam Sunder Tummanapalli

- Winner, All India CooperVision Quiz (South zone), September 2014.

# Breaking New Grounds

## New Vision Centres - Primary Eye Care Spread

### Srikakulam District, AP

- 104<sup>th</sup> Vision Centre at Kotturu: 25 April
- 105<sup>th</sup> Vision Centre at Hiramandalam: 25 April
- 106<sup>th</sup> Vision Centre at Narasannapeta: 25 April
- 107<sup>th</sup> Vision Centre at Ponduru: 26 April
- 108<sup>th</sup> Vision Centre at Ranasthalam: 26 April

### Cuttack, Odisha

- 109<sup>th</sup> Vision Centre at Banra: 26 May

### Guntur, AP

- 110<sup>th</sup> Vision Centre at Narasayapalem: 28 December

### West Godavari, AP

- 111<sup>th</sup> Vision Centre at Unguturu: 30 January

### Vizianagram, AP

- 112<sup>th</sup> Vision Centre at Lakkidam: 25 February
- 113<sup>th</sup> Vision Centre at Bhogapuram: 25 February
- 114<sup>th</sup> Vision Centre at Lakkavarapukota: 26 February

### Visakhapatnam, AP

- 115<sup>th</sup> Vision Centre at Lodagalavanipalem: 22 March

### Nellore, AP

- 116<sup>th</sup> Vision Centre at Podalukuru: 29 March

## New Secondary Centres

- Ground breaking ceremony of the secondary centre at Rayagada, Odisha was performed: 12 July
- The 12<sup>th</sup> Secondary Centre was inaugurated at Dhulipalla village, AP: 12 January
- The 13<sup>th</sup> Secondary Centre was inaugurated at Rajganpur, Odisha: 27 February

## New Computer Training Centre

Computer Training Centre for the Visually Challenged was inaugurated at LVPEI Visakhapatnam: 4 September





# Network News

## Highlights - The Year That Was

- His Excellency Dr APJ Abdul Kalam, former President of India, launched the Children's Eye Health Initiative and the LASIK services at the Kode Venkatadri Chowdary (KVC) Campus on 15 March 2015. He dedicated the KVC Campus to the people of Vijayawada.
- LVPEI created history by performing 20,000 corneal transplant, the largest done by a single centre in the world. Governor of Telangana and Andhra Pradesh, Sri ESL Narasimhan lauded the institute's effort during a felicitation ceremony organized on 14 January 2015.
- As part of our initiative "Eye Care for the Elderly", a Geriatric Eye Care Centre, will soon start at our GMR Varlakshmi Campus in Visakhapatnam. The centre is supported by Aurobindo Pharmaceuticals.
- Indian Oil Corporation Limited (IOCL) signed an MoU with LVPEI Bhubaneswar on 16 March 2015 for developing a Centre for Rural Eye Health in the campus.
- An initiative for Community Based Rehabilitation (CBR) in the urban slums of Ranga Reddy and Hyderabad districts, supported by Tech Mahindra Foundation, was launched on 7 June 2014.
- LVPEI signed an MoU with Operation Eyesight Universal, Canada on 12 February 2015 to establish the "Operation Eyesight Institute for Eye Cancer".
- LVPEI signed an MoU with Special Olympics Bharat in February 2015 for quality vision care of aspirants to the Special Olympics Lions Club International Opening Eyes program.
- The Eight Annual Champalimaud Research Symposium was held on 1 February 2015, where Prof Shigeru Kinoshita of Kyoto University delivered the Champalimaud lecture on "Cutting Edge in Corneal Regenerative Medicine".
- On 8 August 2014, LVPEI performed India's first inflatable orbital implant surgery on a one year old child with only one eye.
- Eye Pep – the Post Graduate Education Program, held from 23-28 November 2014, was attended by 200 students from across the country.
- Professor Brien Holden Eye Research Centre (BHERC) hosted an event "Eye Opener" to educate the students on the various scientific research activities taking place in LVPEI on 1 November 2014.
- The world Glaucoma Week (WGW) was observed across the LVPEI network from 8-4 March 2015 with a series of activities focusing on early detection and prevention of glaucoma through family screening.



# Endowment Lectures

## Prof C Syamala Bhaskaran Endowment Lecture

Dr Michael T Trese, MD, Beaumont School of Medicine and Wayne State University School of Medicine, Michigan, delivered the Prof C Syamala Bhaskaran Endowment Lecture on 'Blinding diseases in premature newborns: Management of ROP in the 21<sup>st</sup> century' on 5 November 2014 at the Kallam Anji Reddy Campus, Hyderabad.



Dr Gangadhara Sundar, Head and Senior Consultant, Orbit and Oculofacial Surgery, National University Health System, Singapore delivered the Prof C Syamala Bhaskaran Endowment Lecture on 'Orbital Trauma and Reconstruction' at LVPEI Bhubaneswar campus on 3 July 2014.



## Nawab Arastu Yar Jung Bahadur Memorial Lecture

Prof Adrian Glasser, PhD, Benedict-Pitts Professor, Optometry and Vision Sciences and Biomedical Engineering, University of Houston, delivered the Nawab Arastu Yar Jung Bahadur Memorial Lecture on 4 February 2015 on 'How the young eye can focus at near and why this fails as we get older'.



## Bijayananda Patnaik Memorial Lecture

Prof Sharat Chandra, Director, Centre for Human Genetics, Bangalore and Emeritus Professor Indian Institute of Science, Bangalore delivered the Fifth Bijayananda Patnaik Memorial Lecture on 'Genes and Genome' on 16 January 2015 - the Foundation Day of LVPEI Bhubaneswar. He spoke about the socio-legal and scientific implications of developments in genetic engineering. Present on the occasion were Dr Kalsi Patnaik, wife of Dr Bijayanada Patnaik and their family members.



## Dr Rustam D Ranji Award and Lecture



The Dr Rustam D Ranji Rotary Award and Lecture on 23 September 2014 at the Patodia Auditorium had Dr Ramachandra Pararajasegaram, former President of International Agency for Prevention of Blindness (IAPB) and currently affiliate of IAPB, speak on "Perspectives of Eye Health in India: Past, Present and Future."

The lecture was sponsored by the Rotary Club of Central Railways, Indian Airlines and KEM Hospital, Mumbai. The lecture is held annually in memory of the late Dr Rustam D Ranji, one of Hyderabad's leading practitioners, Honorary Ophthalmologist to the former Nizam, and consultant to the State and Central Railways, Indian Airlines and KEM Hospital, Mumbai.





## Kallam Anji Reddy Campus

To borrow the words of our beloved Chairman, an Institute is one that practices, generates and disseminates new knowledge. The team at Kallam Anji Reddy Campus can proudly say that we are an Institute that follows this philosophy to the core. Our team led by Dr Virender S Sangwan and Dr Sayan Basu have pioneered a path breaking stem cell therapy called Simple Limbal Epithelial Transplant (SLET), that is now being practiced all over the world. We have conducted better advanced and specialized training programs for SLET, treatment of Retinopathy of Prematurity (a blinding problem in premature infants) and a relatively new and less invasive corneal transplant called DSEK that results in better recovery compared to the traditional penetrating keratoplasty. Another major landmark that we crossed this year was the completion of 20,000 cornea transplants surgeries, the highest ever performed by a single centre.

We are proud of the accolades our team of doctors has bagged in the last year. The list is impressive with a number of international recognitions, editorial board positions in reputed journals, administrative positions in scientific associations etc. All this proves that our team of doctors is not only involved in patient care, but is equally active in research and education.

Patient care is of utmost importance and we leave no stone unturned to ensure that we do the best we can in this area. Towards the end of this year, we will be moving to our new enhanced infrastructure with improved systems, ever increasing focus on quality and with a strong commitment to our values of Patient First, Excellence, Equity and Integrity.

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

## MoU with Special Olympics Bharat



LVPEI signed an MoU with Special Olympics Bharat for quality vision care of aspirants to the Special Olympics Lions Club International Opening Eyes program.

## Operation Eyesight Institute for Eye Cancer



LVPEI signed an MoU with Operation Eyesight Universal, Canada on 12 February 2015 to establish the 'Operation Eyesight Institute for Eye Cancer'.

## Eminent Visitors



Mr Deepak Obhrai, Canadian Parliamentary Secretary to the Minister for Foreign Affairs and International Human Rights, along with Mr Stanley Gomes, Consul and Senior Trade Commissioner - South India and a couple of Canadian business representatives, visited LVPEI on 16 October 2014.

## Disruptive Stem Cell Treatment



Collaborative research by Dr Sayan Basu working with Prof James L Funderburgh at the University of Pittsburgh School of Medicine, USA, has resulted in the discovery of potent limbal stem cells in the eye that can restore lost sight. Corneal scarring following infection or injury to the eye affects more than 250 million people worldwide and blinds over 6 million of them. Dr Basu found that when the stem cells were applied to damaged corneas, they healed and became clear again within four weeks of treatment. This can potentially decrease the need for corneal transplants. Since the stem cells used were from the same person's eyes there would be no need for donors or fear of rejection and failure. The disruptive new treatment is now in clinical trials at LVPEI.

## First of Its Kind Surgery in India



LVPEI performed India's first inflatable orbital implant surgery on a one year old child, born with only one eye. With this, the institute can now offer solutions to thousands of children suffering from Congenital Anophthalmia across the country. Congenital Anophthalmia, is a case where the eyeball is absent since birth and gives rise to gross under-development of facial bones around the eye and also leads to a significant cosmetic deformity in adult life. Designed by the doctors in Bascom Palmer Eye Institute, Miami, this special implant (IOTE) is fixed to one of the bony walls with special plate and screws. The 'ball' component stays in the natural position of the absent eyeball and can be gradually inflated with saline injections at regular intervals, similar to inflating a balloon. Dr Tarjani Dave, Consultant, Socket Services and Ocularistry, Department of Ophthalmic Plastic Surgery, LVPEI performed this surgery on 8 August 2014.



## LVPEI Creates History



Governor of Telangana and Andhra Pradesh, Sri ESL Narasimhan lauded the efforts of the LVPEI team for performing 20,000 corneal transplants and creating history on 14 January 2015.

## 28<sup>th</sup> Foundation Day



Commander Abhilash Tomy, who has been awarded the Kirti Chakra (second highest peacetime gallantry award in India) and the Tenzing Norgay National Adventure Award, delivered a motivational talk on the occasion of LVPEI's 28<sup>th</sup> Foundation day, 17 October 2014. He shared his experiences about his adventurous feat in being the first Indian and second Asian to complete a solo circumnavigation under sail in 151 days, as a part of the Indian Navy's Sagar Parikrama project.

## First Ever 3D Oculoplasty Show



The Ophthalmic Plastic Surgery service at LVPEI conducted the first ever 3D Oculoplasty Show at the annual conference of the All India Ophthalmological Society (AIOS) on 5 Feb 2015 in New Delhi. Ophthalmologists had the pleasure to view eye-plastic surgeries in 3D, using active 3D glasses. The show was well accepted and LVPEI plans to replicate this show in several conferences across the country to enhance the learning of eye doctors.

## Vision Lifeline Project Goes Live

Vision Lifeline Project for more efficient and effective systems and processes was declared ready for use on 21 February 2015 with the "going live" of the Integrated Service Platform in SAP developed for LVPEI by Cyient.

## Eye Movement Recording System Installed

Eye Movement Recording System was installed at the Jasti V Ramanamma Children's Eye Care Centre with funding support from Cognizant Foundation. The equipment will help record the pattern of different types of eye movement abnormalities among children and adults, specifically in patients with Nystagmus - a condition that causes involuntary and rapid movement of one or both eyes.

## ReDx: Engineering the Eye Workshop



The second edition of the “Engineering the Eye” workshop, **Rethinking Engineering Design eXecution (REDx)**, was hosted in collaboration with Tata Centre for Technology and Design and MIT Media Lab on 13 July 2014 at Cyient Campus in Hyderabad. Professor Raghunath Mashelkar, an eminent scientist and Chairman, National Innovation Foundation - India, inaugurated the workshop.

## Knowledge Exchange with Philippines Academy of Ophthalmology

To learn from the experiences and findings of LVPEI’s Indian Twin Cities Retinopathy of Prematurity (ITCROP) model, Dr Subhadra Jalali was invited as a WHO sponsored expert by the Government of Philippines as part of their ROP blindness control program. Detailed discussions were held during the two days workshop 8-9 May 2014. LVPEI’s Day-30 screening strategy for ROP was highly appreciated by all present there.

## Spreading Awareness about Retinoblastoma



Retinoblastoma Awareness Week was observed from 11-18 May 2014, to create awareness about retinoblastoma, affecting children between 0-5 years. As 80% of these cases are first recognized by the family and only 20% through checkups, it is critical for the family to be aware of the symptoms of this disease for timely treatment. The

event was marked by a series of awareness workshops and educational seminars focusing on educating health care workers, teachers and volunteers on early detection and treatment for retinoblastoma. The aim was to prepare them as catalyst for disseminating awareness in the community.

## Mobile Apps for Climate Change

“Mobile Apps for Climate Change” was launched on 9 December 2014 by World Wide Fund for Nature-India (WWF) and Ladybird Environmental Consulting (LEC) in association with LVPEI. The program was a Citizen Science Programme for Schools in metros and involved development of three mobile apps for school children on urban birds, butterflies and trees.





## Glaucoma Awareness Walk



On the occasion of Glaucoma Awareness Week, a Glaucoma Awareness Walk was organized in Hyderabad on 8 March 2015 from Prasad Labs to Jubilee Hills Check Post and back: Participants included members of the Hyderabad Ophthalmic Association; Ramesh Prasad from Prasad Film Laboratories; Tollywood actors Easha Chawla and Naginedu; director Kanneganti Mohan Krishna; actor-director A Srinivas and Naga Susheela. A Patient Education Forum was also organized and it received participation from over 100 participants eager to learn more about the disease and interact with the experts.

## Good for Health, Good for Mind



Clients from the rehabilitation program and their parents enthusiastically learnt the different forms of yoga in the one-day workshop organized on 18 October 2014 and expressed their desire to attend many more such workshops.

## Fun Camp



The Dr PRK Prasad Centre for Rehabilitation of the Blind and Visually Impaired held its 17<sup>th</sup> Annual Integrated Fun Camp on 13 December 2014. Over 288 participants including the visually impaired and their family enjoyed the fun camp.

## Parents of Visually Impaired Children Educated on Sexual Abuse

As part of the rehabilitation department's ongoing monthly forum for parents, an interaction on "Tackling issues on sexual abuse and the legal processes involved", was organized on 9 August 2014. The parents' forum has been developed to empower and educate parents of visually impaired children.



## An Ode to Duty



On the occasion of International Nurses' Day on 12 May 2014, our nurses took an oath to continue being faithful to their profession. The day was celebrated with lot of enthusiasm and fun.

## Second Blood Donation Camp



On the occasion of World Blood Donor's Day, a blood donation camp organized across LVPEI's Hyderabad, Vijayawada and Visakhapatnam campuses on 14 June 2014, received participation from a total of 377 donors. Following an agreement with the NTR Memorial Trust to benefit LVPEI patients, this was the second blood donation camp. CEO Dr Kondiah and Advisor Mr BV Chowdhary of the Trust visited the

Hyderabad campus to acknowledge the initiative; Mr O Naresh Kumar, CEO of Symbiosis Technologies was the chief guest at Visakhapatnam.



## Bhubaneswar Campus

We made a giant leap this year by extending our community eye care services beyond the tertiary centre in Bhubaneswar. Our first secondary centre at Rajgangpur was inaugurated in February by His Excellency Dr APJ Abdul Kalam, former President of India. Our very first vision centre in Odisha was inaugurated at Banra village in May 2014.

A total of 113,008 people visited the Institute and 11,659 surgeries were performed. Of these, 23% outpatients and 38% surgeries performed were free of cost. To help us keep pace with our expanding clinical services, Avik Roy has joined us as Ophthalmology faculty for our Glaucoma Service.

Continuing with our tradition of “Visiting Faculty Program”, Dr Gangadhara Sundar of National University Hospital System, Singapore visited our campus in July 2014. He delivered the C S Bhaskaran Lecture on “Emerging paradigms in orbital trauma and reconstruction”. The main attraction of the program was the “Cadaveric Hands-On Workshop”. This was the first of its kind workshop that focused on enhancing the surgical skills of practicing ophthalmologists in the eastern region. The 5<sup>th</sup> Bijayananda Pattanaik Memorial Lecture on “Genes, Genomes and Bioethics” was delivered by Prof Sharat Chandra, Director, Centre for Human Genetics, Bangalore and Emeritus Professor Indian Institute of Science, Bangalore.

I am happy to share some significant achievements of my team mates this year. Tapas Ranjan Padhi, Cornea Specialist, received the Pfizer Fellowship from the Association of Research in Vision and Ophthalmology (ARVO). Suryasnata Rath bagged the Best Free Paper Award at Asia Pacific Society of Ophthalmic Plastic and Reconstructive Surgery (APSOPRS), New Delhi. Soumyava Basu, a passionate clinician-researcher completed his one-year International Fellowship from the University of Kentucky. Mamatha Reddy, our basic research scientist received a Fast Track Grant from the Department of Biotechnology (DBT). Suryasnata Rath also received a grant from DBT. Aparna Rao has been empanelled in the Editorial Board of BMC Ophthalmology. We had a total of 42 research publications.

With our fantastic team and their dedicated efforts, I am confident that this year too we will scale new heights in patient care, training and research.

Sujata Das  
Director,  
Bhubaneswar Campus



## Centre for Rural Eye Health



Indian Oil Corporation Limited (IOCL) signed an MoU with LVPEI Bhubaneswar, for developing a Centre for Rural Eye Health in the campus on 16 March 2015. The IOCL-LVPEI Centre will coordinate with the upcoming secondary and primary eye care centres in Odisha. It will also act as a catalyst in analyzing and coming up with viable solutions for rural eye related issues. The MoU was signed between, Mr K K Sharma, OSO for Odisha, IOCL and Dr Taraprasad Das, Vice-Chair, LVPEI.

## Oculoplastic Cadaveric Workshop

Over 22 Eye Care professionals including practicing ophthalmologists and residents participated in the “Hands-On” oculoplastic cadaveric workshop to improve their surgical skills. This was the very first workshop in the eastern region, where highly experienced practitioners from LVPEI and other institutes shared their expertise with the participants. A didactic session on orbital imaging comprising CT and MRI scan interpretations was also part of the one-day workshop held on 5 July 2014. Dr Gangadhara Sundar of the National University Hospital System, Singapore, was the visiting faculty.



## Showcasing Assistive Devices

Soumya Panda and Sumita Lima from the NTPC Centre for Sight Enhancement and Rehabilitation for the Visually Challenged at LVPEI Bhubaneswar participated at the 10<sup>th</sup> Annual Program of All Odisha Students Union for the Visually Impaired held at Utkal University, Bhubaneswar on 23 January 2015. They were highly appreciated for the assistive devices that they showcased.

## A First of Its Kind Surgery in East India

LVPEI Bhubaneswar has become the first institute in Eastern India to perform a Visco canalostomy surgery. This is a good alternative to the standard procedure for glaucoma called Trabeculectomy, especially for children and young patients who have a higher risk of complications like hypotony or low intraocular pressure. The surgery was performed on four patients during February to March 2015.



## Symposium on Thyroid Eye Disease

A symposium to facilitate interaction on thyroid eye disease between care-givers i.e. endocrinologists and ophthalmologists was organized. The seminar was attended by 9 practicing endocrinologists from the city. The workshop concluded with a common consent to have a collaborative care model in place for patients with thyroid eye diseases.



## Bhubaneswar Campus Celebrates Anniversary

The Bhubaneswar Campus celebrated its 8<sup>th</sup> anniversary on 3 July 2014. Dr Gangadhara Sundar, Head and Senior Consultant, Orbit and Oculofacial Surgery, National University Health System, Singapore, delivered the Prof C Syamala Bhaskaran Endowment Lecture on 'Orbital Trauma and Reconstruction' which was relayed across the LVPEI network.

## 5<sup>th</sup> Bijayananda Patnaik Lecture

The Fifth Bijayananda Patnaik Memorial Lecture on 'Genes and Genome' was delivered by Prof Sharat Chandra, Director, Centre for Human Genetics, Bangalore and Emeritus Professor Indian Institute of Science, Bangalore on 16 January 2015 - the Foundation Day of LVPEI Bhubaneswar. He spoke about the socio-legal and scientific implications of developments in genetic engineering. Present on the occasion were Dr Kalsi Patnaik, wife of Dr Bijayanada Patnaik and their family members.



## Patient Education Forum

Interactive patient sessions and quiz for patients and their family members were organized in March 2015. Dignitaries, Dr Bijayanand Kar and Dr S Jali of Utkal University attended the event.

## Creating Public Awareness on Eye Donation



A series of public awareness activities like, school painting competitions for children, eye donation pledge drives in corporate offices and street plays were organized by Drushti daan eye bank at LVPEI Bhubaneswar as part of the 29<sup>th</sup> National Eye Donation Fortnight, 25 August-8 September 2014. A panel discussion on "Synergy among eye banks in Odisha" was held on 7 September 2014.

## Children's Day



As part of the Children's Day celebrations on 14 November 2014, parents were sensitized on childhood blindness and its preventions. In addition to this, cultural activities and painting competitions were also organized. 30 children from an orphanage also joined us in this celebration.



## Glaucoma Awareness Week

On 8 March 2015 as part of Glaucoma Awareness Week, along with a Glaucoma Awareness Walk a street play was also performed by our team to educate the public on the causes and prevention of glaucoma.







## GMR Varalakshmi Campus

The year that went by was rewarding but equally challenging. We achieved newer heights but at the same time we had to face the adverse effects of the Hudhud Cyclone that hit Visakhapatnam on October 12 last year. The cyclone caused a great extent of damage to our lush green campus. Standing true to our core values - Togetherness and Patient First, despite our personal losses, we as a team toiled day in and day out to restore normalcy in the campus and ensure that we continue to serve our patients. The Australian consulate general also supported us in this mission and came forward by providing free spectacles to those in need. What is also commendable and appreciable is the support that was extended to us from across the LVPEI campuses, once again reinforcing our faith that LVPEI is "ONE" big family.

On the patient care front, 92,111 patients were examined and 10,689 surgeries were performed. Going beyond eye care in extending our services to our communities, the blood donation drive at the campus also turned out to be a great success. All this wouldn't have been possible without the dedicated efforts of all our team members. I also take this opportunity to welcome on board two new faculty members - Dr Abhishek C Bawdekar, Uveitis and Ocular Immunology specialist and Dr Rashmi Shukla, Cornea specialist.

'Looking Beyond the Eye - III' is a seminar unique to this campus. This seminar acts as a conducive platform for the exchange of knowledge among various specialties in Visakhapatnam. The third annual meet of this seminar this year was even more significant as it coincided with our 8<sup>th</sup> Anniversary celebrations and received participation from around 100 delegates.

Adding one more feather to our cap, with the support from Microsoft India Development Centre, we initiated a computer training centre for the visually impaired in our campus. The training centre welcomes, visually impaired youth who want to enhance their computer skills for gainful employment.

For the next 25 years, LVPEI plans to focus on Geriatric Eye Care. I am excited to share with you all that in the coming year we would be the first in the world to set up a Geriatric Eye Centre, named Aurobindo Geriatric Eye Care (AGE) at the GMRV campus, with the generous support of Aurobindo Pharmaceuticals.

With renewed energy and enthusiasm, we as a team are all set to embrace the challenges and achieve many more milestones this year.



Dr Avinash Pathengay  
Acting Director



## Geriatric Eye Care Centre



Soon the campus will have a Geriatric Eye Care Centre. Aurobindo Pharmaceuticals has donated Rs 1.5 crore for this centre. Sri N Chandrababu Naidu, the Andhra Pradesh Chief Minister handed over the cheque to Dr Gullapalli N Rao, Founder-Chair, LVPEI on 23 February 2015. The centre will be called Aurobindo Geriatric Eye Care (AGE).

## Computer Training Centre for the Visually Challenged



As an initiative to enhance the employability skills of the visually impaired youth, a computer training centre was inaugurated on 4 September 2014. The centre aims to train a total of 128 youth in the coming year. Supported by Microsoft India Development Center (MSIDC) - Employee Giving Campaign, the centre is equipped with the latest screen reading softwares such as JAWS, MAGic and Windows Eyes. In addition to basic computer knowledge and Tally, soft skills are also imparted.

## Eye Care for Hudhud Victims

In a unique initiative, the Australian Consulate General in Chennai provided replacement glasses to those in need and LVPEI facilitated free vision screening at the GMRV campus for the disadvantaged communities hit by Cyclone Hudhud on 12 October 2014. The initiative was implemented by India Vision Institute (IVI).



## Rare Procedure, First in AP

Keratoprosthesis, a rare surgery to replace the damaged cornea with an artificial device, was performed free of cost for a 35 year old man who had lost his vision in both eyes on 16 August 2014. This was the first such surgery in Andhra Pradesh and the third in the country after Chennai and Hyderabad.

## GMRV Campus Celebrates its 8<sup>th</sup> Anniversary



The celebration was marked by performances from staff members, patients from the rehabilitation department and children from the Netra Vidyalaya, Jeeyar Education Trust in Bheemili, 7 July 2014.

## Eminent Visitors

Hon'ble Union Minister for Civil Aviation, Sri Ashok Gajapathi Raju, visited the campus on 21 March 2015. The staff showed him around the hospital and the services being provided to patients.



Hon'ble Health Minister of Andhra Pradesh, Sri Kamineni Srinivas, visited the campus along with local MLAs, District Collector and some Government officials on 4<sup>th</sup> August 2014.



## Eye Screening at Residential Apartment

Free eye screening and diabetes awareness program was organized for the residents of New Life Apartment at Sheelanagar in Visakhapatnam, in collaboration with OMNI RK Super Speciality Hospital on 21 September 2014.



## Educative Workshop for Students from Andhra University

A workshop was organized to educate the students from the special education department of Andhra University, on our low vision and rehabilitation services on 20 December 2014. It received participation from nearly 26 students.



## March 8, Glaucoma Awareness Walk



DSN Raju, Vice Chancellor, Andhra University flagged off the awareness walk. Ramrajendra Kapratwar, Director and Ajay Prakash Dhanak, HR Head from Dr Reddy's Laboratories Ltd also supported the walk.

## World Diabetes Awareness Week



**Awareness Walk:** Uppalapati Raja, Titan Business Associate and Krishnam Raju, LVPEI's supporters flagged the Awareness Walk on 9 November 2014.

**Community Screening:** A screening program was conducted on 11 November 2014 for women from a self help group - DWACRA and 115 people were screened. At another screening program on 19 November at Kancharapalem, 161 people were screened.

**Awareness Talk:** Awareness talk focusing on the various lifestyle diseases and the importance of healthy eating was organized in the campus on 14 November 2014. On the same day, an educational talk focusing on "The Eye and Eye Ailments" was organized at Ameya International School.



## World Clinical Trials Day

To acknowledge the importance of clinical research, Excel Life Sciences Pvt Ltd and LVPEI Visakhapatnam organized an Awareness Walk on the World Clinical Trials Day, 18 May 2014.



## Celebrating Nurses' Day



GMRV Campus celebrated the Nurses' day on 12 May 2014. It is the anniversary of the birth of Florence Nightingale, who is widely considered the founder of modern nursing.

## Blood Donation Drive



On the occasion of World Blood Donor' day, a blood donation camp was organized at the GMRV Campus on 14 June 2014.

## Integrated Fun Camp



A Fun Camp was organized on 21 December 2014 at Kailasagiri Park, Visakhapatnam. Over 30 visually impaired children, their family members, staff and volunteers participated.



## Kode Venkatadri Chowdary Campus

Looking back, I feel that 2014-2015 was a pivotal year for the KVC Campus. The year ended on a high note with many milestones to celebrate and cherish!

On the Patient Care front, we achieved three important milestones. The first milestone is the significant increase in the number of outpatients seen (30% growth) and the surgeries performed (40% growth) compared to last year. This increase in volume is a testimony to the incredible team work at KVC campus.

Taking into consideration the increasing demand for LASIK services in the city, we established the Refractive Surgery Centre at our campus and within the first few months of its inception, the team performed over 100 procedures.

The third milestone that sets us apart is the number of corneal transplants performed at our campus: +500. We are the first to achieve this number in the five districts surrounding Vijayawada.

'Children's Eye Care Week' is a flagship event of KVC Campus. 2000 children from across 50 schools in the city participated in the drawing competition which recorded the highest participation in the last 4 years. Street plays, awareness talks and support meets were also organized during the week.

In the area of education, KVC Campus witnessed a phase change with the commencement of formal training of fellows for cataract surgery. We also tried a novel concept of conducting training in the neighbouring medical colleges to improve the quality of our ophthalmology residency program.

With the inauguration of our vision centre at Unguturu and secondary centre at Sattenapally, we have now 11 vision centres and 7 secondary Centres connected to the KVC Campus. We welcomed one new faculty member, Dr Prakrati Gupta, Glaucoma specialist from Madhya Pradesh.

It was our honour to have his Excellency Dr APJ Abdul Kalam, former President of India at our campus in March 2015. He dedicated the Kode Venkatadri Chowdary Campus in Vijayawada to the people of Andhra Pradesh.

We are confident that in the coming year, we will raise the bar a notch higher and continue our dedicated efforts towards our vision "so that all may see".

Dr Avinash Pathengay  
Acting Director



## Dr Kalam Dedicates Vijayawada Campus to Andhra Pradesh

His Excellency Dr APJ Abdul Kalam, former President of India, dedicated the Kode Venkatadri Chowdary Campus in Vijayawada to the people of Andhra Pradesh on 15 March 2015. He launched the Children's Eye Health Initiative, the LASIK services and lauded the team for achieving 500 corneal transplants, besides being awarded the cleanest campus in the LVPEI network. Present on the occasion were several dignitaries including the Commissioner of Police, the Mayor of Vijayawada and other officials.



## Eye On the Future 2014 - CME on Pediatric Ophthalmology

A CME to further enhance the understanding of the participants on the subject of squint and pediatric cataract was organized on 28 December 2014. More than 200 ophthalmologists, post graduates, optometrists and vision technicians from in and around Vijayawada and across the LVPEI network, benefited from this program.



## A CME on ROP Screening for Pediatricians

The role of pediatricians in the timely referral of premature babies to ophthalmologists for Retinopathy of Prematurity (ROP) screening is crucial. Keeping that in mind, a CME on ROP for pediatricians was organized on 30 May 2014. It received active participation from 25 pediatricians. Dr Subhadra Jalali, pediatric retina surgeon from LVPEI, Hyderabad along with in-house faculty (Dr Sameera Nayak, Dr Vishal Raval and Dr Niranjan Pehere) participated in the program.

## Workshop on Learning Disabilities in Children



A workshop on learning disabilities in children, organized at the KVC campus, was web streamed live across the tertiary centres in the LVPEI network. Over 80 participants including pediatricians, teachers, school officials and parents attended this one-day workshop organized on 26 August 2014. Dr Vishal Indla, Chief Psychiatrist, Vijayawada Institute of Mental Health and Neurosciences, and Farida Raj, Director, Centre for Special Education, facilitated the workshop.



### Vijayawada Campus Celebrates 4<sup>th</sup> Anniversary

The KVC Campus celebrated its 4<sup>th</sup> anniversary on 16 February 2015. The celebrations were marked by cultural and sport activities. Prizes for the winners and best employee certificates were also distributed to acknowledge and applaud the efforts of the KVC team.



### David Brown Children Eye Care Centre Completes 4 years

The David Brown Children Eye Care Centre (DBCEC) celebrated its 4<sup>th</sup> Anniversary on 11 January 2015. Edward and Soona Brown along with their daughter and grand children were present for the celebrations. Mr Brown along with Dr Rao, released the Annual activity book of DBCEC for 2014.

### Children's Eye Care Week

As part of the 4<sup>th</sup> Children's Eye Care Week, a support meet for parents of children who had undergone cataract surgery, was organized at the KVC campus on 14 November 2014. To make the discussions more interesting, *Kaun Banega Crorepati* style of discussion was adopted, which was received well by the 70 participating parents. In addition to this there were also workshops for special educators focusing on inclusive education. A street play was organized to educate the community on the unhygienic practice of open air defecation. 2000 children from across 50 schools in the city participated in the drawing competition which recorded the highest participation in the last 4 years.



### Second Adaptive Fun Camp



The department of rehabilitation at KVC organized the "Second adaptive Fun Camp" at Bhavani Island on 28 Feb 2015.

# Patient Care Services

We at LVPEI believe that healing requires more than just excellent clinical care. It is incomplete without the diligent application of *Excellence, Equity* and *Efficiency* in all our endeavours without compromising on the quality of service. The first impression that patients visiting LVPEI get, is of an amicable environment where all their concerns are duly addressed and where treatment is explained to them in detail; irrespective of whether they can pay for the services or not.

This year we have seen over 526,167 outpatients and provided surgical care to 75,052 patients through our tertiary and Centre of Excellence (CoE) facilities in the urban areas of Telengana, Andhra Pradesh and Odisha. With the objective of providing services at their doorstep, care was extended to 370,878 patients through our Village Vision Complexes and surgical care was provided to 23,338 patients. 195,737 people were seen at the vision centres with 40,808 referred for further care to secondary level eye care within the LVPEI Eye Health Pyramid. Standing true to our mission of equity, the care provided to the patients in the remote rural pockets was free of charge and about 76% of surgeries were performed for free. In the urban areas, care extended to 27% of outpatients was free of charge and 41% of surgeries were performed free.

Our constant endeavour is to improve the quality of our services for the betterment of our patients. A very important group in the patient care team is that of the nurses and the ophthalmic nursing assistants who coordinate with the doctors and implement the nursing care plan. To enhance their skills, they regularly undergo refresher course in collaboration with the University of Rochester, USA.

This year, we celebrated the completion of 20,000 cornea transplant surgeries, the highest ever performed by a single center. Currently this center is performing 5-6 cornea transplants per day. A transplant surgery is scheduled for a patient within 3-4 days of their being diagnosed with a need for the surgery.

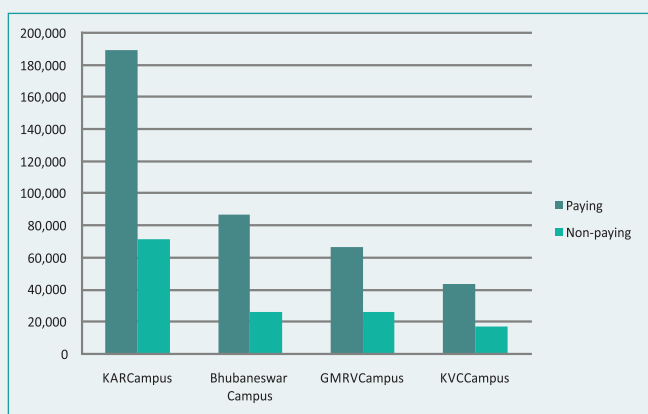
We are scaling up our clinical services in Hyderabad and this year we will enter into a new building, where we will be able to see about 1200-1500 patients and perform around 150 surgeries on a daily basis, a substantial 20% hike from our current capacity. The patient care team is all geared up for the expansion and is confident that we will be able to maintain the same standards of quality and excellence.



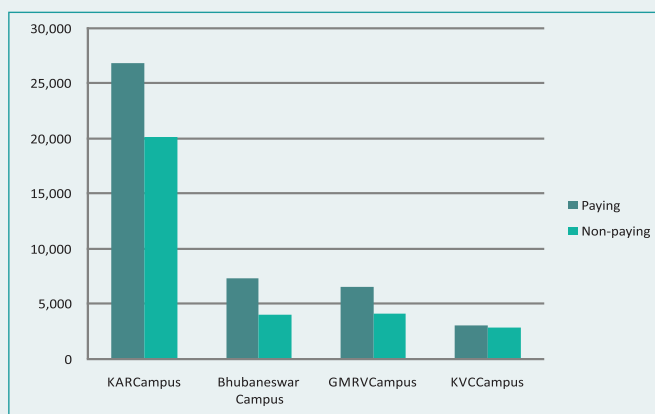
## Tertiary & Advanced Tertiary Care

Campus	Outpatient visits			Surgical procedures		
	Paying	Non-paying	Total	Paying	Non-paying	Total
Kallam Anji Reddy Campus, Hyderabad	189,432	71,115	260,547	26,927	20,160	47,087
Bhubaneswar Campus, Bhubaneswar	86,914	26,094	113,008	7,339	4,024	11,363
GMR Varalakshmi Campus, Visakhapatnam	66,317	25,794	92,111	6,562	4,127	10,689
Kode Venkatadri Chowdary Campus, Vijayawada	43,631	16,870	60,501	3,047	2,866	5,913
<b>Total</b>	<b>386,294</b>	<b>139,873</b>	<b>526,167</b>	<b>43,875</b>	<b>31,177</b>	<b>75,052</b>

### Outpatient Visits



### Surgical Procedures



## Analysis of Surgical Procedures

Campus/Speciality	Cataract	Cornea & Anterior Segment	Corneal Transplants	Glaucoma	Retina & Vitreous	Squint	Ophthal Plastic Surgery	LASIK	Others	Total
Kallam Anji Reddy Campus, Hyderabad	12,894	5,246	1,558	1,466	11,516	1,349	4532	2,303	1594	42,528
Bhubaneswar Campus, Bhubaneswar	4,498	614	175	398	3,309	123	1688	122	436	11,363
GMR Varalakshmi Campus, Visakhapatnam	4,837	738	137	271	2,607	244	705	539	611	10,689
Kode Venkatadri Chowdary Campus, Vijayawada	1,524	226	112	487	2,603	145	238	141	437	5,913
<b>Total</b>	<b>23,753</b>	<b>6,824</b>	<b>1,982</b>	<b>2,622</b>	<b>20,035</b>	<b>1,861</b>	<b>7163</b>	<b>3,105</b>	<b>3078</b>	<b>70,493</b>

## Children's Eye Care

Campus	Outpatient visits			Surgical procedures		
	Paying	Non-paying	Total	Paying	Non-paying	Total
Kallam Anji Reddy Campus, Hyderabad	31,576	13,280	44,856	4,768	4,205	8,973
Bhubaneswar Campus, Bhubaneswar	11,618	4,324	15,942	824	841	1,665
GMR Varalakshmi Campus, Visakhapatnam	8,719	2,181	10,900	411	221	632
Kode Venkatadri Chowdary Campus, Vijayawada	6447	1473	7920	444	305	749
<b>Total</b>	<b>58,360</b>	<b>21,258</b>	<b>79,618</b>	<b>6,447</b>	<b>5,572</b>	<b>12,019</b>



## Retinopathy Of Prematurity (ROP) Program

ROP Program	Hyderabad	Bhubaneswar	Visakhapatnam	Vijayawada
Babies screened	5,245	504	4	243
ROP identified (Babies)	761	94	4	-
Laser sessions (Eyes)	104	58	-	36
Pediatric retina surgeries (<14 years)	2,346	185	63	-
ROP Surgeries (IV Avastin inj. for ROP, Retina surgeries)	907	7	-	2

## International Patients (paying)

### FU-Follow Up

S.NO	Country Name	New	FU	Tot	S.NO	Country Name	New	FU	Tot
1	AFGHANISTAN	9	13	22	30	NEPAL	14	22	36
2	AFRICA	4	20	24	31	NICARAGUA	-	-	-
3	ANGOLA	2	-	2	32	NIGER	1	-	1
4	AUSTRALIA	12	6	18	33	NIGERIA	14	64	78
5	BAHRAIN	6	6	12	34	OMAN	336	526	862
6	BANGLADESH	111	150	261	35	PAKISTAN	2	14	16
7	BHUTAN	1	3	4	36	QATAR	2	-	2
8	BOSTWANA	-	1	1	37	RWANDA	1	9	10
9	CANADA	4	1	5	38	SAUDI ARABIA	12	15	27
10	DUBAI	19	15	34	39	SINGAPORE	2	5	7
11	FRANCE	-	1	1	40	SOMALIA	39	52	91
12	GHANA	-	1	1	41	SOUTH AFRICA	2	2	4
13	HAITI	1	-	1	42	SRILANKA	3	1	4
14	ICELAND	2	5	7	43	SUDAN	10	19	29
15	INDONASIA	5	7	12	44	SWEDEN	1	1	2
16	IRAN	1	-	1	45	SYRIA	-	1	1
17	IRAQ	38	43	81	46	TADZHIKSTAN	2	4	6
18	ITALY	1	3	4	47	TAIWAN	1	-	1
19	KENYA	22	53	75	48	TANZANIA	6	7	13
20	LAO PDR	-	-	-	49	THAILAND	2	1	3
21	LIBERIA	-	3	3	50	U.A.E	25	38	63
22	MACAO	-	2	2	51	U.S.A.	25	27	52
23	MALAWI	4	15	19	52	UGANDA	7	12	19
24	MALAYSIA	-	5	5	53	UNITED KINGDOM	8	6	14
25	MALDIVES	4	9	13	54	UZBEKISTAN	4	12	16
26	MANGOLIA	1	-	1	55	YEMEN	136	163	299
27	MOZAMBIQUE	1	5	6	56	YEMEN ARAB REPUBLIC	-	2	2
28	MUSCAT	-	6	6	57	ZAMBIA	1	-	1
29	NAMIBIA	-	6	6		<b>TOTAL</b>	<b>904</b>	<b>1382</b>	<b>2286</b>
International Patients (Non-paying)									
1	BANGLADESH	3	7	10					
2	ICELAND	2	5	7					
3	LAO PDR	2	4	6					
4	NEPAL	1	6	7					
5	NICARAGUA	-	2	2					
6	QATAR	1	1	2					
	<b>TOTAL</b>	<b>9</b>	<b>25</b>	<b>34</b>					

# Patient Speak

Patient satisfaction – our biggest strength and motivation

*"I was suffering from blurred vision, my eyelids kept drooping and I had to lift them up time and again. One of my acquaintances referred me to LVPEI, Visakhapatnam. After conducting all the due tests, I was advised to undergo surgery. I was a little apprehensive in the beginning. But soon all my apprehensions were put to rest by Dr Samir Mahapatra who also performed my surgery. The care and respect that he extended towards me made me feel as if I was one of his family members. I would also like to thank all the staff members. As a token of appreciation from my end, I would like to donate for a needy patient the medical reimbursement of Rs 10,000 that I received."*

Addepalli Ramamohana Rao  
East Godavari, Andhra Pradesh  
27 January 2015

*"I will never be able to thank Dr R Kekunnaya and his team enough for giving my son Ngilek Taan Seng, the gift of eye sight. My son had a vision problem and a doctor in Guwahati had told me that it was incurable. I had heard about the excellent reputation of LVPEI and decided to consult the doctors there. I still remember how he patiently explained to me everything about my son's problem. Dr Kekunnaya, despite his busy schedule, always took time out to check on my son's recovery. We will always cherish the love and care we got from LVPEI."*

Aikya Thoumoung  
Guwahati, Assam  
5 January 2015

*"I had the opportunity to visit LVPEI when I consulted Dr Somasheila Murthy for my son's Keratoconus. We had heard about LVPEI's expertise, but being there was an inspirational experience. Being a doctor and part of commercialized/ capitalistic medicine, it was an eye opener to experience true and ethical medical practice at its best. On this World Sight Day, my wife and I would like to make a small contribution of Rs 10,000 towards Hyderabad Eye Hospital. Please accept the same."*

Dr Shashikant Y Kulgod MS, FRCS  
Belgaum, Karnataka  
9 October 2014

*"When I reached the hospital, my left eye was completely swollen, red in colour and was watering. I was full of anxiety and fear. Without wasting a single minute I was guided to the emergency room for a detailed examination. Dr Milind Naik assured me that with proper medication my eye would completely heal. Next day, I was presently surprised when I received a personal message from him to check on my condition. This small gesture from a busy and famous doctor like him, made me feel really special. It is a privilege for any institute to have such a dedicated workforce."*

K Lalitha  
Hyderabad, Telangana  
10 January 2015

*"I was to undergo a cataract surgery and was extremely nervous and afraid even though it was a small surgery. I had requested for General Anesthesia (GA) instead of Local Anesthesia (LA) due to a fear of not being able to bear the pain. I had multiple rounds of counseling with both, Dr Virender Sachdeva, the surgeon and Dr Ravindra, the anesthetist. During the time of surgery, Dr Sachdeva kept talking to me on various topics of interest and before I even realized it, the surgery was over."*

Ashok Gupta  
Hyderabad, Telangana  
1 September 2014

*"My wife had severe reddening in her right eye and we were completely panic stricken. We immediately started for LVPEI and after travelling a distance of 500 kilometers from Pulivendula (YSR district), we reached the hospital. The way the doctors and their entire team dealt with us made me confident that my wife was in safe hands. Probably it is due to institutions like LVPEI that 'dharma' is felt in 'kaliyuga' on this 'karma bhoomi' I wish LVPEI touches divine heights and is remembered forever."*

Dr K Murali Mohan  
Pulivendula, Andhra Pradesh  
30 August 2014

## So the Paper Flower Can Bloom



Little Um Lylas (Paper Flower), with support from the Sultanate of Oman, has been traveling every 3 weeks for over one and a half years now to LVPEI, Hyderabad to receive treatment for retinoblastoma, an eye cancer that can be fatal if left untreated. The only symptom noticed by her parents had been redness and excessive watering in both her eyes at 7 months of age. No one in the family had suffered from anything like this.

Um Lylas has undergone 12 cycles of chemotherapy (2 sessions, 6 cycles each) and is now receiving Transpupillary Thermotherapy or TTT laser. On her last visit to the hospital in December 2014, Dr Swathi Kaliki, Consultant and Eye Cancer Specialist, was happy to share that the retinoblastoma had regressed but they would still have to wait and watch for any improvement in the child's vision. Muna Kamees, her mother, is relieved that her daughter is finally on the road to recovery.

## Overcoming Familial Congenital Cataract

10 year old Anusuya and her siblings 7 year old Anita and 3 year old Sunita, hailing from Dhenkanal district in Odisha had no vision since birth. Even their father had vision problem. A local ophthalmologist advised their parents to consult the doctors at LVPEI Bhubaneswar.

The siblings and their parents were examined by the Pediatric Ophthalmologist, Dr Vivek Warkad. It was a case of familial congenital cataract. Unlike most cataracts, which occur with aging, congenital cataracts are present since birth. All the three children underwent very meticulous surgery, completely free of cost in their eyes over a period of 2 weeks. A month later, they were examined under general anesthesia and prescribed glasses. They have since been visiting regularly for routine postoperative checks and rehabilitation.

Thanks to timely detection and appropriate curative measurement, the sisters today have significantly improved vision. The elder ones have started going to school and the younger one is able to comfortably play at home.

The parents are very happy and thankful to LVPEI. Their father too has now undergone cataract surgery and recovered some vision.



## Bhagyamma is Thrilled to See Again



Nearly 25 years ago, Bhagyamma lost her vision due to severe body rash as a reaction to a penicillin injection that scarred the mucous membrane in her eyes. To restore her vision, Bhagyamma underwent Modified Osteo Odonto Keratoprosthesis (MOOKP), a surgery a visiting doctor from the USA performed at LVPEI.

In the first stage, Bhagyamma's tooth was harvested. The tooth and the adjoining bone were cut down and a hole was drilled through the center of her tooth root. An artificial cornea lens was fitted into the tooth and inserted under the skin of her cheekbone to allow normal tissue and blood vessels to develop around it.

Three weeks later, this device was surgically removed from under her cheek skin and fitted to the front of her left eye to permit light to filter through the retina or film layer at the back of her eye. A skin graft was also performed by removing her oral mucosa and using it as a cover sheet for the lens-embedded tooth device to make the front of the operated eye look as natural as possible.

A day after the final surgery, Bhagyamma was thrilled that she could see again!



# Vision Rehabilitation

The aim of the vision rehabilitation centres is to empower people with incurable vision loss and enable them to lead as independent a life as possible. When conventional treatments - medical or surgical - fail to prevent or restore vision loss, patients often experience visual impairment. It can have immediate and dire long-term consequences in children and adults; it can hamper their physical, psychosocial, educational and economical growth.

Low Vision Rehabilitation services are delivered across the LVPEI network. Since their inception, our vision rehabilitation centres have successfully rehabilitated more than 125,000 people with low vision and blindness across all age groups and strata of the society through their centre-based and community-based approach.

## THE KEY COMPONENTS OF INTERVENTIONS INCLUDE

- Low vision care - assessment, training and prescription of devices
- Special skill based training such as independent living skills on mobility
- Assistive software training for using computers
- Guidance and placement services for economic independence
- Early intervention for children below 5 years of age with developmental problems
- Self-help group meetings, peer support programs and advocacy





## Community Based Rehabilitation for Urban Slums

An initiative for Community Based Rehabilitation (CBR) in the urban slums of the Ranga Reddy and Hyderabad district, supported by the Tech Mahindra Foundation, was launched on 7 June 2014. The program aims at covering a population of 150,000 through door-to-door intervention and offering comprehensive rehabilitation care to those in need. Ms Indira Munjuluri, Vice President and Global Head for Retail, CPG, Transportation and Logistics business in Tech Mahindra was the chief guest for the launch.

## Computer Training Centre for the Visually Challenged



As an initiative to enhance the employability skills of the visually impaired youth, a computer training centre, was inaugurated on 4 September 2014 at GMR Varalakshmi Campus in Visakhapatnam. The centre aims to train a total of 128 youth in the coming one year. Supported by Microsoft India Development Center (MSIDC) - Employee Giving Campaign, the centre is equipped with the latest screen reading software such as JAWS, MAGic and Windows Eyes. In addition to basic computer knowledge and tally, soft skills are also imparted at the centre.

## 32<sup>nd</sup> Low Vision Awareness Program (LAP)

The 32<sup>nd</sup> Low Vision Awareness Program (LAP), organized on 12 September 2014 was for the first time networked across the four LVPEI campuses in Hyderabad, Bhubaneswar, Visakhapatnam and Vijayawada, and the participants could choose their centre of attendance. The popular biannual event was attended by over 75 participants including practicing optometrists, low vision specialists, optometry students, vision technicians and teachers of the visually challenged. Hands-On sessions were conducted at each campus by the respective faculty. All the participants were engulfed with a sense of positivity and determination when a couple of clients from vision rehabilitation centres shared their real life experiences.





## Visually Challenged Students Make us Proud



Students who are seeking rehabilitation services at LVPEI have made us proud and proved that disability is not a barrier to achieve academic excellence. 11 students passed their examinations with flying colours, among whom Abdulla Abdul Kareem scored 92.3% in matriculation and Kumar Raja bagged 89% in the second year Intermediate examinations. These 11 students were felicitated by the Cognizant Foundation at an event organized by the organization's volunteers who extended their services to LVPEI's rehabilitation program on 19 July 2014.

## Workshop on Learning Disabilities in Children

A workshop on creating awareness about learning disabilities in children, organized in the KVC campus, was web streamed live across the tertiary centres in the LVPEI network. Over 80 participants including pediatricians, teachers, school officials and parents attended the workshop organized on 26 August 2014. Dr Vishal Indla, Chief Psychiatrist, Vijayawada Institute of Mental Health and Neurosciences, and Farida Raj, Director, Centre for Special Education, facilitated the workshop.



## Public Lecture on Guide Dogs

Mr Ian Cox, Chair, Development Committee, International Guide Dog Federation delivered a Public Lecture on 'Starting and Developing a Guide Dog Organization' on 4 November 2014. Guide dogs are popularly used in developed countries to assist vision impaired and blind people. The audience included visually impaired clients of LVPEI and their parents.

## India Represented for the First Time in the ISLRR Committee

Dr Vijaya K Gothwal was nominated to the Executive Committee of the International Society of Low Vision Research and Rehabilitation (ISLRR) to represent India for a period of 3 years at the '11<sup>th</sup> International Conference on Low Vision' held from 31 March to 3 April 2014 at Melbourne, Australia. This is the first time that India has been represented in this committee. The executive board members of ISLRR represent 9 countries - Canada, USA, Hong Kong, UK, Netherlands, Germany, Malaysia, China and India - and aim to stimulate scientific research and promote the exchange of information in the field of vision rehabilitation.



## Storytelling Workshop for Language, Creativity and Personality Development

With the aim to enable visually impaired students to express themselves creatively through the medium of language and stimulate their cognitive thinking, Hyderabad Literacy Festival organized a story telling workshop on 10 January 2015 in LVPEI Hyderabad. Students from Visakhapatnam and Vijayawada campuses also participated in this workshop through video conferencing.

## Arts and Crafts Workshop for Sensory Integration

To help visually impaired children develop better hand and eye coordination, arts and crafts workshop was organized on 14 February 2015 with support from a couple of international volunteers from UK. The children were able to enjoy the different forms of art and craft through tactile and adaptive mode and were encouraged to make clay models and decorate bottles with coloured paper.

## Integrated Fun Camp



**Hyderabad:** The Dr PRK Prasad Centre for Rehabilitation of the Blind and Visually Impaired held its 17<sup>th</sup> Annual Integrated Fun Camp on 13 December 2014 at Jalavihar - a popular water park - at Necklace Road in Hyderabad. Over 288 participants indulged in the fun and games including the visually impaired and their family.

**Visakhapatnam:** A Fun Camp was organized on 21 December 2014 at Kailasagiri Park, Visakhapatnam. Over 30 visually impaired children and an equal number of siblings, family members, staff and volunteers participated.

**Vijayawada:** The Department of Rehabilitation at KVC organized the 'Second Adaptive Fun Camp' at Bhavani Island on 28 February 2015.

## Activities of Parent's Association of Visually Impaired (PAVI)

### Yoga Workshop

A workshop on yoga was organized for the clients from the rehabilitation program and their parents on 18 October 2014. The importance of yoga was demonstrated through both theory and practical sessions to the 40 participants of the workshop. The participants enthusiastically learnt the different forms of yoga and expressed their desire to attend many more such workshops in future.

### Interactive Session on Personality Development

A personality development session was organized on 8 November 2014 for 25 clients of the Rehabilitation Centre and their parents. Live examples were used to demonstrate the importance of a pleasing personality and good communication skills.

### Examination Guidelines for the Visually Impaired

A session to educate the visually impaired clients of LVPEI and their parents on the new guidelines on conducting written examination for persons with disabilities issued by the Ministry of Social Justice and Empowerment & Department of Disability Affairs, Government of India was organized on 14 March 2015.

### Parents' Forum

Sensitive and relevant topics such as, parent-child communication; adaptive sports and games for the visually impaired; tackling issues on sexual abuse and the legal processes, and fire and safety, were covered in the forum discussions during the year.



## Audio Movie Released by Vision Rehabilitation Team

An audio movie titled "I'm Possible" produced by the Vision Rehabilitation team was released on 7 March 2015. The movie's idea, concept, story, script and direction was by T V Aishwarya who works with the HelpLine run by the Vision Rehabilitation Services.

## Volunteers Annual Meet

The 13<sup>th</sup> Annual Volunteers Meet was attended by 46 volunteers on 7 March 2015 with the agenda to review the progress made jointly by the volunteers and the rehabilitation team and to pave the way forward. Mr Venkat Dullapalli, CEO of Volunteer Mark introduced an online application called Volunteer Management Software developed by them to regulate volunteering services. The volunteers once again pledged to continue supporting the visually challenged through their time, expertise and other resources.

## Mock Park at Microsoft IDC, Hyderabad



A model park - an imitation of the Mobility and Sensory Park at KVC Vijayawada - was set up for three days, 13-15 October 2014, at the premises of Microsoft-IDC, Hyderabad with an objective to sensitize the employees about the challenges faced by the visually impaired and experience their world as they take a stroll down the park. After taking a tour of the park, the employees felt that they could relate to the challenges faced by the visually impaired to a great extent.

## Centres for Sight Enhancement (April 2014 - March 2015)

Campus/Sight Enhancement	New client visits	Follow-up clients	Total	Low vision devices prescribed
Meera & L B Deshpande Centre for Sight Enhancement, Hyderabad	3213	2281	5494	3217
Bob Ohlson Centre for Sight Enhancement, Visakhapatnam	556	327	883	387
Centre for Sight Enhancement, Vijayawada	552	364	916	425
NTPC Centre for Sight Enhancement, Bhubaneswar	907	216	1123	723
<b>TOTAL</b>	<b>5228</b>	<b>3188</b>	<b>8416</b>	<b>4752</b>

## Rehabilitation of the Blind and Visually Impaired (April 2014 – March 2015)

Rehabilitation services	Hyderabad	Bhubaneswar	Visakhapatnam	Vijayawada	Total
New client visits	2783	958	766	676	5183
Follow-up clients	9864	347	805	965	11981
<b>Service delivery</b>					
Special skills training	1054	979	737	1028	3798
Instruction in use of assistive devices (computers) and low vision devices	3201	221	716	264	4402
Early intervention services	2243	142	149	243	2777
Environmental modification	1141	508	376	496	2521
Educational guidance	858	113	166	308	1445
Vocational guidance	128	105	96	85	414
Supportive guidance	3345	231	66	184	3826
Referral to other services	302	56	46	35	439
Audio books, Braille & large print books	7338	325	653	2290	10606
Audio pages & large print pages	33650	Not applicable (Service not available)	Not applicable (Service not available)	5350	39000





## Low Vision, High Aims

“Even today the memories of my childhood come flashing by and I am engulfed by a sense of nostalgia. Like every child, even my parents treated me like their little princes. But what alienated me from other children of my age was the colour of my skin, my inability to recognize people or things from far. Slowly I became aware of my shortcomings and would often shy away from interacting with people. I used to shut my eyes whenever in a crowd, just like the bright sunshine compelled me to shut my eyes outdoors.

Things changed when I started going to school. School was a joy and I thoroughly enjoyed the early years of my schooling. But the challenges continued; taking notes from the board was difficult and I used to often lag in completing my notes on time. So I started using the telescope when I was in the fourth grade.

I still remember the first day I had taken it to school. My classmates were excitedly peeping into my note book to see how far I had reached. After all it was for the first time that I was at par with them. With the support and guidance of my friends and teachers, I managed to secure good grades in both my 10<sup>th</sup> and 12<sup>th</sup> board exams. I want to study Bioinformatics or probably take up Computer Science. I am currently preparing for my EAMCET and BITSAT entrance exams.

I have met people who are facing even bigger challenges, yet faring well in life. I no longer feel inferior because of my physical limitations. Thanks to my parents, teachers, friends and doctors, I only feel motivated and inspired to chase my dreams.”

*As narrated by Rukaiya Vadnagarwala, 19, during LAP - “Patient speak”. She has Oculocutaneous Albinism and has low vision and has been consulting doctors at LVPEI for the past 15 years.*

## Little Thrisha Now Enjoys Going to School

Hailing from a poor family of daily wage labourers in Vijayawada, 9 years old, P Thrisha, had vision of only light perception with inaccurate projection of rays in the right eye and could appreciate hand movements close to her face in her left eye. Along with total cataract in both the eyes, she had inoperable retinal detachment in the right eye.

Under very guarded visual prognosis, cataract surgery improved her vision to 20/500 in 2 months, which was not a great visual outcome, so she was referred to the Centre for Sight Enhancement (CSE). On assessment, her distance vision improved to 20/80 with a handheld telescope and N18 with a stand magnifier.

Thrisha today is making optimal use of the low vision devices prescribed to her. And the best part is that with improved vision, she has also started taking interest in academics and is doing pretty well in school.



## Thanks to Assistive Device, Srikanth will Soon Complete his PhD



29 years old Srikanth Ravulapalli from Hyderabad was diagnosed with retinal degeneration when in secondary school. Having a strong inclination towards academics, he did not allow low vision to become a roadblock in perusing his studies further. It is only because of his sheer determination and hard work that he not only managed to complete his post graduation, but will be soon awarded a PhD in mathematics from the University of Hyderabad.

“To solve complicated mathematical problems, I had to refer a lot of literature and do a lot of reading on the computer. The biggest challenge for me was that I was forced to take a break after every 45 minutes because the light emitting from the screen was harmful for my eyes. This not only resulted in a lot of time wastage but also hampered my enthusiasm and continuity.

It was then that I consulted the doctors at LVPEI’s Centre for Sight Enhancement and was suggested to use kindle software for reading. I am happy that now I can continuously read for 2-3 hours at a stretch. I am pretty comfortable with this device and strongly recommend it to all my visually challenged friends,” says Srikanth.

# Eye Banking

Established in 1989, the **Ramayamma International Eye Bank (RIEB)** at LVPEI is the largest provider of sight restoring corneas in India and a SightLife Centre of Excellence in Eye Banking. As a leader in eye banking across Asia, RIEB has contributed significantly to the effective networking and proliferation of eye banks through community eye banking programs. RIEB completed 25 years of service and celebrated its silver jubilee in June 2014.

## Highlights

- First Eye Bank in the country to supply 2188 corneas for transplantation in a single year
- Quality Certificate from SightLife, USA, first among their partners in India with 2 years validity
- First Eye Bank in the Asia-Pacific region to process and supply pre-cut donor corneas to surgeons, to enable performing Descemet's Stripping Endothelial Keratoplasty (DSEKs). Processed and distributed 574 pre-cut corneas to surgeons at LVPEI and others across the country.





## Highest Number of Corneal Transplantation Surgeries



LVPEI's RIEB has cumulatively harvested nearly 50,000 corneas and conducted 20,000 sight restoring transplantation surgeries for corneal blind patients, the largest number done by a single centre in the world. In a felicitation ceremony organized for the Eye Bank team on 14 January 2015, the Governor of Telangana and Andhra Pradesh, Sri ESL Narasimhan lauded the institute's effort and commitment to quality eye care. Dr Gullapalli N Rao, Founder-Chair, LVPEI said, "RIEB's phenomenal growth and emergence as a global leader in eye banking is a remarkable and inspiring success story for a developing country like India where traditionally there has always been a lot of pessimism about organ transplantation."

## Celebrating 25 Years of Excellence



RIEB celebrated its silver jubilee on 27 June 2014. The first part of the day was marked with a scientific program and in the latter part of the day a commemorate ceremony was organized. The occasion was graced by guests from SightLife USA - Dr Paul Dubord, Chair and Mr Monty Montoya, President & CEO; Dr L Narendranath, Director, Nizam's Institute of Medical Sciences (NIMS); and members from the late Mrs Ramayamma's family.

## Hospital Cornea Retrieval Programme (HCRP) Expanded

RIEB's Hospital Cornea Retrieval Programme (HCRP), initiated in 1990, focuses on hospitals to retrieve corneal tissues. This model has proved to be a great success in the Hyderabad city based Osmania and Gandhi hospitals. Extending this program further, in the month of January and February 2015, this model has been replicated in three government hospitals in Warangal and Mahbubnagar districts of Telangana, and Kurnool district in Andhra Pradesh with the help of regional eye hospitals.

## Refresher Training

RIEB organized the fourth refresher training program aimed at better utilization of procured donor corneas by upgrading the skills of technicians involved in donor cornea recovery. About 25 technicians from various eye donation centres in Andhra Pradesh and Telangana participated in the one-day training program organized on 6 September 2014.





## 29<sup>th</sup> National Eye Donation Fortnight

As part of the 29<sup>th</sup> Eye Donation Fortnight, 25 August to 8 September 2014, kiosks were put up at various multi-specialty hospitals in Hyderabad to create awareness regarding eye donation. In addition to this, awareness slogans were scrolled on popular TV channels and community sensitization drives were conducted. A live phone-in TV program was anchored by G Srinivas on DD Saptagiri. In association with Nava Youth Association, Patancheru, Ramayamma International Eye Bank organized a public awareness lecture on eye donation with T Kishan Reddy as the guest speaker.

## 6<sup>th</sup> National CME on Eye Banking

At the 6<sup>th</sup> National Eye Bank CME held at Hitech City, Hyderabad, 26-28 September 2014, detailed discussions on the day-to-day challenges faced by the technicians involved in donor cornea recovery were held. Challenges during tissue retrieval and the reasons for excess bleeding; do's and don'ts for attending donor calls; donor cornea recovery; wet lab demonstration; therapeutic grafts; advanced role play in eye donation counseling were some of the topics that were covered. The RIEB team also took part in the panel discussions.

## Awareness Activities

More than 50 awareness programs have been conducted this year (2014-2015):

- A public awareness program was organized for 46 residents of an apartment complex in Erramanzil, Hyderabad on 6 April.
- 59 senior citizens from a total of 83 pledged to donate their eyes during a public awareness campaign organized for the Senior Citizen Organization at Dammaiguda, Hyderabad on 10 April.
- A public awareness talk was organized by Maheshwari Seva Samithi, Hyderabad on 13 April. Around 40 people participated.
- A public awareness lecture was delivered for around 85 participants in a program organized by Jainam Jayanthi Shashanam Seva Samithi, Hyderabad on 20 April. 48 people pledged to donate their eyes.
- A public awareness talk was delivered for the members of Jain Community on 4 May.
- An awareness talk was delivered at the Old Age Home Social Welfare Association on 25 May.
- Public awareness program was organized in Challapalli village, Krishna district on 14 September.
- An awareness talk on eye donation and the importance of eye care in premature babies was delivered on 5 June at Fernandez Hospital.
- Around 150 students were sensitized on the topic of eye donation at an awareness program organized at the Government Junior College, Pahadi Sharif on 17 June.



- In an awareness program organized on 27 June by the Jain Community of Secunderabad, an awareness talk was delivered for the 300 members present during the event.
- Around 50 participants attended the eye donation talk at Swachanda Sanstha, Ramachandra village, Patancheru on 28 September.
- On 20 March, an awareness talk was delivered at MGM Hospital Warangal where HCRP was recently initiated. Around 60 nurses and post graduate doctors attended the program.
- Ravindra Bharati School invited the RIEB team to deliver a series of awareness talks on eye donation for parents and children across all their branches from 26 January-13 February.

## Mohsin Eye Bank

Mohsin Eye Bank is a Community Eye Bank located at LVPEI, GMRV Campus, Visakhapatnam. Apart from supplying quality tissues to LVPEI's Visakhapatnam and Vijayawada campuses, and to local surgeons in Visakhapatnam, it also supplies tissues to the entire nation through the SightLife Cornea Distribution System.

## Awareness Activities

- 16 audiovisual presentations made to different sections of society in and around Visakhapatnam.
- 6 stalls were put up at different public places like malls, bus stands, petrol pumps, etc
- Eye Donation Fortnight:

- ✦ Organized a beach rally on 31 August 2014; inaugurated by Mr MD Khan, Additional Commissioner of Police - Crime, Visakhapatnam.
- ✦ Valedictory function and 13<sup>th</sup> anniversary celebrations were conducted on 8 September 2014 at the GMRV Campus. Sri Tirumala Krishna Babu, IAS, Chairman, Port Trust, Visakhapatnam was the Chief Guest. Dr P Somaraju, Secretary, Gayatri Vidya Parishad, Visakhapatnam also participated.

- Corneal surgeons from different hospitals participated in a Corneal Surgeons' Meet that was organized on 21 May 2014 at the Waltair Club, Visakhapatnam. Dr Usha Gopinathan, Executive Director, LVPEI and Trustee, VEBART Trust (Mohsin Eye Bank) was the Guest of Honour.



## Drushti daan Eye Bank

Drushti daan Eye Bank (DDEB), Odhisha's first eye bank completed 7 years of partnership with LVPEI Bhubaneswar in helping the corneal blind to regain sight. In 2014-2015, 700 corneas were collected overall out of which 607 were transplanted.

A series of public awareness activities such as, school painting competitions for children, eye donation pledge drives in corporate offices, malls and schools were organized by Drushti daan Eye Bank at LVPEI Bhubaneswar as part of the 29<sup>th</sup> National Eye Donation Fortnight, 25 August-8 September 2014. A panel discussion on "Synergy among eye banks in Odisha" was held on 7 September 2014 where Sri Atanu Sabyasachi Nayak, Hon'ble Minister of Health and Family Welfare, Government of Odisha, and Dr Arabinda Kumar Padhee, IAS, Commissioner-cum-Secretary, Department of Culture and Tourism, Government of Odisha were the chief guest and guest of honour respectively. Dr Gullapalli N Rao, Founder-Chair, LVPEI, delivered the keynote.



## RIEB's Network Affiliates - Cornea Collection

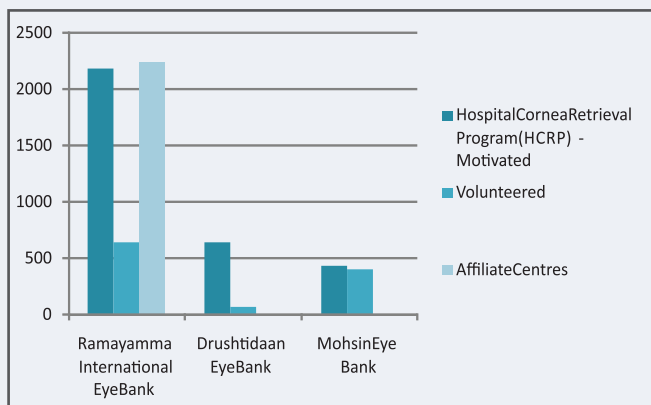
Akbar Eye Hospital, Anantapur (12); Badam Balakrishna Eye Bank, Kakinada (88); **Chiranjeevi Charitable Trust, Hyderabad (100)**; District Hospital, Jangaon (20); District Hospital, Nandyal (2); District Hospital, Anantapur (10); District Hospital, Mahbubnagar (22); Dr YV Laxmidevi Eye Bank, Proddutur (10); DBCS, Nalgonda (4); Gowthami Eye Institute, Rajahmundry (48); Indian Red Cross Society, Eluru (62); Indian Red Cross Society, KMEDC, Srikakulam (20); Kamineni Institute of Medical Sciences, Narketpally (10); Lions Club of Cherial, Cherial (6); **Lions Club of Karimnagar Charitable Eye Hospital, Rekurthi (411)**; Lions Club of Mahabubabad, Mahabubabad (28); Lions Club of Suryapet Eye Hospital, Suryapet (60); Lions Club of Jagityal, Jagityal (4); Lions Club of Ramagundam, Ramagundam (4); Lions Club of Thorrur, Thorrur (4); Lions Club of Vemulawada, Vemulawada (2); Lions Eye Hospital, Bodhan (32); Mamatha Eye Bank, Khammam (16); **Modern Eye Hospital, Nellore (244)**; **Modern Eye Hospital & Research Centre, Ongole (118)**; Mohsin Eye Bank, Visakhapatnam (47); MVR Eye Center, Tanuku (34); Nayana Eye Care, Nandyal (2); Pavani Eye Hospital, Jagityal (12); Regional Eye Hospital, Kurnool (79); **Regional Eye Hospital, Warangal (164)**; Rotary Eye Hospital, Vuyyur (20); RR Lions Eye Hospital, Palakol (24); Sadhuram Eye Hospital, Hyderabad (20); Sankara Eye Hospital, Guntur (2); Santiram Medical College, Nandyal (38); **SRR Lions Eye hospital, Nidadavole (309)**; Sreelatha Modern Eye Hospital, Chittoor (4); Sudarsani Eye Hospital, Guntur (22); Surya Swachanda Seva Samithi, Mahabubabad (8); SVRRGG General Hospital, Tirupati (13); Sri YBR Murthy Konaseema Eye Bank, Ambajipet (74); SKVBRIRCS Eye Bank, Kurnool (4); Yanam Eye Bank, Yanam (26).

\* Prominent contributors marked in colour

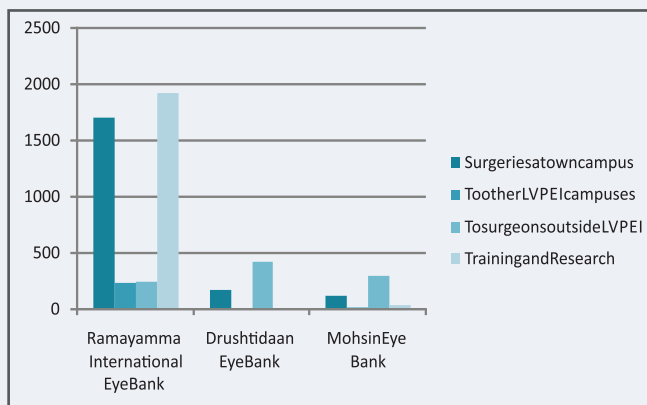
## Eye Bank Statistics

Corneas collected	Ramayamma International Eye Bank, Hyderabad	Drushti daan Eye Bank, Bhubaneswar	Mohsin Eye Bank, Visakhapatnam	Total
Hospital Cornea Retrieval Program (HCRP) - Motivated	2187	642	433	3262
Volunteered	640	58	395	1093
Affiliate Centres	2239	0	-	2239
<b>Total</b>	<b>5066</b>	<b>700</b>	<b>828</b>	<b>6594</b>
<b>Corneas utilized</b>				
Surgeries at own campus	1706	175	127	2005
To other LVPEI campuses	237	5	15	257
To surgeons outside LVPEI	245	427	303	975
Training and Research	1927	4	29	1963
<b>Total</b>	<b>4115</b>	<b>611</b>	<b>474</b>	<b>5200</b>
Discarded	951	89	354	1394

### Corneas collected



### Corneas utilized





# Product Development

## McCarey-Kaufman's Medium for Corneal Preservation

The RIEB produced 30,981 vials of the McCarey-Kaufman (MK) Medium during the year. We supplied 30,045 vials of the MK Medium to 200 national eye banks and 3 international eye banks.

### National

Abu Road, Ahmedabad, Aizawl, Allahabad, Aluva, Ambala, Anand, Asansol, Amalapuram, Angamaly, Aurangabad, Bagalkot, Bengaluru, Bellary, Bhavnagar, Bhopal, Bhubaneswar, Bilaspur, Burdwan, Borivali, Chandigarh, Chennai, Coimbatore, Chittoor, Dahod, Davanagere, Dehradun, Delhi, Dibrugarh, Dakshin Dinazpur, Dombivli, Durgapur, Erode, Eluru, Faridkot, Goa, Gulbarga, Guntur, Gurgaon, Guwahati, Haldia, Hisar, Hoshiarpur, Hubli, Hyderabad, Indore, Jodhpur, Jaipur, Jalandhar, Jalgaon, Jalna, Jamshedpur, Jorhat, Kakinada, Kanpur, Karad, Karimnagar, Karnal, Kattankulathur, Kochi, Kolhapur, Kolkata, Kozhikode, Kuppam, Kurnool, Latur, Loni, Lucknow, Ludhiana, Madurai, Mangaluru, Manipal, Mahbubnagar, Meerut, Miraj, Moradabad, Mumbai, Mysore, Nagercoil, Nagpur, Nandyal, Nashik, Narketpally, Navsari, Neemuch, New Delhi, Noida, Nidadavole, Nellore, Ongole, Palakkad, Panvel, Parel, Patna, Pondicherry, Pune, Proddutur, Palakol, Raipur, Rajkot, Ranchi, Ratnagiri, Rishikesh, Sangli, Satna, Shimla, Shivamogga, Sirsa, Solapur, Sri Ganganagar, Secunderabad, Surat, Suryapet, Surendranagar, Thane, Thiruvananthapuram, Tirupati, Tiruchirapalli, Tiruvarur, Udupi, Ujjain, Vadodara, Varanasi, Vellore, Veraval, Visakhapatnam, Visnagar, Vizianagaram, Vuyyur, Warangal, Wardha, Yanam.

### International

Dhaka, Bangladesh; Khatmandu, Nepal; Yangon, Myanmar

## Amniotic Membrane for Ocular Surface Reconstructive Surgeries

RIEB produced 1,823 pieces of amniotic membranes during this year. In addition to providing 830 amniotic membranes to all the LVPEI tertiary campuses and three secondary eye care centers, 842 membranes to surgeons outside LVPEI, a total of 139 membranes were provided for in-house research and training purposes.

### National

Adilabad, Ahmedabad, Ambala City, Amritsar, Anand, Baroda, Belgaum, Bhopal, Calicut, Chandigarh, Chennai, Coimbatore, Cochin, Cuttack, Dehradun, Gaziabad, Guntur, Guwahati, Gwalior, Hyderabad, Jabalpur, Jalandhar, Kadapa, Kakinada, Kolhapur, Kolkata, Kota, Kurnool, Lucknow, Ludhiana, Miraj, Moradabad, Nagpur, Nandyal, Neemuch, Nellore, New Delhi, Noida, Palakkad, Panvel, Patiala, Patna, Pune, Raipur, Rajahmundry, Rajkot, Sangli, Secunderabad, Solapur, Srinagar, Surat, Thrissur, Tirupur, Vadodara, Vijayawada, Visakhapatnam, Vizianagaram, Vuyyur, Warangal, Wardha, Yenugonda.

# Distribution of MK Medium and Amniotic Membrane



# Community & Rural Eye Care

## Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye Care (GPR-ICARE)

GPR-ICARE is the community eye health service platform of LVPEI, providing affordable and accessible eye care services. It provides a continuum of eye health services to the diverse population in the remote rural, urban and tribal areas.

Gratifying experiences in rural communities constantly encourage us to expand our network in neglected and marginalized community. This year, with support from the Brown family of France, we started our 12<sup>th</sup> secondary rural eye care centre in Dhulipalla village of Sattenapally mandal in Guntur district, 'Edward and Soona Brown Eye Centre.' We also entered into rural Odisha with the first secondary centre at Rajgangpur, the 'OCL Eye Centre' which was inaugurated by Dr APJ Abdul Kalam, the former President of India and supported by the renowned Dalmia family. With this we now have 13 Secondary Eye Care Centres across the four states of Telangana, Andhra Pradesh, Odisha and Karnataka.

Along with our partners, we have served 383,000 people and performed 52,000 surgeries. This also includes surgery for a 95 year old neglected and deprived bilaterally blind male patient as well as a former Health Minister, thus 'Excellence' is delivered with 'Equity'. Generous support from donor agencies and local communities has helped us establish 13 new Vision Centres this year. We now have a total of 116 Vision Centres. Capital funding support for these Centres was extended by LDS Charities of Salt Lake City, USA and Lavelle Fund, New York and the local communities. We also supported the development of a vision centre in Ladakh in the Himalayas thus ensuring that primary eye care reaches even at these far flung areas. 195,000 people across all age groups were screened in our Vision Centres and 81,000 children were screened in the school screening programs.

Our technology team has made all our secondary centres enabled with Electronic Medical Records Systems.

We have provided Community Based Rehabilitation services to 419 people, thus making a difference in the lives of several who were otherwise unidentified victims of visual impairment.

Sunethra Program - integration of primary eye care with primary health care - is ongoing in two of our secondary





centres. We have initiated a Public - Private - Partnership (PPP) model with the Government of Telangana to initiate LVPEI supported Vision Centres at the Government run Primary Health Centre locations.

World Sight Day, World Glaucoma Week and World Diabetes Day were organised across all our centres, thus increasing awareness of these diseases in the communities.

The educational arm in Community Eye Care continues to build the human resource pool in Eye Health Management and Community Eye Health. Student enrolments in our online modules of Masters Course in collaboration with the University of New South Wales continue to be on the rise. Similarly, students from different universities and institutions completed their summer and mid-term internships. Refresher training programs were conducted for the staff of our partner hospitals and for our network staff.

Our research component has witnessed the completion of the Glaucoma Epidemiology and Genomics Study (GLEAMS) and the Diabetes project this year. The third part of the Andhra Pradesh Eye Disease Study (APEDS3) was completed and we are into the final part of the study. This significant longitudinal study offers the promise of very critical information on the incidences of various blinding eye conditions. Rapid Assessment Study on Visual Impairment was completed in Adilabad and Mahbubnagar districts of Telangana and is currently ongoing in Guntur district, Andhra Pradesh. In terms of publication, seven articles and twelve posters were published and presented in national and international peer reviewed journals, workshops and conferences. Our Public Health Research team was successful in getting grants from various national and international agencies like Wellcome Trust, Lions Clubs International Foundation, Grand Challenges Canada etc.

Experience in eye health services has enhanced our capabilities of training and capacity building competencies. This helped us to continue our collaboration with the Global Sight Initiative (GSI) project of the Seva Foundation to nine hospitals that we mentor. TOMS "one-for-one giving eyesight" program is ongoing this year. This has supported us in providing glasses and performing surgeries for the needy people at no cost. The grant given for the World Sight Day has helped us to support the hospitals we mentor with for conducting 600 surgeries.

We look forward to another year of service to the communities, "*so that all may see*", by holding the strength of the five core values of LVPEI - Excellence, Equity, Integrity, Togetherness and Patient First.



# New Vision Centres

## #104 at Kotturu



**Location:** Kotturu, Srikakulam district, AP

**Inaugurated:** 25 April 2014

**Supporters:** Sri Lotugedda Tulasi Varaprasada Rao, Sarpanch; Smt Lotugedda Sridevi; Sri Kiran, Lifeline Aqua; Sri Anand and other local elders. Lavelle Fund for the Blind, USA, have provided equipment support.

## #105 at Hiramandalam



**Location:** Hiramandalam, Srikakulam district, AP

**Inaugurated:** 25 April 2014

**Supporters:** Maa Kuthari Charitable Trust - Sri Udaya Chandra Mahanty and Sri Surendra Kumar Mahanty, Chairman & CEO, Maa Kuthari Global; Sri Tirupathi Panda and their team from Maa Kuthari Global. Lavelle Fund for the Blind, USA, have provided equipment support.

## #106 at Narasannapeta



**Location:** Narasannapeta, Srikakulam district, AP

**Inaugurated:** 25 April 2014

**Supporters:** Gokhale Children's Home (G C Home); Swamy Babu & Vajamma Charitable Trust; TGK Gupta; Tankala Babju; Tankala Rukmini; U Linga Raju; Ravinder Kumar Sahoo; Sri Andhavarapu Srinivas and other local elders. Lavelle Fund for the Blind, USA, have provided equipment support.

## #107 at Ponduru



**Location:** Ponduru, Srikakulam district, AP

**Inaugurated:** 26 April 2014

**Supporters:** Smt. Vijayalakshmi, Sarpanch; Sri Sai Kumar; K V Sai Medicals; Sri Gunnu Srinivasa Rao; Sri Yerubothu Bhaskar, Pala Centre and other local elders. Lavelle Fund for the Blind, USA, have provided equipment support.

## #108 at Ranasthalam



**Location:** Ranasthalam, Srikakulam district, AP

**Inaugurated:** 26 April 2014

**Supporters:** M S Charitable Trust; Sri M. Srinivasa Rao; Sri Srinivas Patnaik, reporter; Smt K Sarada; Sri K Lalithesh; Sri O Naresh, CEO, Symbiosys Technologies; Arogyavaram Eye Hospital; and other local elders. Lavelle Fund for the Blind, USA, have provided equipment support.

## #109 at Banra



**Location:** Banra, Cuttack district, Odisha

**Inaugurated:** 26 May 2014

**Supporters:** Shree Jagadguru Krupalu Ji Charitable Trust.

Dr J K Das, Joint Director (Ophthalmology), Department of Health & Family Welfare, was the Chief Guest.



## #110 at Narasayapalem



**Location:** Narasayapalem, Guntur district, AP  
**Inaugurated:** 28 December 2014  
**Supporters:** Dr Ratna Babu, a reputed orthopaedic surgeon in Guntur, has donated the fully renovated

facility including operating expenses for three years. Latter-day Saint Charities, USA, have provided equipment support.

## #112 at Lakkidam



**Location:** Gantyada, Vizianagaram district, AP  
**Inaugurated:** 25 February 2015  
**Supporters:** Lavelle Fund for the Blind, USA. The rent free premises was provided by Ramachandra Naidu Voluntary Service Foundation. Sri K Appalanaidu, MLA, Gajapthinagaram constituency inaugurated the centre.

## #114 at Lakkavarapukota



**Location:** Lakkavarapukota, in Vizianagaram district, AP  
**Inaugurated:** 26 February 2015  
**Supporters:** Lavelle Fund for the Blind, USA. The rent free premises was provided by Sri Sangam Govinda Rao and Smt Sangam Nagamani, Sarpanch, Lakkavarapukota. The Centre was inaugurated by K Lalitha Kumari, MLA, S Kota constituency, Sri Sangam Govinda Rao and Smt Sangam Nagamani.

## #116 Podalakuru



**Location:** Podalukuru, Nellore district, AP  
**Inaugurated:** 29 March 2015  
**Supporters:** Rotary Club, Elbe, through Christoffel Blindemission and operational expenses supported by ZenQ.

Smt Bollu Kasturi Bai inaugurated the centre. Sri Bollu Murali, CEO of ZenQ was also present.

## #111 at Unguturu



**Location:** Unguturu, West Godavari, AP  
**Inaugurated:** 30 January 2015  
**Supporters:** Capital funding is by the Latter-day Saint Charities, USA, and Diabetes Research Society of India provided the rent free facility. Sri Maganti Venkateswara Rao, Member of Parliament, inaugurated the centre. Also present were Sri Gammi Veeranjanyulu, MLA AP; Smt Lakshmi, Sarpanch and other leaders from the local community.

## #113 at Bhogapuram



**Location:** Bhogapuram, Vizianagaram district, AP  
**Inaugurated:** 25 February 2015  
**Supporters:** Lavelle Fund for the Blind, USA. The rent free premises was provided by Sri Kommuri Sanjeeva Rao, former MP in memory of Sri Kommuri Appadu Dora. The Centre was inaugurated by Sri K Subhoshana Rao, Sarpanch, Bhogapuram, Sri A Prasada and Sri Shankara Rao.

## #115 at Lodagalavanipalem



**Location:** Lodagalavanipalem, Visakhapatnam district, AP  
**Inaugurated:** 22 March 2015  
**Supporters:** Lavelle Fund for the Blind, USA. Rent free premises provided by Sri Bammidi Suryanarayana and Smt Bammidi Uma Devi. Hon'ble Minister for Education and Human Resource Development, Andhra Pradesh, Sri Ganta Srinivasa Rao inaugurated the centre.



# New Secondary Centres

## Ground Breaking for Naraindas and Morbai Budhrani Eye Centre, Rayagada, Odisha

The ground breaking ceremony of the secondary centre at Rayagada, Odisha, was performed on 12 July 2014; The centre is supported by the Naraindas Morbai Budhrani Trust, Mumbai and will be called Naraindas and Morbai Budhrani Eye Centre. Mr V N Hegde, Trustee, Naraindas Morbai Budhrani Trust; Dr Sashibhusan Padhi, District Collector, Rayagada; Dr Taraprasad Das, Vice-Chair, LVPEI; Dr Sujata Das, Director LVPEI Bhubaneswar and other dignitaries were present on the occasion.



## 12<sup>th</sup> Secondary Centre at Dhulipalla, AP

LVPEI's 12<sup>th</sup> Secondary Service Centre - Edward and Soona Brown Eye Centre - was inaugurated on 12 January 2015 at Dhulipalla village, Guntur district, Andhra Pradesh. The Centre was inaugurated by Mr Edward Brown, Ms Soona Brown and their family in the gracious presence of Sri Kodela Shivaprasad Rao, Speaker, Andhra Pradesh State Legislative Assembly; Dr Kamineni Srinivas, Hon'ble Health Minister, Andhra Pradesh; Sri Rayapati Sambasiva Rao, Member of Parliament, Narasaraopet; Mrs Nannapaneni Rajakumari, Member of Legislative Council, Andhra Pradesh; Dr Gullapalli N Rao, Founder-Chair, LVPEI; and local community leaders.

## 13<sup>th</sup> Secondary Centre at Rajgangpur, Odisha

His Excellency Dr APJ Abdul Kalam, former President of India, inaugurated the 13<sup>th</sup> secondary care centre and the first in Odhisa at Rajgangpur on 27 February 2015. OCL Eye Centre, supported by OCL India Ltd, is dedicated to the people of Sundargarh district. Present during the inauguration were Sri Mangala Kisan, MLA, Odisha; Kanupriya Dalmia, Assistant Vice President, OCL India Ltd; Dr Gullapalli N Rao, Founder-Chair, LVPEI; and Dr Taraprasad Das, Vice-Chair, LVPEI.



## LVPEI's Optometry Team Visits Ladakh for a Screening Program



LVPEI's Optometry team comprising Uday Kumar Addepalli and Veerendranath Pesala visited the Roy A Kite Memorial Clinic in Lamdon, Leh, Ladakh twice and conducted a screening program. Over 500 people were screened. 20 year old Hussain, a daily wage labourer was identified with steroid induced glaucoma and brought to Hyderabad for detailed treatment. LVPEI is helping in establishing a vision centre for the region.

## Anniversaries



Venkata Lakshmi Eye Centre, Karamchedu, AP: 12<sup>th</sup> anniversary on 7 June 2014.



Bhosle Gopal Rao Patil Eye Centre, at Mudhole, Telangana: 18<sup>th</sup> anniversary on 20 December 2014.



Seshanna Chennawar Eye Centre, Adilabad, Telangana: 9<sup>th</sup> anniversary on 9 June 2014.



Sudhakar and Sreekanth Ravi Eye Centre, Markapuram, AP: 7<sup>th</sup> anniversary on 3 January 2015.



Swarna Bharat Eye Centre, Nellore, AP: 7<sup>th</sup> anniversary on 1 July 2014.



Sudhakar and Sreekanth Ravi Eye Centre, Kandukur, AP: 6<sup>th</sup> anniversary on 1 February 2015.



Dr Kommareddy Raja Ram Mohan Rao Eye Centre, Guntur, AP: 3<sup>rd</sup> anniversary on 23 August 2014.



Y Mahabaleswarappa Memorial Eye Centre, Bellary, Karnataka: 2<sup>nd</sup> anniversary on 13 February 2015.



Kuchukalla Ramachandra Reddy Eye Centre at Thoodukurthy, Telangana: 16<sup>th</sup> anniversary on 24 October 2014.



Nava Bharat Eye Centre, Paloncha, Telangana: 4<sup>th</sup> anniversary on 19 February 2015.



Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye Care (GPR-ICARE), Hyderabad, Telangana: 16<sup>th</sup> anniversary on 17 December 2014.



Siloam Eye Centre, Madanapalli, AP: 8<sup>th</sup> anniversary on 11 March 2015.



The Silver Oak garden at GPR-ICARE Campus was dedicated to late Dr Alapati Apparao on 3 January 2015 marking his contributions to the development of the gardens. The members of Dr Apparao's family graced the occasion.



# Celebrations

## World Sight Day

World Sight Day was celebrated across all our centres from 9-18 October 2014 with the theme 'Universal Eye Health'. 'No more avoidable blindness' was the motto with which a series of activities including eye screening, awareness talks and rallies were conducted.



## World Diabetes Day

World Diabetes Day, 14 November 2014, was observed across the LVPEI network with great enthusiasm. More than 8,000 people participated in 50 events comprising diabetes awareness walks, rallies, meetings, community diabetic retinopathy screening programs, essay, painting competitions etc.

## World Glaucoma Week



School children, villagers, teachers and local leaders across all our centres actively participated in the various awareness programs organized on 12-13 March 2015, as part of the World Glaucoma Week.



## WHO-IAPB South-East Asia Regional Workshop

GPR-ICARE team attended the WHO-IAPB (International Agency for the Prevention of Blindness) - South-East Asia (SEA) regional workshop from 18-20 November 2014. It was a regional meeting to operationalize the WHO Action Plan (2014-2015) for the prevention of avoidable blindness and visual impairment in the SEA region.

## Students on Projects from International Universities



A team of students from the Johns Hopkins Carey Business School, USA visited the Kuchukulla Ramachandra Reddy Eye Centre at Thoodukurthy, Mahbubnagar, Telangana on 9 January 2015, as part of their innovation for humanity project. Leah Sbriscia, Ryan Ross, Vivi Wzhao and Emmanuel Opati were the team members.



A team from the University of Rochester, New York comprising Ms Barinder Patel, Mr Meacham Terry and Mr Robert Dorman visited LVPEI's Bijnapally and Nagarkurnool Vision Centres and also the Secondary Care Centre at Thoodukuthy, AP on 17 November 2014. They highly appreciated LVPEI's service delivery model and the quality of the services imparted.

## National Collaborating Centres



**SEVA Foundation:** With the support from SEVA Foundation, under the program, Global Sight Initiative, LVPEI is providing capacity building support to nine eye hospitals across India to achieve the goal of additional 100,000 cataract surgeries by the year 2020.

**Operation Eyesight Universal:** As a Global Resource Centre for Operation Eyesight Universal, LVPEI continues to build capacity for OEU's partner centres by conducting refresher programs.

*(Refer Map on page no 67 for locations of National Collaborating Centres)*

## Service Delivery

The services at primary care vision centres are offered entirely free of cost. A total of 195,737 people were screened of whom 62,895 were prescribed glasses for refractive errors

Vision Centre locations	No. of people screened	Spectacles prescribed*	Spectacles dispensed*	Referred to Service Centre
<b>Rural (113)</b>				
Bhainsa, Kubeer, Nandipet, Navipet, Narsapur, Lokeshwaram & Tannur (7) (Bhosle Gopal Rao Patil Eye Centre, Mudhole)	17,514	5,758	4,669	3,111
Utnoor, Boath, Jainath, Bela, Narnoor, Jainoor, Jannaram, Medarpet, Neradigonda, Gudihathnoor, Echoda & Indervelly (12) (Seshanna Chennawar Eye Centre, Adilabad)	18,885	7,974	5,971	3,253
Wanaparthy, Achampet, Nagarkurnool, Kothakota, Kollapur, Ghanapuram, Bijnapally, Telkapally, Kalwakurthy, Lingala & Amangal (11) (Kuchukulla Ramachandra Reddy Eye Centre, Thoodukurthy)	16,620	4,357	3,344	5,194
Parchuru, Panguluru, Pedanandipadu, Yeddapanudi, Marturu, Ballikuruva, Epurupalem, Chinnaganjam, Naguluppalapadu, Vetapalem & Narasayapalem <sup>1</sup> (11) (Venkata Lakshmi Eye Centre, Karamchedu)	23,170	7,020	5,700	2,138
Tripuranthakam, Yerragondapalem, Dornala, Cumbum, Bestavaripeta, Giddalur, Podili, Darsi, Kurichedu & Chimakurthi (10) (Sudhakar & Sreekanth Ravi Eye Centre, Markapuram)	15,117	4,792	2,182	3,124
Tangutur, Kondapi, Lingasamudram, Chandrasekharapuram, Singarayakonda, Pamuru, Ulavapadu, Medarmetla, Santhanuthalapadu & Kothapatnam (10) (Sudhakar & Sreekanth Ravi Eye Centre, Kandukur)	7,881	3,382	1,783	1,496
Nimmanapalle & B Kothakota (2) (Siloam Eye Centre, Madanapalli)	1,766	372	229	450
Ravulapalem (1) (Paramahansa Yogananda Netralaya, Rajahmundry)	5,616	1,755	1,330	1,123
Chodavaram, Shrungavarapukota, Revidi, Gajapathinagaram, Govindapuram, Yalamanchili, Kailasapatnam, Kasimkota, K Kotapadu, Kothavalasa, Araku, Lakkidam <sup>2</sup> , Bhogapuram <sup>3</sup> , Lakkavarapu Kota <sup>4</sup> & Lodagalavanipalem <sup>5</sup> (15) (GMRV Campus, Visakhapatnam)	19,970	4,743	2,711	6,279
Kovvali, Kapileswarapuram, Utukuru, Mylavaram, Pedapadu, Lingala, Buttayagudem, Agiripalli, Visannapeta, Movva & Unguturu <sup>6</sup> (11) (KVC Campus, Vijayawada)	22,392	7,113	3,648	4,128
Yellandu, Kallur, Manuguru, Ashwapuram, Dammamet, Tekulapally, Chandrugonda, Tallada & Cherla (9) (Navabharat Eye Centre, Paloncha)	14,963	4,514	3,006	3,362
Amrataluru & Bhattiprolu (2) (Dr Kommareddy Raja Ram Mohan Rao Eye Centre, Gudavalli)	2,813	1,191	663	739
Mandasa, Santhabommali, Maliyaputii, Pydibhimavaram, Tekkali, Ranasthalam <sup>7</sup> , Ponduru <sup>8</sup> , Kotturu <sup>9</sup> , Narasannapeta <sup>10</sup> , & Hiramandalam <sup>11</sup> (10) (Arogyavaram Eye Hospital & Contact Lens Clinic, Sompeta)	14,015	3,279	1,600	4,499
Banra <sup>12</sup> (1) (L V Prasad Eye Institute, Bhubaneswar)	232	77	74	39
Podalakur <sup>13</sup> (1) (Swarna Bharat Eye Centre, Nellore)	56	33	10	18
<b>Urban (3)</b>				
LVPEI VST Screening Centre, Ramnagar; Vision Screening Centre, Kismathpur & Vivekananda Vision Centre, Ramakrishna Math (3)	14,727	6,535	3,310	1,855
<b>Total</b>	<b>195,737</b>	<b>62,895</b>	<b>40,230</b>	<b>40,808</b>

Note: The affiliate service/tertiary centre in brackets

\*Includes spectacles sold to patients referred by service centres and non-prescription sunglasses, photo chromatic glasses etc.,

<sup>1</sup>Inaugurated December 2014. <sup>2,3,4</sup> Inaugurated February 2015. <sup>5</sup> Inaugurated March 2015. <sup>6</sup> Inaugurated January 2015. <sup>7,8,9,10,11</sup>

Inaugurated April 2014. <sup>12</sup>Inaugurated May 2014. <sup>13</sup>Inaugurated March 2015

## Secondary Eye Care – Satellite and Partner Centres

During the year 175,141 people were seen at our secondary care centres.

Rural satellite & partner centres	Paying		Non-paying	
	Outpatients	Surgeries	Outpatients	Surgeries
<b>Satellite Centres</b>				
Bhosle Gopal Rao Patil Eye Centre, Mudhole, Adilabad District, Telangana.	15,889	1,266	7,934	1,441
Kuchukulla Ramachandra Reddy Eye Centre, Thoodukurthy, Mahbubnagar District, Telangana.	9,913	560	7,049	1,662
Venkata Lakshmi Eye Centre, Karamchedu, Prakasam District, AP.	4,764	239	10,795	1,598
Seshanna Chennawar Eye Centre, National Highway Road, Adilabad, Adilabad District, Telangana.	10,354	751	7,674	2,123
Siloam Eye Centre, Madanapalli, Chittoor District, AP.	9,820	555	2,636	702
Swarna Bharat Eye Centre, Venkatachalam, Nellore District, AP.	2,410	202	7,289	1,613
Sudhakar & Sreekanth Ravi Eye Centre Markapuram, Prakasam District, AP.	6,809	346	9,847	2,326
Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam District, AP.	5,230	379	7,012	1,300
Navabharat Eye Centre, Paloncha, Khammam District, Telangana.	14,778	949	10,576	2,076
Dr. Kommareddy Raja Ram Mohan Rao Eye Centre, Gudavalli, Guntur District, AP.	3,447	177	7,920	1,311
Y Mahabaleswarappa Memorial Eye Centre, Talur Road, Bellary, Karnataka State	2,687	154	7,830	1,561
Edward and Soona Brown Eye Centre, Dhulipalla Village, Sattenapalli, AP	1,017	13	333	34
OCL Eye Centre, Ranibandh, Rajgangpur, Odisha	871	-	257	-
<b>Total</b>	<b>87,989</b>	<b>5,591</b>	<b>87,152</b>	<b>17,747</b>

<b>Partner Centres</b>				
Mullapudi Venkatarayudu Eye Centre Tanuku, West Godavari District, AP.	10,516	984	1,490	145
Smt. Rajeshwari Ramakrishnan Lions Eye Hospital, Nidadavole, West Godavari District, AP.	21,006	2,059	11,004	2,661
St Gregorius Balagram Eye Hospital, Yacharam, Ranga Reddy District, Telangana.	6,024	169	1,014	412
Lions Club of Suryapet Eye Hospital, Suryapet, Nalgonda District, Telangana.	3,129	441	8,790	2,197
The Rotary Eye Hospital, Proddatur, Kadapa District, AP.	7,607	1,898	5,416	1,479
Paramahansa Yogananda Netralaya, Vemagiri, Rajahmundry, East Godavari District, AP	27,687	3,159	18,383	2,399
<b>Urban Partner Centres in Hyderabad</b>				
M S Reddy Lions Eye Hospital, Moula Ali	12,115	811	13,812	3,211
Kishore Chand Chordia Eye Centre, Begum Bazaar	8,037	376	30,440	3,483
Y Kishan Rao Balanagar Lions Eye Hospital, Balanagar	15,027	688	6,534	1,560
<b>Total</b>	<b>111,148</b>	<b>10,585</b>	<b>96,883</b>	<b>17,547</b>

Total Outpatients: 383,172

Total Surgeries: 51,470



## Community Eye Care Program Service Delivery: Screening Programs

	LVPEI VVC*	GMRV*	HOUSE *	Sunetra*	SFK*	CLIP*	Total
Slums/Villages surveyed	445	155	-	-	-	-	600
Population covered by door-to-door surveys	473,046	156,843	-	-	-	-	629,889
Identified with eye ailments	64,270	7676	-	-	-	-	71,946
People identified with diabetes/ high risk for diabetes	2909	464	-	-	-	-	3373
Community Screening Programs organized	1562	87	51	34	-	16	1750
People screened	106,247	6036	2812	2425	-	702	118,222
Spectacles prescribed	28,274	1099	828	437	-	361	30,999
Spectacles dispensed	9738	382	251	132	-	57	10,560
Awareness programs conducted	125	0	0	1140	2	27	1294
<b>Children Screening Programs</b>							
Schools covered	254	59	3	4	191	18	529
Teachers Trained	275	62	13	21	233	91	695
Children screened	35,400	11,047	679	1666	32,202	699	81,693
Identified with eye problem	2334	260	51	89	1981	68	4783
Referred for further management	1980	139	39	72	188	24	2442
<b>Anganwadi Screening Programs for children 0-5 years of age</b>							
Programs organized	54	27	-	5	-	17	103
Children screened	1271	467	-	148	-	479	2365
Identified with eye problems	185	1	-	0	-	2	188

Community Based Rehabilitation of the visually challenged	LVPEI VVC*	GMRV*	Total
Identified with blindness / low vision	373	232	605
Counseled for rehabilitation	114	232	346
Base hospital certification	74	232	306
Medical board certification	56	5	61
Low-vision service	40	33	73
Orientation and Mobility skills and Activities of Daily Living skills training	145	99	244
Travel concession - Bus	47	27	74
Travel concession - Train	53	2	55
Pension - Old age	4	2	6
Pension - Handicapped	209	12	221
School Admission	5	2	7

\*LVPEI VVC: Twelve secondary satellite centres of LVPEI

\*GMRV: GMR Varalakshmi Campus

\*HOUSE: Hyderabad Urban Slums Eye Care Program

\*CLIP: Community Linked Integrated Program, Jainath

\*SFK: Sight for Kids

\*Sunethra-Hospital Based Community Eye Care Project

## Operations Research at GPR-ICARE

Project Title	Investigators	Supported by	Project Update
L V Prasad Eye Institute-Glaucoma Epidemiology and Molecular Genomics Study (LVPEI-GLEAMS) <i>(September 2010-September 2014)</i>	Dr G Chandra Sekhar Dr Rohit Khanna Dr Harsha BL Rao Dr Padmaja K Rani Dr Subhabrata Chakrabarti Mr Uday Kumar Addepalli Mr Ganesh Babu Jonnadula	LVPEI	Clinical phase of the study completed in 2013 Genetics phase of the study completed in 2014 Blood samples were collected from subjects and controls DNA extraction in progress Serum separation from a portion of these samples have been collected
Andhra Pradesh Eye Disease Study (APEDS)-III Follow Up Study <i>(June 2012-Ongoing)</i>	Dr Rohit Khanna Dr Subhabrata Chakrabarti Dr Srinivas Marmamula Dr P Giridhar Ms Asha Latha Mettla (Project Coordinator) ICEH: Dr Clare Gilbert Dr GVS Murthy	LVPEI / Lions Clubs International Foundation, USA/ Dept. of Biotechnology, Centre of Excellence grant	Completed at Thoodukurthy, Mahbubnagar and Mudhole, Adilabad, districts in Telangana Project is ongoing at Nidadavole, West Godavari district, AP Subjects examined: 4423
Rapid Assessment of Visual Impairment (RAVI) project <i>(February 2014- Ongoing)</i>	Dr Srinivas Marmamula	Christoffel Blindenmission (CBM) Germany	Project completed at Mahbubnagar and Adilabad, districts in Telangana Ongoing at Sattenapally, Guntur district, AP Participants enumerated: 6150 Subjects examined: 5881 Participants identified with Visual Impairment: 12.6%; 95% CI: 11.6 – 13.4 Participants identified with Cataract: 54.5% Participants identified with refractive error: 38.8%
Barriers to uptake of referral services within L V Prasad's ICARE pyramid: A study at Navabharat Eye Centre, Paloncha, Khammam District, AP <i>(March 2014-October 2014)</i>	Dr Rohit Khanna Dr Giridhar Pyda Ms Asha Latha Mettla	LVPEI	Participants interviewed: 610 Personal interviews conducted: 457 Telephonic interviews conducted: 154 Patients who visited the centre after referral: 247 Patients who did not visit the centre after referral: 193
<b>INITIATIVES FOR CHILDREN</b>			
Children's Eye Health Initiative <i>(July 2007-June 2014)</i>	Ms Korani Jyothi Mr Jachin D Williams	Nimmagadda Foundation/LVPEI	Schools covered: 18 Teachers trained: 14 Children screened: 1317 Referred for detailed eye examination: 277 Outpatients screened: 7614 Surgeries performed: 1038 Spectacles prescribed & dispensed: 518 0-5 years children's screening Screening programs: 10 Anganwadi teachers trained: 10 Anganwadi school children screened: 187
Sight for Kids (1 year)	Mr Jachin D Williams Mr M Veeru Mr N Surender Reddy	Lions Clubs International Foundation, USA	Schools Covered: 191 Teachers trained: 233 Children screened: 32202 Spectacles prescribed and dispensed: 419 Referred for treatment: 188
<b>EMPOWERING RURAL COMMUNITIES</b>			
Essilor - LVPEI Mobile Refraction Screening Program <i>(March 2013 - Ongoing)</i>	Mr Jachin D Williams Mr Vasu Babu Mr Papaiah	Essilor, India	Population screened: 12,008 Spectacles prescribed & dispensed: 2403 Examined at secondary centre: 389
Community Linked Integrated Project (CLIP) <i>(June 2011 - Ongoing)</i>	Dr Suresh Kuruganti Mr Jachin D Williams Mr Franklin Daniel, Operation Eyesight Universal	LVPEI/ Operation Eyesight Universal, India	Villages covered: 38 Population screened: 1880 Spectacles prescribed & dispensed: 703 Operated for cataract & other causes: 192 Vision Health Committees formed: 19
Sunetra Programme (Hospital Based Community Eye care Programme) <i>(July 2013-Ongoing)</i>	Mr Jachin D Williams Mr Franklin Daniel, Operation Eyesight Universal	LVPEI	Ongoing in Gudavalli, Guntur district, AP and Bellary, Karnataka Villages covered: 34 People screened: 4091 Eye Problems identified: 526 Examined at Vision and Secondary centre: 5494 Surgeries performed: 872

## Operations Research at GPR-ICARE

Project Title	Investigators	Supported by	Project Update
<b>DIABETIC RETINOPATHY</b>			
Capacity building program to address diabetes and diabetic retinopathy in Prakasam District <i>(September 2008 to March 2015)</i>	Dr Padmaja K Rani	World Diabetes Foundation, Denmark	Eye screening for diabetics: 21,716 Diabetics received eye treatment: 1088 People referred to Secondary Centre: 5597 People referred to Tertiary Centre: 141
Alcon-LVPEI diabetic retinopathy screening at primary eye care in rural India <i>(December 2012-March 2015)</i>	Dr Padmaja K Rani	Optometry Giving Sight, UK	Vision Health Guardians: 25 Diabetics screened through fundus camera: 21,716 Diabetic Retinopathy screening programs organised: 312
Integration of general health and eye screening at vision centre <i>(March 2013-March 2015)</i>	Dr Padmaja K Rani	Vision CRC, Australia	Vision centres: 17 People screened for diabetes: 4965 People screened for hypertension: 24,217 People diagnosed newly with diabetes: 255 People diagnosed newly with hypertension: 823



### Thanks to the community screening program the three dwarf brothers regain their sight

The three dwarf brothers, Malku, Nagrao and Bapurao, all of them in their sixties, from Kosai village in Adilabad district of Telangana, are now able to carry out their day-to-day activities independently. But a year back, the picture was very different. The three of them were suffering from blurred vision.

During an LVPEI screening program organized at Kosai village, these brothers were diagnosed with bilateral blinding cataract and were advised to undergo surgery for vision restoration at the Seshanna Chennawar Eye Centre (LVPEI Secondary Centre) in Adilabad. The centre being 35 kilometers away from their village, they were apprehensive about travelling the long distance on their own and undergoing the surgery. But the community eye care team successfully counseled them and convinced them on the immediate need to address their problem. On 16 December 2014, the surgeries were performed. The brothers are very happy and satisfied with the improvement in their vision post the surgery. As a token of appreciation they gifted our doctors and other staff members vegetables grown in their garden.



# National Collaborating Centres



# Education

The Academy of Eye Care Education came into existence in 2013 as the apex body of education and training, with all the education centres across the LVPEI campus coming under its purview. The centre focuses on imparting quality education and training to all cadres of eye care professionals. The Academy of Eye Care Education encompasses:

- 1) Mark Nathaniel Thadikonda and Vijayamma Nannepaga Centre for Eye Care Education, Hyderabad
- 2) Ramachandra Pararajasegaram Community Eye Health Education Centre, GPR ICARE, Hyderabad
- 3) Bausch and Lomb School of Optometry, GPR Campus, Hyderabad
- 4) Pathak Centre for Eye Care Education, Bhubaneswar campus, Bhubaneswar
- 5) Pathak Centre for Eye Care Education, GMR Varalakshmi campus, Visakhapatnam

This year the good news is that our Ophthalmic Nursing Assistant (ONA) program will be now jointly certified by The University of Rochester School of Nursing, USA.

Another remarkable development is the collaborations we have established with leading organizations; Queen Elizabeth Diamond Jubilee Trust (QEDJT) for training of Ophthalmologists of Commonwealth countries, and World Health Organization for training pediatric ophthalmology teams and low vision personnels for Myanmar and African nations. Training commitments with Royal Australia and New Zealand College of Ophthalmologists (RANZCO) and European School for Advanced Studies in Ophthalmology (ESASO) are also ongoing.

Maintaining its legacy of excellence, the Bausch and Lomb School of Optometry (BLSO) this year too was adjudged as best school of optometry in India and won the Educational Excellence Award by the Indo-Global Education Expo and Summit 2014. It also bagged the prestigious India Vision Intitute Young Optometry Researcher Rolling Trophy for 2014. Two of its students were also awarded grants by Indian Vision Institute for undergraduate research projects.



# Moment of Immense Pride

## Award for Educational Excellence



Bausch and Lomb School of Optometry (BLSO) received the Award for Educational Excellence presented by the Indo-Global Education Expo and Summit on 20 November 2014.

## IVI Young Optometry Researcher Rolling Trophy



Bausch and Lomb School of Optometry (BLSO) interns Hemanth Reddy and Syed Hafiz won the India Vision Institute Young Optometry Researcher Rolling Trophy for their research projects, "SMARTstereo: a novel tablet PC based application for measuring stereoacuity in the clinic" on 30 October 2014. Currently, LVPEI's Srujana Innovation Centre is verifying the commercial viability of this application.

## Education Day Celebrations



The Graduation ceremony for any institute is an important event and is a reflection of the joy institutions share with students who have successfully completed their training program. The Academy of Eye Care Education we decided to begin this trend in the year 2014. The Education Day was celebrated on 29-30 November 2014. A total of 178 trainees were awarded certificates on successfully completing their courses. What was significant this year was the graduation of the first batch of Optometry fellows who followed a module-based system encouraging deeper learning of skills and promoting private practices in Optometry. Mr A V Rama Rao, an eminent scientist was the guest of honour and Professor Vikas Desai, a filmmaker was the chief guest.



Alumni of L V Prasad Optometrists (ALO) was inaugurated on 29 November 2014. The first inaugural meeting was attended by 110 alumni members.

## Important Dignitaries Visit BLSO

The first quarter of 2015, saw some very important dignitaries visiting BLSO. On the occasion of Annual Champalimaud Foundation Day on 2 Feb 2015, [Madame Leonor Beleza](#), President of the Champalimaud Foundation, Portugal visited BLSO.

A team comprising [Mr Mani Iyer](#), Senior Director, Strategy and Global Sustainable Operations and several other prominent members from the OneSight Foundation visited BLSO on 23 March 2015 to study the capacity building initiatives of Optometrists and Vision Technicians.

The visitors were not only impressed with the course curriculum, but also with the overall holistic learning environment provided to the student.





## World Glaucoma Week

The World Glaucoma Week (WGW) was observed by a series of activities focusing on early detection and prevention of glaucoma through family screening from 8-4 March 2015. Awareness walks were conducted to mark the occasion across the network. To sensitize and educate postgraduates and general ophthalmologists of Telangana and Andhra Pradesh, a workshop - "The Art and Science of Glaucoma" was organized at The Park, Hyderabad in association with The Hyderabad Ophthalmologists' Association.

## World Optometry Day

On the eve of World Optometry Day (WOD) celebrations, third year students of Bausch and Lomb school of Optometry participated in the vision screening program at Megha Institute of Engineering and Technology, Ranga Reddy, Telangana on 24 March 2015. The main focus was to create awareness about optometry and encourage interactions at the academic level among colleges and schools of optometry. About 400 students and staff members were screened. Of these 20% were prescribed with glasses after comprehensive examination - refraction, external examination and slit lamp examination.



## Workshops and Training

### Ocular Surface Disorders - Second Workshop



The Second Annual Ocular Surface Disorders Workshop, supported by the Champalimaud Foundation was organized from 29-31 January 2015. It received active participation from some eminent professionals such as Professor James Chodosh, Massachusetts Eye and Ear Infirmary, Harvard Medical School; Professor Guillermo Amescua, Bascom Palmer Eye Institute, USA; Dr Ahmed Gomaa, Orbis - The Flying Eye Hospital, USA and Professor Namrata Sharma, R P Center of Ophthalmic Sciences, AIIMS, New Delhi, among many others.

## Anesthesia Seminar for Trainees

The Indian Society of Anesthesiologists (ISA) conducted a series of Focused Anesthesia Seminars for Trainees (FAST) in association with the Department of Anesthesia at LVPEI, on 8 March 2015. The ISA conducts this program for postgraduate doctors from anesthesia specialties.



## EnVision 2015 Workshop

The inaugural EnVision 2015 workshop hosted by the Srujana Centre for Innovation aimed at providing bio-engineering skills to optometry and vision science staff and LVPEI faculty. Prof Adrian Glasser, University of Houston College of Optometry and Dr Shrikant Bharadwaj, LVPEI facilitated the five-day workshop held from 2-6 February 2015.

## Retinopathy of Prematurity (ROP) CME

A series of activities to increase awareness about Retinopathy of Prematurity (ROP) were organized as a mark of completion of 15 years of the Indian Twin Cities Retinopathy of Prematurity Screening (ITCROPS) program. The first ever dedicated hands-on surgical workshop in India devoted to retinal diseases of newborns and children was organized from 5-8 November 2014 at LVPEI. About 100 children with retinal problems were examined for expert opinion and live surgical demonstrations.

## Eye-PEP 2014

Eye PEP, the Postgraduate Education Program in Ophthalmology, was attended by around 200 students. The six-day program held from 23-28 November 2014 and aimed at providing practical hands-on experience of basic and clinical ophthalmology.



## Retina and Uvea Preceptorship Program

A two day Retina/Uvea Preceptorship program was conducted from 14-15 November 2014 in collaboration with Allergan India Pvt Ltd. A group of 4 Ophthalmologists from Thailand attended this program.

## Advanced Cardiac Life Support Training (ACLS)

ACLS was attended by 16 fellow doctors on 24 August 2014. It was organized by GVK EMRI - Emergency Management and Research Institute.



## LVPEI Sightlife DSEK Skills Transfer Course - Second Edition

The second edition of the LVPEI Sightlife DSEK Skills Transfer Course was conducted in Hyderabad during 1-4 December 2014. The international faculty group consisted of Dr Roberto Pineda, Dr Jay C Rudd and Dr Audrey Rostov. Long Term Ophthalmology fellowship selections were conducted from 25-26 October 2014. From the 98 applications received from across the country from the best of the institutes in India, 17 potential candidates were selected for the 2015 session.

## ReLOAD- Review Meeting



ReLOAD a review meeting for 'Re-Learning On Advancement and Development' was conducted in collaboration with Alcon for fellows working in rural community on 16 November 2014.

LVPEI's linkages with institutions and organizations the world over helps in drawing upon an international resource base of senior consultants and experts in every field of eye care. The Global Leaders Lecture Series commenced five years ago to engage with learning and knowledge sharing on a global platform. The series brings the best minds in the ophthalmology and vision sciences in interaction with the faculty, fellows and trainees at LVPEI's four campuses (Hyderabad, Bhubaneswar, Visakhapatnam and Vijayawada) through real-time videoconferencing. The institute was also privileged to host eminent researchers and change-makers from many walks of life who gave lectures and engaged in discussions with our faculty, fellows and a distinguished invited audience. To all these individuals who were so generous with their time and talent, we are very grateful.

## Public Lectures



**Mr Ian Cox**, Chair, Development Committee, International Guide Dog Federation delivered a Public Lecture on 'Starting and Developing a Guide Dog Organization' on 4 November 2014. Guide dogs are popularly used in developed countries to assist vision impaired and blind people. A total number of 125 members including visually impaired clients of LVPEI and their parents attended this lecture.



**Prof Padmaja Sankaridurg**, Program Leader, Brien Holden Vision Institute and The Vision Co-operative Research Centre, Sydney, Australia, delivered the Late Shri Pushkarlalji Tibrewala Public Lecture on 4 October 2014. She spoke on "Myopia - a growing problem worldwide" and described myopia as a growing epidemic leading to severe visual morbidity in many parts of the world, especially South-East Asia.



# Guest Lectures



**Mr Amod Shriram Gogate**  
Associate Director, Professional Affairs, Johnson & Johnson Vision Care, India; "Science & Technology behind Acuvue Lenses"; 10 June 2014.



**Prof Jill Keeffe**  
University of Melbourne, Department of Ophthalmology (Honorary Appointment); "Online course in Low Vision for Ophthalmologists"; 31 July 2014 and "Global issues in Low Vision Services"; 12 November 2014.



**Dr Irene H Maumenee**  
Research Professor of Ophthalmology, Pediatric Ophthalmology & Adult Strabismus Service, Director, Ocular Genetics Laboratory, Illinois Eye and Ear Infirmary, Chicago, USA; "Ocular Complications in Hereditary Connective Tissue Diseases"; 8 October 2014.



**Dr Gangadhar Sundar**  
Head, Orbit & Oculofacial Surgery, National University Hospital System, Singapore; "Thyroid Eye Disease - The past, present and the future"; 3 July 2014.



**Dr Edoardo Midena**  
Chairman and Professor of Ophthalmology and Visual Sciences, Department of Ophthalmology, University of Padova, Italy; "Subthreshold Micropulse Laser Treatment: Efficacy and Safety"; 1 August 2014.



**Dr Gregory Hopkins**  
Research clinical assistant professor at the Ohio State University, College of Optometry and a low vision optometrist at the Columbus Veteran Affairs Medical Center; "Evaluation of visual function in a pediatric low vision setting"; 10 October 2014.



**Dr David Maberley**  
Faculty and Head of Department, Ophthalmology and Visual Sciences, School of Medicine, University of British Columbia; "Pathologic Myopia"; 28 October 2014.



**Dr Milind Pande**  
Consultant Ophthalmic Surgeon & Medical Director, Vision Surgery & Research Centre, UK; "Refractive Cataract Surgery"; 24 January 2015.



**Dr Robert Folberg**  
Founding Dean and Professor of Biomedical Sciences, Pathology and Ophthalmology, Chicago, USA; "Virtual microscopy"; 25 February 2015.



**Dr Vivian Yin**  
Oculoplastic Surgeon, University of British Columbia, Vancouver; "Management of Difficult Ptosis"; 28 October 2014.



**Dr Richard W Hertle**  
Chief of Pediatric Ophthalmology and Director of the Children's Vision Center at Children's Hospital Medical Center of Akron in Ohio; "Strategies for the Management of Nystagmus"; 2 February 2015.



**Rajeev S Ramchandran**  
Assistant Professor in Ophthalmology in the University of Rochester School of Medicine and Dentistry's Flaum Eye Institute"; The University of Rochester-L V Prasad Eye Institute Partnership: Building on a 40-year Association"; 25 March 2015.



**Dr Michael T Trese**  
Beaumont School of Medicine and Wayne State University School of Medicine; "Pharmacologic Manipulations in Vitreous in Pediatric and other Retinal diseases"; 5 November 2014); and "Wide-Field Imaging in FEVR"; 11 November 2014.



**Dr Sriram Varahan**  
University of Kansas, USA; "From the good to the bad to the ugly: Rise of enterococcus beyond vancomycin resistance"; 11 February 2015.



**Michael W Stewart**  
Chair Ophthalmology at Mayo Clinic, Florida, USA; "Mayo Clinic History and Culture"; (through an audio call facility); 11 March 2015.



**Prof Usha Chakravarthy**  
Professor of Ophthalmology and Vision Sciences, Royal Victoria Hospital (The Belfast Trust) and Queens University of Belfast, Northern Ireland; "Geographic Atrophy in the Anti VEGF Era: Fact or Myth"; 21 November 2014.



**Prof Brien Holden**  
Founder and CEO, Brien Holden Vision Institute Vision Cooperative Research Centre, Sydney, New South Wales, Australia; "The Growing Impact of Myopia on Vision, Vision Impairment, Blindness and Society Can We Control It?"; 13 February 2015.



**Richard T Libby**  
Associate Professor, Department of Ophthalmology and Biomedical Genetics; "Developing Science Collaborations Between the University of Rochester and LVPEI"; 25 March 2015.



**Mr Ramam Atmakuri**  
Executive Vice Chair, LVPEI; "The Doctor as an Entrepreneur"; 14 January 2015.



**Prof Jacob Pe'er**  
Chairman, Department of Ophthalmology, Jonas Friedenwald Professor of Ophthalmic Research Hadassah-Hebrew University Medical Center, Jerusalem, Israel; "Diagnosis and treatment of vitreoretinal lymphoma"; 25 February 2015.



**Prof Adrian Glasser**  
Professor of Optometry and Vision Science, University of Houston College of Optometry, USA; "The loss of focusing ability of the eye with aging and how to correct it"; February 2015.

# Mark Nathaniel Thadikonda & Vijayamma Nannepaga Centre for Eye Care Education, Hyderabad, Trainees

## Ophthalmology

### Cornea & Anterior Segment

**Long Term Fellowships** (National-24 months; International 15 months)

Ratnesh Sharma, *Bharatpur, Rajasthan*  
Rashmi Shukla, *Mumbai, Maharashtra*  
Kenia Hemal Vinod, *Mumbai, Maharashtra*  
Vijaya Lakshmi, *Hyderabad, Telangana*  
Abhishek Hosting, *Thane, Maharashtra*  
Chirag Mittal, *Ghaziabad*

**Short Term Fellowships** (3 months)

Aparna Dornadula, *Hyderabad, Telangana*  
Purvasha Narang, *Mahatma Gandhi Institute of Medical Sciences, Sewagram, Wardha, Maharashtra*

Sheetal Mahuvakar, *Ahmedabad, Gujarat*

### Observerships

William Gregory, *New York, USA*  
Neha Kapur, *Defence Colony, New Delhi*  
M Eladly, *Hyderabad, Telangana*  
Gayathri Sreekanth, *Chennai, Tamil Nadu*  
Faraaz Khan, *North Carolina, USA*  
A V Reddy, *Anathapuram, Tamil Nadu*  
Ravinder Kumar M, *New Delhi*  
Sonal Vyas, *Sai Baba Eye Hospital, Raipur, Chhattisgarh*  
Gourav S Potnis, *Satara, Maharashtra*

### Glaucoma

**Long Term Fellowships** (National-24 months; International 15 months)

Siddharth Dikshit, *Dhanbad, Jharkhand*

**Short Term Fellowships** (3 months)

Samta Patel, *Sewa Sadan*  
Anita Mathews, *Trichur, Kerala*

### Observerships

Tina Damani, *Indore, Madhya Pradesh*  
Nursen Ariturk, *Samsun, Turkey*  
Geetha Parthiban, *Vasan Eye Care, Madurai, Tamil Nadu*  
Geetha Parthiban, *Vasan Eye Care, Madurai, Tamil Nadu*  
Suvida Mahar, *Bareilly, Uttar Pradesh*  
Dwarika Kakkar, *Kandivali, Mumbai, Maharashtra*

### Retina and Vitreous

**Long Term Fellowships** (National-24 months; International 15 months)

Navakanth Bandi, *Vijayawada, Andhra Pradesh*  
Devendra Phalak, *Bhusawal, Maharashtra*  
Anand Partani, *Nagpur, Maharashtra*  
Ashray Nayaka, *Bangalore, Karnataka*  
Rachita Sarangi, *Bangalore, Karnataka*  
Vaibhav Sethi, *New Delhi*

**Short Term Fellowships** (3 months)

Deepti Mehta, *Hyderabad, Telangana*  
Bhavna Jain, *Mumbai, Maharashtra*  
Punit Parasurampur, *Aligarh, Uttar Pradesh*

### Observerships

Emre Hekimoglu, *Ankara, Turkey*  
Rakesh Juneja, *Wardha, Maharashtra*  
Deepa Sharma, *Dr Shroff's Charity Eye Hospital, Delhi*  
Vasu Kumar, *CFS, New Delhi*  
Vinita Gupta, *AIIMS, Rishikesh, Uttarkhand*

### Pediatric Team Training

Hla Hla Win, *Myanmar*  
Thuzar Win, *Myanmar*

Nyi Nyi Zaw, *Myanmar*

Moe Moe Hlaing, *Mandalay, Myanmar*

Aye Aye Thin, *Myanmar*

Latt Latt, *Myanmar*

### Observerships

Raman Mittal, *Amritsar, Punjab*

### Oculoplasty

**Long Term Fellowships** (National-24 months; International 15 months)

Akshay Nair, *Mumbai, Maharashtra*  
Saurabh Kamal, *Faridabad, Haryana*

**Short Term Fellowships** (3 months)

Manpreet Singh, *Chandigarh, Punjab*  
Omotoye Olusoha Joseph, *Adu-Ekiti, Nigeria*  
Sowmya V, *Mangalore, Karnataka*  
Ann J K Ernukulam, *Kerala*  
Alen Helen Aidelekoehi, *Nigeria*  
Sonam Angmo Bodh, *Vikasपुरi, New Delhi*

### Observerships

Naja Chisty, *Colorado, USA*  
Rohan S Deshpande, *Nagpur, Maharashtra*  
Khaled Abuhaleeq, *Abu Dhabi, UAE*  
Saurabh Kamal, *Faridabad, Haryana*  
Shivani Bidaye, *Nagpur, Maharashtra*

### Comprehensive Ophthalmology

**Long Term Fellowships** (36 Months)

Asif Y Virani, *Maharashtra*  
Raghava J V, *Hyderabad, Telangana*  
Krishna Priya, *Hyderabad, Telangana*  
Vijay Chandnani, *Thane, Maharashtra*

### DNB

**Primary** (36 months)

Anupam Bagdi, *Akola, Maharashtra*  
Sane Sayali Sanjeev, *Ratnagiri, Maharashtra*  
Bhavik Panchal, *Mumbai, Maharashtra*

**Secondary** (24 months)

Nitin Ganesh, *New Delhi*  
Anuj Soni, *Mumbai, Maharashtra*  
Smitha BR, *Bangalore, Karnataka*  
Vivek Kumar Gupta, *Meerut, Uttar Pradesh*

### Retinopathy of Prematurity

Chhour Long, *Cambodia*  
Abu Masud Hashmee, *IEH, Bangladesh*  
Gargi Shah, *Aravind Eye Hospital, Madurai, Tamil Nadu*  
Vasu Kumar, *CFS, New Delhi*  
Vijaya Jojo, *Tata Main Hospital, Jamshedpur*

### Phacoemulsification Training

Renu Dubey, *Hyderabad, Telangana*  
Patrizio Magliozzi, *Napoli, Italy (ESASO)*

### SICS Training

Azu-Okeke June Chizoba, *Federal Teaching Hospital, Abakaliki, Ebonyi State, Nigeria*  
Dornadula Aparna, *Hyderabad, Telangana*  
Michael Birch, *Newcastle Eye Centre, Royal Victoria Infirmary, United Kingdom*  
Smrita Sandhu, *Sambhu Nath Pandit Hospital, Kolkata, West Bengal*

### ZEISS Training Program

Kalpna Reddy, *Regional Eye Hospital, Warangal, Telangana*  
Ashvini Kadhao, *RIO Guwahati, Assam*  
Sai Manjunatha, *SCB Medical College, Cuttack, Odisha*

Dharmil Doshi, *Government Medical College, Bhavnagar, Gujarat*

Sridhar K, *Regional Eye Hospital, Warangal, Telangana*

Shivam Madan, *Jawaharlal Nehru Medical College, Belgaum, Karnataka*

Keerthana Matladpudi, *Mediciti Institute of Medical Sciences, Ghanpur, Telangana*

Divya, *Mediciti Institute of Medical Sciences, Ghanpur, Telangana*

Prashant Jain, *Gandhi Eye Hospital, Aligarh, Uttar Pradesh*

Agarwal Shruthi Rajendra, *Gandhi Eye Hospital, Aligarh, Uttar Pradesh*

Anitha Bisht, *Global Hospital - Inst of Ophthalmology, Sirohi, Rajasthan*

Prathima Injamuri, *CAIMS, Karimnagar, Telangana*

Gautam Kumar, *PMCH, Patna, Bihar*

Garvita Singh, *PMCH, Patna, Bihar*

Neelam Sadhwani, *EYE Q - PNK, Lucknow, Uttar Pradesh*

Anik Das, *VSS Medical Collge and Hospital, Burla, Odisha*

Pavani, *JLN Hospital & Research Center, Bhilai, Chhattisgarh*

Subhadip Sarkar, *PMCH, Patna, Bihar*  
Aditya Maitray, *RIO, Guwahati, Assam*

Narasimha Rao, *SVS Medical College, Mahbubnagar, Telangana*

Divya B Sumandeep, *University, Baroda, Gujarat*

Sneha Amarnath, *Rangaraya Medical College, Kakinada, Andhra Pradesh*

Syed Musaab, *Owaisi Hospital & Research Centre, Hyderabad, Telangana*

Shruthi Taniparthi, *CAIMS, Karimnagar, Andhra Pradesh*

Prasanna Sundari, *Guntur Medical College, Guntur, Andhra Pradesh*

Anirudh Duhan, *GMCH, Guwahati, Assam*

Sunil Kumar, *MKCG Medical College, Berhampur, Odisha*

Jyothi Vempati, *MKCG Medical College, Berhampur, Odisha*

Nikhil Govindwar, *JPM Rotary Eye Hospital, Cuttack, Odisha*

Nirmal Jayadev, *MKCG Medical College, Berhampur, Odisha*

Sitharam, *MKCG Medical College, Berhampur, Odisha*

Amit Ranjan, *MKCG Medical College, Berhampur, Odisha*

Sudhansu, *MKCG Medical College, Berhampur, Odisha*

Radhakant Bhoi, *MKCG Medical College, Berhampur, Odisha*

Rohini M, *CAIMS, Karimnagar, Telangana*

Sangeeta Kalita, *RIO, Guwahati, Assam*

Nazima Nasreen, *RIO, Guwahati, Assam*

Abhishek Sahdeo, *JPM Rotary Eye Hospital, Cuttack, Odisha*

Rajendra Chaudhary, *RIO, Guwahati, Assam*

Sujit Addya, *RIO, Guwahati, Assam*  
Bhuvaneswari A, *Guntur Medical College, Guntur, Andhra Pradesh*

Khamer Jehan, *Guntur Medical College, Guntur, Andhra Pradesh*

Nitesh Jain, *JLN Hospital & Research Center, Bhilai, Chhattisgarh*

Vijay Katre, *JLN Hospital & Research Center, Bhilai, Chhattisgarh*  
Mayur Dutta Bharali, *RIO, Guwahati, Assam*  
Prasenjit Kalita, *RIO, Guwahati, Assam*

#### Clinical Rotations

William Potthoff, *Uni of Case Western, Cleveland, Ohio*  
Nishant Soni, *Maryland, USA*  
Morgan Renner, *Flaum Eye Institute University of Rochester Medical Center*  
Ayala Haedo, *Juan, Flaum Eye Institute University of Rochester Medical Center*  
Shipra Gupta, *Uni of Case Western, Cleveland, Ohio*

#### Medical Student Rotation

Sailaja Bondalapati, *UNC School of Medicine, North Carolina, USA*  
Anushree Sharma, *Rochester, USA*  
Elizabeth Zane, *New York, USA*  
Greg Hopkins, *Ohio, USA*  
Vijay Mistry, *Australia*  
Mahdi Abdulla, *The Royal Liverpool University Hospital, Liverpool, England*

## Optometry

#### BS Optometry

Abhilash Goud Marupally, *Medak, Telangana*  
Amarah Sharmeen, *Hyderabad, Telangana*  
Amulya Adike, *Warangal, Telangana*  
Aparna V, *Hyderabad, Telangana*  
Bhagyalakshmi Marella, *Visakhapatnam, Andhra Pradesh*  
Bikash Gyawali, *Seti, Nepal*  
Harish Sandugari, *Adilabad, Telangana*  
Mohammadd Fareed Khan, *West Godavari, Andhra Pradesh*  
Movva Srilatha, *Mudunoor, Andhra Pradesh*  
Rambabu Putta, *Nalgonda, Telangana*  
Sravanthi Narayandas, *Kurnool, Andhra Pradesh*  
Stevenson Asadi, *Nizamabad, Telangana*  
Tshering Dorjee, *Darjeeling, West Bengal*  
Vasavi Yaramalla, *Khammam, Telangana*  
Veeravalli Tabita Naomi, *Srikakulam, Andhra Pradesh*  
Vidhaey Bhatt Varadarajula, *Nizamabad, Telangana*  
Vinod Kumar Maddur, *Ranga Reddy, Telangana*

#### Fellowship in Optometry

**Cornea & Anterior Segment**  
Govinda Jha, *Mahottari, Nepal*  
Arwaka Nongpluh, *Meghalaya, Shillong*  
Shalini, *Ambala, Haryana*  
Rajesh Kumar, *Ramagarh, Jharkhand*  
Charvi Tushar Goradia, *Thane, Mumbai*  
Nending Pampi, *Meghalaya, Shillong*

#### Oculoplasty

Jaya Vasanthalin.J, *Vanagaran, Chennai*  
P Sathish Kumar, *Perambur, Chennai*

## Others

Rajita P, *BITS Pilani*  
Asmitha, *BITS Pilani*  
Nikitha CH, *BITS Pilani*  
Nafisa Poonawala, *BITS Pilani*  
K Sruthi Sree, *BITS Pilani*  
Samanviitha Reddy, *BITS Pilani*  
V Manoha Reddy, *BITS Pilani*  
T Srivardhan Reddy, *BITS Pilani*  
Aditya Rane, *BITS Pilani*  
Rajas Joshi, *BITS Pilani*  
Sreenhit, *BITS Pilani*  
Anil Vedala, *BITS Pilani*  
Poojit Sai Pavan Potluri, *BITS Pilani*  
K Kishore, *BITS Pilani*  
Senha, *BITS Pilani*  
Soungsothira Toch, *MIT, USA*

#### Pediatrics

Sony Lyngdoh, *Meghalaya, Shillong*  
Vivek Prakash Rathod, *Thane, Mumbai*  
Kwame Osei Okyere, *Ghana, Africa*

#### Posterior Segment

Bhupesh Kumar, *Raipur, Chhattisgarh*  
Sudipa Sahu, *Medinipur, West Bengal*  
Reena C Prajapati, *Bhilad, Gujarat*  
Sonia Sachdev, *Raipur, Chhattisgarh*  
Sumant Ningombam, *Meghalaya, Shillong*

#### Internship in Optometry

Vinod Kumar Maddur, *Ranga Reddy, Telangana*  
Vidhaey Bhatt Varadarajula, *Nizamabad, Telangana*  
Stevenson Asadi, *Nizamabad, Telangana*  
Bhagyalakshmi Marella, *Visakhapatnam, Andhra Pradesh*  
Harish Sandhugari, *Adilabad, Telangana*  
Tshering Dorjee, *Darjeeling*  
Rambabu Putta, *Nalgonda, Telangana*  
Vasavi Yaramalla, *Khammam, Telangana*  
Mohammadd Fareed Khan, *West Godavari, Andhra Pradesh*  
Amulya Adike, *Warangal, Telangana*  
Amarah Sharmeen, *Hyderabad, Telangana*  
Sravanthi Narayandas, *Kurnool, Andhra Pradesh*  
Vadlakonda Aparna, *Hyderabad, Telangana*  
Bikash Gyawali, *Seti, Nepal*  
Abhilash Goud Marupally, *Medak, Telangana*  
Veeravalli Tabita Naomi, *Srikakulam, Andhra Pradesh*  
Movva Srilatha, *Mudunoor, Andhra Pradesh*  
Keerthana K, *Calicut, Kerala*  
Rahul M, *Calicut, Kerala*  
Juvana Martin, *Calicut, Kerala*  
Amrutha A, *Calicut, Kerala*  
Saranya V K, *Calicut, Kerala*  
Rashad Ibn Muhammed, *Calicut, Kerala*  
Seethal Pauly, *Calicut, Kerala*  
Lyamol K S, *Calicut, Kerala*  
Benjamin P C, *Manipal, Karnataka*  
Fatima Mohamedabbas Rawji, *Manipal, Karnataka*  
Shipla Sara Joseph, *Manipal, Karnataka*  
Ukash Manger, *Manipal, Karnataka*  
Deepa Khadka, *Pune, Maharashtra*  
Rigalla Laikhuram, *Pune, Maharashtra*  
Ujjwal Chhabra, *Pune, Maharashtra*  
Gaurav Nahar, *Pune, Maharashtra*  
Nandi Limbu, *Durgapur, West Bengal*  
Asma Fathima, *Hyderabad, Telangana*  
Dhanyasree Nair, *Thrissur, Kerala*  
Sonam Tiwari, *Surajpur, Chattisgarh*  
Ruqia Rab, *Patna, Bihar*

#### Fellowship in Low Vision (3 Months)

Rasmi Shrestha, *Bhaktapur, Nepal*  
Jeet Kumar Tiwari, *Vadodara, Gujarat*  
G Savita, *Adilabad, Andhra Pradesh*  
Chukka Vani, *Visakhapatnam, Andhra Pradesh*

Sarah Ngugi, *Nigeria, Ghana*  
Jemmal, *Jimma Town, Ethiopia*  
Elizabeth Nyabongi Simeon Kikiyu, *Kenya*  
E Kirna Kumari, *Kothagudem, Khammam*  
Mahendra Singh, *Moradabad, Uttar Pradesh*  
Mahesh Kumar Dev, *Bhaktapur, Nepal*

#### Fellowship in Ocularistry

Jaya Vasanthalin J, *Chennai, Tamil Nadu*  
P Sathish Kumar, *Chennai, Tamil Nadu*

#### Observership in Low Vision & Rehabilitation

Farahana Ahmed, *Dhaka, Bangladesh*  
Amit Gupta, *Alumni (LVPEI)*  
Rajesh Kumar, *Guru Nanak Eye Centre, Delhi*

#### Observership in Optometry

Synroplin Syiemlieh, *Meghalaya*  
Agathanora Suna, *Meghalaya*  
Gareth Whatley, *Aston University*  
Rhys Dumont Jones, *Uni of Sheffield*  
Ferdinand Rappthap, *Meghalaya, Shillong*  
Khanda-oo Sukhlain, *Meghalaya, Shillong*  
Kitchwa Dkhar, *Meghalaya, Shillong*  
Lisamari Marak, *Meghalaya, Shillong*  
Persara R Lapang, *Meghalaya, Shillong*  
Techi James Tara, *Meghalaya, Shillong*  
Wewe U Khalo, *Meghalaya, Shillong*  
Dershni Shah, *Aston University, UK*  
Meerat Gohlar, *Aston University, UK*  
Randeep Bal, *Aston University, UK*  
Rupa Patel, *Aston University, UK*

#### Ophthalmic Nurses

Dorothy Fiadoyor (6 months training), *Korle bu, Ghana*  
P Hima Bindu, *Hyderabad, Telangana*  
Y Sai Durga, *Hyderabad, Telangana*  
E Rani, *Hyderabad, Telangana*  
Rebecca Rani, *Hyderabad, Telangana*  
C Hema latha, *Hyderabad, Telangana*  
V Shantha kumara, *Hyderabad, Telangana*  
H Parvathi, *Hyderabad, Telangana*  
Jogamaya Sahu, *Bhubaneswar, Odisha*  
Mamina Das, *Bhubaneswar, Odisha*  
Mamuni Pandit, *Bhubaneswar, Odisha*  
Rojalin Sahoo, *Bhubaneswar, Odisha*  
Sahin Aktari, *Bhubaneswar, Odisha*  
Smaranika Mohanta, *Bhubaneswar, Odisha*  
Suchismita Panda, *Bhubaneswar, Odisha*  
Sujata Rout, *Bhubaneswar, Odisha*  
Rupali, *Bhubaneswar, Odisha*  
P mamatha Priya, *Rajahmundry, Andhra Pradesh*  
B Lakshmi Prasanna, *Kandukur, Andhra Pradesh*  
P Subhashini, *Cherukupalli, Andhra Pradesh*  
M Kezia, *Vijayawada, Andhra Pradesh*

#### Support Staff

Astaram Bade, *Kathmandu, Nepal*  
M Siva Kumar, *Markapuram, Andhra Pradesh*

Shivam Gupta, *IIT Hyderabad*  
Virender Majarikar, *IIT Hyderabad*  
Vishakaha W, *IIT Hyderabad*  
S Manisha, *Hyderabad, Telegana*  
B Krishnaja, *Hyderabad, Telegana*  
E Prejawala, *Hyderabad, Telegana*  
Raghuveer Singh, *Ahmedabad, Gujarat*  
Pradeep Agarwal, *CL Gupta Eye Institute, Moradabad*  
V Niranjan, *Guntur, Andhra Pradesh*  
Om Bahadur Thapa, *Tilganga Institute of Ophthalmology (TIO), Nepal*  
Phuchiring Ruit Sherpa, *Tilganga Institute of Ophthalmology (TIO), Nepal*



### Vision Technician Course

Lokari Gulab, *Jainad, Adilabad, Telangana*  
Dudekula Rasool, *Bestawaripeta, Prakasam, AP*  
Bandi Venkata Sai Krishna, *Chimakurthy, Prakasam, AP*  
Sattnapalli Narendra, *Voletivaripalem, Prakasam, AP*  
Sudham Sandeep, *Ghanmukla, Karimnagar, Telangana*  
Desewad Rajanikanth, *Jail, Adilabad, Telangana*  
Mepipelli Bhagavandlli, *Jainath, Adilabad.*

Vipprla Rani, *Sankurathripadu, Guntur*  
Killada Sobha, *Chukkapeta, Vizayanagaram.*  
Didla Kumari, *Nidadavole, West Godavari.*  
Surisetty Sridevi, *Gajuwaka, Vizag*  
Shivamma Duggeppa, *Sridhagadda, Bellary*  
Nagaveni, *Sridhagadda, Bellary*  
Kokilligadda Akhil, *Hyderabad*  
K Balakrishna Reddy, *Polireddypalem, Prakasam*  
Rashmi Rekha Swain, *Rajgangpur, Odisha*  
Mangal Jyoti Rath, *Rajgangpur, Odisha*  
Sunita Barik, *Rajgangpur, Odisha*

Sumitra Swain, *Rajgangpur, Odisha*  
Pallabi Maharana, *Rajgangpur, Odisha*  
Sweta Singh, *Kanpur, Uttar Pradesh*  
Myathari Sowjanya, *Hyderabad, Telangana*  
Shrinivas Balasaheb Kale, *Wanjarkheda, Latur, Maharashtra*  
Mayur Nandkishor Menkundale, *Majage Nagar, Latur, Maharashtra*  
Ashish Kumar, *Punjab*

## Pathak Centre for Eye Care Education, Bhubaneswar Trainees

### Retina and Vitreous

**Long Term Fellowships (National-24 months; International 15 months)**  
Rohit Modi, *Maharashtra*

### Short Term Fellowships (3 months)

Bassey Fiebai, *Nigeria*  
Uche Nkechinyee, *Nigeria*  
Shivani Bidye, *Maharashtra*  
Sarvanan J, *Tamil Nadu*  
Devjeet Das, *Odisha*  
Gourav S potnis, *Maharashtra*

### Comprehensive Ophthalmology

**Long Term Fellowships (36 Months)**  
Abhishek Ranjan, *Bihar*

### Phacoemulsification Training

Archana Kishore Gore, *Maharashtra*  
Bhagyalakshmi K, *Karnataka*  
K Revathy, *Andhra Pradesh*  
Ravindra Ku Meena, *Jharkhand*

### SICS Training

V K Srivastav, *Uttar Pradesh*  
Vinay Bhusan Gupta, *Bihar*  
P K Sharma, *Jharkhand*

### Observerships

R R Mohanty, *Odisha*

### Internship in Optometry

Rohit Dakal, *Nepal*  
Dabetchira Rowyan, *Nepal*  
Krishna Banjade, *Nepal*  
Paromita Mukherjee, *West Bengal*  
Juhi Kumari, *West Bengal*  
Sony Singh, *Jharkhand*

## Pathak Centre for Eye Care Education, Visakhapatnam Trainees

### Ophthalmology

#### Comprehensive Ophthalmology (36 months)

Mrinmoy Dey, *Kolkata, West Bengal*

#### SICS Training

Grace Bunyan, *Visakhapatnam, Andhra Pradesh*  
MSS Keerthi, *West Godavari, Andhra Pradesh*

#### Observerships

Balu Garudadri, *Kurnool, Andhra Pradesh*  
Rajavardhan, *West Godavari, Andhra Pradesh*  
Sachendra Pathak, *Raipur, Chattisgarh*  
Kuleshwar Sahu, *Raipur, Chattisgarh*  
P Kiran Kumar Krishna, *Andhra Pradesh*

#### Internship in Optometry

Dhanyasree Nair, *Thrissur, Kerala*  
Sonam Tiwari, *Surajpur, Chattisgarh*  
Ruqia Rab, *Patna, Bihar*

## Ramayamma International Eye Bank, Trainees

### Eye Bank Technician (Duration: 3 months)

A Krishnaveni, *Hyderabad, Telangana*  
K Gangadhar, *Hyderabad, Telangana*  
B Lalesh, *Hyderabad, Telangana*  
Sandhya Rani Innam, *Hyderabad, Telangana*  
Adapa Nagendra Swamy, *Amalapuram, Andhra Pradesh*  
Rakesh Vasant Agre, *Mumbai, Maharashtra*  
Leting Robert Kimunyan, *Nairobi, Kenya*  
Ibin Joseph, *Angamaly, Kerala*  
K Lova Raju, *Rajahmundry, Andhra Pradesh*  
Sukadev Naik, *Bhubaneswar, Odisha*  
Shaik Sikhandar, *Anantapur, Andhra Pradesh*  
Loyford Mutuma, *Nairobi, Kenya*

### Eye Bank Technician (Refresher Course)

Benyam Mergia Hirpassa, *Nairobi, Kenya*  
Gorrila Ravi Kumar, *Kakinada, Andhra Pradesh*  
Prasanta Mondal, *Kolkata, West Bengal*  
Sarbani Pal Choudhury, *Kolkata, West Bengal*  
Nandip Mistry, *Mumbai, Maharashtra*  
Bharat Kumar Sharma, *Jaipur, Rajasthan*

### Eye Donation Counselors

Vaibhavi Waghare, *Pune, Maharashtra*  
Megha Mookim, *New Delhi*  
Om Prakash Sharma, *Jaipur, Rajasthan*  
Sijo Jose, *Angamaly, Kerala*  
Sujeet Panja, *Kolkata, West Bengal*  
Oinam Premjit Singh, *Longol, Manipur*

### Narmada Barik, Bhubaneswar, Odisha

Sumitra Raut, *Bhubaneswar, Odisha*  
Samadhan D Aher, *Thane, Maharashtra*  
Parmanand Sharma, *Patna, Bihar*  
Venkata Lakshmi, *Visakhapatnam, Andhra Pradesh*  
J Rajanna, *Hyderabad, Telangana*

### Eye Bank Observership

Aruna Gupta, *Surendranagar, Gujarat*  
Parmanand Sharma, *Patna, Bihar*  
Behzod O Tashbayev, *Erode, Tamilnadu*

## Ramachandra Pararajasegaram Community Eye Health Education Centre

Masters in Community Eye Health (MCEH)  
(Online courses run in collaboration with University of New South Wales, Australia)

### MCEH OPTM7001- Introduction to Community Eye Health

Marilyn Tan, *Australia*  
Marie Boshoff, *Australia*  
Sarita Manandhar, *Australia*  
Thomas Eze, *Nigeria*  
Zhiying Hu, *Australia*

### MCEH OPTM7003- Epidemiology of Eye Diseases

Adrian Rossiter, *Australia*  
Albert Lee, *Australia*  
Marilyn Tan, *Australia*  
Melinda Toomey, *Australia*  
Mi Choi, *Australia*  
Mohammed Alasmari, *Saudi Arabia*  
Norlaili Arif, *Australia*  
Sarita Manandhar, *Australia*  
Thomas Eze, *Nigeria*  
Tzu-Yang Liu, *Taiwan*  
Zhiying Hu, *Australia*

### MCEH OPTM7007- Research project as a part of MCEH

Muhammad Hafiz, *Malaysia*  
Edith Pola, *Zambia*

### MCEH OPTM7002-Community Health Needs Assessment

Edith Pola, *Kitwe, Zambia*

### MCEH OPTM7004- Advocacy and Education in Community Eye Health

Tzu-Yang Liu, *Taiwan*

**MCEH OPTM7005- Eye Health Economics & Sustainability**

Henry Tsui, *Australia*  
Marilyn Tan, *United Kingdom*  
Manon Baldasso, *Australia*  
Tzu-Yang Liu, *Taiwan*  
Pei Schier Tan, *Malaysia*

**Diploma in Community Eye Health (6 months)**

Ndayambaje Denys, *Kigali Health Institute, Rwanda*  
Khalid Ahmed, *Sudan*  
Narendra Raj Bist, *Geta Eye Hospital, Nepal*  
Sagar Ghimire, *Lumbini Eye Institute, Nepal*  
Ramesh Ghimire, *Bharatpur Eye Hospital, Nepal*

**Diploma in Eye Health Management (1 year)**

Kowsalya Paidi, *L V Prasad Eye Institute, Hyderabad, Telangana*  
Venkata Rao Sadu, *L V Prasad Eye Institute, Hyderabad, Telangana*

**MCEH OPTM7006- Eye Care Program Management**

Jing Ruan, *China*  
Manon Baldasso, *Australia*  
SunghoJoo, *South Korea*  
Pei Schier Tan, *Malaysia*

Smita Panda, *L V Prasad Eye Institute, Bhubaneswar, Odisha*  
Prashant Prahlad Naik, *Udaygiri Lions Eye Hospital, Udgir, Maharashtra*  
Ram Sharan, *Dr J L Rohatgi Memorial Eye Hospital, Kanpur, Uttar Pradesh*

**Certificate course in Programme Management and Evaluation (2 weeks)**

Suresh More, *Udaygiri Lions Eye Hospital, Latur, Maharashtra*  
Seema Mishra, *Khairabad Eye Hospital, Kanpur, Uttar Pradesh*

Mahinder Singh, *Jawaharlal, Shailendra Tiwari, Rohatgi Eye Hospital, Kanpur, Uttar Pradesh*  
Atul Kumar, *C.L. Gupta Eye Institute, Moradabad, Uttar Pradesh*  
Jyothi Arland, *AAEH, Bhopal, Madhya Pradesh*  
Meenakshi Paul, *Lions Eye Hospital, Alipurduar, West Bengal*  
Ravi Gautam, *Ripun Jaya Dahal, Bal Bahadur Kshetri, Tilganga Eye Centre, Kathmandu, Nepal*

## Workshops / Refresher courses / Short term courses

**Continuous Professional Development (CPD) program for Vision Technicians**

No of Courses / workshops held: 3  
Candidates attended: 120

**Refresher program of Operating Room Technicians and Nurses**

No of Courses / workshops held: 2  
Candidates attended: 62

**Orientation program for Ophthalmologists Posted at Secondary Centres**

No of Courses / workshops held: 2  
Candidates attended: 27

**Training program for Community Eye Health Field Workers**

No of Courses / workshops held: 4  
Candidates attended: 53

**Refresher course for Patient Counselors in Rural Eye Centres**

No of Courses / workshops held: 1  
Candidates attended: 30

## Dr Duc's LVPEI Experience



The passion with which Dr Hua Anh Duc, a resident of ophthalmology at Ho Chi Minh Eye Hospital - Vietnam, talks about Vitreous and Retina is just so palpable. It is this same passion and thirst to learn more about this subject that brought him to LVPEI Hyderabad inspite all his fears and anxieties about India. "Unfortunately my impression about India was not very positive, which I now feel was so wrong. But

Ask him what he likes best about LVPEI and prompt comes the reply, "The way the doctors at LVPEI treat the patients. It was nine in the night and Dr Subhadra Jalali had just finished examining all the patients for the day. When she was about to leave, she saw one of her patients who was struggling to feed milk to his small daughter who had Retinopathy of Prematurity (ROP). She immediately took the feeder from him and started feeding the child without bothering about the time."

I strongly believed that a Clinical Vitreoretinal Fellowship at LVPEI would help me a lot in treating patients more effectively in my country. Moreover, my fellow colleagues will also benefit from my experiences. This motivated me to apply for the 15 months long fellowship." says Dr Duc.

According to him the best part of the fellowship program is the way it is structured with the right mix of academic classes and real hands-on experience. Dr Duc adds, "The experience that I have gained here by examining patients with macular diseases, uvetis and choroidal neovascular membrane (CNVM) will help me a lot when I go back to my hospital. My seniors back home who had done their fellowship here had told me that it is very stressful with long working hours. But now I feel the long working hours are justified and you discover your true potential in such stressful conditions only."

## An Eventful Journey: Security Guard to Vision Centre Coordinator

Once a security guard at LVPEI, Mahesh Thogari from Kachapur village in Nizamabad district, today works as Vision Centre Coordinator at Sudhakar and Sreekanth Ravi Eye Centre in Markapuram, Prakasam District, Andhra Pradesh. He supervises Vision Technicians in seven Vision Centres located in that administrative cluster. Thanks to Mahesh's dedicated efforts, there has been a 340% increase in community screening this year compared to last year. He was also showcased as an employee extraordinaire by Dr G N Rao, Founder-Chair, LVPEI.

This eventful journey started in 2010. Noticing his acumen, his seniors encouraged him to undertake the one year long Vision Technician's course at LVPEI's Bausch and Lomb School of Optometry (BLSO). He excelled in the years that he worked there, examining patients and educating them about eye care, prescribing spectacles, referring them for cataract surgery if required, and completing all orders for spectacles in time. His hard work earned him a promotion as Vision Centre Coordinator in April 2014. Since then there has been no looking back for Mahesh and he continues to excel.





# Eye Research

## Professor Brien Holden Eye Research Centre

### The various components of the centre are:

- 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
- Srujana Innovation Centre

Almost 26 years ago, research at LVPEI started with major support from Professor Brien Holden of the University of New South Wales, Sydney, Australia, to the Hyderabad Eye Research Foundation (HERF), which is the research arm of this Institute. The Brien Holden Eye Research Centre or BHERC has now bloomed into six rms - namely basic research (including genomics, proteomics, biochemistry, cell and stem cell biology, microbiology), translational research (stem cell therapy, clinical research and trials), vision physics (vision psychophysics, adaptive optics and instrumentation), low vision research (devices, vision enhancement methods, quality of life analysis), public health research and technology and innovation (with a dedicated Innovation Centre called Srujana). Research at HERF is conducted by 20 basic researchers in collaboration with over 40 clinical colleagues, and is spread over the centres at Hyderabad, Bhubaneswar, Visakhapatnam and Vijayawada.



## Developments During the Year

Work is steadily progressing under the 'Centre of Excellence in Translational Research on Eye Diseases' project supported by the Department of Biotechnology, India. Under this umbrella, our colleagues have been involved in work in the areas of genetic epidemiology, retinopathy of prematurity, retinal disorders, and stem cell research and therapy, including the development and use of patient-specific induced pluripotent cells.

Likewise, the Antonio Champalimaud Foundation of Lisbon, Portugal, which offered us an initial 5-year support to establish the "Champalimaud Translational Centre for Eye Research, or C-TRACER, during 2008-2013, has now extended a Phase-II support for another 5 years (2014-2018). And the Wellcome Trust (UK), which had supported an earlier project of ours (on the use of a biocompatible and biodegradable copolymer scaffold for culturing limbal stem cells), under their "R & D for Affordable Health Care" programme, has now supported a second project on using a modified, reporter-tagged polymer to identify ocular infections. In addition, we have secured a grant from the Medical Research Council (MRC), UK for a collaborative project between us and the University of Sheffield, UK.

Our multidisciplinary clinical research is of international standards and is sponsored by national and international funding agencies and multinational companies from USA and Europe.

Our work in the area of public health is proceeding smoothly through the Gullapalli Pratibha Rao International Centre for the Advancement of Rural Eyecare (GPR-ICARE). Developments here are listed separately in a subsequent section. Research support in the area of public health has come to us from the Seva Foundation, USA, Christoffel Blindenmission, Germany; and the Lions Club International Foundation.

As we plan for the next 25 years, research at the Institute aims to be "relevant, rigorous and cutting edge", and hopes to become one of the most productive eye research groups in the world. Towards this aim, six initiatives are on the way. These are: Academy for Eye Care Education, Child Sight Institute, Institute for Eye Care for the Elderly, Centre for Ocular Regeneration (CORE), Institute for Eye Cancer, and Centre of Excellence in Eye Banking. Each one of these requires and involves a built-in programme of research.

Of particular importance and excitement is the start of SRUJANA (a Sanskrit term meaning creativity), our centre for innovation. This has come about through a bilateral programme between HERF and groups at the Massachusetts Institute of Technology (MIT), Cambridge, MA, USA. Local college students from different parts of India are invited to the Institute for a week long workshop to start innovating on products that can be made in order to answer some of the felt needs as well as novel ones that can be used effectively. These ideas have converged into a centre of innovation, termed Srujana, a centre that is already up and running. After the workshop, the student innovators engage with the mentors to bring the prototype to fruition.

## Support and Recognition

HERF, being recognized as a Scientific and Industrial Research Organization (SIRO) by the Government of India, applies for and receives many competitive research grants from Indian agencies as well as foreign ones. We have a total of 30 such grants being operated across our campuses, totalling an amount of Rs. 9.20 crores for the financial year 2014-15. Notable among these are the grants we have received from the Wellcome Trust, UK; the Champalimaud Foundation of Lisbon, Portugal; the National Institutes of Health, USA and the Grand Challenges of Canada. Collaborative research is also being done with colleagues in Australia, Brazil, Japan, Netherlands, Portugal, Sweden, Tunisia and USA. HERF is one of the four pillars of the multinational research and development group called Vision Cooperative Research Centre (operating from Sydney, Australia), and conducts research on its behalf on a series of clinical studies, such as antibacterial contact lenses and corneal onlays.

## Clinical Research

LVPEI's multidisciplinary clinical research is of international standards and is sponsored by Indian funding agencies and multinational companies from across the world. The group conducts not only intramural clinical research, but also participates in multicentre clinical trials. Each clinical research project and trial goes through a rigorous examination by an independent Institutional Review Board (IRB), for its scientific and ethical aspects and only those that are approved are taken up. A list of clinical research projects currently being conducted at HERF is given later in the section.

## Champalimaud Translational Centre

The Champalimaud Translational Centre for Eye Research was set up at LVPEI in January 2008. The Champalimaud Foundation, based in Lisbon, Portugal, was set up on the bequest of the late Portuguese entrepreneur and philanthropist, António de Sommer Champalimaud. The Foundation has a long-term commitment to support medical research, in particular neurology, oncology and the vision sciences. The Champalimaud Foundation and L V Prasad Eye Institute have agreed on the development of a vast program for translational research, through the establishment of the Champalimaud Translational Centre for Eye Research or C-TRACER. While the first phase of the grant ended in 2013, we have been able to obtain support for the second phase for the 5-year term ending in 2019.

*Research at C-TRACER-Phase 2 focuses on the following areas:*

- Stem cell biology and therapy in the retina
- Research and therapy in eye cancers and retinopathy of prematurity
- Translational research utilizing existing and novel clinical methodologies for furthering the knowledge of vision in ways that can be readily applied to patients
- Exchange programs involving scientists and clinicians chosen by LVPEI and the Champalimaud Foundation
- Introduction of capacity building programs for developing Lusophone countries such as Mozambique, Angola, Timor and others
- The organization of the Antonio Champalimaud Symposium on the last Sunday of January/first Sunday of February every year where leaders in ophthalmology from across the world, as well as distinguished scientists from India, are invited to lecture.

## The Eighth Annual Champalimaud Research Symposium

In the Eighth Annual Champalimaud Research Symposium, held on 1 February 2015, Prof Shigeru Kinoshita of Kyoto University delivered the Champalimaud lecture on “Cutting Edge in Corneal Regenerative Medicine”. In addition, there were invited talks by Prof Sheila MacNeil and Prof Stephen Rimmer, both from the University of Sheffield, UK; Prof Adrian Glasser, University of Houston, Texas, USA; Prof Denise deFreitas, University of Sao Paulo, Brazil and Prof K Vijay Raghavan, DBT, India. Dr Manju Sharma, former Secretary, DBT India, was invited as a special guest



to speak on the growth and development of translational research in India through the years. Dr Leonor Beleza, the President of the Champalimaud Foundation, was also present at the symposium.





# Hyderabad Eye Research Foundation

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Hon. Scientist, Dangoria Charitable Trust  
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Dr Alka Sharma

Joint Director, Department of Biotechnology  
New Delhi

# Other Developments

## Inter-Academy Capacity-Building Workshops on Stem Cells

Based on the initiative of The World Academy of Sciences (TWAS) for the advancement of science in developing countries, African Academy of Sciences (AAS), Nairobi, Kenya; Indian National Science Academy (INSA), New Delhi; Chinese Academy of Sciences (CAS), Beijing and the Academia Brasileira de Ciencias (ABC) Rio de Janeiro, have jointly put together a programme - "Training and Mentoring African Scientists in Stem Cell and Regenerative Medicine". Two such workshops were held in Nairobi, Kenya, during 10-14 November 2013 and 4-6 August 2014. Based on the deliberations, post this workshop, LVPEI mentored Dr Jafer Kedir Ababora, MD, ophthalmologist, from Jimma, Ethiopia from 1 January 2015 to 10 February 2015. He underwent training in biopsying limbal bits and culturing the limbal epithelial stem cells in the laboratory and also shadowing surgeons who were doing cultivated limbal epithelial transplantation. He also visited a secondary centre at Paloncha and the two associated primary centres.

## Eye Opener: College Students Learn about the Research Activities at LVPEI

Eye opener, an initiative by BHERC to expose students to the various scientific research activities taking place in LVPEI and thus motivating them to choose research as a career option, was organized on 1 November 2014. A tour of research facilities and series of lectures were conducted for the 60 participating students from various colleges.



Dr Gullapalli N Rao, Founder-Chair, LVPEI inaugurated the event and shared his vision on having world class research for eye care. Other scientists from LVPEI, D Balasubramanian, Virender Sangwan, Chitra Kannabiran, S Shivaji, Shrikant Bharadwaj and Subhabrata Chakrabarti also shared their thoughts with the students. The event which was coordinated by Dr Joveeta Joseph and Dr Inderjeet Kaur, was a great success with students expressing their desire to be part of such events in future too.



# Research Projects

## Kallam Anji Reddy Molecular Genetics Laboratory

- **Genomics of progression in age-related eye diseases: The Andhra Pradesh Eye Disease Study -III**  
Investigators: Subhabrata Chakrabarti, Rohit Khanna, Chandan S Appikonda, Ratnakar Tripathi, Srinivas Marmamula, Ashalatha, Seema Banerjee, Inderjeet Kaur, Gullapalli N Rao  
Support: Department of Biotechnology, India (Centre of Excellence grant)
- **Identification of new genes in primary congenital glaucoma by exome sequencing**  
Investigators: Subhabrata Chakrabarti, Meha Kabra, Anil K Mandal, Sirisha Senthil, Inderjeet Kaur, Michael Hauser, Rand Allingham  
Support: Indo-Australia Biotechnology Fund, Department of Biotechnology, India; National Eye Institute, NIH, USA
- **Functional genomics of primary open angle glaucoma**  
Investigators: Subhabrata Chakrabarti, Meha Kabra, Chandan S Appikonda, Anil K Mandal, Sirisha Senthil, Harsha BL Rao, Garudadri Chandra Sekhar, Muralidhara Ramappa, Virender S Sangwan, Rohit C Khanna, Inderjeet Kaur  
Support: Department of Biotechnology, India
- **Role of micro RNA (miRNA) in response to prostaglandin therapy in glaucoma**  
Investigators: Subhabrata Chakrabarti, Ratnakar Tripathi, Chandan S Appikonda, Harsha BL Rao, Garudadri Chandra Sekhar, Uday Kumar Adepalli, Inderjeet Kaur, Rohit C Khanna  
Support: Department of Biotechnology, India
- **Genetic and phenotypic comparison of primary congenital glaucoma in India and Brazil**  
Investigators: Subhabrata Chakrabarti, Anil K Mandal, Meha Kabra, Sirisha Senthil, Inderjeet Kaur, Ivan M Tavares<sup>1</sup>, Jose P C Vasconcellos<sup>2</sup>, Monica Mello<sup>2</sup>  
Support: Department of Science and Technology, India (Indo-Brazil collaborative program)
- **Central India Eye and Medical Diseases Study**  
Investigators: Subhabrata Chakrabarti, Jonas Jost<sup>3</sup>, Vinay Nangia<sup>4</sup>, Kollu N Rao, Meha Kabra, Inderjeet Kaur  
Support: University of Heidelberg, Germany
- **Genetic comparison of primary congenital glaucoma in India and Tunisia – understanding the possible founder effects**  
Investigators: Subhabrata Chakrabarti, Anil K Mandal, Meha Kabra, Inderjeet Kaur, Guemira Fethi<sup>5</sup>, E A Mhd Ali<sup>6</sup>, Douik Hayet<sup>6</sup>, G Abderraouf<sup>7</sup>, Harzallah Latifa<sup>7</sup>, Jihene Bouassida<sup>7</sup>  
Support: Department of Science and Technology, India (Indo-Tunisia collaborative program)
- **Genomics and proteomics of meibomian gland dysfunction**  
Investigators: Subhabrata Chakrabarti, Ling Lee, Pravin Krishna Vadavalli, Qian Garrett, Eric Papas  
Support: Brien Holden Vision Institute, Sydney

<sup>1</sup>Vision Institute, Federal University of Sao Paulo, Brazil • <sup>2</sup> Campinas State University, Sao Paulo, Brazil • <sup>3</sup> University of Heidelberg, Mannheim, Germany • <sup>4</sup> Suraj Eye Institute, Nagpur • <sup>5</sup> Institut Salah Azaiz, Tunis, Tunisia • <sup>6</sup> Service d'Ophthalmologie, Habib Thameur Hospital, Tunis, Tunisia • <sup>7</sup> Service de Biologie Clinique, Institut Salah Azaiz, Tunis, Tunisia

- **Identification of biomarkers for risk prediction and disease progression in Retinopathy of prematurity (ROP) a potentially blinding neonatal disorder**  
Investigators: Inderjeet Kaur, Sonika Rathi, Subhadra Jalali, T Ramakrishna Murthy<sup>2</sup>, Ramesha Kekunaya, Sonika Rathi, Shahana, Hameed, Subhabrata Chakrabarti, Ch Mohan Rao<sup>2</sup>  
Support: Department of Biotechnology, India
- **Identification of genomic regions for the detection and prediction of high risk tumors in uveal melanoma**  
Investigators: Inderjeet Kaur, Debodipta Das<sup>1</sup>, Swathi Kaliki, Mhd Javed Ali, Subhabrata Chakrabarti, Partha P Majumder<sup>1</sup>  
Support: National Institute of Biomedical Genomics, Kalyani, India
- **Genomics of familial exudative vitreoretinopathy**  
Investigators: Inderjeet Kaur, Ganeswar Rao Musada, Hameed, Subhadra Jalali, Anupama Reddy, Pramod Reddy, Subhabrata Chakrabarti  
Support: Department of Biotechnology, India
- **Identification of biomarkers in diabetic retinopathy**  
Investigators: Inderjeet Kaur, Syed Hameed, S Sahana, Sushma, Jay Chhablani, Annie Mathai, Rajeev R Pappuru, Mudit Tyagi, Partha P Majumder, Subhabrata Chakrabarti  
Support: Department of Biotechnology, India

<sup>1</sup> National Institute of Biomedical Genomics, Kalyani, West Bengal • <sup>2</sup> University of New South Wales, Sydney, Australia • <sup>3</sup> Centre for Cellular and Molecular Biology, Hyderabad, <sup>4</sup>Fernandez Hospital, Hyderabad

- **Genetics of Lebers Congenital Amaurosis (LCA)**  
Investigators: Chitra Kannabiran, Rachna Shukla, Subhadra Jalali  
Support: Champalimaud Foundation, Portugal, Department of Biotechnology, Govt of India
- **Identification of genes causing autosomal recessive retinitis pigmentosa**  
Investigators: Chitra Kannabiran, Sushma Mudigonda, Almas Shamailla, Subhadra Jalali  
Support: Champalimaud Foundation, Portugal, Department of Biotechnology, Govt of India
- **Molecular genetics of Stevens Johnson Syndrome**  
Investigators: Chitra Kannabiran, Almas Shamailla, Virender Sangwan, Sayan Basu, Varsha Rathi, Mayumi Ueta and co-workers (Kyoto Prefectural University, Japan)  
Support: Dept of Science and Technology under the India -Japan Collaborative S&T program; Hyderabad Eye Research Foundation.
- **Identification of Molecular Pathways in Ocular Tumors- Retinoblastoma and Sebaceous Gland Carcinomas of the Eyelids**  
Investigators: Chitra Kannabiran, Mamatha Reddy, Indumathi Mariappan, Swathi Kaliki, Dilip Mishra  
Support: HERF

## Biochemistry Laboratory

- **Analysis of the molecular properties of mutant human  $\beta$ -crystallins associated with congenital cataract**  
Investigators: D Balasubramanian, Venkata Pullarao Vendra, <sup>1</sup>Garima Agarwal, <sup>1</sup>Narayanaswamy Srinivasan, Sushil Chandani<sup>2</sup>, VenuTalla<sup>3</sup>  
Support: Department of Biotechnology, India
- **Structural integrity of the greek key supersecondary topology in the  $\beta$ -crystallins is vital for central lens transparency.**  
Investigators: Venkata Pulla Rao Vendra, Garima Agarwal<sup>1</sup>, Sushil Chandani<sup>2</sup>, Venu Talla<sup>3</sup>, Narayanaswamy Srinivasan<sup>1</sup> and Dorairajan Balasubramanian  
Support: Department of Biotechnology, India
- **Role of SLC4A11 during oxidative stress in corneal endothelial dystrophy.**  
Investigators: Sanhita Roy, Charanya Ramachandran  
Support: Hyderabad Eye Research Foundation

<sup>1</sup>Indian Institute of Science, Bangalore, <sup>2</sup>Novarus Discoveries, Hyderabad, India, <sup>3</sup>Bascom Palmer Eye Institute, Miami, FL, USA



## Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory

- **Development of a synthetic bio-degradable cell carrier membrane for the transplantation of cultured cells or freshly excised autologous tissue (limbal segments) for diseases of the cornea**  
Investigators: Virender S Sangwan, D Balasubramanian, Sheila Macneil<sup>1</sup>, Indumathi Mariappan, Charanya Ramachandran  
Support: Wellcome Trust, United Kingdom
- **Regenerative prostheses as alternative to donor corneas for transplantation to treat blindness.**  
Investigators: Virender S Sangwan, May Griffith, Dorairajan Balasubramanian, Sayan Basu, Indumathi Mariappan, Per Fagerholm, Jaywant Phopase, Urban Höglund, Jagrat "Lal" Dave.  
Support: DBT-Indo-Swedish grant
- **Exploring the application of pluripotent and adult stem cells in the treatment of retinal and corneal disorders.**  
Investigators: Indumathi Mariappan, Subhadra Jalali, Virender S Sangwan, Dorairajan Balasubramanian.  
Support: DBT-CoE
- **Proof-of-concept experimentation on gene correction in patient-specific induced pluripotent stem cells by genome editing approach.**  
Investigators: Indumathi Mariappan, Chitra Kannabiran, Dorairajan Balasubramanian.  
Support: DST-SERB
- **Generating corneal endothelium from the trabecular meshwork stem cells**  
Investigators: Charanya Ramachandran, D Balasubramanian, Virender S. Sangwan  
Support: Department of Science and Technology, India
- **Optimum concentration of mitomycin C to prevent fibrosis in Dacryocystorhinostomy**  
Investigators: Charanya Ramachandran, Javed Ali, Vinay Kumar  
Support: Hyderabad Eye Research Foundation
- **Use of silk from north-east India for the culture and transplantation of corneal endothelium**  
Investigators: Charanya Ramachandran, Biman Mandal (IIT-G)  
Support: Hyderabad Eye Research Foundation

<sup>1</sup> University of Sheffield, UK • <sup>2</sup> Linköping University, Sweden • <sup>3</sup> Adlego Biomedical, Sweden • <sup>4</sup> Polymer Technologies International (PTI), Gujarat.

## Vision Psychophysics Laboratories

- **The accommodative performance of the unioocular visual system**  
Investigators: Shrikant R Bharadwaj, Geeta Sravani  
Support: Department of Science & Technology, Government of India
- **Uncorrected astigmatism as a low-cost Strategy for improving unaided near vision after cataract surgery**  
Investigators: Shrikant R Bharadwaj, Veerendranath Pesala, Prashant Garg  
Support: Ramalingaswami Fellowship, Department of Biotechnology, India, Hyderabad Eye Research Foundation
- **Impact of refractive surgery for myopia on sensory visual performance.**  
Investigators: Shrikant Bharadwaj, Samrat Sarkar and Pravin Krishna Vaddavalli  
Support: Zeiss Meditec
- **Benefits of corneal transplantation in unilateral vision impairment**  
Investigators: Shrikant Bharadwaj, Praveen Kumar Bandela, Prem Nandhini Satgunam and Prashant Garg

\* City University, London, UK

## Jhaveri Microbiology Laboratory, LVPEI-KAR Campus, Hyderabad

- **Molecular Characterization and pathogenesis of Candida species isolated from eye infections**  
Investigators: Savitri Sharma, Joveeta Joseph, Kanchana Chatoth  
Support: Hyderabad Eye Research Foundation
- **Ocular Candida albicans: overcoming antibiotic resistance by identification of genes involved in biofilm formation and antagonizing biofilm formation**  
Investigators: Shivaji S, Savitri Sharma, Kanchana Chatoth, Ranjit Konduri

- **Role of myofibroblast/stem cells in corneal wound healing responses: Identifying and characterizing growth factor-receptor systems and herbal/stem cells treatments during development, homeostasis, and corneal wound healing**  
Investigators: Vivek Singh, Abhinav Reddy Kethiri, Meda Chandana Lakshmi Teja, Virender Sangwan  
Support: DST-SERB, India.
- **The alteration of immunological/adhesion properties of in vitro limbal explant culture: Implication on survival of limbal explant in patients with LSCD.**  
Investigators: Abhinav Reddy Kethiri, Vivek Singh, Virender Sangwan  
Support: Hyderabad Eye Research Foundation
- **Targeted specific immunological and stemness pathways of the human limbus from the cadaveric corneas vs. fresh limbal biopsies vs. cultured limbal explants**  
Investigators: Meda Chandana Lakshmi Teja, Vivek Singh, Sachin Shukla, Sayan Basu, Virender Sangwan  
Support: Hyderabad Eye Research Foundation.
- **The Biology of Simple limbal epithelial transplantation (SLET), a technique of in-vivo expansion of limbal stem cell for treatment of Limbal stem cell deficiency (LSCD).**  
Investigators: Vivek Singh, Gopal Pande (CCMB), Sayan Basu, Virender Sangwan  
Support: Hyderabad Eye Research Foundation
- **Autologous Ex-vivo Cultivated Limbal Stem Cell Transplantation for Treatment of Superficial Corneal Stromal Scars: A Pilot Study.**  
Investigators: Sayan Basu, Vivek Singh, Virender Sangwan  
Support: Hyderabad Eye Research Foundation
- **Use of lenticule caps in cross linking of thin corneas: A Pilot Study**  
Investigators: Pravin Krishna, C. Jagdeesh Reddy, Vivek Singh, Shreyas Ramamurthy  
Support: Hyderabad Eye Research Foundation
- **Mesenchymal Stem Cells for Limbal Stem Cell Deficiency and Vernal Keratoconjunctivitis: Identifying the mechanism of homing and immunomodulation of mesenchymal stem cells from corneal stroma, dental pulp, hair follicle, and umbilical cord**  
Investigators: Sachin Shukla, Virender Sangwan  
Support: Department of Science & Technology, (DST-NSPIRE) India

Support: Hyderabad Eye Research Foundation

- **Impact of higher order aberrations on stereo acuity in keratoconic eyes**  
Investigators: Shrikant Bharadwaj, Nilagiri Vinay Kumar and Parthasarathi Kalaiselvan  
Support: Ramalingaswami Fellowship, Department of Biotechnology
- **Efficacy of video game playing as a treatment for amblyopia**  
Investigators: L Srinivasa Varadharajan, Preeti Patil Chabblani  
Support: Hyderabad Eye Research Foundation
- **Effectiveness of conventional and novel treatments for amblyopia: Testing the evidence base**  
Investigators: L Srinivasa Varadharajan, Preeti Patil Chabblani, Catherine Suttle\*, Catherine Stewart\*  
Support: Hyderabad Eye Research Foundation  
\* City University of London, UK
- **Effect of auditory feedback on perceptual learning**  
Investigators: L Srinivasa Varadharajan, Vaishaali Gunalan  
Support: Hyderabad Eye Research Foundation

Support: Hyderabad Eye Research Foundation

- **Evaluation of the Clinical Impact of Molecular Diagnosis of Infective Endophthalmitis – HERF**  
Investigators: Joveeta Joseph, Savitri Sharma, Khemlal  
Support: Hyderabad Eye Research Foundation
- **Species-specific antifungal susceptibility of Fusarium and its correlation with treatment outcome in patients with keratitis**  
Investigators: Savitri Sharma, Kanchana Chatoth, Khemlal  
Support: Hyderabad Eye Research Foundation
- **Asia Cornea Society Infectious Keratitis (ACSIKS) Study**  
Investigators: Prashant Garg, Savitri Sharma  
Support: Asia Cornea Society, Singapore

- **The human eye surface microbiome: an insight into eye infections**  
Investigators: Shivaji S, Savitri Sharma, Joveeta Joseph, Prashant Garg, Annie Mathai, Somasheila Murthy  
Support: Hyderabad Eye Research Foundation
- **Epidemiology and clinico-microbiological profile of microbial keratitis caused by *Pythium insidiosum***  
Investigators: Savitri Sharma, Rashmi Mittal, Prashant Garg, Savitri Sharma, Khemlal  
Support: Hyderabad Eye Research Foundation
- **Molecular characterization of nonsporulating filamentous fungi isolated from microbial keratitis**  
Investigators: Savitri Sharma, S Shivaji, Manjulatha K  
Support: Hyderabad Eye Research Foundation
- **Development of a Rapid System for Diagnosing Corneal Infections**

## Ophthalmic Biophysics and Mechanobiology Laboratory

### Finite element modeling of the cornea and penetrating keratoplasty

Investigators: Ashutosh Richhariya, Geunyoung Yoon1, R. Peruchhio  
Support: Hyderabad Eye Research Foundation

- **Automated algorithm for blood vessel count and area measurement in 2-D choroidal scan images**  
Investigators: Ashutosh Richhariya, Sumohana Chanappaya2, Jay Chhablani  
Support: Hyderabad Eye Research Foundation
- **Infra-red Imaging System for Dry Eye and Ocular Surface examination**  
Investigators: Ashutosh Richhariya, Sumohana Chanappaya2, Siva Vanjari, Mukesh Taneja  
Support: Hyderabad Eye Research Foundation
- **Three dimensional imaging and reconstruction of facial and orbital region**  
Investigators: Ashutosh Richhariya, Soumya Jana2, Milind Naik  
Support: Hyderabad Eye Research Foundation

## Vision Rehabilitation Laboratory

- **Evaluation of image enhancement as a vision rehabilitation tool**  
Investigators: PremNandhini Satgunam, Rebecca Sumalini  
Support: Hyderabad Eye Research Foundation, DST-Fast Track grant
- **Validation of mechanized tangent screen kinetic perimeter for mapping visual fields**  
Investigators: PremNandhini Satgunam, Ashutosh Richhariya, SouravDatta  
Support: Hyderabad Eye Research Foundation
- **Development of Pediatric Perimeter**  
Investigators: PremNandhini Satgunam, SouravDatta, Dhruv Joshi, Karthik Reddy  
Support: Srujana Innovation Center, Hyderabad Eye Research Foundation

## Patient Reported Outcomes Research

1. **Glaucoma**  
Investigators: Vijaya K. Gothwal, Shailaja P. Reddy, Seelam Bharani, Deepak K. Bagga, Rebecca Sumalini, Chandra S. Garudadri, Harsha L. Rao, Sirisha Senthil, Vanita Pathak-Ray, Anil K. Mandal  
Support: Hyderabad Eye Research Foundation
2. **Keratoconus**  
Investigators: Vijaya K. Gothwal, Shailaja P. Reddy, Asma Fathima, Seelam Bharani, Rebecca Sumalini, Deepak K. Bagga, Preeji M. Sudharman  
Support: Hyderabad Eye Research Foundation
3. **Effectiveness of low vision rehabilitation (LVR) in children in India**  
Investigators: Vijaya K Gothwal, Rebecca Sumalini, Seelam Bharani  
Support: Hyderabad Eye Research Foundation
4. **Effectiveness of low vision rehabilitation (LVR) in adults in India**  
Investigators: Vijaya K Gothwal, Seelam Bharani, Rebecca Sumalini, Deepak K Bagga  
Support: Hyderabad Eye Research Foundation
5. **Health-related quality of life of adults with strabismus with or without amblyopia in India**

### using pathogen Responsive Polymers

Investigators: Prashant Garg, Sanhita Roy, Nagaveni Shivshetty  
Support: Welcome Trust-DBT

- **Role of Antimicrobial Peptides in *Pseudomonas keratitis* – A Translational Approach from Bench to Patients**  
Investigators: Sanhita Roy, Guru Vaidu  
Support: Department of Science and Technology, India
- **Determination of Pathogenicity and Innate Immune Responses during *Corynebacterium keratitis***  
Investigators: Sanhita Roy, Guru Vaidu  
Support: Department of Science and Technology, India
- **Restoring Accommodation/Accommodating Gel Project**  
Investigators: Virender S Sangwan, Mukesh Taneja, Pravin K Vaddavalli, Ashik Mohamed, Veerendranath Pesala, Arthur Ho, Jean-Marie Parel  
Support: Vision Cooperative Research Centre, Sydney, Australia
- **Fiber Cell Junctions in Normal and Cataractous Lenses**  
Investigators: Ashik Mohamed, D Balasubramanian, M Joseph Costello  
Support: National Institutes of Health (NIH)/ National Eye Institute
- **The effect of age on human natural lens function and properties**  
Investigators: Ashik Mohamed, Virender S Sangwan, Robert C Augusteyn  
Support: Hyderabad Eye Research Foundation
- **Optics of the Growing Crystalline Lens**  
Investigators: Virender S Sangwan, Mukesh Taneja, Ashik Mohamed, Arthur Ho, Jean-Marie Parel, Fabrice Manns  
Support: NIH/ National Eye Institute
- **Towards a true restoration of accommodation**  
Investigators: Virender S Sangwan, Mukesh Taneja, Ashik Mohamed, Jean-Marie Parel, Susana Marcos  
Support: Consejo Superior de Investigaciones Científicas (CSIC), Spain

- **Development of Hindi optotype charts**

Investigators: Lea Hyvarinen, PremNandhini Satgunam, L. Srinivasa Varadarajan, SouravDatta, SankaraNethralaya (collaborators: Krishna Kumar Ramani, DeepmalaMazumdar, Anuradha Sriram  
Support: Good-Lite Co., Hyderabad Eye Research Foundation

- **Critical brain changes – development and plasticity of multisensory functions to study the principles of age dependent learning plasticity in humans**  
Investigators: Ramesh Kekunnaya, Bhamy H. Shenoy, Pia Ley, Davide Bottari, Brigitte Röder  
Support: European Research Council (ERC) Grant

Investigators: Vijaya K Gothwal, Seelam Bharani, Ramesh Kekunnaya, Niranjan Pehera, Virender Sachdeva, Asa Narasaiah, Rekha Gunturu  
Support: Hyderabad Eye Research Foundation

6. **Health-related quality of life of children with intermittent exotropia and their parents**  
Investigators: Vijaya K Gothwal, Seelam Bharani, Ramesh Kekunnaya, Niranjan Pehera, Virender Sachdeva, Asa Narasaiah, Rekha Gunturu  
Support: Hyderabad Eye Research Foundation
7. **Diabetic Retinopathy**  
Investigators: Vijaya K Gothwal, Seelam Bharani, Divya Balakrishnan, Annie Mathai, Ajit Babu Majji, Jay Chhablani, Padmaja Kumari Rani, Mudit Tyagi  
Support: Hyderabad Eye Research Foundation
8. **Visual Functioning outcomes following Cataract Surgery: An Item Bank approach**  
Investigators: Vijaya K Gothwal, Seelam Bharani, Sirisha Senthil, Somasheila Murthy, Anil K Mandal, Virender Sangwan, Mukesh Taneja, Bhupesh Bagga, Jagadesh Reddy  
Support: Hyderabad Eye Research Foundation

9. **Health-related quality of life in children with eye diseases: Assessing the psychometric properties of PedsQL inventory and KIDSCREEN-52**  
**Investigators:** Vijaya K Gothwal, Shailaja P Reddy, Seelam Bharani, Deepak K Bagga, Rebecca Sumalini, Subhadra Jalali, Ramesh Kekakunya, Anil K Mandal, Santosh Honavar  
**Support:** Hyderabad Eye Research Foundation
10. **Stress, anxiety, quality of life and coping strategies of parents of children with disabilities**  
**Investigators:** Vijaya K Gothwal, Shailaja P Reddy, Seelam Bharani, Rebecca Sumalini, Sri Konkapaka  
**Support:** Hyderabad Eye Research Foundation
11. **Measuring participation and contextual factors in children with vision impairment**  
**Investigators:** Deepak K Bagga, Vijaya K Gothwal, Jill Keeffe<sup>1</sup>, Serge Resnikoff<sup>2</sup>  
**Support:** Vision CRC, Sydney, Australia.

<sup>1</sup>Centre for Eye Research Australia, Melbourne, Australia • <sup>2</sup>University of New South Wales, Sydney, Australia

## Basic Science Research, LVPEI Bhubaneswar

- **Targeting MYCN in Retinoblastoma**  
**Investigators:** Mamatha Reddy  
**Support:** Department of Biotechnology, India
- **Diagnostic potential of loop mediated isothermal amplification (LAMP) versus real-time PCR for ocular tuberculosis**  
**Investigators:** Soumyava Basu  
**Support:** Dept. of Science and Technology, India
- **Effect of Ultraviolet-A/Riboflavin Corneal Collagen Cross-linking on the Virulence Factor of Fungi.**  
**Investigators:** Sujata Das, Savitri Sharma, Srikant K Sahu  
**Support:** Department of Biotechnology, India
- **Immunopathogenesis of ocular tuberculosis**  
**Investigators:** Department of Biotechnology, India  
**Support:** Soumyava Basu, Satish Devdas, Savitri Sharma

<sup>2</sup>Institute of Life Sciences, Bhubaneswar

## Research Scholars

### BASIC RESEARCH

#### Kallam Anji Reddy Molecular Genetics Laboratory

Rachna Shukla, M Ganeswara Rao, Sonika Rathi, Meha Kabra, Almas Shamaila, S. Shahna, Syed Hameed, M V Sushma, Chandan S Appikonda, Satish Patnaik, Sushma

#### Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory

Shubha Tiwari, Savitri Maddileti, Praveen Joseph, Vinay Kumar, Bhuvanewari G. Abhinav Reddy, Nanda Sivasankar, ShrutiBandhopadhyay, Meda Chandana Teja

#### Research Biochemistry Laboratory

Venkata Pulla Rao, Srinivasu K, Ismail Khan

#### Jhaveri Microbiology Centre, KAR campus

Praveen Kumar Balne, Ranjith K, Kanchana N C, Guru Vaidu, D C Praneetha

#### LVPEI, Bhubaneswar

Manas Ranjan Barik, Swatisree Sradhanjali

#### Post-doctoral Research Associates

Sachin Shukla, Ratnakar Tripathi, Nagaveni Shivshetty, Ismail Khan, Vinay Tripathi

### CLINICAL RESEARCH

#### Kallam Anji Reddy Campus

Manager Operations: Sridevi Rayasam

Study Optometrists: Ms Bidula Das

Study Coordinators: Kiran Kunaparaju, Sateesh Kumar Kondla, Ms.

Archana Digumarti, Ms. Savitha Narayan, Luke Swaroop

Data Entry Operators: Rupasree Edelly, E. Shoba Laxmi.

#### Bhubaneswar Campus

Study Optometrists: Krushna Gopal Panda, Debasis Mohapatra

Clinical Research Coordinators: Bibhudatta Mohanty (Excel Life

Sciences), Preeti Semwal

Support Staff: Susant Kumar Sahoo

#### Optometrists Involved In Research

Praveen Bandela, Vinay Kumar, Swaathi Balaji, Veerendranath Pesala

Sourav Dutta, Viashaali Gunalan, Divya Jagadish, Unnisa Begum

Samrat Sarkar, Geetha Sravani, Deepak Bagga, Uday Kumar Addepalli

Ganesh babu Jonnadula, Seelam Bharani, Rebecca Sumalini



## Basic Research Projects

KAR Campus				
SI No	Title of the Project	Funding Agency	Principle Investigator	Grant period
1	To develop a rapid detection system for indentifying pathogens in the eye	Wellcome Trust	Dr Prashant Garg	2013-2016
2	C-Tracer	Champalimaud Foundation	Prof D Balasubramanian/ Dr Inderjeet Kaur/ Dr Indumathi Mariappan	2013-2017
3	Molecular epidemiology and Genomics complex and inherited eye diseases	Department of Biotechnology	Dr Subhabrata Chakrabarti	2013 -2018
4	Understanding the molecular basis of glaucomas	Department of Biotechnology	Dr Subhabrata Chakrabarti	2013-2016
5	Genetic epidemiology of ocular diseases: The Central India Eye and Medical Study	University of Heidelberg	Dr Subhabrata Chakrabarti	2012-2019
6	Gene discovery in primary congenital glaucoma	National Eye Institute, NIH	Dr Subhabrata Chakrabarti	2013-2016
7	Genetic Analysis of Retinal Dystrophies	Department of Biotechnology	Dr Chitra Kannabiran	2013 -2018
8	Identification of biomarkers for risk prediction and disease progression in diabetic retinopathy	Department of Biotechnology	Dr Inderjeet Kaur	2013 -2018
9	Identification of biomarkers for retinopathy of prematurity	Department of Biotechnology	Dr Inderjeet Kaur	2012 -2015
10	Exploring the application of pluripotent and adult cells in the treatment of retinal and corneal disorders	Department of Biotechnology	Dr Indumathi Mariappan	2013 -2018
11	Regenerative Protheses as Alternative to Donor Corneas for Transplantation to Treat Blindness	Department of Biotechnology	Dr Virender Sangwan	2013-2016
12	Generating corneal endothelium from the trabecular meshwork stem cells	Department of Science & Technology	Dr Charanya Ramachandran	2013-2016
13	To study the role of myofibroblast/stem cells in corneal wound healing response: indentifying and characterizing growth factor-receptor systems and herbal/stem cells treatments during development, homeostasis, and corneal wound healing” submitted under Start Up Research Grant(Young Scientists)	Department of Science & Technology	Dr Vivek Singh	2014-2017
14	Image enhancement technology for children with vision impairment an evaluation	Department of Science & Technology	Dr Premnandhini Satgunam	2014-2017
15	Role of antimicrobial peptides in pseudomonas keratitis-A translational approach from bench to patients	Department of Science & Technology	Dr Sanhita Roy	2014-2017
16	Utilizing the eye's optics to improve and predict vision of elderly humans	Department of Science & Technology	Dr Shrikant Bharadwaj	2014-2017
17	Mesenchymal Stem Cells for Limbal Stem Cell Deficiency and Vernal Keratoconjunctivitis: Identifying the mechanism of homing and immunomodulation of mesenchymal stem cells from corneal stroma, dental pulp, hair follicle, and umbilical cord	Department of Science & Technology	Dr Sachin Shukla	2014-2019
18	UK-India Centre for Advanced Technology for Minimising the indiscriminate use of Antibiotics (UKICAT-MA)	Department of Biotechnology	Dr Prashant Garg	2015-2018
19	Proof-of-concept experimentation on gene correction in iPSCs and creating disease models of zebra fish by genome editing methods	Department of Science & Technology	Dr Indumathi Mariappan	2015-2018
20	Perceptual consequences of degraded optics in Human vision	Department of Science & Technology	Dr Shrikant Bharadwaj	2015-2018
21	Role of Vitero-macular interface changes in the pathogenesis of AMD	Department of Science & Technology	Dr Jay Chhablani	2015-2018

Bhubaneswar Campus				
1	Diagnostic Potential of loop mediated isothermal amplification (LAMP) versus real time PCR for ocular tuberculosis	Department of Science & Technology	Dr Soumyava Basu	2012-2015
2	Immuno-pathogenesis of ocular tuberculosis	Department of Biotechnology	Dr Soumyava Basu	2013-2016
3	Effect of Ultraviolet-A/Riboflavin Corneal Collagen Cross linking on the virulence factor of fungi	Department of Biotechnology	Dr Sujata Das	2013-2015
4	Targeting MYCN in Retinoblastoma	Department of Biotechnology	Dr Mamatha Reddy	2014-2017

## Clinical Research

KAR Campus				
S. No	Name of the Project	Principal Investigator	Supported by	Duration
1	A Phase III, Multinational, Multicenter, Randomized, Double-Masked, Study Assessing the Safety and Efficacy of Intravitreal Injections of DE-109 (three doses) for the Treatment of active, Non-Infectious Uveitis of the Posterior Segment of the eye.	Dr Somasheila Murthy	Excel Life Sciences	2011 - 2016
2	To determine the precision, accuracy and repeatability of Netra-G in determining the myopic and astigmatic refractive error in large population of India.	Dr Srikanth Bharadwaj	Shanir Management	2014
3	A Clinical study to verify the performance of Macular segmentation Algorithm in normal subjects and in subjects with retinal diseases including but not limited to Age related Macular Degeneration , Diabetic Retinopathy and Vitreo retinal diseases.	Dr Rajeev Reddy	Carl Zeiss	2014 - 2015
4	A comparative study to assess the Retinal Nerve Fibre Layer thickness and optic nerve head thickness measurements of the cirrus model 4000 and primus 200	Dr Harsha	Carl Zeiss	2014 - 2015
5	A prospective comparative clinical study to evaluate the effectiveness of diabetic retinopathy screening model by remote image reading and reference standard screening in detecting diabetic retinopathy	Dr Rajeev Reddy	Carl Zeiss	2015
6	Study to observe the effectiveness and safety of LUCENTIS® through individualized patient treatment and associated outcomes	Dr Raja Narayanan	Novartis	2012 - 2017
7	Prospective, controlled, open label, bilateral, clinical trial to investigate daily, morning cleaning of silicone hydrogel contact lenses worn during extended wear as a strategy for reducing adverse events associated with contact lens wear in neophyte and experienced lens wear	Dr Varsha	vision crc	2012 - 2014
8	UNraveling nAMD real life Clinical management and Outcome with intraVitreAl Ranibizumab injection – A retrospective analysis.	Dr Mudit Tyagi	Novartis	2013 - 2014
9	Biomarkers of Diabetic Retinopathy Progression	Dr Rajeev Reddy	ABILI 4C	2012 - 2016
10	A Phase III, Multi-National, Multi-Center, Randomized, Masked, Controlled, Safety and Efficacy Study of a Fluocinolone Acetonide Intravitreal (FAI) Insert in Subjects with Chronic Non-Infectious Uveitis Affecting the Posterior Segment of the Eye.	Dr Annie Mathai	Excel Life Sciences	2012 - 2017
11	Clinical Efficacy of Intravitreal administration of Bevacizumab Combined with navigated Laser treatment in patients with Clinically Significant Macular Edema(CSME)	Dr Jay Chabblani	OD- OS	2012- 2016
12	A 12-month, phase III, randomized, double-masked, multicenter, active-controlled study to evaluate the efficacy and safety of two individualized regimens of 0.5 mg ranibizumab vs. vertoporfin PDT in patients with visual impairment due to choroidal neovascularization secondary to pathologic myopia (Brilliance)	Dr Raja Narayanan	Novartis	2015 - 2016
13	A prospective, single centre, open label, feasibility clinical evaluation of Epivision microkeratome with Nanotome head in correcting refractive errors II	Dr Pravin Krishna	Gebauer	2014 - 2016

## Clinical Research

GMRV Campus				
S. No	Name of the Project	Principal Investigator	Supported by	Duration
1	Randomized control trial comparing topical tacrolimus ointment with topical cyclosporine drops for moderate and severe vernal keratoconjunctivitis	Dr Merle Fernandes Dr I S Murthy	BHERC	2013 - 2015
2	A proof of concept , randomized, Multicenter, double masked study to evaluate the clinical efficacy and safety of FST-100 ophthalmic suspension in the treatment of Acute Adenoviral Conjunctivitis	Dr I S Murthy Dr Merle Fernandes	Foresight Biotherapeutics/ Ora, Inc, USA.	2012 - 2014
3	Combined Occlusion and Atropine Therapy for refractory/ residual amblyopia	Dr Virender Sachdeva Mrs Rekha Gunturu Dr Abhishek Bawdekar Dr Ramesh Kekunnaya	BHERC	2011 - 2014
4	Hyperhomocysteinemia survival analysis	Dr Virender Sachdeva Dr Avinash Pathangey Dr Ramesh Kekunnaya Dr Merle Fernandes Dr Virender Sachdeva	BHERC	2013 - 2016
5	Incidence of visual axis opacification in children 6-10 years undergoing cataract extraction (lens aspiration with PCIOL) with or without PPC+AV or Yag capsulotomy	Dr Virender Sachdeva Dr Ramesh Kekunnaya Dr Preeti Patil Chhablani	BHERC	2012 - 2014
6	Choroidal thickness in children with Amblyopia	Dr Jay Chhablani Dr Virender Sachdeva Dr Preeti Patil Chhablani Ramesh Kaunnaya	BHERC	2014 - 2016
7	Epidemiology and clinical features of limbal stem cell deficiency	Dr Jayesh Vazirani , Dr Shiva Kumar Wruity, Dr Ikeda Lal	BHERC	2015 - 2016
8	Retrospective analysis of cases of Mooren's ulcer.	Dr Jayesh Vazirani , Dr Shiva Kumar Wruity, Dr Ikeda Lal	BHERC	2015 - 2016
9	Retrospective analysis of cases of Pseudomonas keratitis.	Dr Jayesh Vazirani , Dr Shiva Kumar Wruity, Dr Ikeda Lal	BHERC	2015 - 2016
10	External Revision of Failed Primary External Dacryocystorhinostomy: A retrospective analysis of the causes of failure and outcomes of revision surgery at tertiary eye care centre	Samir Mahapatra, Ansuya Ganguly, Suryasnath Rath	BHERC	2015 - 2016



## Bhubaneswar Campus

S. No	Name of the Project	Principle Investigator	Supported by	Duration
1	A Phase III, Multinational, Multicenter, Randomized, Double-Masked, Study Assessing the Safety and Efficacy of Intravitreal Injections of DE-109 (three doses) for the Treatment of active, Non-Infectious Uveitis of the eye	Soumyava Basu	Santen Incorporated	2011 - 2016
2	Biomarkers of Diabetic Retinopathy Progression (C-Tracer)	Rajeev Reddy, Co-I: Tapas Ranjan Padhy, Soumayava Basu, Umesh Chandra Behera	Champalimaud Foundation (Grant)	2013 - 2017
3	LUMINOUS: Study to observe the effectiveness and safety of LUCENTIS® through individualized patient treatment and associated outcomes	Taraprasad Das	Novartis	2012 - 2017
4	A Multicentre, Randomized, Double-Masked, 3 Parallel Arms, Placebo Controlled Study to Assess the efficacy and Safety of NOVA22007 1MG/ML (Ciclosporin/Cyclosporine) Eye drops, Emulsion Administered in Paediatric patients with active severe Vernal Keratoconjunctivitis with Severe Keratitis.	Srikant Kumar Sahu	Novagali Pharma	2014 - 2016
6	A randomized double-masked, phase III study assessing ranibizumab Intravitreal injections versus sham control in patients with visual impairment due to macular edema (ME) secondary to central retinal vein occlusion (CRVO) [Camellia]	Umesh Chandra Behera	Novartis	2014 - 2016
7	A 12-month, phase III, randomized, double-masked, multicenter, active-controlled study to evaluate the efficacy and safety of two individualized regimens of 0.5 mg ranibizumab vs. verteporfin PDT in patients with visual impairment due to choroidal neovascularization secondary to pathologic myopia (Brilliance)	Umesh Chandra Behera	Novartis	2014 - 2016
8	A Phase III, Multi-National, Multi-Center, Randomized, Masked, Controlled, Safety and Efficacy Study of a Fluocinolone Acetonide Intravitreal (FAI) Insert in Subjects with Chronic Non-Infectious Uveitis Affecting the Posterior Segment of the Eye.	Soumayava Basu	pSivida Corp	2015 - 2018

# Publications

## April 2014 - March 2015

1. Abou Shousha M, Perez VL, Fraga Santini Canto AP, **Vaddavalli PK**, Sayyad FE, Cabot F, Feuer WJ, Wang J, Yoo SH. The use of Bowman's layer vertical topographic thickness map in the diagnosis of keratoconus. *Ophthalmology*. 2014 May;121(5):988-93. PubMed PMID: 24468653.
2. Adio AA, **Kekunnaya R**, Lingappa L. Michels syndrome: the first case report from India and review of literature. *Indian J Ophthalmol*. 2014 Sep; 62(9):954-8. PubMed PMID: 25370402.
3. Aggarwal RK, Dawar C, **Das S, Sharma S**. Draft Genome Sequences of Two Drug-Resistant Isolates of *Pseudomonas aeruginosa* Obtained from Keratitis Patients in India. *Genome Announc*. 2015 Jan 8; 3(1) 01404-14. PubMed PMID: 25573941.
4. **Ahmed F, Ali MJ**, Kondapi AK. Carboplatin loaded protein nanoparticles exhibit improve anti-proliferative activity in retinoblastoma cells. *Int J Biol Macromol* 2014 Sep;70:572-82. PubMed PMID: 25088498.
5. **Alam D, Padhi TR, Modi RR**. Comment on 'Oral sucrose and non-nutritive sucking goes some way to reducing pain during retinopathy of prematurity eye examinations'. *Acta Paediatr*. 2014 Dec; 103(12):513. PubMed PMID: 25169876.
6. Al-Dahmash SA, Shields CL, **Kaliki S**, Johnson T, Shields JA. Enhanced depth imaging optical coherence tomography of choroidal metastasis in 14 eyes. *Retina*. 2014 Aug;34(8):1588-93. PubMed PMID: 24743640.
7. **Ali MJ, Ayyar A, Motukupally SR, Sharma S, Naik MN**. Bacteremia during dacryocystorhinostomy: results of intra-operative blood cultures. *J Ophthalmic Inflamm Infect*. 2014 Oct 9; 4:27. PubMed PMID: 25320650.
8. **Ali MJ, Ayyar A, Naik MN**. Outcomes of rectangular 3-nip punctoplasty in acquired punctal stenosis: is there a need to be minimally invasive? *Eye (Lond)*. 2015 Apr; 29(4):515-8. PubMed PMID: 25613844.
9. **Ali MJ, Baig F, Lakshman M, Naik MN**. Biofilms and Physical Deposits on Nasolacrimal Silastic Stents Following Dacryocystorhinostomy: Is There a Difference Between Ocular and Nasal Segments? *Ophthal Plast Reconstr Surg*. 2015 February 11. [Epub ahead of print] PubMed PMID: 25675163.
10. **Ali MJ, Baig F, Lakshman M, Naik MN**. Electron microscopic features of nasal mucosa treated with topical and circumstomial injection of mitomycin C: mplications in dacryocystorhinostomy. *Ophthal Plast Reconstr Surg*. 2015 Mar-Apr; 31(2):103-7 PubMed PMID: 24896776.
11. **Ali MJ, Baig F, Lakshman M, Naik MN**. Scanning Electron Microscopic Features of Nasolacrimal Silastic Stents Retained for Prolong Durations Following Dacryocystorhinostomy. *Ophthal Plast Reconstr Surg*. 2015 Feb 13. [Epub ahead of print] PubMed PMID: 25689783.
12. **Ali MJ, Joshi SD, Naik MN, Honavar SG**. Clinical profile and management outcome of acute dacryocystitis: two decades of experience in a tertiary eye care center. *Semin Ophthalmol*. 2015 March; 30(2):118-23. PubMed PMID: 24171807.
13. **Ali MJ, Kamal S, Gupta A, Ali MH, Naik MN**. Simple vs complex congenital nasolacrimal duct obstructions: etiology, management and outcomes. *Int Forum Allergy Rhinol*. 2015 Feb; 5(2):174-7. PubMed PMID: 25367436
14. **Ali MJ, Kamal S, Vemuganti GK, Naik MN**. Glial heterotopia or ectopic brain masquerading as a dacryocystocele. *Ophthal Plast Reconstr Surg*. 2015 Mar-Apr; 31(2):e26-8. PubMed PMID: 24492734.
15. **Ali MJ, Mishra DK, Baig F, Lakshman M, Naik MN**. Punctal stenosis: histopathology, immunology, and electron microscopic features-a step toward unraveling the mysterious etiopathogenesis. *Ophthal Plast Reconstr Surg*. 2015 Mar-Apr; 31(2):98-102. PubMed PMID: 24892278
16. **Ali MJ, Mishra DK, Naik MN**. Histopathology and Immunophenotyping of Congenital Lacrimal (Anlage) Fistulae. *Ophthal Plast Reconstr Surg*. 2015 February 11. [Epub ahead of print] PubMed PMID: 25675171.
17. **Ali MJ, Murphy J, James CL, Wormald PJ**. Perineural squamous cell carcinoma infiltration of infraorbital nerve treated with endoscopic nerve resection up to foramen rotundum. *Clin Experiment Ophthalmol*. 2015 Apr;43(3):288-90. PubMed PMID: 25196391.
18. **Ali MJ, Naik MN, Kaliki S**. Punctal Keratinizing Cyst: A Clinicopathological Correlation of an Exceptionally Rare Lacrimal Disorder *Ophthal Plast Reconstr Surg*. 2015 May-Jun;31(3):e66-8. PubMed PMID: 24801259.
19. **Ali MJ, Nayak JV, Vaezaefshar R, Li G, Psaltis AJ**. Anatomic relationship of nasolacrimal duct and major lateral wall landmarks: cadaveric study with surgical implications. *Int Forum Allergy Rhinol*. 2014 Aug; 4(8):684-8. PubMed PMID: 24845875.
20. **Ali MJ, Psaltis AJ, Ali MH, Wormald PJ**. Endoscopic assessment of the dacryocystorhinostomy ostium after powered endoscopic surgery: behavior beyond 4 weeks. *Clin Experiment Ophthalmol*. 2015 Mar;43(2):152-5. PubMed PMID: 24995830.
21. **Ali MJ, Psaltis AJ, Bassiouni A, Wormald PJ**. Long-term outcomes in primary powered endoscopic dacryocystorhinostomy. *Br J Ophthalmol*. 2014 Dec; 98(12):1678-80. PubMed PMID: 24997177.
22. **Ali MJ, Psaltis AJ, Brunworth J, Naik MN, Wormald PJ**. Congenital dacryocele with large intranasal cyst: efficacy of cruceate marsupialization, adjunctive procedures, and outcomes. *Ophthal Plast Reconstr Surg*. 2014 Jul-Aug;30(4):346-51. PubMed PMID: 24918546.
23. **Ali MJ, Psaltis AJ, Murphy J, Wormald PJ**. Powered Endoscopic Dacryocystorhinostomy: A Decade of Experience. *Ophthal Plast Reconstr Surg*. 2015 May-Jun; 31(3):219-21. PubMed PMID: 25162414.
24. **Ali MJ, Psaltis AJ, Wormald PJ**. Long-term outcomes in revision powered endoscopic dacryocystorhinostomy. *Int Forum Allergy Rhinol*. 2014 Dec; 4(12):1016-9. PubMed PMID: 25175719.
25. **Ali MJ, Pujari A, Motukupally S, Naik MN**. *Kocuria rosea* Canalculitis: A Clinicomicrobiological Correlation. *Ophthal Plast Reconstr Surg*. 2014 Nov-Dec; 30(6):e139-40. PubMed PMID: 24833460.
26. **Ali MJ, Saha D, Mishra DK, Naik MN**. Canalculops Associated With Punctal Agenesis: A Clinicopathological Correlation and Review of Literature. *Ophthal Plast Reconstr Surg*. 2014 May 14. [Epub ahead of print] PubMed PMID: 24833444.
27. **Ali MJ, Saha D, Vemuganti GK, Naik MN**. Extragnathic sino-orbital myxoma: an extremely rare tumor at an even rarer site. *Ophthal Plast Reconstr Surg*. 2014 Nov-Dec; 30(6):e157-9. PubMed PMID: 24833439.
28. **Ali MJ**. Bilateral lacrimal mucocoeles in a setting of congenital arhinia. *Ophthal Plast Reconstr Surg*. 2014 Nov-Dec; 30(6):e167. PubMed PMID: 25275786.
29. **Ali MJ**. Dacryocystectomy: goals, indications, techniques and complications. *Ophthal Plast Reconstr Surg*. 2014 Nov-Dec;30(6):512-6. PubMed PMID: 25198393.
30. **Ali MJ**. Lacrimal disorders and surgery: historical perspectives. *Int Ophthalmol*. 2014 Dec; 34(6):1309-13. PubMed PMID: 25231209.
31. **Ambiya V, Kuppermann BD, Narayanan R**. Retinal astrocytic hamartoma in a patient with Leber's congenital amaurosis. *BMJ Case Rep*. 2015 Mar 3 ;2015. PubMed PMID: 25737223.
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33. **Arepalli S, Kaliki S, Shields CL**. Choroidal metastases: Origin, features, and therapy. *Indian J Ophthalmol*. 2015 Feb;63(2):122-7. PubMed PMID: 25827542.
34. **Badakere A, Patil-Chhablani P, Kekunnaya R, Warkad V, Sachdeva V**. Visual outcomes in pediatric optic neuritis. *Am J Ophthalmol*. 2015 Jan;159(1):210-1. PubMed PMID: 25488650
35. **Balne PK, Basu S, Sharma S**. Loop-Mediated Isothermal Amplification for Rapid Diagnosis of Tubercular Uveitis. *JAMA Ophthalmol*. 2015 Feb; 133(2):225-6. PubMed PMID: 25357004.
36. **Barteselli G, Chhablani J, Gomez ML, Doede AL, Dustin L, Kozak I, Bartsch DU, Azen SP, Letendre SL, Freeman WR**. Visual Function Assessment in Simulated Real-Life Situations in HIV-Infected Subjects. *PLoS One*. 2014 May 8;9(5):e97023. PubMed PMID: 24809827

37. Barteselli G, Gomez ML, Doede AL, **Chhablani J**, Gutstein W, Bartsch DU, Dustin L, Azen SP, Freeman WR. Visual function assessment in simulated real-life situations in patients with age-related macular degeneration compared to normal subjects. *Eye (Lond)*. 2014 Oct; 28(10):1231-8. PubMed PMID: 25081294
38. **Barteselli G**, Lee SN, El-Emam S, Hou H, Ma F, **Chhablani J**, Conner L, Cheng L, Bartsch DU, Freeman WR. Macular choroidal volume variations in highly myopic eyes with myopic traction maculopathy and choroidal neovascularization. *Retina*. 2014 May; 34(5):880-9. PubMed PMID: 24217703.
39. **Basu S, Sureka S, Shukla R, Sangwan V**. Boston type 1 based keratoprosthesis (Auro Kpro) and its modification (LVP Kpro) in chronic Stevens Johnson syndrome. *BMJ Case Rep*. 2014 Jan;2014. PubMed- PMID: 24663249
40. **Begum VU, Addepalli UK**, Yadav RK, Shankar K, **Senthil S, Garudadri CS, Rao HL**. Ganglion cell-inner plexiform layer thickness of high definition optical coherence tomography in perimetric and preperimetric glaucoma. *Invest Ophthalmol Vis Sci*. 2014 Jul 11;55(8):4768-75. PubMed PMID: 25015361.
41. **Behera UC, Modi RR**. Choriovitreous ingrowth of a large choroidal vessel after scatter retinal photocoagulation. *Oman J Ophthalmol*. 2015 Jan-Apr; 8(1):59-60. PubMed PMID: 25709279.
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## Text Book Chapters

1. Edward M Wilson, Muralidhar Ramappa, Rupal Trivedi. Pediatric cataract surgery: techniques, complications and management. Chapter 29; Multifocal Intraocular Lenses In Children. 2<sup>nd</sup> Ed. 2014. M Edward Wilson. Wolters Kluwer. PP 191-195.
2. Edward M Wilson, Muralidhar Ramappa, Rupal Trivedi. Pediatric cataract surgery: techniques, complications and management. Chapter 30; Astigmatism Correction In Children With Cataracts. 2<sup>nd</sup> Ed. 2014. M Edward Wilson. Wolters Kluwer. PP 196-201.
3. Edward M Wilson, Muralidhar Ramappa, Rupal Trivedi. Pediatric cataract surgery: techniques, complications and management. Chapter 32; Intraocular lens implantation in the absence of capsular support. 2<sup>nd</sup> Ed. 2014. M Edward Wilson. Wolters Kluwer. PP 211-219.
4. Muralidhar Ramappa, Rupal Trivedi. Cataract Surgery in Diseased Eyes. Chapter 26; Persistent Fetal vasculature (PFV): Clinical manifestation, surgical challenges and outcomes. 1<sup>st</sup> Ed. 2014. Arup Chakrabarti. Jaypee Brothers. PP 189-194.
5. Muralidhar Ramappa, Rupal Trivedi. Cataract Surgery in Diseased Eyes. Chapter 27; Cataract Surgery in Eyes Treated for Retinoblastoma: 1<sup>st</sup> Ed. 2014. Arup Chakrabarti. Jaypee Brothers. PP 196-99.
6. Muralidhar Ramappa, Rupal Trivedi. Cataract Surgery in Diseased Eyes. Chapter 28; Congenital Rubella syndrome (CRS): 1<sup>st</sup> Ed. 2014. Arup Chakrabarti. Jaypee Brothers. PP 199-205.

# Presentations

## Uday Kumar Addepalli

### National

- 6<sup>th</sup> National CME on Eye Banking, Optometry seminar, Eye Bank Association of India, Hyderabad, 26 September 2014; *Invited speaker*: Glaucoma detection - Role of Optometrist.
- Vision Science Conference 2014, Hyderabad Central University, 25 August 2014; *Invited speaker*: Utility of a vision technician in detecting glaucoma in south Indian rural population.

## Mohammad Javed Ali

### International

- ISDDE, Naples, September 2014; *Presentations*: 1) Punctal stenosis: Immunology and Electron microscopy 2) Lateral wall landmarks and NLD - A cadaveric study 3) Electron microscopy of nasal mucosa treated with MMC 4) Biofilm quantification on the NLD stents 5) Bony NLD injury following FESS 6) Endoscopic DCR and OSA - effects of CPAP. 7) Powered Endoscopic DCR - a decade of experience 8) Behaviours of DCR ostium beyond 4 weeks.
- CME, Muscat, Al Nadha Hospital, 2014; *Presentation*: What's new in Dacryology

### National

- CMRI CME, Kolkata, February 2015; *Presentation*: Recent Advances in lacrimal disorders.
- MAA FESS Conference, Hyderabad, February 2015; *Presentation*: Nuances of Endoscopic lacrimal approaches.
- AOI, Hyderabad, 2015; *Presentation*: Research Advances in Dacryology.
- APSOPRS, Delhi, September 2014; *Paper presentations*: 1) Quantification methods of Biofilms on NLD stents. 2) Evaluation of an Ostium and DOS scoring system. 3) Effects of CPAP on post-DCR patients. 4) DCR Ostium granulomas – How to manage?
- EYEPEP, Hyderabad, 2014; *Presentation*: Pediatric lacrimal disorders.

## D Balasubramanian

### International

- Association for Research in Vision and Ophthalmology (ARVO), Annual Meeting, Orlando, USA 4-8 May 2014; *Presentation*: Role of the Greek key motifs in Beta-Gamma crystallins in central lens transparency.

### National

- Indian Association of Cardiothoracic Surgeons, Annual meeting, Hyderabad, 20 February 2015; *Invited talk*: How to initiate research by clinicians.
- Annual festival, Biotechnology, Anna University, Chennai, 16 February 2015; *Invited talk*: Excitements in eye biology
- KIIT, Bhubaneswar, 5 February 2015; *Invited talk*: Cells and Stem Cells; theory and practice.
- Indian National Science Academy, Delhi, 11 June 2014; *Invited talk*: Communicating science to society and policy makers.

## Kishore Babu

### National

- Annual National Medical Records Conference MEDRECON, Tamil Nadu, 6-7 March 2015; *Paper presentation*: Medical Records: Role and Accreditation Process.

## Deepak K Bagga

### National

- Indian Eye Research Group (IERG) – ARVO (India Chapter 21<sup>st</sup> Annual Meeting) Hyderabad, 26-27 July 2014; *Poster presentation*: Educational levels in patients with Albinism. Co-authors: Vijaya K Gothwal and Adedayo O Adio.

## Bhupesh Bagga

### International

- American Academy of Ophthalmology, Chicago, 18-22 October 2014; Three assignments: 1) *Poster presentation*: Clinico microbiological profile of microbial keratitis in SJS 2) *Chief instructor*: instruction course for infectious keratitis: Make it Simple 3) *Video presentations*: a) Different techniques of DALK: Different Trouble Different Bubble b) Lid margin MMG for SJS ( it got selected as learning lounge video)

### National

- All India Ophthalmological Society, New Delhi, 2015; Two assignments 1) *Instruction Course*: Toric iol use for handling Astigmatism 2) *Video presentation*: Relief: Lid Margin MMG for SJS.

## Soumyava Basu

### National

- Invited to formulate guidelines for diagnosis and management of various forms of extrapulmonary TB, All-India Institute of Medical Sciences (AIIMS), New Delhi.

## Praveen K Balne

### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Presentation*: Epidemic Keratoconjunctivitis in India: Is it adenoviral or microsporidial? Co-authors: Sujata Das, Srikant K Sahu, Swapnil S Gavit, BNR Subudhi and Savitri Sharma

## Umesh C Behera

### National

- All India Ophthalmological Society, February 2015; Instruction course: Initiating ROP screening and overcoming practical challenges in Odisha, the LVP Bhubaneswar experience.
- Vitreo-retinasociety of India, Annual Meet, Agra Nov 2014; Poster presentation: Pulsating long posterior ciliary artery and the mysterious temporal macular dimple.

## Shrikant Bharadwaj

### International

- American Academy of Optometry 2014 meeting, Colorado, USA, 12-15 November 2014; Two engagements 1) *Poster presentation*: Changes in image quality of human eyes following refractive surgery. Co-authors: Sarkar S and Vaddavalli PK 2) *Paper presentation*: Accommodative performance of the unocular visual system. Co-author: Sravani G
- LVPEI-University of Rochester collaborative meeting, Rochester, USA, 9 May 2014; *Presentation*: Vision Science research @ LVPEI.
- Association for Research in Vision & Ophthalmology (ARVO) 2014 meeting, Florida, 4-8 May 2014; *Poster presentation*: Race-dependent variability in the defocus calibration of eccentric photo refraction. Co-authors: Sravani G and Kumar N V.
- LVPEI - BHVI strategy meeting, BHVI, Sydney, Australia, 22 July 2014; *Presentations*: 1) Educational and professional development of Optometry @ LVPEI. 2) Vision Science research @ LVPEI.

### National

- IV Annual Ramalingaswami Conclave, IISER, Bhubaneswar, 29 January 2015; *Presentation*: Neural control of focusing and eye alignment in the human eye.
- Bio-engineering seminar series, Indian Institute of Science, Bangalore, 12 January 2015; *Presentation*: Focusing behavior of the human eye.
- Vision Science conference, University of Hyderabad, 25 August 2014; *Presentation*: Focusing responses of the unocular visual system.
- India Vision Institute's Young Leaders Program, Hyderabad, 4 April 2014; *Presentations*: 1) Research opportunities for Optometry in India 2) Indian Optometry - A SWOT analysis.

## Seelam Bharani

### National

- Indian Eye Research Group (IERG) - ARVO, India Chapter, 21<sup>st</sup> Annual Meeting, Hyderabad, 26-27 July 2014; *Paper presentation*: Effectiveness of low vision rehabilitation on Quality of Life in Indian population.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 11 April 2014; *In house faculty*: Available options for patients with low vision.

## Subhabrata Chakrabarti

### International

- University of New South Wales, Sydney, Australia, 2 October 2014; *Presentation*: Authorship ethics: credit and credibility.
- International Symposium of Ophthalmology, Hong Kong, 27 September 2014; *Presentation*: Delineating the molecular mechanisms in primary congenital glaucoma from linkage mapping to next generation sequencing.
- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Presentations*: 1) Minimum Publishable Unit (MPU) and other deviations. 2) The LTBP2 gene exhibits a limited involvement in primary congenital glaucoma.

### National

- Asian Institute of Gastroenterology, International Symposium on Translational Research in Hepatobiliary and Pancreatic Diseases: Bench to Bedside Interface, Hyderabad, 28 February 2015; *Panelist*: Next Generation Sequencing Applications.
- Tech Mahindra, Hyderabad, 9 February 2015; *Invited panelist*: Knowledge Management Day.
- All India Ophthalmological Society (AIOS), Annual conference, Delhi 6 February 2015; Two engagements: 1) *Presentation*: Genomics of eye diseases in India over the last 2 decades. 2) *Panelist*: Audacious research goals in vision and ophthalmology.
- Genetics Symposium on Sanger to Next Generation Sequencing – The Genomics Era, Chennai, 30-31 January 2015; *Presentation*: Novel



Functional Mechanisms in Primary Congenital Glaucoma: A Journey Through Linkage, GWAS, ROH and NGS.

- International symposium Genomics in health and disease, 40<sup>th</sup> Annual Conference, Indian Society of Human Genetics, Mumbai, 29 January 2015; *Presentation*: A global perspective on the functional genomics of primary congenital glaucoma.
- IEC-ICSCRT workshop, Central University of Hyderabad, Hyderabad, 11 October 2014; *Presentation*: National and international collaborations: impact and perils.
- Indo-UK Conference and workshop on ophthalmic genetics and genetic counseling, Bangalore; *Presentation*: The genetic paradigm of Age related Macular Degeneration (AMD) and Glaucoma.

#### Sunita Chaurasia

##### National

- Indian Eye Research Group (IERG) - ARVO (India Chapter 21<sup>st</sup> Annual Meeting) Hyderabad, 26-27 July 2014; *Poster presentation*: Congenital Corneal Keloid (CCK) in a Pediatric Age Group: A Clinical and Histopathological Correlation after Successful Deep Anterior Lamellar Keratoplasty (DALK). Co-authors: Muralidhar Ramappa, Ashik Mohamed and Geeta Vemuganti.

#### Preeti Patil Chhablani

##### International

- American Association of Pediatric Ophthalmology and Strabismus (AAPOS), California, 2-6 April, 2014; *Poster presentation*: Surgery for Monocular Elevation Deficit (MED)- outcomes in a series of 31 cases.

##### National

- IERG 21<sup>st</sup> Annual Meeting, Hyderabad, 26-27 July; *Poster presentation*: Outcome of simultaneous inferior rectus recession with Knapp's procedure for Monocular Elevation Deficit (MED). Co-authors: Akshay Badakere and Ramesh Kekunnaya.

#### Beula Christy

##### International

- 11<sup>th</sup> International Conference, Low Vision, Melbourne, Australia, 31 March- 3 April 2014; *Presentations*: 1) Status of rehabilitation intervention in India, an overview of initiatives taken by Government and Non-Governmental service sectors. 2) A Randomized Trial of Methods of Low Vision Service Delivery

##### National

- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 11 April 2014; *In house faculty*: Integrating vision rehabilitation.

#### Taraprasad Das

##### International

- University of Kentucky, Lexington, May 2014; *Distinguished lecture series*: Automated detection of diabetic retinopathy.
- World Ophthalmology Congress, Tokyo, Japan, April 2014; *Presentations*: 1) Changing spectrum of endophthalmitis 2) (Co-author) Intravitreal ranibizumab versus bevacizumab in macular edema secondary to branch vein occlusion (BRANVO): A double masked randomized study.

##### National

- All India Ophthalmological Society, February 2015; *Invited speaker*: 1) Redefining evidences in management of acute endophthalmitis following cataract surgery. 2) India Diabetic Macular Edema Guidelines.
- Ophthalmologists Association, Hyderabad, January 2015; *Invited Speaker*: 1) Approach to Diabetic Macular Edema 2) India Diabetic Macular Edema Guidelines.
- WHO Regional meeting, Global action Plan (2014-2019), South East Asia Region, Hyderabad, November 2014; *Presentation*: Assessing magnitude and causes of visual impairment in South East Asia.
- 5<sup>th</sup> Association of Community Ophthalmologists of India (ACOIN), Kolkata, November 2014; *Invited Speaker*: Eye care for neglected population: global challenges and Indian solution.
- British Medical Journal, New Delhi, August 2014; *Master classes*: 1) Surgery in Macular Hole 2) Management of Endophthalmitis.
- Retina 2014 Conference, Vijayawada, August 2014; *Presentation*: Diabetic macular edema- paradigm to treatment guideline.
- VISION 2020, Annual Conference, LVPEI Hyderabad, July 2014; *Presentation*: IAPB South East Asia initiatives to achieve VISION 2020 goals
- ARVO-IC, 21<sup>st</sup> Annual IERG, Hyderabad, July 2014; *Presentation*: ARIES: The software for diabetic retinopathy screening

#### Vivek Dave

##### National

- Vitreoretinal society of India December 2014; Two engagements; 1) *Paper presentations*: a) Clinical presentations and outcomes of vitreous surgery in endophthalmitis related retinal detachments b)

Clinical presentations and outcomes of retinal detachment in retinitis pigmentosa c) Outcomes and management of ocular ischemic syndrome. 2) *Video presentation*: Sub-ilm hemorrhage in terson syndrome.

- Maharashtra Ophthalmological Conference 2014, 10-12 October 2014; Three engagements; 1) *Invited Faculty*: a) Fundus fluorescein angiogram: is it still relevant today b) Understanding the P value in biomedical statistics. 2) *Instruction course*: a) Eye in systemic disorders: clinical caveats b) Ophthalmic investigations: know the basics. 3) *Video presentation*: difficult intraocular foreign body scenarios
- Delhi Ophthalmological Society Annual Conference 2014, 11-13 April 2014; *Invited faculty*: 1) Basics of fundus fluorescein angiography 2) Autofluorescence in macular disorders.
- Bombay ophthalmologists association conference 2014; *Invited faculty*: 1) Fundus autofluorescence in retinal degenerations 2) Retinal stem cell therapy: where are we today 3) The eye in systemic disorders: the retinal perspective.

#### Siddharth Dikshit

##### National

- 73<sup>rd</sup> All India Ophthalmology Conference, New Delhi, 5 February 2015; *Chief Course Instructor*: Learning Statistics can be Fun. Co-Instructors: Vivek Pravin Dave, Mudit Tyagi & Sayan Basu.
- 24<sup>th</sup> Annual Conference, Glaucoma Society of India, Bhubaneswar, 12-14 September 2014; *Poster presentations*: 1) Glaucoma progression on 24-2 versus 10-2 Humphrey visual field examinations. 2) Impact of Cataract Surgery on Intraocular Pressure Control after Surgery for Congenital Glaucoma. 3) Outcomes of Ahmed glaucoma valve implantation in refractory pediatric glaucoma

#### Merle Fernandes

##### International

- Flaum Eye Institute, Rochester, NY, USA, March 2015; *Invited speaker*: "Allergic Conjunctivitis: Case based diagnosis and management" and "Microbial keratitis: diagnosis and management".
- Ocular Microbiology and Immunology Group Meeting, Chicago, USA, Oct 2014; *Free paper*: Extensively Drug Resistant Pseudomonas aeruginosa keratitis: Clinical features, risk factors and outcome. Co-authors: Divya Vira, Radhika Medikonda and Nagendra Kumar

#### Prashant Garg

##### International

- ICO Educators program, APAO meeting, Guangzhou, China, 31 March 2015; *Invited faculty*
- Indonesian Ophthalmology Society, Annual Meeting, Yogyakarta, Java, 30 October- 2 November 2014; *Invited speaker*: 1) Corticosteroids in the treatment of corneal ulcer 2) Evidence based management of fungal keratitis 3) Amniotic membrane v/s conjunctival autograft for Pterygium 4) Collagen cross linking for the treatment of corneal ulcer 5) Lamellar keratoplasty in the management of corneal ulcer 6) Lamellar keratoplasty – why, when and how
- Invited faculty at the annual meeting of AAO Chicago, 18 – 22 October 2014; Two engagements: 1) *Invited speaker*: Innovations in surgical management of corneal ulcer 2) *Faculty: Instruction courses* a) Surgical treatment of corneal ulcer b) Atypical keratitis c) Controversies' in the management of corneal ulcer.
- Research Group, Kroto Research Institute, University of Sheffield, UK, 23 June 2014; *Oral presentation*: Challenges in management of corneal ulcer in developing countries.
- Annual meeting of the American Society of Cataract and Refractive Surgery, Cornea day, Boston, 25 April 2014; *Invited speaker*: Atypical Mycobacterial keratitis.
- World Ophthalmology Congress, Tokyo, 1-5 April 2014; Four engagements: 1) *Speaker instruction course*: a) Topography and Tomography in the Diagnosis of Corneal Ectasia. Presentation title: Corneal topography. b) Endothelial Keratoplasty; Title Techniques of DSEK. 2) *Free paper* (co-author) - In Vitro Antimicrobial Efficacy of Riboflavin/UVB Irradiation Combination (365 nm) Against Protozoal, Nocardial and Fungal Isolates: a Potential New Treatment for Infectious Keratitis 3) *Invited speaker symposium*: a) JCAHPO session – Expanding human capacity for eye care in developing countries. Title: Training and Incorporation of Mid Level Personnel in Eye Care Team - L V Prasad Eye Institute Model b) IACHPO session – developing an allied health personnel curriculum and training program using internet resources; Title: A comprehensive curriculum: essential for allied health. 4) *Chair & Speaker for invited symposium*: Exemplary residency programs in developing countries: good teaching in difficult conditions; Title: Exemplary teaching in India: The experience of LVPEI.

## National

- Update on Corneal infection, Lucknow Ophthalmic Society, 30 March 2015; *Invited speaker*: Understanding management of corneal ulcer - a case based discussion
- All India Ophthalmological Society- ARC committee- IOC, Delhi, 4 February 2015; *Coordinator and faculty*: Teachers in Ophthalmology; Title: Curriculum.
- All India Ophthalmological Society Conference, New Delhi, 4-8 Feb 2015; *Invited faculty Postgraduate session*: Management of corneal ulcer.
- Indian Cornea Society "Karacon 14", Annual meeting, Chennai, 19-21 December 2014; Two engagements: 1) Invited speaker 2) Session Moderator: corneal ulcer.
- Phaco development Program, LVPEI, 16 November 2014; *Presentation*: Management of posterior capsular rent.
- Eye bank association of India, Annual Meeting, Hyderabad Ophthalmic Society, 27 September 2014; *Presentations*: 1) Therapeutic keratoplasty 2) Worst scenario IOLs 3) Management of Keratoconus
- C L Gupta eye institute, 5<sup>th</sup> Anniversary, Moradabad, 21 September 2014; Two engagements: 1) *Key note lecture*: Acanthamoeba and microsporidial keratitis 2) *Invited speaker*: a) Evaluation of a case of corneal ulcer b) Pearls in the management of corneal ulcer – a case based discussion
- Kerala Corneal club, Calicut, 31 August 2014; *Invited speaker*: 1) Improving outcome of management of corneal ulcer 2) Antibiotic resistance a growing concern.
- CME of Baroda Ophthalmic Society, Baroda, 16-17 August 2014; *Invited speaker*: 1) Keratoplasty – the best teacher 2) Pearls in the management of Corneal ulcer – case based discussion 3) Glimpse on unusual corneal infections – Microsporidia, Nocardia, atypical mycobacteria 4) Advances in the management of fungal keratitis 5) Steroids in Corneal Ulcer 6) Bacterial Resistance a growing concern 7) DSEK: Lessons learnt in last five years.
- Tamil Nadu Ophthalmic Society, Annual Meeting, Coimbatore, 8-10 August 2014; *Invited speaker*: 1) Innovations in surgical management of corneal ulcer 2) Phacoemulsification combined with keratoplasty 3) Complications of collagen cross linking 4) How to choose antibiotics.
- British Medical Journal Master classes, Kolkata, 5-6 August 2014; *Invited speaker*: 1) Corneal ulcer – Therapeutic options 2) Important aspects of endophthalmitis 3) Antibiotic resistance.

## Vijaya K Gothwal

### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Presentation*: Congenital glaucoma surgery improves caregivers' quality of life.
- 11<sup>th</sup> International Conference, Low Vision, Melbourne, Australia, 31 March- 3 April 2014; *Presentations*: 1) Effectiveness of Low Vision Rehabilitation in Children. 2) Quality of life assessment in children with low vision.

### National

- 8<sup>th</sup> Annual Champalimaud Research Symposium, LVPEI, Hyderabad, 1 February 2015; *Invited speaker*: Patient-reported outcomes in Ophthalmology at the LVPEI: An Update
- Scientific meeting organized by LVPEI for Education Day, International Convention Centre, Hyderabad, 29-30 November 2014; *Invited speaker and moderator*: Patient-reported outcomes in Ophthalmology
- Eye-PEP, LVPEI, Hyderabad, 23-28 November 2014; *Invited speaker*: What is low vision and how do we deal with it?
- 32<sup>nd</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 12 September 2014; *Course co-ordinator and In-House faculty*: Clinical Challenges.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 11 April 2014; *Course co-coordinator and in house faculty*: Clinical Challenges.

## Syed Hameed

### National

- Indian Eye Research Group ARVO-India Chapter (IERG-ARVO-IC), Hyderabad, 26-27 July 2014; *Presentation*: Comparative analysis of Corneal dermoid with Limbal dermoid. Co-authors: Jagdeesh C Reddy, Nazmul Hussain, Vivek Singh andINDERJEET KAUR.

## Subhadra Jalali

### International

- 52<sup>nd</sup> ISCEV annual symposium. Boston, 20-24 July 2014; *Presentations*: 1) Unusual Patterned Pigmentary Retinopathy. Co-author- Padhi T 2) ERG changes in Ocular Ischemic syndrome. Co-authors: Myneni J, Sahu C and Reddy D.
- Bostons' Childrens' Hospital, 16 July 2014; Two engagements: 1) *Invited guest speaker*: Our Experiences in the Diagnosis and management of Neonatal Retinal diseases 2) *Video presentation*: 10000<sup>th</sup> Preterm baby at LVPEI

- Consultative workshop on Guidelines development on ROP by Ministry of Health, Philippines, Manila, 9 May 2014; *Invited expert by WHO*: 1) Lessons for ROP guidelines learnt from Crib to journals over 15 years 2) Born too soon- But who stole my vision, an appeal from a ROP blind girl.
- Philippine Academy of Ophthalmology, Manila, 8 May 2014; Two engagements 1) *Invited guest speaker*: Neonatal Retinal diseases: spectrum and management 2) *Video presentation*: Our 10,000<sup>th</sup> ROP baby.
- 34<sup>th</sup> World Ophthalmology Congress, Symposium on Advanced diagnosis and treatment of paediatric ophthalmology, Tokyo, 2-6 April 2014; Two engagements: 1) *Invited speaker*: Diagnosis and surgical management of Neonatal Retinal diseases 2) *Presentations*: a) Central retinal vein obstruction during laser for ROP, secondary to protein C deficiency and its response to Bevacizumab injection: Indian Twin Cities ROP study report. Co-authors: Phalak D, Rani PK and Balakrishnan D b) The Indian Twin Cities ROP study (ITCROPS) program: Lessons learnt over 15 years of journey from the journals to the cribs. Co-authors: Rani PK, Balakrishnan D and Padhi TR

### National

- Advanced Eye centre, Conference on Current trends and controversies in the management of Retinal diseases and uveitis and PGI alumni meet, PGIMER, Chandigarh, 14-15 March 2015; *Invited speaker* 1) Use of gas and regular silicone oil versus high density silicone oil in inferior RD and PVR 2) Challenging cases of advanced Coats' disease and complication of intravitreal Bevacizumab in ROP.
- QDJT (Queen Elizabeth Diamond Jubilee Trust), Telangana State Sensitization Meeting, Health department, Telangana, 12 Feb 2015; *Invited speaker*: ROP epidemic and its control strategies.
- Endophthalmitis at 73<sup>rd</sup> AIOC at New Delhi, 5-8 Feb 2015; Three engagements 1) *Invited speaker*: a) Instruction course on Endophthalmitis : Neonatal endophthalmitis: protocols and presentations b) Instruction course on Paediatric retinal diseases: preferred practice patterns: Preferred practice patterns in FEVR: PROTECT-FEVR c) Instruction course on ROP screening and management: All you wanted to know about ROP d) Breakfast session on Electrophysiology: Multifocal ERG e) Instruction course on Electrophysiology made simple: Variations and Interpretation of ERG. 2) *Poster presentation (co-author)*: Non-ROP neonatal diseases. 3) *Video presentation (co-author)*: Honey I repaired the staphyloma and removed the suture too!
- Cenetenary Birthday celebration of Mahamana Pandit Madan Mohan Malviyaji (Jayanti), Banaras Hindu University Old students' association, Hyderabad (BHUOSA), Hyderabad, 11 January 2015; *Invited speaker and chief guest*: A Peep into your own eyes: a world of VISION for all
- Retina meeting, Hyderabad ophthalmologists' association, Hyderabad, 4 January 2015; *Invited speaker*: 1) Neonatal retinal vascular diseases. 2) Retinal infections in newborns.
- ROP workshop, Priyamvada Birla Aravind Eye hospital, Kolkata, 14 Dec 2014; *Invited speaker*: 1) ROP Overview 2) Visual rehabilitation in an ROP child.
- NEOCON 2014, Patna, 4-7 Dec 2014; Two engagements: 1) *Invited speaker*: a) Basic Ventilation and CPAP hands-on workshop: Neonatologists- Ophthalmologists in ROP partnership. b) Postgraduate CME session: ROP screening. 2) *Poster Presentation*: Ten year trends in ROP in the Indian Twin Cities. Co-authors: Balakrishnan D and Rani PK.
- CME on ROP, Divyadrishti Eye Hospital, Patna, 6 Dec 2014; *Invited speaker*: Neonatologists- Ophthalmologists in ROP partnership
- Inauguration of GeetaSri Retina Institute, Dhanbhad, Jarkhand, 16 Nov 2014; *Invited speaker*: ROP lessons of 15 years of ITCROPS: Implications for ROP blindness in Dhanbhad and Jharkhand.
- Paediatric surgical hands-on workshop, LVPEI, Hyderabad, 5-8 Nov 2014; Two engagements: 1) *Presentations*: Of Coats' disease and others. Co-presenter- Khodani M J 2) *Video presentation*: Surgical challenges: rhegmatogenous retinal detachments in ROP
- 6<sup>th</sup> anniversary celebrations of Radhatri Nethralaya, RADNET 2014, Chennai, 14 Sept; *Invited speaker*: 1) Paediatric Vascular Retinopathies. 2) Retinal Vasculitis: Pathophysiology
- IERG-ARVO-India Chapter, 21<sup>st</sup> annual meeting, Hyderabad, 26-27 July 2014; *Presentations (co-author)*: 1) Complement Components Play a Major Role in Pathogenesis of Retinopathy of Prematurity 2) A Randomized, Double Masked, Controlled Study of the Efficacy and Safety of Intravitreal Ranibizumab versus Bevacizumab in Macular Edema Secondary to Branch Retinal Vein Occlusion 3) Molecular genetic analysis of Zinc Finger protein-408 (ZNF 408) Gene in Indian families with FEVR patients 4) Screening for variations in the RPE65 gene in Indian Leber's congenital amaurosis (LCA) patients 5) Molecular genetic analysis of Leber's congenital amaurosis (LCA) in Indian patients 6) Keratoplasty in a case of familial exudative vitreo retinopathy

- Monthly meeting of MARCH, Hyderabad, 22 June 2014; *Invited speaker*: Care of Eyes of Newborns and Preterm babies.
- CME on ROP by Krishna District branch of IAP, Vijaywada, 8 June 2014; *Invited guest speaker*: Systemic factors in ROP management.

#### Joveeta Joseph

##### National

- 18<sup>th</sup> Annual conference of Indian Association of Medical Microbiologists, AP Chapter, Khammam, Telangana, 7-8 February, 2015. *Paper Presentation*: *Corynebacterium* spp. endophthalmitis: Clinicomicrobiologic profile and outcomes.

#### Meha Kabra

##### National

- Indian Eye Research Group ARVO-India Chapter (IERG-ARVO-IC), Hyderabad, 26-27 July 2014; *Presentation*: Genetic screening of two candidate genes in a large cohort of non-CYP1B1 Primary Congenital Glaucoma cases from India. Co-authors: Sriparna Ganguly, Anil K Mandal, Sirisha Senthil, Inderjeet Kaur, Partha P Majumder and Subhadrata Chakrabarti.

#### Swathi Kaliki

##### International

- World Ophthalmology Congress, Tokyo, Japan, 2-6 April 2014; Four assignments: 1) *Session chair*: Session Chair: Eyelid tumor improvements in therapies 2) *Invited speaker*: a) Neoadjuvant systemic chemotherapy in the management of sebaceous carcinoma of the eyelid. b) Conjunctival malignancy: Topical chemotherapy and surgical developments 3) *Paper presentation (co-author)*: a) Retinal vasoproliferative tumors in 6 patients with Neurofibromatosis type 1. b) Enhanced depth imaging optical coherence tomography of circumscribed choroidal hemangioma 3) Intravitreal melphalan for persistent or recurrent retinoblastoma vitreous seeds provides control with minimal complication 4) Poster presentation (co-author): American Joint Committee on Cancer (AJCC) cancer staging of posterior uveal melanoma is predictive of prognosis: Analysis of 7731 patients.

##### National

- 73<sup>rd</sup> Annual conference, All India Ophthalmological Society, 5-8 February 2015; Two assignments: 1) *Paper presentation*: a) The Correlation of International Classification of Retinoblastoma and High-Risk Retinoblastoma b) (Co-author) Retinoblastoma in Adults: A Study of 6 Cases c) Neoadjuvant Systemic Chemotherapy in the Management of Eyelid Sebaceous Gland Carcinoma. 2) *Poster presentation* (co-author): Influence of Human Immunodeficiency Virus on Ocular Surface Squamous Neoplasia: A Case-Control Study
- APSOPRS-OPAI, New Delhi, 28-30 September 2014; *Paper presentations* (co-author): 1) Influence of human immunodeficiency virus on ocular surface squamous neoplasia: A case-control study 2) Ocular surface squamous neoplasia as the presenting feature of human immunodeficiency virus.

#### Chitra Kannabiran

##### International

- World Ophthalmology Congress, Tokyo, 1-4 April 2014; *Course Faculty*: Genetics in Ophthalmology.

##### National

- AIOC 2015, New Delhi, 5-8 February 2015; *Speaker in Instruction Course*: Genetics in Ophthalmology.

#### Inderjeet Kaur

##### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Poster presentation*: Are Genetic Signatures in Age-Related Macular Degeneration Suggestive of Disease Progression? Co-authors: Jay K Chhablani, Raja Narayanan, Rajeev R Pappuru, Annie Mathai and Subhadrata Chakrabarti.

##### National

- Aravind Medical Research Foundation, Annual Proteomics Workshop, Madurai, October 2014; *Invited Talk*: Biomarkers for retinopathy of prematurity.

#### Ramesh Kekunnaya

##### International

- AAPOS, Annual Meeting, New Orleans, 25-29 March 2015; Three engagements: 1) *Video symposium*- Strabismus and pediatric cataract interesting videos. 2) *Invited speaker*- Pediatric cataract related issues in INDIA. 3) *Poster presentation*- Amyloidosis in Congenital Brown Syndrome.
- 2014 AAO Annual meeting, Chicago, 18-21 October; Two engagements 1) *Senior Course Instructor* a) Nightmares in Pediatric Cataract Surgery b) What's new in Pediatric Ophthalmology and Strabismus 2) *Video Presentation*: Management of strabismus in Duane Syndrome.

- ISO 2014, Hongkong Meeting, 26-28 Sep 2014; *Invited talk / Chairperson* for WSPOS Symposium: Myopic Strabismus Fixus: View across Indo - China Border.
- 2014 WSPOS, Pediatric Ophthalmology Subspecialty day, Excel, London, 12 Sep 2014; *Organizer / Chair / Lecture*: Changing trends in the management of esotropic Duane Syndrome.
- Wolverhampton Eye Infirmary NHS, Wolverhampton, England, 10 September 2014; *Invited lecture*: Sudden Onset Diplopia.
- Cambridge Ophthalmological Symposium, UK, 3-5 September 2014; *Invited speaker*: Pattern strabismus needs special surgical attention.
- British Journal of Ophthalmology (BJO), 4 August 2014; *Article published*: Silicone band loop myopexy in the treatment of myopic strabismus fixus: surgical outcome of a novel modification.
- AAPOS Annual meeting, California, 2-6 April 2014, Four engagements: 1) *Poster Presentations*: a) Comparative study of Superior Rectus Transposition vs Medial Rectus Recession in esotropic Duane syndrome; b) (co-author) Combined Occlusion and Atropine Therapy (COAT) for children with Refractory /residual Amblyopia: a pilot study c) (co-author) The aphakia versus pseudophakia dilemma in pediatric cataracts: A Developing world perspective d) surgical outcome of MED 2) *Course Instructor*: a) Senior Instructor: Management of strabismus in Duane syndrome: Surgeon's perspective b) Co-instructor: What's new in Pediatric Ophthalmology in 2014? 3) *Video presentation*: a) Surgical management of Duane's syndrome b) (Co-author) Video Demonstrations of Signs, Diseases, and Complex Surgical Procedures in Pediatric Ophthalmology and Strabismus. 4) *Professional Education Committee*.
- 2014 Leonard Apt meeting, advanced topics in pediatric ophthalmology and strabismus, Stein Eye Institute, Los Angeles, 1 April; *Invited speaker*- Face Value!- Sensitive periods for the functional specialization of the neural system for human face processing after congenital cataract surgery.

##### National

- Pediatric Ophthalmology and Oculoplasty CME, Rajmundry, 18 Feb 2015; Three engagements: 1) *Invited lectures*- Evaluation of a strabismus case 2) *Panelist*- What's new in childhood Strabismus? 3) *Chairperson*
- 2015 AIOS, annual meeting, New Delhi; 5-8 Feb; *IC Speaker*: 1) Strabismus management in Duane syndrome 2) Papilledema 3) Strabismus surgery under topical anesthesia.
- Pediatric Ophthalmology and Oculoplasty CME "Pot-Pourri 2015", AEHI, Mumbai, 18 January 2015; Two engagements: 1) *Invited faculty*: Nystagmus: How to treat? 2) *Key note lecture*: Masquerades in Strabismus.
- Eye On the Future: 2014, Pediatric Ophthalmology and Strabismus CME, KVC, LVPEI, 28 December 2014; *Course instructor*- 1) Complex Strabismus 2) Oblique Muscle surgery 3) Pediatric Cataract Surgery in special situations
- 2014 MOSAC, Annual meeting, Maharashtra, 6-7 Dec; Two engagements: 1) *Key note lecture*: Evaluation of a strabismus case 2) *Invited lecture*: Video gallery of strabismus surgery.
- Education and Alumni Day, Hyderabad, 29-30 Nov 2014; Two engagements 1) *Coordinator*: Alumni program 2) *Symposium Organizer*: Pediatric Ophthalmology and Oculoplasty Alumni.
- 2014 EYE PEP, LVPEI, Hyderabad, 26 Nov; *Lectures for postgraduates*: 1) Esotropia 2) Complex strabismus 3) Disc edema.
- KOS 2014, Annual Meeting, Mysore, 7-9 November; *Invited lectures* 1) Strabismus evaluation 2) Infantile cataract surgery 3) Ocular motility confusion for general ophthalmologists.
- Ophthalmofusion - Pediatric and Neuroophthalmology, Oculoplasty, CME, Coimbatore, 1-2 Nov 2014; Three engagements 1) *Invited Lectures*: Evaluation of disc edema 2) *Panelist*: Traumatic Optic Neuropathy & IOL implantation in infants 3) *Chairperson*: Recent trends in the strabismus management in DRS.
- APOS 2014, Annual meeting, Rajamundry. 10-12 Oct; *Invited speaker*: 1) IOL implantation in children 2) Strabismus management in Duane syndrome.
- Dr P Ranga Reddy Annual CME, Sarojini Devi Eye Hospital, 18 Sep 2014; *Invited speaker*: Exotropia.
- Congress on Optic nerve, Vasculature and Emerging treatment, Bangalore, 9-10 August 2014; Two engagements 1) *Invited speaker*: a) Acute loss of vision with optic disc edema b) Interpretation of visual field in Neuroophthalmology c) Steroids Vs No steroids in Traumatic Optic Neuropathy 2) *Panelist for case discussion*.
- BOS Annual Meeting 2014, Bangalore, 28-29 June; Two engagements: 1) *Invited faculty/Chairman Session*: a) Pearls on 4<sup>th</sup> and 6<sup>th</sup> nerve palsy b) Evaluation of Nystagmus c) Basics of Squint surgery 2) *Panel Discussions*: a) Neuroophthalmology b) Squint cases.



## Rohit C Khanna

### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; Two Engagements: 1) *Oral presentation*: Glaucoma-Associated Long-term Mortality in a Rural Cohort from India: The Andhra Pradesh Eye Disease Study (APEDS). 2) *Oral presentation* : Prevalence, Causes, and Risk Factors for Blindness and Visual Impairment in Three Tribal Areas of Andhra Pradesh.

### National

- 8<sup>th</sup> Annual Champalimaud Research Symposium, Hyderabad, 1 February 2015; *Invited Speaker*: Update on the Community Eye Health Research at LVPEI.
- 5<sup>th</sup> Annual conference of Association of Community Ophthalmologists of India (ACOIN) in Kolkata, 2 October-2 November 2014; *Invited speaker*: Andhra Pradesh Eye Disease Study: Journey from I to III.
- 21<sup>st</sup> IERG Annual meeting, LVPEI, Hyderabad, 26-27 July 2014; *Invited speaker*: Andhra Pradesh Eye Disease Study: A Journey from I to III

## K Anil Kumar

### International

- Workshop on Operations Management for Effective Eye Care Delivery, The Right to Sight, Visakhapatnam, 3-4 May 2014. *Presentation*: Current challenges for HR - competition, non-availability of skilled clinical and managerial HR.

## G Laxmi

### National

- 32<sup>nd</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 12 September 2014; *In-House faculty*.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 11 April 2014; *In-House faculty*.

## Srinivas Marmamula

### International

- Asia-ARVO (Association for Research in Vision and Ophthalmology), Yokohama, Japan, 16-19 February 2015; *Poster presentation*: Utilization of eye care services among those with unilateral visual impairment in Rural South India - Andhra Pradesh Eye Disease Study (APEDS). He received a travel grant to attend this meeting.

### National

- 8<sup>th</sup> Annual Champalimaud Research Symposium, Hyderabad, 1 February 2015; *Invited speaker*: Visual impairment in Elderly - Protocol - An update from LVPEI on the Wellcome Trust work.
- Vision Science Conference 2014 at Hyderabad Central University, 25 August 2014; *Invited speaker*: Global Burden of Visual Impairment.
- 21<sup>st</sup> IERG Annual meeting, LVPEI, Hyderabad, 26- 27 July 2014; *Poster presentation*: Unilateral Visual Impairment in Rural South India - Andhra Pradesh Eye Disease Study.
- Vision 2020 - India: 10th Annual Conference at Little Flower Hospital & Research Centre, Angamaly, Ernakulam District, Kerala, 5-6 July 2014; *Invited speaker*: LVPEI - Vision Centre Model.

## Annie Mathai

### National

- All India Ophthalmological Society Conference, New Delhi, 4-8 Feb 2015; *Presentation*: RCT backed uses of Avastin.
- Uveitis Society of India, New Delhi, 14-15 November 2014; *Presentation*: "Do we still have Eales' Disease?"

## Dilip Kumar Mishra

### National

- CME On ophthalmology, Bhaskar Medical College, Hyderabad, 22 March 2015; *Invited Talk*: 1) Basic of eye pathology 2) Corneal and conjunctival pathology 3) Tumors of orbit and eye.
- All India pathology meet- national conference, APCON 2014, Pune, 4-7 December 2014; *Poster presentation*: Medulloepithelioma of eye - a retrospective study of 13 cases in LVPEI Hyderabad. Co-authors Swathi kaliki and Geeta vemuganti.

## Rohit Modi

### International

- American Academy of Ophthalmologist (AAO), Chicago, October 2014; *Poster presentation*: Clinical characteristics of bilateral versus unilateral CSCR.

### National

- 73<sup>rd</sup> Annual Conference, AIOS, New Delhi, February 2015; *Presentation*: RPE atrophic tracts.

## Ashik Mohamed

### International

- International Society for Eye Research (ISER) XXI Biennial Meeting, San Francisco, California, USA, 20-24 July 2014; *Presentation*- Platform Session: Molecular Basis for Lens Architecture and Functional Quality.

Presenting author- Martin Costello, Co-authors: Kurt Gilliland, Ashik Mohamed, Sönke Johnsen, and Kevin Schey. Lens fiber cell maturation involves unique cellular patterns and sub-cellular structures.

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, Florida, USA, 4-8 May 2014; *Presentations* - 1) Digital mini-shadowphotogrammetric system for morphometric analysis of ex-vivo crystalline lenses: Pilot study on human lenses. Invest Ophthalmol Vis Sci 2014; 55: E-Abstract 747. Co-authors-Heather Durkee, Robert C Augusteyn, Raksha Urs, Victor Hernandez, Andres Bernal, Fabrice Manns, Arthur Ho, Jean-Marie Parel and Virender S Sangwan. 2) Non-human primate lenses display the cortical remodeling zone. Invest Ophthalmol Vis Sci 2014;55: E-Abstract 733. Presenting author: M Joseph Costello, Co-authors: Ashik Mohamed, Kurt O Gilliland, Jamie L Wenke and Kevin L Schey.

### National

- Indian Eye Research Group (IERG) – ARVO (India Chapter 21<sup>st</sup> Annual Meeting) Hyderabad, 26-27 July, 2014; *Poster Presentation*: Non-human primate lenses display the cortical remodeling zone. Co-authors: Kurt O Gilliland, Jamie L Wenke, Kevin Schey and M Joseph Costello.

## Sirajum Monira

### National

- 32<sup>nd</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 12 September 2014; *In-House faculty*.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Hyderabad, 11 April 2014; *In-House faculty*.

## Swapna R Motukupally

### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Presentation*: Are liquid media useful in the laboratory diagnosis of infective endophthalmitis? Co-authors-Vaibhav Sethi, Vidya R Nanapur, KanchanaChathoth, Annie Mathai and Savitri Sharma

## Raja Narayanan

### International

- EURETINA, London, September 2014; Presentation (on behalf of Marvel study group): A randomised, double-masked, controlled study of the efficacy and safety of intravitreal bevacizumab versus ranibizumab in the treatment of macular oedema due to branch retinal vein occlusion: 1-year results.
- Partnership for Innovative Health Care Delivery, Washington DC, April 2014; *Presentation*: LVPEI pyramidal model of eye care.

### National

- Vitreo Retina Society of India, Agra, Dec 2014; *Presentation*: Avastin versus Lucentis: Is there a difference?
- Symposium, Aravind Eye Institute, Pondicherry, October 2014; *Presentation*: Management of BRVO.
- Indian AMD Congress, Mumbai, July 2014; *Presentation*: Management of Polypoidal Choroidal Vasculopathy.

## Asa Narasaiah

### National

- 32<sup>nd</sup> Low Vision Awareness Program, LVPEI, Vijayawada, 12 September 2014; *In-House faculty*.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Vijayawada, 11 April 2014; *In-House faculty*.

## Sameera Nayak

### National

- 14<sup>th</sup> Annual Meeting, Uveitis Society Of India 2014, India Habitat Centre, New Delhi; 22-23 November 2014; *Poster presentation*: Comparison of fundus fluorescein angiogram and optical coherence tomography in different spectrum of posterior uveitis.
- 38<sup>th</sup> Conference, Andhrapradesh Ophthalmological Society, APOC 2014, Rajmundry, 10-12 October 2014; *Oral presentation*: Prevention of Endophthalmitis, Endophthalmitis zero tolerance.
- Looking beyond the Eye-2014, LVPEI, Vishakhapatnam, 6 July 2014; *Oral presentation*: Ocular sarcoidosis.

## Avinash Pathengay

### National

- 38<sup>th</sup> Annual conference of Andhra Pradesh Ophthalmological Society, Rajahmundry, October 2014; *Paper presentation*: A new clinical sign in parafoveal telangiectasia.

## Soumya Panda

### National

- 32<sup>nd</sup> Low Vision Awareness Program, LVPEI, Bhubaneswar, 12 September 2014; *In-House faculty*.
- 31<sup>st</sup> Low Vision Awareness Program, LVPEI, Bhubaneswar, 11 April 2014; *In-House faculty*.

## Niranjan Pehere

### National

- Eye on Future, CME Eye on Future, CME on Paediatric Ophthalmology, LVPEI, Vijayawada, 28 December 2014; *Presentations*: 1) Amblyopia management: evidence based current recommendations 2) Horizontal muscle surgery 3) Steps in pediatric cataract surgery
- Education Day, HICC convention Center, Hyderabad, Nov 2014; *Presentations*: 1) What's new in Pediatric Ophthalmology in last decade? 2) Monocular elevation deficit.
- 38<sup>th</sup> Conference, Andhra Pradesh Ophthalmological Society, Rajamundry, October 2014; Four assignments: 1) *Presentation*: Instruction course: Disc edema 2) *Instruction course*: a) Challenging cases in Neuro-ophthalmology b) Evaluation of a case of pediatric cataract 3) *Poster presentation*: Intracranial lesions misdiagnosed as amblyopia 4) *Video presentation*: Assessment of vision in preverbal children.
- Eye PEP: National PG educational program, Sep 2014, LVPEI, Hyderabad; *Presentations*: 1) Paralytic strabismus 2) Localization of lesion 3) Nystagmus.
- Workshop on Learning Disabilities in Children, LVPEI, Vijayawada, August 2014; *Presentation*: Ophthalmic professionals and Learning Disabilities.
- CME on "Eye in Systemic disease", LVPEI Visakhapatnam, 6 July 2014; Topic- Childhood cataract and diabetes mellitus.
- ROP for Pediatricians', CME for Paediatricians, LVPEI, Vijayawada, May 2014; *Presentations*: 1) Eye Examination at birth 2) Screening Criteria for ROP.

## Padmaja Kumari Rani

### National

- Hyderabad ophthalmic society – Retina meeting, Hyderabad, 4 January 2015; *Invited speaker*: 1) Vitrectomy for Malignant glaucoma 2) Central retinal venous occlusion in neonates.
- Venu eye Institute, New Delhi, 1 December 2014; *Member consultant*: on adapting DR protocol of ICO in Indian context.
- Vitreoretinal Society of India meeting, Agra, 5-7 December 2014; Three assignments: 1) *Presentation* (co-author): 25G Parsplana Vitrectomy and Irido-Zonulo-hyaloido-Vitrectomy (IZHV) in the management of malignant glaucoma in a phakic eye following trabeculectomy. 2) *Free paper presentation*: (co-author): a) Role of tamponade in vitrectomy for Proliferative Diabetic retinopathy with vitreous hemorrhage. b) Scleral buckling (SB) Versus Sutureless Parsplana Vitrectomy (PPV) without SB in Primary Rhegmatogenous retinal detachment (RRD) 3) *Vedio presentation*: An Interesting case of retained subretinal Intraocular foreign body and its management.
- Eye PEP, LVPEI, Hyderabad, 28 November, 2014; *Presentation*: Diabetic Retinopathy Pathogenesis, Classification and Differential Diagnosis.
- Saipuri Senior Citizen's Association meeting, World Diabetes Day, Hyderabad, 11 November 2014; *Guest speaker*: Diabetes and Eye.
- First paediatric surgical retina work shop, LVPEI, Hyderabad, 5-8 November 2014; *Presentation*: Case presentation of CRVO occurring in a neonate during laser for ROP and bilateral HSV viral retinitis in neonates.
- Andhra Pradesh State ophthalmology conference, Rajahmundry, 11 October 2014; *Presentation*: Prevention of neonatal endophthalmitis in neonates.
- Aravind Hospitals, Pondicherry, 4-5 October 2014; *Presentation*: Epidemiology of Diabetic Retinopathy: Indian Vs Global Scenario. TIFACORE-Symposium on Diabetic retinopathy and retinal vascular diseases.
- Diabetes Self Care foundation, Hyderabad, 24 August 2014; *Guest speaker*: Diabetes strikes eyes, Know how.
- Controversies to Consensus in Obesity, Diabetes and Endocrinology (CODE) conference, Hyderabad, 27 July 2014; *Presentation*: Newer Insights into Management of Diabetic Retinopathy.

## Muralidhar Ramappa

### International

- American Academy of Ophthalmology Annual Meeting 2014, Chicago, Illinois, USA, 18- 21 Oct 2014; Two Engagements: 1) *Poster presentations*: a) Lenticular changes in congenital iridolenticular choroidal coloboma. Co-authors: Ashik Mohamed, Sunita Chaurasia, Virender S Sangwan and Subhadra Jalali. b) Penetrating Keratoplasty in cases of Post-herpetic (HSV)Vascularized Scars: Indications, Surgical Challenges, and Outcomes. Co-authors: Sunita Chaurasia and Ashik Mohamed. 2) *Instruction courses*: a) Nightmares in Pediatric Cataract Surgery: "Challenging surgical case scenarios". b) Corneal transplantation in children: "Descemet's stripping endothelial keratoplasty in children: our technique".

### National

- Indian association of anesthesiologists, workshop- Various ophthalmic complication of regional anaesthesia, LVPEI, Hyderabad 8 March 2015; *Presentation*: Clinical spectrum of congenital corneal anaesthesia in the research forum.
- 27<sup>th</sup> APACRS, Jaipur, November 2014; Two assignments: 1) *Free paper*- PK and or DSEK in Children with congenital hereditary endothelial dystrophy: Two decades of our experience. 2) *Video presentation*: Descemet's stripping endothelial keratoplasty in children.
- EBAI annual meeting, Hyderabad, 25-28 September 2014; *Invited talk*: Keratoplasty in children.
- DSAEK workshop, Sight Life International, LVPEI, Hyderabad, 25-30 September 2014; *Invited talks* : 1) Recipient bed preparation 2) Post operative care 3) Donor preparation.
- Indian Eye Research Group (IERG) – ARVO, India Chapter 21<sup>st</sup> Annual Meeting, Hyderabad, 26-27 July 2014; Two Engagements: 1) *Free paper*: Penetrating Keratoplasty (PK) and or Descemet's Stripping Endothelial Keratoplasty (DSEK) in Children with Congenital Hereditary Endothelial Dystrophy (CHED): Two decades of our experience. Session: Cornea, Lens and Uveitis. Co-authors: Sunita Chaurasia, Ashik Mohamed and Pravin K. Vadavalli. 2) *Poster Presentations*: a) Congenital corneal keloid (CCK) in a pediatric age group: A clinical and histopathological correlation after successful Deep Anterior Lamellar Keratoplasty (DALK). Co-authors: Sunita Chaurasia, Ashik Mohamed and Geeta Vemuganti. b) Intra-Operative Hand Held Spectral Domain Optical Coherence Tomography Assisted Deep Anterior Lamellar Keratoplasty in Children with Mucopolysaccharidosis. Co-authors: Vesna Jurisic Friberg, Anagha Medsinghe and Ken K Nischal. c) Posterior segment abnormalities presenting as anterior segment dysgenesis in a pediatric age group. Co-authors Vijaya Lakshmi, Sunita Chaurasia and Subhadra Jalali.
- RIEB silver jubilee function, LVPEI, Hyderabad, 27 June 2014; *Presentation*: High-risk grafts and PK in children.
- HOA meeting, Hyderabad 20 June 2014; *Presentation*: Cataract surgery in setting of corneal stromal dystrophies.
- Swarup memorial symposium, Hyderabad, 25 May 2014; *Invited talk*- 1) DESAEK in children 2) Perioperative chemoprophylaxis during cataract surgery.
- EYE PEP 2014, LVPEI Hyderabad; *Presentation*: Pediatric eye diseases.

## Gullapalli N Rao

### International

- American Board of Ophthalmology Retreat, Santa Barbara, USA, 22 January 2015; *Guest speaker*: The role of ophthalmology in future medical systems; Topic: Value of ophthalmology care in LVPEI.
- RANZCO Symposium, Queensland Eye Institute, Australia, 26 November 2014; *Key note speaker*: Surgical Standards in Education and Practice: A Global Perspective; Title: Driving improved outcomes in cataract surgery in developing countries from ICEE to Phaco/ IOL.
- RANZCO International Development Workshop - Cataract Surgery in Low Resource Settings - Coordinated by Queensland Eye Institute, Australia, 21 November 2014; Four engagements: 1) *Key note speaker*: The Big Picture 2) *Invited speaker*: Training; Title: Surgical training programmes and techniques 3) *Chair*: Resourcing 4) *Invited speaker*: Monitoring; Title: Accessing Services and Strategies.
- Grand Rounds at University of Michigan, W.K. Kellogg Eye Centre, Ann Arbor, USA, 11 August 2014; *Invited speaker*: LVPEI model of vision services in Andhra Pradesh.
- Grand Rounds at Alder Hey Childrens Hospital, Liverpool, UK, 23 May 2014; *Invited speaker*: Eye care delivery in the developing world: A model for healthcare delivery – Challenges and solutions.
- Board Meeting at Vision4Children, Liverpool, UK, 22 May 2014; *Invited speaker*: Childhood blindness, teaching and training of paediatric eye care teams, research into childhood blindness conditions and family support.
- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 6 May 2014; *Invited speaker*: ARVO – 2014 SIG Workshop; Topic: Global collaboration and research capacity building.

### National

- 10<sup>th</sup> Anniversary of Post Graduate Institute of Medical Education and Research, Chandigarh, 14 March 2015; *Invited speaker*: Plenary session on leadership in Indian ophthalmology; Title: My learning.
- Research Workshop, Indian School of Business, Hyderabad, 22 December 2014; *Key note speaker*: Socially responsible operations and supply chains; Title: Operationalising excellence in healthcare delivery with equity.
- KERACON, Chennai, 19 December; *Chair*: Eye Banking Session
- Eye Opener, A visit of LVPEI research labs and initiatives for college students, LVPEI, 1 November 2014; *Guest lecture*: LVPEI story and vision.
- Dr G Venkataswamy Oration, Aravind Eye Care System, Madurai, 1 October 2014; *Invited speaker*: Dr. Venkataswamy's vision: Banish blindness.

- Annual Hyderabad Softwares Exporters Association, CSR Day, Hyderabad, 29 September 2014; *Keynote speaker*: CSR Journey.
- Harmony 2014 - Update on Cornea and Refractive Surgery, Organised by C.L. Gupta Eye Institute, Moradabad, Uttar Pradesh, 21 September 2014; *Inaugural speech and keynote lecture*: Road not taken.
- Eye Donation Fortnight, Drushti Daan, Bhubaneswar, 7 September 2014; Three engagements: 1) *Chair*: Synergy amongst Eye Banks in Odisha 2) *Chair and Panelist*: Role of hospital in HCRP and how it can be improved 3) *Key note address*: Plenary Session; Title: Eye banking in India - The present reality and the future potential.
- 5<sup>th</sup> National Undergraduate Medical Conference OSMECON, Osmania University, Hyderabad, 5 September 2014; *Invited speaker*: The future is exciting.
- 10<sup>th</sup> Annual conference of VISION 2020: The Right to Society, Cochin, 5 July 2014; *Delivered Helen Keller Memorial Lecture*: Vision 2020 Goals - Where India stands and actions required for future.
- Bangalore Ophthalmic Society Annual Meeting, Bangalore, 28 June 2014; *Invited speaker*: Gold medal oration - Universal eye health coverage - A model.

#### Ganeswara Rao

##### National

- Indian Eye Research Group ARVO-India Chapter (IERG-ARVO-IC), Hyderabad, 26-27 July 2014; *Presentation*: Molecular genetic analysis of Zinc Finger Protein - 408 (ZNF408) gene in Indian Familial Exudative Vitreoretinopathy (FEVR) patients. Co-authors: Musada, Syed Hameed, Subhadra Jalali, Subhabrata Chakrabarti and Inderjeet Kaur.

#### Suryasnata Rath

##### National

- APSOPRS, New Delhi, September 2014; *Free paper*: Modified transconjunctival dacryocystorhinostomy.

#### Varsha Rathi

##### International

- American Academy of ophthalmology, Chicago, 2-8 October 2014; *Poster presentation* (co-author): 1) Pythium Insidiosum Keratitis: A Severe and Under-reported Fungal Infection. 2) Evaluation of Endothelial Cell Changes and Pachymetry of Precut Corneal Tissues Stored in McCarey-Kaufmann Media. 3) Prosthetic Replacement of the Ocular Surface Ecosystem in Stevens-Johnson Syndrome.

##### National

- Refresher's workshop for OR Nurses and Technicians; *Conducted two workshops*: 1) 15 November 2014 2) 15 March 2015.
- Keracon 2014, Mahaballipuram, 19-21 December 2014; Two engagements: 1) *Poster presentations*: a) Evaluation of endothelial cell changes and pachymetry of pre-cut corneal tissues stored in McCarey Kaufman medium. b) Contact lens fitting after corneal collagen cross linking. 2) *Invited speaker* (master classes): Infectious Keratitis - Infectious keratitis: clinical evaluation pearls.
- Education Day Scientific meeting, LVPEI, 30 November 2014; *Debate moderator*, Cornea Session: CXL in MK, Voriconazole first line of management, intracorneal injections, Corticosteroids for Microbial keratitis.
- Vidarbha Ophthalmological Society meeting Akola, Maharashtra, 18-19 October 2014; *Invited speaker*: 1) Scleral Contact lenses 2) Phototherapeutic keratectomy 3) Presbyopic Contact Lenses.
- AP State meeting, Rajahmundry, 10-13 October 2014; Two engagements: 1) *Presentations*: a) Corneal signs – ectasia, opacities and deposits b) Presented Contact lens complications: SCL c) Lens solution interactions 2) *Invited course instructor*: Complications of contact lenses.
- Update on Cornea and Refractive surgery, CL Gupta Eye Institute, Moradabad, 21 September 2014; Two engagements: 1) *Invited speaker*: a) Contact lenses in ectatic corneal diseases in session on Corneal ectasia and Collagen cross linking in Harmony 2014 b) Preoperative workup for LASIK in Refractive session in Harmony 2014. 2) *Co-chair*: Refractive session in Harmony 2014.

#### Sonika Rathi

##### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Presentation*: Role of Complement Components in Retinopathy of Prematurity. Co-authors- Subhabrata Chakrabarti, Subhadra Jalali, Ramesh Kekunaya, Suman Thakur, Rohit Budhraj, T Ramakrishna, Ch Mohan Rao and Inderjeet Kaur.

##### National

- Indian Society of Human Genetics and International Symposium on Genomics in Health and Diseases, 40<sup>th</sup> Annual Conference, National Institute on Immunohematology, Mumbai, 28-30 January 2015; *Presentation*: Abnormal complement activation leads to pathological neovascularisation in subjects with Retinopathy of Prematurity.

Co-authors: Subhadra Jalali, Subhabrata Chakrabarti, Ganeshwera R Musada, Ramesh Kekunaya, Preeti P Chhablani, Divya Balakrishnan, Rohit Budhraj, Suman Thakur, T Ramakrishna, Ch Mohan Rao and Inderjeet Kaur.

- Indian Eye Research Group ARVO-India Chapter (IERG-ARVO-IC), Hyderabad, 26-27 July 2014; *Presentation*: Complement components play a major role in pathogenesis of Retinopathy of Prematurity. Co-authors: Subhadra Jalali, Rohit Budhraj, Subhabrata Chakrabarti, Preeti P Chhablani, Ramesh Kekunaya, Suman Thakur, T Ramakrishna, Ch Mohan Rao and Inderjeet Kaur.

#### Vanita Pathak-Ray

##### International

- Bangladesh Glaucoma Society, Dhaka, April 2014; *Invited lecture*: 1) Management of Glaucoma Suspect 2) Surgery in Angle Closure.

##### National

- APOC, Rajahmundry, October 2014; *Invited lecture*: What's new in Glaucoma surgeries?
- GSI, Bhubaneswar, September 2014; *Invited lecture*: Glaucoma Practice patterns in India – results of survey 2013
- Anders Heijl International Symposium, Hyderabad, May 2014; *Invited lecture*: Management of Glaucoma Suspect.

#### Jagadesh C Reddy

##### International

- Asia Pacific Association of Cataract and Refractive Surgeons (APACRS), Jaipur, November 2014; Two Engagements: 1) *Free paper*: Spontaneous attachment of detached descemet's membrane after cataract surgery: Role of visante anterior segment optical coherence tomography in predicting visual outcome. 2) *Video presentation*: Sutureless anterior lamellar keratoplasty in children with corneal opacities.
- World Ophthalmology Congress (WOC) 2014, Tokyo Japan, April 2014; Three Engagements: 1) *Instruction courses*: a) Endothelial Keratoplasty: Strategies to Improve Results and Avoid Complications-Instruction course. b) Topography and Tomography in the diagnosis of corneal ectasia-Instruction course. c) Endothelial Keratoplasty Made Simple - A Step by Step Video Based Learning Course-Instruction course. 2) *Free paper*: Quality of vision after excimer laser phototherapeutic keratectomy with intraoperative mitomycin-C for Salzmann's nodular degeneration. 3) *Video presentation*: Use of lasers in the management of epithelial ingrowth after Laser in situ keratomileusis.

##### National

- 38<sup>th</sup> Annual Meeting of Andhra Pradesh Ophthalmological Society, Rajahmundry, 11-13 October 2014; Three Engagements: 1) *Invited faculty*: Capsulorrhexis and clear corneal tunnel preparation. How to train your dragon: Mastering Phaco-machine and Phocoemulsification. 2) *Ocular infections Symposium-chair*: Risk factors, Microbiological profile and Clinical outcomes of Infectious scleritis-Symposium. 3) *Symposium* a) Shobha Harikishan symposium: Complications of refractive surgery - Severe Bilateral Paralimbal Sterile Infiltrates after Photorefractive Keratectomy-. b) Accelerated Crosslinking Symposium: Conquering keratoconus. c) Breakfast symposium: Mastering biometry and IOL Power calculations.
- Hyderabad Ophthalmology Association, June 2014, Hyderabad; *Invited Faculty*: Cataract Surgery in Keratoconus.
- Focus on Anterior Segment, Hyderabad, 25 May 2014; *Invited Faculty*: 1) Suture less Anterior Lamellar Keratoplasty. 2) Management of epithelial ingrowth using NdYag Laser.
- Karnataka Ophthalmic Society, Mysore, Month, 2014; *Free paper*: Spontaneous attachment of detached descemet's membrane after cataract surgery: Role of visante anterior segment optical coherence tomography in predicting visual outcome.
- KERAICON 2014, Mahabalipuram, December 2014; *Invited Faculty*: Predictors of corneal ectasia.

#### Mamatha Reddy

##### National

- Institute of Life Sciences, Bhubaneswar, 31 May 2014; *Presentation*: Glucose metabolism in cancer.

#### Ashutosh Richhariya

##### International

- Investigative Ophthalmology and Visual Science, Orlando, US 4-8 May 2014; *Poster presentation*: Novel automated algorithm of an OCT image analysis for choroidal vessels measurements; its validation.

##### National

- Asia ARVO, Delhi; Two assignments: 1) *Presentation* (co-author): Corneal Biomechanics in Ocular Imaging 2) *Poster presentation*: Predicting spherical aberration induced by laser refractive surgery by using biomechanical model of cornea.



### Aravind Roy

#### International

- 27<sup>th</sup> Asia Pacific Association of Cataract and Refractive Surgeons, Jaipur, November 2014; *Poster presentation*: Rate of change of lenticle thickness in manual versus automated descemet's stripping endothelial keratoplasty lenses. Co-authors: Madhusmita Das, Md Hasnat Ali and Pravin V Krishna.

#### National

- 38<sup>th</sup> Annual conference, Andhra Pradesh Ophthalmological Society, Rajahmundry, October 2014; *Paper presentation*: Infective Scleritis - An enigma. Co-author: Somasheila Murthy.

### Sanhita Roy

#### National

- Indian Eye Research Group (IERG) – ARVO, India Chapter 21<sup>st</sup> Annual Meeting, Hyderabad, 26-27 July 2014; *Presentation*: Mutation of Sodium Borate Co-transporter SLC4A11 Causes Mitochondrial Dysfunction in presence of Oxidative Stress. Co-authors: D C Praneetha and V Pulla Rao.

### Shahna S

#### National

- Indian Eye Research Group ARVO-India Chapter (IERG-ARVO-IC), Hyderabad, 26-27 July 2014; *Presentation*: Role of complement system in proliferative diabetic retinopathy (PDR). Co-authors: Chhablani J, Papparu RR, Tyagi M, Mathai A, Rani PK Subhabrata Chakrabarti and Inderjeet Kaur.

### Virender Sachdeva

#### International

- American Academy of Ophthalmology, Chicago, 18 – 22 October 2014; *Video presentations*: 1) Pediatric Cataract: What do I need to operate before I operate? Co: authors: Ramesh Kekunanya, Vaibhev Mittal, Merle Fernandes and Vivek Warakad. 2) (Co-author): Surgical management of Duane's syndrome.
- 40<sup>th</sup> annual meeting of AAPOS, Palm Springs, 2-6 April 2014; *Poster presentation* 1) Combined Occlusion and Atropine Therapy (COAT) for children with refractory/residual Amblyopia: a pilot study. Co-authors: Vaibhev Mittal, Varun Gupta, Abhishek Bawdekar, Rekha Gunturu and Ramesh Kekunnaya. 2) (Co-author): The aphakia versus pseudophakia dilemma in pediatric cataracts: A developing world perspective 3) (Co-author): Superior rectus transposition versus medial rectus recession for esotropic duane retraction syndrome (DRS).

#### National

- 73<sup>rd</sup> Annual conference, All India Ophthalmological Society, New Delhi, 5-8 February 2015; Two assignments: 1) *E-poster presentations*: a) Efficacy of intraocular avastin vs conventional treatment in NAION: a comparative study b) Structure function correlation in optic atrophy revisited 2) *Video presentation*: (Coauthor) Technique of secondary intraocular lens implantation - in the bag, in the sulcus.
- 38<sup>th</sup> Annual Meeting of Andhra Pradesh Ophthalmological Society, Rajamundry, 11-13 October 2014; Five assignments 1) *Chief Instructor*: a) Symposium on 'Challenging cases in Neuro-ophthalmology' b) At Cross – Roads in pediatric Cataract surgery 2) *Clinical talks*: a) Neuro-imaging challenging case on 'Posterior Reversible Encephalopathy syndrome' in Symposium on 'Challenging cases in Neuro-ophthalmology' b) Secondary Intra Ocular Lens – What age and which lens in the IC on At Cross - Roads in pediatric Cataract surgery 3) *Free paper presentation*: Treatment of Non-arteritic Ischemic Optic Neuropathy (NAION) - Intravitreal avastin Vs Oral corticosteroids in V Ragahavachar Session 4) *Poster presentation*: Spontaneous Ophthalmic artery occlusion in children due to Hyperhomocysteinemia 5) *Video Presentation*: Re-operations in strabismus surgery: Make the second chance count at Swarup's competitive Video Session.

### Virender S Sangwan

#### International

- DEWSII Steering committee meeting, San Fransisco, 31 March 2015. *Invited expert and member steering committee*.
- West Java IOA Scientific Meeting in Bandung, Indonesia, 7-9 March 2015; *Invited speaker*- 1) Stem cell therapy for ocular surface 2) Boston Kpro: Indications, Outcomes and Surgical technique 3) Vernal Keratoconjunctivitis: An enigma for clinicians 4) Peripheral ulcerative keratitis: Surgical management.
- International Ocular Surface Inflammation, group meeting, New York, 8-10 November 2014; *Invited talk*: Surface Inflammation and Cell Based Therapy.
- University of Sao Paulo Eye hospital, Sao Paulo, 7-9 August 2014; *Visiting faculty*: 1) Limbal stem cell cultivation and transplantation 2) Management of end-stage corneal diseases 3) Surgical Demonstration in OR of SLET 4) Learned from them MMG new technique of harvesting

as well as transplantation of minor salivary glands.

- Pancornea Society, Annual meeting of Columbian Ophthalmic Society, Medellin, 5-7 August 2014; *Invited speaker*- 1) End-stage corneal diseases: Current management. 2) LVP Kpro-promising technique for dry and dermalised ocular surface. 3) Innovations in stem cell surgery. 4) Limbal stem cell Transplantation – outcomes.
- American Society of Cataract and Refractive Surgery, Boston, 26-30 April 2014; *Invited faculty*- 1) Innovations in Limbal stem cell surgery 2) Clinical outcome of Primary Boston Type I KPro in Bilateral Limbal Stem Cell Deficiency.
- Visiting Professor, Rochester University, 23-26 April 2014; *Invited speaker*- 1) Stem cell therapy for ocular surface. 2) Cornea grand rounds at Flaum Eye Institute. 3) Meetings with Different Stem Cell Research Groups.
- Riyadh Stem Cell Meeting, Visiting Professorship, King Khaleeda Eye Speciality Hospital, 12-14 April 2014; *Invited speaker*- 1) Limbal Stem Cell Transplantation : Safety and Efficacy 2) Innovations in limbal stem cell transplantation 3) Boston Type I KPro : Surgical technique, indications, and outcome. 4) LVP KPro : KPro for dry and dermalised ocular surface.

#### National

- Recent Trends & Advances in Uveitis, 14<sup>th</sup> Annual Meeting, Uveitis Society of India, Delhi, 22-23 November 2014; *Invited faculty*: Peripheral Ulcerative Keratitis (PUK) : Current Management.
- Sakura Study Interim Investigators Meeting, Goa, May 10-11, 2014. *Invited Expert*.

### Premnanandhini Satgunam

#### International

- Association for Research in Vision and Ophthalmology (ARVO) 2014 (Annual Meeting) Orlando, USA, 4-8 May, 2014; *Presentation*: Can vision impaired children perform visual search tasks?

### G Chandra Sekhar

#### International

- CME, Challenging Encounters in the Anterior Segment– What Do You Do Next?, Bascom Palmer Eye Institute in Miami, Florida, 23-24 January 2015; *Invited Faculty*: 1) Trabeculectomy as a Primary Procedure: YES! 2) The Impact of Glaucoma: A Patient's Perspective
- Attended meeting, Glaucoma Research Society, Jackson Wyoming, USA, 27-30 August 2014.

#### National

- The Art & Science of Glaucoma, World Glaucoma Week, LVPEI & Hyderabad Ophthalmic Association, 8 March 2015; *Presentation*: Glaucoma Diagnostics - Glaucoma Progression and Interactive Perimetry.
- 73<sup>rd</sup> AIOS, New Delhi, 5-8 February 2015; *Presentation*: National Symposium on Glaucoma - Patient centric Glaucoma care.
- Eye-PEP 2014, Postgraduate Education Program in Ophthalmology, LVPEI, Hyderabad, 23-28 November 2014; *In-house faculty*: 1) Glaucoma - Visual field basics and interpretation 2) Glaucoma Grand Rounds- G Chandra Sekhar, Anil Kumar Mandal, Sirisha Senthil and Vanita Pathak-Ray.
- 11<sup>th</sup> Annual UKOS Conference, UTTARA-EYECON 2014, Mussoorie, 4-5 October 2014; Two assignments 1) Invited faculty 2) Delivered Dr CS Grover Oration: Understanding and improving clinical acumen.
- Glaucoma Society of India, Eye Fest 2014, Annual Conference, Bhubaneswar, 12-14 September 2014; Two assignments: 1) *Keynote lecture*: Patient Centric Glaucoma Care 2) Chairperson: The Inevitable Debates – has anything changed?
- Bangalore Ophthalmic Society, Bangalore, 29 June 2014; *Invited faculty*: Understanding and improving Clinical Acumen.
- Glaucoma, Refractive and Cataract Surgery Interactive: Panel Discussion & Debates, Hyderabad Ophthalmic Association, 22 June 2014; Chair: Glaucoma panel discussions.
- Glaucoma Convene 2014, Ahmedabad, 15 June 2014; Two assignments: 1) *Invited faculty*: a) Glaucoma Insights - Is this Field Glaucomatous? b) Preferred Practice Patterns in Glaucoma - Principles in the management of Angle Closure Glaucoma c) Glaucoma Management: Can We Do Any Better? - Common Avoidable Mistakes in Glaucoma 2) *Moderator*: Final Frontier.
- Institute of Ophthalmology, Kasturba Medical College, Manipal & Udipi District Ophthalmic Society, 11 May 2014; Two assignments 1) *Keynote address*: Glaucoma with special emphasis on the importance to visual fields in glaucoma 2) *Invited faculty*: Glaucoma Overview - Importance of Visual fields in Glaucoma.

### Sirisha Senthil

#### International

- Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Orlando, USA, 4-8 May 2014; *Poster Presentation*: Outcomes of AGV in refractory pediatric glaucoma.

## National

- Symposium on Refractory and Childhood Glaucoma - Attention 2015 Aravind Eye Hospital, Madurai, 14-15 March 2015; Invited speaker: 1) Diagnosing Glaucoma Progression on OCT 2) Glaucomas associated with Corneal Diseases
- CME on Invited speaker for the scientific meetig "The Art and Science of Glaucoma", HOA, Hyderabad 8 March 2015 : Two engagements: 1) Presentation: Medical management of glaucoma: case based discussions 2) Video Presentation: Ahmed Glaucoma Valve
- Invited faculty for 27<sup>th</sup> APACRS, Jaipur, 13-16 November 2014; Presentation: Glaucoma following Posterior Chamber Implantable Collamer Lens Implantation.
- Hyderabad Ophthalmic association, 22 June 2014; *Invited talk*: Imaging in Glaucoma.
- Invited faculty for the congress on optic nerve, vasculature & emerging treatment, Karnataka Ophthalmic Society and Bangalore Ophthalmic Society, Bangalore, 9 - 10 August 2014. Two Presentations: 1) CDR: Is this glaucoma clinical disc evaluation 2) What is new in glaucoma surgery?

## Savitri Sharma

### International

- ASIA-ARVO (5<sup>th</sup> Annual Meeting), Yokohama, Japan, 16-19 February, 2015; *Invited talk*: New insights in the diagnosis of Corneal Infections.
- Asia Cornea Society biennial meeting held at Taipei, Taiwan, 11-12 December 2014; *Invited speaker*: 1) New insights into epidemic keratoconjunctivitis- epidemiology, diagnosis and treatment. 2) Recent advances in the diagnosis of corneal infections.

### National

- Bhaskar Medical College, Zonal CME program of Dr Ntruhs on Basic Sciences in Ophthalmology, Hyderabad, 22 March 2015. *Invited speaker*: 1) Basic principles of laboratory diagnosis of corneal infections, 2) monitoring of operating room protocols.
- 18<sup>th</sup> Annual conference of Indian Association of Medical Microbiologists, AP Chapter, Khammam, Telangana, 7-8 February 2015. *Delivered Oration*: The Rigour and Relevance of Research in eye Infections: An account of 28 years.
- XIII National Workshop on Diagnostic Methods in Clinical Microbiology, held at Dept. of Microbiology, JIPMER, Pondicherry, 8-11 October 2014; *Invited speaker*: Diagnostic methods in eye infections.
- CME "Harmony-Update on Cornea and Refractive Surgery", 5<sup>th</sup> Anniversary celebration of CL Gupta Eye Institute, Moradabad, UP, 21 September 2014; *Invited speaker*: Laboratory Diagnosis of Corneal Infections.
- Academy of clinical microbiologists-Tricon2014 Govt. Medical College (6<sup>th</sup>Triennial Conference) Thrissur, Kerala, 16-17 August; *Invited talk*: Mycotic and Parasitic Infections of the Eye.
- IERG ARVO-India Chapter 21<sup>st</sup> Annual Meeting, 26-27 July 2014; *Poster presentations* 1) Loop mediated isothermal amplification assay using hydroxynaphthol blue, conventional PCR and real time PCR in the diagnosis of intraocular tuberculosis: A comparison of sensitivity, specificity and predictive values. Co-authors- Praveen Kumar Balne, Soumyava Basu, Soveeta Rath and Manas Ranjan Barik. 2) Efficacy of molecular methods in the diagnosis of infectious endophthalmitis. Co-authors- Swapna R Motukuppally, Annie Mathai, Kanchana N Chathoth, D Venkateshwar Rao, P Sunny Francis and Pravin K Balne. 3) Twenty years experience in managing non-tuberculous mycobacterial keratitis at a tertiary care centre. Co-authors: Rashmi Mittal, Prashant Garg and Sonia N Yeung. 4) Clinical presentations, anti microbial susceptibilities and visual acuity outcomes of ceftazidime resistant Gram-negative isolates in endophthalmitis. Co-authors: Vivek Dave, Avinash Pathengay, Rajeev R Pappuru, Subhadara Jalali, Annie Mathai, Raja Narayanan, Taraprasad Das, Jay Chhablani, Rani Padmaja Kumari, Divya Balakrishnan and Mudit Tyagi 5) Fungicidal effect of ultraviolet-a/ riboflavin corneal collagen cross-linking on fusariumsolani isolate from fungal keratitis. Co-authors: Swatishree Sradhanjali, Anuria De, Mamatha M Reddy and Sujata Das.
- CME, post graduates students, Shadan Institute of Medical Sciences, Hyderabad, 6 April 2014; *Invited talk*: Fluorescence Microscopy.

## Sachin Shukla

### International

- Joint symposium of 4<sup>th</sup> International Neural Regeneration Symposium, 6<sup>th</sup> International Spinal Cord Injury Treatment and Trials Symposium, 9<sup>th</sup> Asia Pacific Symposium on Neural Regeneration (INRS-ISCITT-APSNR- 2014), Nanjing, China, 6-10 September 2014; *Oral presentation*: Reparative neurogenesis in adult trout (*Oncorhynchus mykiss*): in vitro and in vivo investigation of CNS response after optic nerve injury. Co-authors: Pushchina EV and Varaksin AA.

- 3<sup>rd</sup> International Conference, Hydrogen Sulfide in Biology and Medicine, Kyoto, Japan, 4-6 June 2014 ; *Poster presentation*: Hydrogen sulfide factor regulates differentiation and proliferation of nerve cells in primary culture of cells from brain and spinal cord of the salmonids. Co-authors: Pushchina EV and Varaksin AA.
- VII School of Marine Biology, A V Zhirmunsky Institute of Marine Biology FEB RAS, Vladivostok, Russia, 14-15 April 2014; *Invited lecture* (initiated in the memory of V L Kasynov): Stem Cells: Past trends, Present Applications and Future prospective.

### National

- Indian Eye Research Group (IERG), 21<sup>st</sup> Annual Meeting organized by ARVO-India, LVPEI Hyderabad, 26-27 July 2014; *Poster presentation*: Analysis of trans differentiation potential of human dental pulp stem cells: Clinical implications for bilateral limbal stem cell deficiency. Co-authors: Singh V and Sangwan VS.

## Vivek Singh

### National

- IERG-ARVO-INDIA Chapter, 21<sup>st</sup> Annual Meeting 26-27 July, LVPEI, Hyderabad; *Poster presentation*: The alteration of immunological/adhesion properties of in vitro limbal explant culture: Implication on survival of limbal explant in patients with LSCD. Co-authors: Presenting Author: Abhinav Reddy K. Co-authors: Sachin Shukla, Sayan Basu, Virender S Sangwan and Vivek Singh.

## Shraddha Sureka

### International

- American Academy of Ophthalmology, Annual Meeting 2014, Chicago, 18-21 October 2014; *Presentations*: 1) Penetrating Keratoplasty and Simple Limbal Epithelial Transplantation (SLET): Clinical Outcomes 2) Ocular Surface Complications after Boston Type I Keratoprosthesis. Co- authors: Sayan Basu and Virender S Sangwan. Awarded the ICMR travel grant for this.

## Pravin K Vaddavalli

### International

- 32<sup>nd</sup> Congress, European Society of Cataract and Refractive Surgery (ESCRS), London, 13-17 September 2014; Three engagements: 1) *Paper presentation* 2) *Video presentation* 3) *Co-instructor*.
- 5<sup>th</sup> EuCornea Congress, London, 12-13 September 2014; Speaker.

### National

- All India Ophthalmology Society (AIOS), Annual meeting, Delhi, 5-9 February 2015; Three engagements: 1) *Invited speaker* 2) *Chief instructor* 3) *Co instructor*.
- 27<sup>th</sup> Congress of the Asia Pacific Association of Cataract and Refractive Surgeons, APACRS 2014, Jaipur, 13-16 November 2014; Three Engagements: 1) *Invited speaker* 2) *Session chair* 3) *Symposium speaker*.
- Karnataka Ophthalmology Society, Annual Meeting, MYCON 2014, Mysore, 8-9 November 2014; *Invited speaker*.
- 38<sup>th</sup> Annual meeting, Vidharba Ophthalmology Society, 18-19 October 2014, Akola; *Invited speaker*.
- 38<sup>th</sup> Annual meeting of the Andhra Pradesh Ophthalmological Society, Rajahmundry, 11-13 October, 2014; Two engagements: 1) *Invited speaker* 2) *Symposium chair*.
- BOS Summit 2014, 3<sup>rd</sup> Annual Meeting, Bangalore Ophthalmic Society, Bangalore, 27-28 June 2014; *Invited speaker*.
- 25<sup>th</sup> Year Anniversary Meeting, Ramayamma International Eye Bank, 27 June 2014; Speaker.
- Eyeadvance/FOCUS 2014, Annual Meeting, Bombay Ophthalmology Society, Mumbai, 20-22 June 2014; *Invited speaker*.

## Jayesh Vazirani

### National

- Hyde Park Session, New Delhi, 7 February 2015; *Presentation* (chief author): Demography and Clinical Features of Limbal Stem Cell Deficiency (LSCD) at a Tertiary Care Center. Presenting Author: Siva Kumar Wurity. Co-Authors: Fernandes Merle.
- All India Ophthalmological Society (AIOS), Annual conference, Delhi 6 February 2015; *Invited lectures*: 1) Clinical presentation of Mild, Moderate and Severe Dry Eye 2) Surgical management of dry eye disease.
- Ocular Surface Interest Group (OSIG), Annual Meeting, Hyderabad, January 2015; *Invited lecture*: Simple limbal epithelial transplantation (SLET) at Visakhapatnam.
- Keracon (Annual meeting of the Cornea Society of India), Mamallapuram, December 2014; Two assignments: 1) *Paper presentation*: Multi-drug resistant pseudomonas keratitis - Clinical characteristics and associated features. 2) *Poster presentation*: Customized simple limbal epithelial transplantation (SLET) for recurrent limbal stem cell deficiency (LSCD).



# Srujana Centre for Innovation

Srujana: Innovation @ LVPEI, was setup in 2013 as a direct outcome of the “Engineering the Eye” workshop organized jointly by LVPEI and the Camera Culture Group, MIT Media Lab, USA, with funding support from Cyient Ltd. The workshop enforced the need to have clinicians, engineers and designers work on a collaborative platform to address several new and existing eye care problems in the developing nations through cutting-edge technology that is simpler, more accessible and affordable.

The collaboration with MIT Media Lab extends to the development of tools for eye imaging and automated screening with the help of machine learning algorithms. The development work at the Innovation Centre encompasses development of technology to serve both clinical and research needs - including technology that would eventually be used for surgical needs.

Along with the Camera Culture Group, the centre runs the LVPEI-MITRA Program, which is an opportunity for students to work on projects mentored by graduate students at the MIT Media Lab and clinical mentors at LVPEI. Selected students get an opportunity to go to MIT as visiting students.

We also work in collaboration with other companies and research groups like Bascom-Palmer, Florida; Ben-Gurion University of the Negev, Israel; Indian Institute of Technology (IIT), Hyderabad; Engineering Staff College of India (ESCI), Hyderabad; and Mahindra Comviva, Bangalore for technology innovation.

The centre now has on board skilled professionals with qualifications varying from computer programming to optics to manufacturing. With this the Innovation Centre is gearing up to come up with innovative products and technologies that can be used in clinics.





## ReDx Workshop 2014



The second edition of the “Engineering the Eye” workshop, Rethinking Engineering Design eXecution (REDx), was hosted in collaboration with Tata Centre for Technology and Design and MIT Media Lab on 13 July 2014 at Cyient Ltd in Hyderabad. The focus was on innovation and design for building prototypes of ophthalmology products. At the week-long workshop, around 100 engineering and design students from across the country along with mentors from LVPEI and MIT worked on developing prototypes. Out of these, three prototypes

have been developed further and two have reached the clinical testing phase. Professor Raghunath Mashelkar, Chairman, National Innovation Foundation - India and an eminent scientist who believes in inclusive innovation, inaugurated the workshop.

Winter interns from Srujana participated in the ReDx workshop - Mumbai edition, and got a chance to interact with mentors from MIT, USA and were provided guidance and support for the development of their prototypes.



The third edition of the ReDx has been planned for 5-11 July 2015.

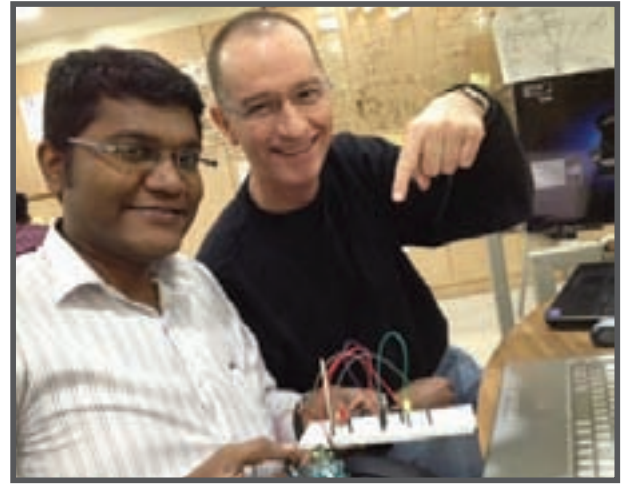
## Hyderabad4Innovation



Hyderabad4Innovation (H4I), an initiative by a group of senior leaders to nurture and grow the innovation ecosystem in Hyderabad, inaugurated the “Hyderabad4Innovation” directory, which has 100 ecosystem support services. LVPEI’s Srujana Centre for Innovation is part of this group.

## EnVision 2015 Workshop

The inaugural EnVision 2015 workshop hosted by the Srujana Centre for Innovation aimed at providing bio-engineering skills to optometry and vision science staff and LVPEI faculty. Prof Adrian Glasser, University of Houston College of Optometry and Dr Shrikant Bharadwaj, LVPEI facilitated the five-day workshop held from 2-6 February 2015. The workshop also provided the participants with hands-on experience in 3D CAD drawings and LASER cutting technology. Three prototypes have been designed so far and one of them has already achieved completion. Parthasarathi Kalaiselvan's prototype, a V-Guage developed to measure diameters of contact lenses using 3D-programming software, is now ready for use.



## Presentation at the Design Summit

FITTLE, an education toy for teaching Braille to visually impaired children, was presented at the design summit organized on 11 March 2015 at HITEX, Hyderabad by Dhruv Joshi, an engineer from Srujana. The audience comprised individuals from start-up enterprises, design studios and prototyping labs.

## Team Srujana Showcase Prototypes



**Microsoft:** As part of the Microsoft India Development Center (MIDC)'s Giving Campaign, a team of students and engineers from Srujana showcased their eyecare prototypes to Microsoft engineers on 10 October 2014 at their Hyderabad campus.



**BioAsia Healthcare Devthon:** Prototypes developed at the Srujana Centre were showcased at the BioAsia Healthcare Devthon held on 17 January 2015 at Progress Software Campus, Hyderabad. Dr Anthony Vipin Das and a few engineers from Srujana shared their thoughts on the importance of innovation in eye care with the devthon participants and also provided them with mentorship support.



## Prototypes Under Development



**Pediatric perimeter-** A device to estimate visual fields in infants (3-6 months of age)  
*Mentor – Dr Premnandhini Satgunam, LVPEI*



**Pupil hacker-** A portable pupillometer which checks a patient's response to stimulation by light.  
*Mentor - Dr Anthony Vipin Das, LVPEI*

- **Eye alignment display:** A screen on which a symbol is visible when the viewer's gaze is properly aligned with respect to the screen. Once the eye is aligned, various kinds of tests can be performed on it.  
*Mentor - Tristan Swedish, MIT Media Lab.*
- **Anterior segment reconstruction:** A portable device to make a complete reconstruction of the anterior segment of the eye, which can be used for further analysis by an ophthalmologist via customized software. This device automates the task of a conventional "slit lamp".  
*Mentor - Shantanu Sinha, MIT Media Lab.*
- **Retinal annotation tool:** Software for annotation of retinal images, which will be used to train machine learning algorithms for automatic detection of retinal pathologies.  
*Mentor - Dhruv Joshi, LVPEI.*

## Student Speak



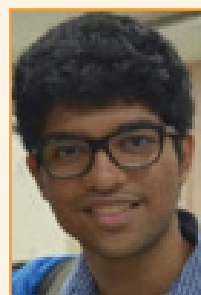
"My knowledge was so limited before I joined Srujana. Now I feel as if my horizon has broadened. With the immense resource pool available at the centre, it was a tremendous learning experience. The only thing that can stop you here is your own lack of imagination." *Devesh Jain, Hyderabad.*



"My experience at Srujana has been very productive. I got an opportunity to explore many new things and interact with some great minds." *Pushyami Rachapudi, Hyderabad.*



"At Srujana, I got an opportunity to work on products that can have considerable impacts on the lives of visually impaired children; scientific approach is used to quantify their vision and accordingly develop products." *Karthik Reddy, Hyderabad.*



"I learnt many new things in the three months that I spent at Srujana. I was encouraged to think creatively and was given the liberty to work on my ideas." *Tanmay Kulkarni, Mumbai*



# Alumni News

## Alumni Meeting



The November 29-30, 2014 LVP Alumni meet was also a part of the Education Day. Outgoing long-term fellows were inducted in to the group. 52 alumni members participated in this meet.

**Paaraj Dave**, Glaucoma specialist, Fellow LVPEI, inaugurated his clinic “Dave Eye Clinic” on 8 March 2015 in Hyderabad.



**Kopal Mittal**, has been awarded the Dr Mohan Lal memorial gold medal in Paediatric Ophthalmology at the 49<sup>th</sup> Annual Conference of the UP State Ophthalmic Society 20-21 December 2014 in Noida.



**Samrat Chatterjee**, was awarded the Orbis Medal for the best paper in Community Optometry at European Society of Cataract & Refractive Surgeons (ESCRS), London, 2014 and Rakesh Sharma Award for the best free paper in Trauma at the All India Ophthalmological Society (AIOS) 2014.

**Vishram Sangit**, was awarded: Best paper in Optics at All India Ophthalmological Society Scientific Committee (AIOC) 2013 for ‘Role of Rose K Contact Lenses in Keratoconus’; and Second place for best video presentation at Keracon 2014 December for his video ‘Atypical Scleritis - A worm wriggles out of the Pandora’s box’.



# OUR SUPPORT

*Year after year as we continue to grow, so does the list of our benefactors, supporters, contributors and friends. This not only is a testimony to the quality of services that we deliver but also bears a testimony to the level of commitment our supporters have shown towards our work. We thank all our supporters and well wishers for their whole-hearted support.*

*We got talking with a few of our benefactors who have recently joined the LVPEI family to know from them what motivated them to support the cause of eye care.*

**Mr Devidas N Budhrani**, Founder Trustee of *Naraindas Morbai Budhrani Trust (NMBT)* and his family firmly believe in serving the poor and the underprivileged.  
(Extracts from a conversation we had with him)

**How accessible do you think are the eye care services in India?**

Access to healthcare is a general concern in India. Specialized services like eye care are even more inaccessible. The rural and tribal pockets are the worst affected. Most of the eye related problems are avoidable, i.e, can be prevented, treated or managed. The ability to see has a direct impact on one's capacity to earn a livelihood. It is an area that needs attention and support from every quarter of the society.

**What according to you needs to be done on a priority basis to make quality eye care accessible to all?**

LVPEI's pyramid model of eye care demonstrates a comprehensive approach. It not only makes access to eye care services possible for the vulnerable and needy communities but also focuses on creating awareness and developing skilled human resources which is essential to sustainably scale up eye care services. The need of the day is to invest in resource poor areas for providing quality eye care through skilled human resources.

**Why did NMBT choose to partner with LVPEI?**

NMBT has been supporting the cause of preventing avoidable blindness much before its inception as an organisation in 2002. We have been instrumental in setting up eye care institutions with the focus of initiating quality eye care programs for the underserved. LVPEI is a globally recognized institution known for its excellent service model; use of latest technologies and ongoing research activities; and also for making communities a partner in promoting eye care services. Partnering with LVPEI thus seemed to be a natural choice for us in reaching out to the underserved population.

**How do you foresee the partnership between NMBT and LVPEI formulating in the coming years?**

With the Secondary Eye Care Centre in Rayagada district of Odisha, we have initiated our partnership with LVEPI. We intend to have a much closer association with LVPEI in the coming years to respond to the eye care needs of the marginalized communities by having long term infrastructure and human resource in place.

**What motivates you to work for the cause of eye care?**

"Nothing feels as great as seeing a child go back to school or an elderly person resume his livelihood and independence, post a simple cataract surgery. The joy that we get by bringing about sustainable changes in the lives of people is our biggest motivation."

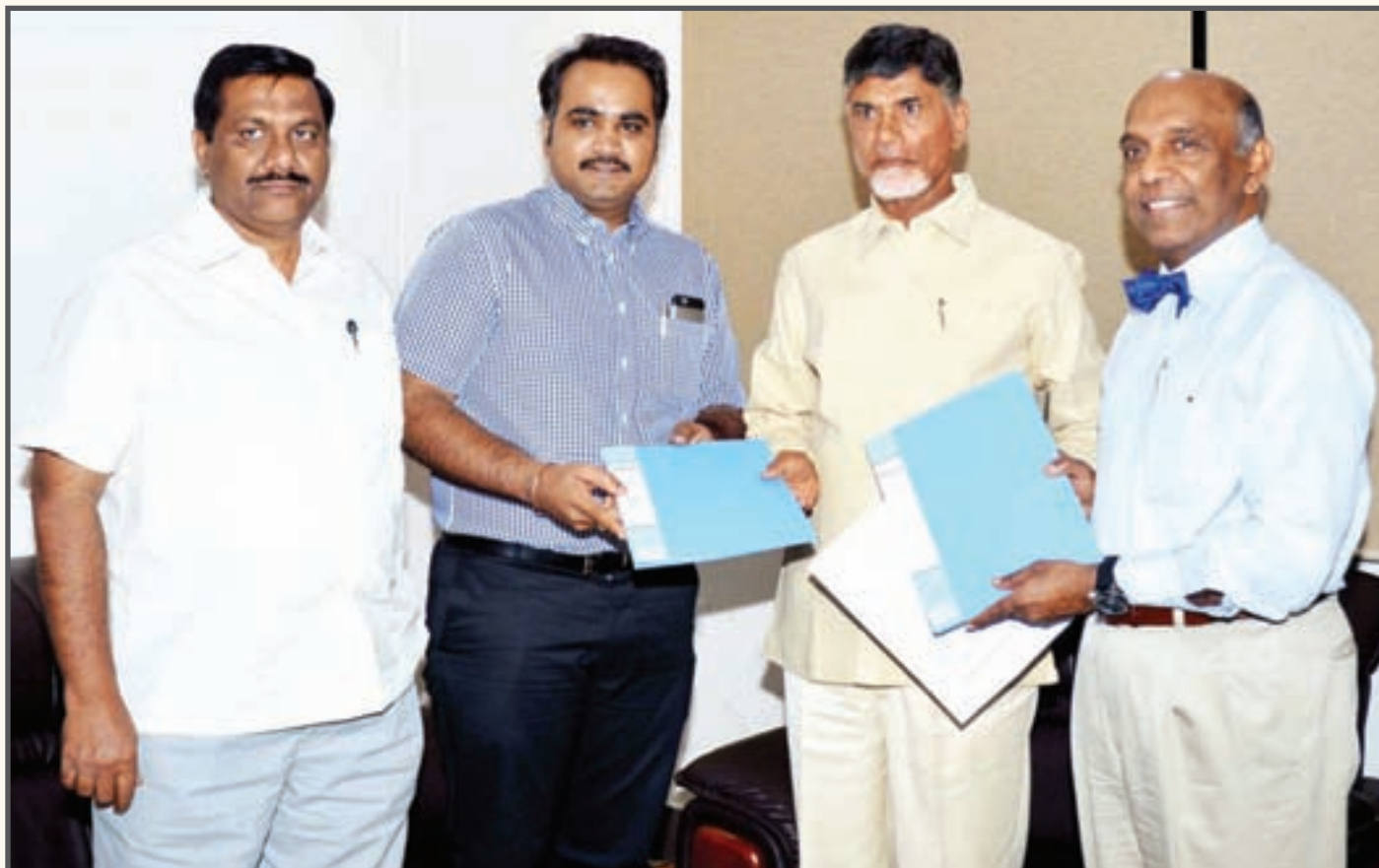


# All for a Cause

## Aurobindo Pharma Limited partners with LVPEI



With the aim to provide quality eye care to the elderly population, especially to those who cannot afford it, Hyderabad based pharmaceutical giant Aurobindo Pharma Limited, have extended their generous support to develop a Geriatric Eye Care Centre, at LVPEI's GMR Varalakshmi Campus in Visakhapatnam. The centre named Aurobindo Geriatric Eye Care (AGE) will be the first of its kind in the world. Aurobindo Pharma Vice-Chairman K Nityananda Reddy and Director Sarat Chandra Reddy, in the presence of Chief Minister N Chandrababu Naidu, presented the donation cheque for this centre to LVPEI on 23 February 2015.



Founded in 1986 by Mr P V Ramaprasad Reddy, Mr K Nityananda Reddy and a small group of highly committed professionals, Aurobindo Pharma today features among the top 10 companies in India in terms of consolidated revenues. Corporate social responsibility is at the heart of Aurobindo Pharma. Education, health and sanitation and environmental sustainability are few of the major areas that the company supports. The pharma company has also been awarded the State Award for the Best Community Services by the Government of Andhra Pradesh.

The company believes that there is an urgent need to create awareness among people about preventable blindness, and early identification and treatment are essential for the detection of vision-threatening diseases that have the potential to cause permanent loss of vision. Impressed with LVPEI's service delivery model, Aurobindo Pharma decided to partner with LVPEI and extend their support to make quality eye care available to all.



# Your support makes it possible for all to see...

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Anil Kumar

Usha Kumar / Savitri & S L Kumar

Sadbhavana Trust

Ashok Kumar Malpani

Ashok Kundalia / Radiant Corporation Pvt  
Ltd

Prem Latha & Jagmohan Lohia

Capt. Kuldeep Singh Solanki & Bijay

Mandhani / Global Coal and Mining Pvt  
Ltd

Jayin Marella Sukla Mitra

N Nagarjuna

Venkat Naganathan

Sree Hari Nagaralu

Rajeswari Nunnagajula

T Padmanabhan

Lalithamba Panda

Sreedevi Penmetcha

Joya Pinnamaneni

Geetha Pisupati

P S Prabhakar

Ramesh Prasad / Prasad Media

Corporation Pvt Ltd

M Siva Rama Vara Prasad / Volta Impex  
Pvt Ltd

B V Kumar

P K Sai Prakash

CH Surya Prakash

Rama Devi & Ravi Prakash / Condour

Industrial Services Pvt Ltd

B Vishnu Priya

Amit R Rach

Ranganayakama

Meena Raghunathan

Vijaya Lakshmi Ragan

Justice TNC Rangarajan

S R Govinda Rajan

### V Rajeswari

Pinnamaneni Rajashree

Vijaya L Ramam

Ajit Pandurang Rangnekar

A V Rama Rao / AVRA Labs

P Madhusudhana Rao

Palle Rama Rao

S S R Koteswara Rao

Uma Rao / N Venkataswamy Chetty

Charitable Trust

Suhasini Ravipati

Kallam Satish Reddy / Dr Reddy Lab

Vasanth Reddy

B V Mohan Reddy / Cyient Foundation

Shrutha K Reddy

P Vasanth Reddy

K Nityananda Reddy / Aurobindo Pharma  
Ltd

Nanda Siva Sankar

Veeramachaneni Sarojini

G Saradha

Seshendra

A Lakshmi Siraj

Chitturi Sujatha

Vemulapalli Sunitha

S V Saikumar

Dhanji Lakhamsi Sawla

G Chandra Sekhar

D Seetharamaiah

Sushika Harilal Shah

Tanya

Om Prakash Tibrewala / O P Tibrewala  
Foundation

R Venkateswaran

P Venkateswarlu / Kakatiya Cement

Sugar & Industries Ltd

Chandra Sekhar Viswanath

Ashram Foundation

Deloitte Tax Services India Pvt Ltd

Lions Club of Hyderabad South

MBG Commodities Pvt Ltd

Persistence Foundation

Sri Ramanjaneya Charitable Trust

### Italy

Biance Strens

### Kakinada

B Surya Kumari

### Karimnagar

Lion Kola Lavanya

Lion Er Dr Kola Anna Reddy

### Kochi

Joyalukkas Foundation

### Kolkata

Purushottam Lal Agarwal

Abhi Chakrabarti

Monimoy Ghosh

Salarpuria Jajodia

Prakash Chandra Laha and Manjoolika  
Laha

Pooja Talwar

Varun Thapar / KCT Group

Lalwari Ferro Alloys Ltd

ITC Ltd

Tolaram Ratanlal Goenka Trust

### Kenya

Sandeep Mukherjee

Aysha Osman

### Khammam

D China Kameswara Rao

## Lucknow

Asha Mathur  
Sunil Kumar Singh

## Madhya Pradesh

K C Dhimole

## Maharashtra

Marina Bijoy  
A Ravi & R Gopalami

## Mumbai

M Adinarayana  
Rajendra Y Angle  
B R Barwale / Maharashtra Hybrid Seeds  
Co Ltd  
Rashmi Vasudeo Bhivapure  
Sailesh Desai / Sun Pharma Laboratories  
Ltd  
Parul Deshpande  
Pooja Laddha  
Rashida Nazim Matani  
Veena Patel  
A K Roongta / Govind Oils Mills Pvt Ltd  
Behram Sethna  
Rajkumar Seksaria / Shri Kudilal  
Govindram Seksaria Foundation  
Rajkumar Seksaria / Universal Cine Traders  
Pvt Ltd  
Madhu & Mahesh Thakker (Kantilal &  
Javerben Thakker & Family)  
-Embee Corporation  
-Balaji Trading  
-Pharm Aromatic Chemicals  
-Satyam Enterprises  
-Tirupati Traders  
Eye Bank Coordination & Research Centre

## Nalgonda

Rahul Bheemattam Anjagini

## Nagpur

Paresh Karia

## New Zealand

Bill Kite

## Nepal

Banwarilal Suresh Gatia

## Noida

Aditya Dubey

## Odisha

Kailash Natha Pandey

## Pune

Bisham N Hinduja  
Jaysinh Sakharam Konkar  
Tangudu Vinod Kumar  
Vijay Munshi  
Bijoy Vincent

## Rajasthan

Siddharth Solanki

## Singapore

Mast Polaki Jeel

## Srikakulam

Sanyasi Rao  
M Mohan Rao  
Gudla Sanyasamma  
Jami Krishna Swamy  
M V R Murthy / East Coast Development  
Foundation

## Tirupati

Penubala Lakshamma

## UK

Kameswara Rai Chivukula  
Lady Odile Slynn  
Parmajit Gill  
John W Paul  
Savitri Waney Charitable Trust

## Uttar Pradesh

Nidhi Pandey

## Vijayawada

Tumpati Adhikari  
K Lakshman Das  
Premilaben Dhansukhlal Kachiwala  
Ilapakurthi Nagesh  
Pinnamaneni Trivikrama Prasad  
P Lakshmi Pratap  
Yarlagadda Ramesh  
Lingineni Rajashekar  
A Srinivasa Rao  
K Sulochana  
Krishna Yalamanchi  
Bezawada Ladies Circle

## Visakhapatnam

A Adarsh  
Mahesh Althur  
Anand / The Presidential School  
Gunna Raja Babu  
P Anasuya Devi  
D Sita Devi  
Rani Kamala Devi  
A Ranga Rao Dora  
Kedarsetty Guptajee  
V Indumathi Gupta  
VTN Gupta  
Murala Gowtham  
Smt Pothinindi Kanaka  
Yelamanchi Krishna  
K Vijay Kumar  
M Vinaya Kumar  
Budharaju Suman Kumar  
G Kiran Kumar  
Sekha Ladia  
Kasim S Mehdi  
Sukla Mitra  
Y Suryanarayana Murthy  
G Adinarayana Murthy  
T S Murthy  
Adinarayana Murthy  
M V R Murthy / East Coast Development  
Foundation  
Ilapakurthi Nagesh

## T V Nagarajan

S Purushotham  
Grandhi Rajesh  
K Bangara Raju  
G Govinda Raju  
G Radha Krishna Raju  
Yarlagadda Ramesh  
V Raja Rao  
A Tata Rao  
K Uma Rama Rao  
L Narayana Rao  
A Srinivasa Rao  
G Govinda Rao  
G Srirama Chandra Rao  
Addepalli Rammohan Rao  
Kedali Ramachandra Rao  
D Rangaraju / Vijaynagar Biotech Ltd  
M Sudha Rani  
Raghu Rayala / RVR Projects Pvt Ltd T  
Ramanjaneya Reddy  
Gundla Sanyasamma  
M Satyanarayana  
N Satyanarayana  
T Satyanarayana  
N Satish  
T V K Sarma  
Manider Singh / Lotus Wireless  
Technologies India (P) Ltd  
Bhavani Sirisha  
J Sitamahalakshmi  
Kocharlakota Sridhar  
V Sreenu  
K Subhadra  
K Suryanarayana  
V Linga Swamy  
V R Tata  
Narayan & Sunanda Tilak  
Keshava Narayan Tilak  
P V K S Varma  
Netra Vidyalay  
Durgamma Charitable Trust  
Friends Aided Charitable Trust  
Harmony Food Pvt Ltd  
ICICI Lombard  
Kader Exports Pvt Ltd  
Koneru Charitable Trust  
Maa Kuthari Charitable Trust  
Neelima Times  
Pothunindi Kanakadurgamma Charitable  
Trust  
S V R Exim India Pvt Ltd  
Ravi Rays Indian Oil Dealers  
Sri Krishna Engineering Construction  
Company  
S R L Diagnostics Ltd  
Synergies Castings Ltd

## West Bengal

Anupam Pratik Kujur



# Our International & National Linkages (Past & Present)

## International

Abbott Medical Optics, USA  
 Adventus Technology Inc., USA  
 (Dr Paul Erickson)  
 AIBILI, University of Coimbra, Portugal  
 Aidmatrix Foundation, Inc (i2 Foundation), USA  
 African Academy of Sciences, Nairobi, Kenya (Dr Berhanu Abegaz)  
 Alcon, USA  
 AMO Groningen BV, The Netherlands  
 Allergan, USA  
 Arabian Healthcare LLC, UAE  
 Association for the Blind, Malaysia  
 Association for the Blind and Visually Impaired, Rochester, USA  
 B P Koirala Institute of Health Sciences, Nepal  
 Bartimeus, The Netherlands  
 Bausch & Lomb, USA  
 BHP Billiton, Australia  
 BIONIKO Consulting LLC, Florida, USA.  
 (Mr Andres Bernal)  
 Brien Holden Vision Institute, Sydney, Australia. (Prof Robert C Augusteyn / Prof Arthur Ho / Prof Brien Holden / Dr Padmaja Sankaridurg)  
 Brien Holden Vision Pty Ltd, Sydney, Australia (Dr Lutz Andersohn / Dr Paul Erickson / Dr Jason Watling)  
 BRISC CARR Group Limited, Canada  
 Bristol Eye Bank, Bristol Eye Hospital, UK  
 Cambridge University, UK  
 Canadian International Development Agency, Canada  
 Carl Zeiss, Germany  
 Case Western Reserve University, USA.  
 (Prof Sudha Iyengar)  
 Centre for Eye Research & Technology, Australia. (Prof Brien Holden / Dr Paul Baird)  
 Centre for Sight General Hospital, Sri Lanka  
 Centre of Excellence in Molecular Biology, Pakistan. (Prof Syed Riazuddin)  
 Champalimaud Foundation, Portugal.  
 (Dr Leonor Beleza / Mr Joao Silveira Botelho / Dr Andrew Teskar)  
 Children's Hospital of Florida, USA  
 Children's Hospital of Philadelphia, University of Pennsylvania, USA  
 Chinese University of Hong Kong, Hong Kong. (Prof Calvin Pang)  
 Christoffel Blindenmission, Germany.  
 (Dr Allen Foster)  
 Cicendo Eye Hospital, Indonesia  
 Combat Blindness Foundation, USA  
 College of Biomedical and Life Sciences, Cardiff University, Cardiff, Wales, UK.  
 (Prof Andrew J Quantock)  
 Consejo Superior de Investigaciones Científicas, Instituto de Óptica, Madrid, Spain.  
 (Prof Susana Marcos)  
 City University - Division of Optometry & Visual Science, London. (Prof Chris Hull / Ahalya Subramanian)  
 Dr Wahidin Sudiro Husodo General Hospital, Indonesia  
 Duke University Eye Centre, Durham, North Carolina, USA. (Prof Michael Hauser / Prof Rand Allingham)  
 Eyesight International, Canada (Dr Paul Dubord)  
 European School for Advanced Studies in Ophthalmology (ESASO), Switzerland  
 Flaum Eye Institute, University of Rochester Medical Center, USA. (Dr David Williams / Prof Steve Feldon)  
 Florida Atlantic University, Department of Biomedical Science, Boca Raton, Florida, USA. (Prof Marc Kantorow)  
 Flinders University, Australia. (Prof Luba Kalaydjieva / Prof Konrad Pesudovs)  
 Fred Hollows Foundation, Australia  
 GebauerMedizintechnik GmbH, Neuhausen, Germany. (Mr Steffen Gebauer / Mr Helmut Maas)  
 Good – Life Co, USA / Finland (Dr Lea Hyvarinen)  
 Hadassah University, Israel (Dr Pe'er)  
 Harvard University, USA. (Prof Joan Miller)  
 Helsinki University Eye Hospital, Helsinki, Finland. (Dr Jukka Moilanen)  
 Institute Salah Azaiz, Tunisia (Prof Gumiera Fethi)  
 International Agency for Prevention of Blindness, UK  
 International Association for Contact Lens Educators, Australia  
 International Federation of Eye & Tissue Banks, USA  
 Indiana University School of Optometry, Bloomington, USA. (Prof Sarita Soni)  
 Islamia Eye Hospital, Bangladesh  
 Johns Hopkins University, USA (Dr Debasish Sinha, Dr David Friedman)  
 John Hunter Hospital, New South Wales, Sydney, Australia. (Prof John Attia)  
 Jules Stein Eye Institute, University of California, USA. (Dr Suraj Bhat)  
 Kenyatta National Hospital, Nairobi, Kenya.  
 Latter-day Saint Charities, USA (Dr Ike Ferguson)  
 Lighthouse International, USA  
 Linkoping University, Sweden (Dr May Griffith)  
 Lions Eye Institute, Australia  
 Lions International, USA  
 London School of Hygiene & Tropical Medicine, UK (Dr Clare Gilbert, Dr GVS Murthy)  
 Massachusetts Eye and Ear Infirmary, Medical Lab, USA  
 Massachusetts Eye Research and Surgery Institution, Cambridge, Massachusetts, USA. (Dr C Stephen Foster)  
 Massachusetts Institute of Technology, (Dr N M / Dr P Sinha) and Media Lab, Ramesh Rasker  
 Mayo Clinic, USA. (Prof William Bourane)  
 Moorfields Eye Hospital, UK (Dr Robin Ali)  
 National Healthcare Group Eye Institute, Tan Tock Seng Hospital, Singapore (Dr Rupesh Agrawal)  
 National Foundation for Eye Research, Omaha, Nebraska, USA. (Prof Peter F Kador)  
 National Institute of Ophthalmology & Hospital, Bangladesh  
 National Institute of Sensory Organs, Japan  
 (Dr Takeshi Iwata)  
 National Institutes of Health, National Eye Institutes, USA (Dr Paul Sieving)  
 New York Eye & Ear Infirmary, New York, USA. (Prof Robert Ritch)  
 Northwestern University, USA  
 Ohio State University, USA. (Dr Angela Brown)  
 Operation Eyesight Universal, Canada.  
 (Dr Paul Dubord)  
 Optometry Giving Sight, Australia  
 ORBIS International, USA / India (Dr Rahul Ali)  
 OneSight Foundation, Luxottica, USA  
 Pakistan Institute of Community Ophthalmology, Pakistan  
 Queensland University of Technology, Australia  
 Queen Elizabeth Diamond Jubilee Trust (QEDJT) (supporting training of Ophthalmologists from Africa and west Asia region) UK  
 Rochester Institute of Technology, Rochester, USA  
 Rotary International, USA  
 Santen Inc, USA (Dr Michael Rhinehart)  
 Service de Biologie, Cinique Institute, Salah Azaiz, Tunisia  
 SightLife, USA (Dr Monty Montoya)  
 Sightsavers, UK  
 Singapore Eye Research Institute, Singapore. (Prof Tin Aung / Dr Eranga Vithana)  
 Stanford Graduate School of Business, USA  
 SUNY School of Optometry, USA  
 Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Harvard Medical School. (Dr Eli Peli/Dr Gang Luo)  
 Thadikonda Research Foundation, Inc, USA.  
 (Dr Paul Thadikonda)  
 The Cooperative Research Center for Eye Research & Technology, Australia  
 (Prof Brien Holden)  
 The Hadley School for the Blind, USA  
 The Tun Hussein On National Eye Hospital, Malaysia  
 Tufts University of Medicine, USA  
 The Royal Australian and New Zealand College of Ophthalmologists (RANZCO) supporting HR development in Asia Pacific region, Australia  
 University of Hamburg, Hamburg, Germany  
 (Dr Brigitte Roeder)  
 University of Aberdeen, UK

University of California, San Diego, USA. (Prof Robert Weinreb)  
 University of California Berkeley School of Optometry, Berkeley, USA. (Prof Clifton Schor / Dr Nance Wilson)  
 University of Campinas, Brazil. (Dr Monica Melo)  
 University of Sao Brazil (Dr Rubens Belfort)  
 University of Florida, USA (Dr K V Chelam)  
 University of Heidelberg, Germany (Dr Jost Jonas)  
 University of Houston College of Optometry, Houston, USA. (Prof Earl Smith III)  
 Dept of Ophthalmology, University of Kentucky, Lexington KY, USA. (Dr Jay Ambati)  
 University of Iowa, USA. (Dr John Fingert)  
 University of Melbourne, CERA, Australia (Prof Jonathan Crowston)  
 University of Melbourne, CERA, Australia (Dr Paul Baird)  
 University of Miami Miller School of Medicine, Bascom Palmer Eye Institute,

Miami, Florida, USA. (Dr Eduardo C Alfonso / Prof FabriceManns / Prof Jean-Marie Parel)  
 University of Miami College of Engineering, Department of Biomedical Engineering, Coral Gables, Florida, USA. (Prof FabriceManns / Prof Jean-Marie Parel)  
 University of Nairobi, Kenya  
 University of Nebraska Medical Center, USA. (Dr Iqbal Hamed)  
 University of New South Wales, School of Optometry and Vision Science, Sydney, Australia. (Prof Robert C Augusteyn / Prof Arthur Ho / Prof Mark Willcox / Dr Isabelle Jalbert / Prof Fiona Stapleton)  
 University of North Carolina School of Medicine, Department of Cell Biology and Physiology, Chapel Hill, North Carolina, USA. (Prof Martin Joseph Costello / Dr Kurt O Gilliland)  
 University of Sheffield, Sheffield South York. (Prof Stephen Rimmer / Dr Sheila

Mac Neil)  
 University of Nottingham, UK  
 University of Ottawa, Canada  
 University of Pittsburgh Medical Center, USA. (Dr Jim Funderberg)  
 University of Sao Paulo, Brazil. (Prof Rubens Belfort)  
 University of South Carolina, USA  
 University of Southern California (Narsing A Rao)  
 University of Toronto, Canada  
 University of Iowa, USA. (Dr Edward Stone)  
 Vanderbilt University, Department of Biochemistry, Nashville, Tennessee, USA. (Prof Kevin L Schey)  
 Wellcome Trust, UK. (Dr Jeam Farrar)  
 Wharton School (University of Pennsylvania), USA  
 William Beaumont Hospital, USA  
 Wills Eye Hospital, USA. (Dr Jerry Shields/ Dr Carol Shields)  
 World Diabetes Foundation, Denmark  
 World Health Organization, Switzerland.  
 Yangon Eye Hospital, Myanmar

## National

ACE Experiences Asia Pvt Ltd (DID), Hyderabad  
 Action on Disability and Development India, Bengaluru  
 Analinear Technologies, Hyderabad  
 Ali Yavar Jung National Institute for the Hearing Handicapped, Secunderabad  
 Anthropological Survey of India, Kolkata  
 Aravind Eye Care System, Madurai  
 Armed Forces Medical Services, Pune (Dr Venu Nair)  
 Banaras Hindu University, Department of Ophthalmology, Varanasi  
 Bhabha Atomic Research Centre, Mumbai. (Dr Srikumar Baveja)  
 Bharat Petroleum Corporation Limited, Mumbai  
 Bioinovat Research Services Pvt Ltd, New Delhi  
 Biomedical Foundation of India, Mumbai  
 Bio-Medix Optotechnik & Devices Pvt Ltd, Bengaluru  
 Birla Institute of Technology and Science, Pilani. (Prof B N Jain, Prof VS Rao)  
 Blind People's Association, Ahmedabad  
 CBR Forum, Bengaluru  
 Centre for Cellular and Molecular Biology, Hyderabad. (Dr Mohan Rao)  
 Centre for DNA Fingerprinting and Diagnostics, Hyderabad. (Dr J Gowrishankar)  
 Centre for Human Genetics, Bengaluru.  
 C L Gupta Eye Institute, Moradabad. (Dr Ashi Kurana)  
 Consolidated Products Corporation Pvt Ltd, New Delhi.  
 Council for Advancement of People's Action, New Delhi.  
 Council of Scientific & Industrial Research, Government of India, New Delhi  
 Charities Aid Foundation (Microsoft Aid Agency) New Delhi  
 Department of Biotechnology, Government of India, New Delhi. (Prof S Vijay)  
 Department of Science & Technology, Government of India, New Delhi. (Dr T K Chandrashekar)

District Blindness Control Society, Hyderabad  
 Dr Reddy's Laboratories, Hyderabad. (Mr G V Prasad / Mr Satish Reddy)  
 Essilor India Pvt Ltd, Bengaluru  
 Eye Bank Association of India, Hyderabad  
 Fernandez Hospital, Hyderabad (Dr Evita Fernandez)  
 Fullerton India Credit Company Ltd, Mumbai  
 GE Volunteer Funding, Hyderabad  
 Guru Nanak Dev University, Amritsar with Prof Amarjit Bhanwer  
 Holy Cross College, Tiruchirappalli.  
 Indian Council for Medical Research, New Delhi. (Dr V M Katoch)  
 Indian Institute of Chemical Biology, Kolkata. (Dr Sidhartha Ray)  
 Indian Institute of Information Technology, Hyderabad. (Dr P G Narayan)  
 Indian Institute of Public Health, Hyderabad  
 (Dr GVS Murthy)  
 Indian Institute of Science, Bengaluru. (Mr P Balram)  
 Indian Institute of Technology, Hyderabad.  
 Indian Orthocane Surgicals, Chennai  
 Indian Statistical Institute, Kolkata  
 India Vision Institute, Hyderabad. (Mr Vinod Daniel)  
 Indira Gandhi National Open University, New Delhi  
 Institute of Health Systems, Hyderabad  
 Institute of Life Sciences, Bhubaneswar. (Dr Satish Devadas)  
 International Human Resource Development Centre, Coimbatore  
 JPM Rotary Eye Hospital, Cuttack  
 JP Singh Associates, New Delhi  
 Kode Venkatadri Chowdary Charitable Society, Vijayawada  
 Mahindra Comviva, Bengaluru.  
 Micro Vision, Ahmedabad  
 Milmet Laboratories Pvt Ltd, Ahmedabad  
 Narotam Sekhsaria Foundation, Mumbai  
 National Institute of Biomedical Genomics, Kalyani, West Bengal. (Prof Partha Majumder)

National Institute for Mentally Handicapped, Secunderabad  
 National Institute for the Visually Handicapped, Dehradun  
 National Institute of Mental Health and Neuro Sciences, Bengaluru. (Dr T R Raja)  
 National Institute of Nutrition, Hyderabad.  
 Nava Bharat Ventures Ltd, Hyderabad  
 Nimmagadda Foundation, Hyderabad  
 NTPC Foundation, New Delhi  
 Presidency University, Kolkata. (Dr Anuradha Lohia)  
 Quality Care India Pvt Ltd (Care Hospital), Hyderabad  
 Roy A Kite foundation, Ladakh. J & K: Mr Bill Kite  
 Sadguru Netra Chikitsalaya, Chitrakoot  
 Sankara Nethralaya, Vision Research Foundation, Chennai. (Dr Badrinath)  
 Sarva Shiksha Abhiyan, Hyderabad  
 Sir Ratan Tata Trust, Mumbai  
 Society for the Elimination of Rural Poverty, Hyderabad  
 State Council of Education Research and Training, Hyderabad  
 Tech Mahindra Foundation, Hyderabad  
 Thakur Hari Prasad Institute for Research and Rehabilitation of Mentally Handicapped, Hyderabad  
 The Calcutta Medical & Research Institute, Kolkata  
 The Helen Keller Institute for Deaf and Deafblind, Mumbai  
 The Toy Bank, New Delhi  
 Tata Tribal Cultural Society (TCS), (Training of ONA) (India)  
 University of Hyderabad, Hyderabad. (Dr Geeta Vemaganti / Dr R Ramaswamy / Dr B R Shamanna)  
 Uurmi, Hyderabad  
 VEBART Trust, Visakhapatnam  
 VIMTA Laboratories, Hyderabad. (Mr S P Vasireddi)  
 Vision For India, New Delhi  
 VISION 2020: The Right to Sight, India  
 Wishing Well Online, Mumbai









# The LVPEI Eye Health Pyramid



## Vision

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

## Mission

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



L V Prasad Eye Institute  
Kallam Anji Reddy Campus  
L V Prasad Marg, Banjara Hills  
Hyderabad 500034, India  
Tel: +91 40 3061 2345  
Fax: +91 40 2354 8271  
Email: info.hyd@lvpei.org

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Patia, Bhubaneswar 751024  
Odisha, India  
Tel: +91 0674 3989 2020  
Fax: +91 0674 3987 130  
Email: info.bbsr@lvpei.org

L V Prasad Eye Institute  
G M R Varalakshmi Campus  
Door No: 11-113/1  
Hanumanthawaka Junction  
Visakhapatnam 530040  
Andhra Pradesh, India  
Tel: +91 0891 398 4555  
Fax: +91 0891 398 4444  
Email: info.vizag@lvpei.org

L V Prasad Eye Institute  
Kode Venkatadri Chowdary Campus  
Tadigadapa, Vijayawada 521137  
Andhra Pradesh, India  
Tel: +91 0866 306 2020  
E-mail: kvc-appointment@lvpei.org



Excellence • Equity • Efficiency