Excellence
Equity
Efficiency

25 Years of Sight, Strength, Dedication, Care
Sisir Sahana, Glass and Mixed Media 2012

L V Prasad Eye Institute
Kallam Anji Reddy Campus
L V Prasad Marg, Banjara Hills
Hyderabad 500 034, India
Tel: 91 40 3061 2345
Fax: 91 40 2354 8271
email: info.hyd@lvpei.org

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Fax: 91 0674 3987 130
email: info.bbsr@lvpei.org

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Fax: 91 0891 398 4444
email: info.vizag@lvpei.org

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Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada 521 137
Andhra Pradesh, India
Tel: 91 0866 3062020
e-mail: kvc-appointment@lvpei.org
**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.
Celebrating 25 years of

THE LVPEI

Centre of

Tertiary Care

Secondary Care

Primary Care

Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad
Seshanna Chennawar Eye Centre, Adilabad
Kuchukulla Ramachandra Reddy Eye Centre, Thoodukurthy, Mahbubnagar
Venkata Lakshmi Eye Centre, Karamchedu, Prakasam
Sudhakar & Sreekanth Ravi Eye Centre, Markapuram, Prakasam
Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam

Bhainsa
Kubeer
Nandipet
Navipet
Kallur
Lokeshwaram
Tannur

Utnoor
Boath
Jainath
Bela
Narnoor
Jainoor
Jamnaram
Medapet
Talamadugu
Gudihatmoor
Echoda
Indervelly

Wanaparthy
Achampet
Nagarkurnool
Kothakota
Kollapur
Ghanapuram
Bijnapally
Telkapally
Kalwakurthy
Lingala
Amangal

Parchuru
Panguluru
Pedanandipadu
Yeddnapudi
Marturu
Ballikuruva
Epurupalem
Chinnaganjam
Naguluppalapadu
Vetapalem

Tripuranchakam
Yerragondapalem
Dornala
Cumbum
Bestavaripeta
Giddalur
Podili
Darsi
Kurichedu
Chimakurthi

Tangutur
Kondapi
Lingasamudram
Chandrasekharapuram
Singarayakonda
Pamuru
Ulavapadu
Medarmet
Santhanushalapadu
Kothapatnam
The LVPEI Eye Health Pyramid

50 million population

5 million population

500,000 – 1 million population

50,000 population

5000 population

Network Excellence

Centres

Service Centres

Vision Centres

City/Extnt Centres at

Hyderabad

Visakhapatnam

Vijayawada

Nimmanapalle

B Kothakota

Yellandu

Kallur

Manuguru

Ashwapuram

Dammmapet

Tekulapally

Chandragonda

Tallada

Charla

Visakhapatnam

Shrungavarapukota

Chodavaram

Revidi

Gajapathinagaram

Yalamanchili

Kailasapatnam

Govindapuram

Kothavalasa

K Kotapadu

Kasimkota

Ravulapalem

Urban

Rammagar

Kisnapur

Vijayawada

Kapileshwarapuram

Kovvali
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), we have provided eye care services to hundreds of thousands of people, without compromising on quality.

This year, we reached a total of 2,891,423 people including 270,866 children through these various levels of care. Of this almost 2.5 million (2,483,172) received eye care services entirely free of cost as part of our community programs and through our higher-level facilities.

Ripples from our circle of impact on people’s life and sight continue to spread beyond our campuses’ and nation’s boundaries.

### 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), we have provided eye care services to hundreds of thousands of people, without compromising on quality.

This year, we reached a total of 2,891,423 people including 270,866 children through these various levels of care. Of this almost 2.5 million (2,483,172) received eye care services entirely free of cost as part of our community programs and through our higher-level facilities.

Ripples from our circle of impact on people’s life and sight continue to spread beyond our campuses’ and nation’s boundaries.

#### PATIENT CARE service delivery

**COMMUNITY EYE HEALTH PROGRAMS**

*Entirely free of cost*

<table>
<thead>
<tr>
<th></th>
<th>Population covered by door to door surveys</th>
<th>Population screened</th>
<th>Schools &amp; Anganwadis (creches) covered</th>
<th>Population reached</th>
<th>Children screened</th>
<th>Total reached</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,930,061 (1989 villages surveyed)</td>
<td>131,980 (1667 community programs)</td>
<td>1627</td>
<td>1,930,061</td>
<td>207,575</td>
<td>2,137,636</td>
</tr>
</tbody>
</table>

#### OUTPATIENT free of surgeries free of visits free of cost

<table>
<thead>
<tr>
<th></th>
<th>VISITS</th>
<th>FREE OF COST</th>
<th>SURGERIES</th>
<th>FREE OF COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY EYE CARE</td>
<td>88 Vision Centres</td>
<td>171,623</td>
<td>100%</td>
<td>–</td>
</tr>
<tr>
<td>SECONDARY EYE CARE</td>
<td>10 Service Centres</td>
<td>122,120</td>
<td>40%</td>
<td>15,080</td>
</tr>
<tr>
<td>TERTIARY EYE CARE</td>
<td>Bhubaneswar</td>
<td>90,276</td>
<td>23%</td>
<td>8964</td>
</tr>
<tr>
<td></td>
<td>Visakhapatnam</td>
<td>81,690</td>
<td>32%</td>
<td>8960</td>
</tr>
<tr>
<td></td>
<td>Vijayawada</td>
<td>36,734</td>
<td>32%</td>
<td>1850</td>
</tr>
<tr>
<td>ADVANCED TERTIARY (QUATERNARY) CARE</td>
<td>Hyderabad</td>
<td>251,344</td>
<td>26%</td>
<td>41,092</td>
</tr>
<tr>
<td>Total</td>
<td>753,787</td>
<td>46%</td>
<td>75,946</td>
<td>48%</td>
</tr>
</tbody>
</table>

*Includes 63,291 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 | 154,481 | 43% | 20,367 | 67%
## The Network Grows

<table>
<thead>
<tr>
<th>In operation</th>
<th>Partnerships</th>
<th>In process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre of Excellence</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Tertiary Centres</td>
<td>3</td>
<td>17 (15 National &amp; 2 International)</td>
</tr>
<tr>
<td>Service Centres</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>Vision Centres</td>
<td>88</td>
<td>37</td>
</tr>
</tbody>
</table>

**Capacity building collaborations**

- Technical consultancy: 16 in specific areas

---

### REHABILITATION providing a better quality of life

- Sight enhancement client visits (low vision): 6351
- Vision rehabilitation client visits: 10,973
- Community based rehabilitation: 509

### EYE BANKING facilitating the gift of sight

Includes community eye banks on our campuses

<table>
<thead>
<tr>
<th>Corneas harvested</th>
<th>Hyderabad</th>
<th>Bhubaneswar</th>
<th>Visakhapatnam</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3665</td>
<td>501</td>
<td>447</td>
<td>4613</td>
</tr>
</tbody>
</table>

### EDUCATION enhancing skills & building human resources

- Ophthalmologists: 199
- Other eye care professionals: 445
- Participants in CME and other programs: 2535

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

### RESEARCH pushing the frontiers

- Presentations
  - International: 245
  - National: 361
  - Publications: 179
  - Honors and awards: 68

---

**Around the World**

- Patient care
- Education
- Research
- Collaborations
LV Prasad Institute

Kallam Anji Reddy Campus, Hyderabad

Director & Dr Kallam Anji
Reddy Distinguished Chair of Ophthalmology
G Chandra Sekhar

Associate Director
Rupesh Kumar, Operations

Clinical Services
Cornea & Anterior Segment
Virender S Sangwan
Bhupesh Bagga
Sayan Basu
Sunita Chaurasia
Prashant Garg
Pravin V Krishna
R Murailidhar
Somasehla Murthy
Varsha Rathi
Mohammed M Dige
Mukesh Taneja
Kunjil Sejpal
Bidula Das
Tanima Gosh
S Kartheek Kumar
Preetam Kumar
Haresh Poturi
Suresh Ramavath
P Veerendranath

Bausch & Lomb Contact Lens Centre
Varsha Rathi
Pravin V Krishna
Preetam Kumar
K Prathasarathe
Haresh Poturi
D Srijith
Prejith M Sudharman
T Sivandram

Laser Refractive Surgery
Pravin V Krishna
Bhupesh Bagga
Prashant Garg
R Murailidhar
Somasehla Murthy
Varsha Rathi

VST Centre for Glaucoma Care
G Chandra Sekhar
Nikhil S Choudhari
Anil K Mandal

Consultant Ophthalmologists
Consultant Optometrists

Network

Gullapalli N Rao
Chair
Member, Executive Committee
G Chandra Sekhar
Director, Hyderabad Campus
Member, Executive Committee
Prashant Garg
Education
Member, Executive Committee
Savitri Sharma Laboratories
V Rajasekhar
New Projects & Development
Rajiv Kumar M S

Usha Gopinath
Operations
Member, Executive Committee
HSD Srinivas
Human Resource
Member, Executive Committee
Santhosh G Honavar
Residency Training, Accreditation & EMR
Member, Executive Committee
Sreedevi Yadavalli
Communications
Ghanshyam Singh
Optics – Technology & Training
G Sridhar
Properties & Maintenance
Vanita Pathak-Ray
Harsh B L Rao
Sirisha Senthil
J Ganesh Babu
Aditya Chaitanya
Ravi Kumar
A Uday Kumar
Tukaram Kumbar
Subhada Jalali
Ajit B Maji
Anne Mathai
Raja Narayan
Rajeev Reddy Pappuru
Varsha Rathi
Nikhil S Choudhari
Anil K Mandal

D Balasubramanian
Research
Member, Executive Committee
K Annapurna Devi
Technology
Gopal Aiyer
Finance & Accounts
Member, Executive Committee
Nagavardhan Reddy
Opticals – Operations
K V Subba Rao
Finance & Accounts
Venkatesh M Reddy
Trust Affairs & Chairman’s Office

R Murailidhar
Padmaja K Rani
Joseph Mollah
Srividya
Strabismus/Neuro-ophthalmology
Ramesh Kekunnaya
Nikhil S Choudhari
Anil K Mandal

Uveitis & Ocular Immunology
Virender S Sangwan
Annie Mathai
Somasehla Murthy
Raja Narayan
Rajeev Reddy Pappuru
J Ganesh Babu
A Uday Kumar
Tukaram Kumbar

Comprehensive Ophthalmology
Rohit Khanna
Bhupesh Bagga
Mukesh Taneja
Kunjil Sejpal
Anjul Kumar
Krishnendu Mandal
Sara Quadri
M Madhava Reddy

Aesthetic Facial Plastic Surgery
Milind N Naik
Gautam Dendukuri

Anesthesia Services
MS Prasad
PG Koshy
Nageshwar Rao
S Ravinder
CMV Reddy
Nageshwar Reddy
P Sreedhar
P Srimulai
D Sukesh

Internal Medicine
Archana Bhargava
Mohammad Abdul Bashir
Dietician
A Rama Devi

Meera & L B Deshpande Centre for Sight Enhancement & Dr PRK
Prasad Centre for Rehabilitation of Blind & Visually Impaired
Vijaya K Cathwal
Beulah Christian
Hemalatha Arunachalam
Deepak K Bagga
Babalu Sara Koshy
Mojadda Mahalakshmi
Seelam Bharani
P Shalaija Reddy
C Rebecca Sumalini

Ramayamma International Eye Bank
Usha Gopinath
Prashant Garg
Brinda P Ramachandran

Mark Nathaniel Thadikonda and Vijayamma Nannepaga Centre for Eye Care Education
Director and G Chandra Sekhar
Distinguished Chair of Education
Prashant Garg

LVPEI-Zeiss International Academy of Advanced Ophthalmic Education
Vanita Pathak-Ray
Varsha Rathi
Bausch & Lomb School of Optometry
Principal
P K Sai Prakash

Administration
Shaik Yousof Arfat
Prof Brien Holden Eye Research Centre
Director and Distinguished Chair of Eye Research
D Balasubramanian

Jhaveri Microbiology Centre
Sayuri Sharma Das
Guru Prasad
Swapan Reddy

Celebrating 25 years of
Saroj A Rao Immunology Laboratory
Savithi Sharma Das
Guru Prasad
Swapna Reddy

Kallam Anji Reddy Molecular Genetics Laboratory
Oslo Kannabiran
Subhabrata Chakrabarti
Inderjeet Kaur

Sudhakar & Sreekant Ravi Stem Cell Biology Laboratory
Indumathi Maniappan
Virender S Sangwan

Ophthalmic Pathology Lab
Kaustubh Mulay

Visual Optics and Psychophysics Laboratory
Shrinkant R Bharadwaj

Clinician Scientists
Virender S Sangwan
Somnathela Murthy
Sayan Basu

Clinical Research
Bidula Das
Samartr Sarkar
P Veerendranath

Administration
Jai Ganesh

International Centre for
Advancement of Rural Eye care,
Kismatpur Campus

Director
Rohit Khanna

Executive Director
Sashi Mohan

Ramachandra Pararajasegaran
Community Eye Health Education Centre
S Sheela Devi
Sashi Mohan
Padmaja K Rani
S Krishnaiah
Srinivas Marmamula
Kovai Vilas

GMR Varalakshmi Campus, Visakhapatnam

Director
Merle Fernandes

Cornea & Anterior Segment
Merle Fernandes
15 Murthy
Rekha Guntheru
Gouthami Kapila
Appanna Gorivilla
Kanika Saha

Contact Lens & Refractive Surgery
Merle Fernandes
15 Murthy
Rekha Guntheru
Appanna Gorivilla
Kanika Saha
DSV Ramkumar

Glaucoma
P V K S Varma

Retina & Vitreous
Avinash Pathengay
Kapil Bhatai
Manav Khera
Anand Kumar P

Nimmaagadda Prasad
Children’s Eye Care Centre
Virender Sachdeva
Merle Fernandes
Manju Meena
PVKS Varma
Vaibhev Mittal

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology
Manju Meena

Strabismus/ Neuro-ophthalmology
Virender Sachdeva
Vaibhev Mittal
Rekha Guntheru
Gouthami Kapila

Uveitis
Avinash Pathengay
Manav Khera

Bob Oshlmson Centre for Sight Enhancement
Rekha Guntheru
Dharmi Nanda
Lakshmi Dwara
Akshal Gold C
Saranya V
Radhika P

Ocular Microbiology Service
Nagendra Kumar

Anesthesia Services
Morton Anesthesia Allied Services Pvt Ltd

Pathak Centre for Eye Care Education
Avinash Pathengay

Administration
B Anjaneyulu
K Lokesh
B V S Mallikarjun Rao
K Veerasamy
S V Suresh Kumar
K Gopal Rao

Mohsin Eye Bank*
Merle Fernandes

* Community eye banks on our campus

Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada

Cornea & Anterior Segment
Atul Kumar Sahu

Glaucoma
Pradeep K Reddy
Arpita Bhaskar

Retina & Vitreous
Atul Kumar Sahu

The David Brown Children’s Eye Care Centre
Nirajan K Pehere
Pradeep K Reddy
Atul Kumar Sahu

Neuro-ophthalmology
Nirajan K Pehere

Consultant Optometrists
BVL Narayana
P Srinivas Rao
M Sathish
Kelly Vidyasagar
M Venkatesh

Centre for Sight Enhancement
A Narasiah

Jachin David Williams
K Jayoshi

Allen Foster Community Eye Health Research Centre
Srinivas Marmamula
S Krishnaiah
Padmaja K Rani
Kovai Vilas
Gririshara Pyda

Programs & Projects
V Rajasekhar
Gullapalli N Rao

Administration
S Babu Rao
Narsing Rao

Bhubaneswar Campus, Bhubaneswar

Director
Taraprasad Das

Cornea & Anterior Segment
Sujata Das
Srikant K Sahu

Contact Lens & Refractive Surgery
Sujata Das
Srikant K Sahu
Santanu Jana

Glaucoma
Sanghamitra Dash
Aparna Rao

Retina & Vitreous
Sreerama Basu
Taraprasad Das
Tapas Ranjan Padhi
Souvik Mandal

NTPC Centre for Diabetic Eye Disease
Taraprasad Das
Sreerama Basu
Tapas Ranjan Padhi
Souvik Mandal

NTPC Centre for Sight Enhancement & Rehabilitation of Visually Challenged
Sumita Limna
Ch Sirajum Monira

Ocular Microbiology Service
Sreerama Basu
Sarita Kar

Dalmia Ophthalmic Pathology Service
Ruchi Mittal

Anesthesia Services
Debendranath Das

Pathak Centre for Eye Care Education
Krishna Charan Padhy

Administration
Prakash Das

B Anjaneyulu
K Lokesh
B V S Mallikarjun Rao
K Veerasamy
S V Suresh Kumar
K Gopal Rao

Ocular Microbiology Service
Nagendra Kumar
Boards of Management

L V Prasad Eye Institute is managed by two not-for-profit trusts: the Hyderabad Eye Institute (HEI) and the Hyderabad Eye Research Foundation (HERF). Both HEI and HERF are registered under the Society Act. The Hyderabad Eye Institute oversees the activities of the eye hospital, while the Hyderabad Eye Research Foundation is in charge of all research programs pursued at LVPEI.

Hyderabad Eye Institute
Chair
Dr Gullapalli N Rao
Distinguished Chair of Eye Health
L V Prasad Eye Institute
Hyderabad

Members
Dr K Anji Reddy
Chairman, Dr Reddy’s Laboratories Ltd
Hyderabad

Prof Palle Rama Rao
Distinguished Professor
International Advanced Research Centre for Powder Metallurgy & New Materials
Hyderabad

Mr A Ramesh Prasad
Managing Director, Prasad Film Laboratories Ltd
Hyderabad

Dr M Rammohan Rao
Dean Emeritus, Indian School of Business
Hyderabad

Mr Nimmagadda Prasad
Chairman, VANPIC Ports Pvt Ltd
Hyderabad

Dr K Ravindranath
Chairman, Global Hospitals
Hyderabad

Mr Ravi Reddy
Chairman, THINK Capital
New Jersey, USA

Prof K Srinath Reddy
President, Public Health Foundation of India
New Delhi

Prof Seyed E Hasnain
Professor, Biological Sciences
Indian Institute of Technology
New Delhi

Dr V Raghunathan
Chief Executive Officer, GMR Varalakshmi Foundation
Hyderabad

Dr F C Kohli
Chairman Emeritus, Tata Consultancy Services Ltd
Mumbai

Mr S Krishna Pathak
Chairman, Al Basti & Muktha LLC
Dubai, UAE

Dr G Chandra Sekhar (Ex-officio)
Director, L V Prasad Eye Institute, Hyderabad

Dr Taraprasad Das (Ex-officio)
Director, L V Prasad Eye Institute, Bhubaneswar

Dr Usha Gopinathan (Ex-officio)
Executive Director, L V Prasad Eye Institute, Hyderabad

Hyderabad Eye Research Foundation
Chair
Prof Nirmal K Ganguly
Distinguished Biotechnology Professor
Translational Health Science & Technology Institute
C/o National Institute of Immunology
New Delhi

Secretary & Treasurer
Dr Gullapalli N Rao
Distinguished Chair of Eye Health
L V Prasad Eye Institute
Hyderabad

Members
Dr S P Vasireddi
Chairman & Managing Director
Vimta Labs
Hyderabad

Prof Anuradha Lohia
Professor, Bose Institute
Kolkata

Mr Peter T Hassan
Advisor (Industries)
Government of Andhra Pradesh
New Delhi

Mr Syamal Gupta
Director
TATA Sons Limited
Mumbai

Dr A V Rama Rao
Chairman & Managing Director
AVRA Laboratories Pvt Ltd
Hyderabad

Prof S K Sarin
Director, Institute of Liver & Biliary Sciences
New Delhi

Prof D Balasubramanian (Ex-officio)
Director – Research
L V Prasad Eye Institute
Hyderabad

Dr G Chandra Sekhar (Ex-officio)
Director, L V Prasad Eye Institute
Hyderabad

Dr Taraprasad Das (Ex-officio)
Director, L V Prasad Eye Institute
Bhubaneswar

Dr Usha Gopinathan (Ex-officio)
Executive Director, L V Prasad Eye Institute
Hyderabad
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All outdoor pictures are from our campuses.
Foreword

Most of 2011 – 2012 was part of our very eventful Silver Jubilee Year. Setting up of new goals to celebrate this event, conceiving and implementing new programs, and visits from various luminaries from diverse fields of interests helping to broaden our outlook…marked the excitement throughout the year. In the midst of all these “specials”, our focus on providing high quality eye care to everyone who came to us never wavered.

There are many news worthy of mention, but of special note are those relating to size and reach and to quality. Our footprint has now expanded to 107 locations (We Scored a Century!) and many campuses having added more physical space. An official stamp of approval for our quality came when we became the first major eye institute in India to receive accreditation from the National Accreditation Board for Hospitals and Healthcare providers (NABH). Both were no mean achievements, given the significance of each. The team at LVPEI and the many friends and supporters behind this effort deserve special appreciation.

Among the new developments was the pleasant decision to recognize some global leaders who had made significant contributions over many years to our overall growth and development. Prof Allen Foster of London inspired me to pursue the path of community eye health (quite a departure for someone trained as a corneal specialist!) and continued to provide us immense support in a number of ways as this component of ours flourished. In recognition, the research component of our International Centre for Advancement of Rural Eye care (ICARE) was named after him. Similarly, to recognize the global statesman of community eye health, Dr R Pararajasegaram, we have named the education component of ICARE after him. Para has been a guru to most of us at LVPEI and, through his frequent visits and even more frequent electronic transmissions of some stimulating scholarly works, has helped to keep our community eye health team sharp. Paul Dubord, the renowned corneal surgeon from Vancouver, Canada, has been an ardent advocate of our corneal transplantation effort. He guided and supported us to make this component of our work world class and, consequently, LVPEI one of the busiest corneal transplantation units in the world. Paul was honoured with the creation of the “Dr Paul Dubord Chair of Cornea”.

The numbers achieved this year tell a story of what the institute is all about – cutting-edge work at the top, clearly evidenced by a tally of 179 publications this year, combined with door-to-door screening of over 2 million people in rural areas through a dedicated force of field workers, linked to some of the 88 primary care Vision Centres at the “bottom of our pyramid” in our network. All this emphasizes what our brand stands for – the unique blend of the pursuit of excellence with a strong societal commitment.
Our residency training program is nascent but the performance of the next generation of ophthalmologists makes us proud with their exceptional achievements, excellent record in all the tests and winning of coveted national awards. The efforts that have gone into building a strong foundation are bearing fruit. We are happy that after some initial hesitation in launching residency training, this addition to our educational endeavor has made us proud.

I have often talked about “rehabilitation” being a signature feature of our work and it has been an integral part of the institute, almost since its inception. When we crossed the milestone of serving 100,000 clients till date, it was certainly a cause for celebration. Those who are familiar with this kind of work would appreciate what a mammoth achievement this is.

Many lives were touched, many careers were built, many aspirations were realized, many eye care professionals were shown a new direction and new tools were developed. My compliments to our amazing team involved in this work.

Awards and accolades were too numerous to mention but the fact that individuals from many of our different groups figured in this list is something to celebrate. Kudos to each of them, for not only enhancing their personal record, but also the image of the institute.

As I write this foreword, we are about a week away from our Silver Jubilee Anniversary, an event that will bring some of the best minds in our field to Hyderabad. We hope that their brilliance will ignite many minds of the next generation who will take us from our “silver” years to our “golden” years.

Gullapalli N Rao
Chair, Board of Trustees
The Year in Review

LVPEI's Kallam Anji Reddy Campus at Hyderabad received accreditation from the National Accreditation Board for Hospitals & Healthcare Providers (NABH) for 3 years – June 10, 2011 to June 9, 2014!

The LVPEI Network Grows...

Over 100 Locations and Counting

In its 25th year, the Institute continues to expand its reach and range to deliver excellent eye care services to many more of the unreached population, with expansions and growth at several levels. As 16 primary, 1 secondary and 3 city/extension centres were launched, we reached a century – working out of more than 100 locations – and then crossed the milestone before the end of 2011.

Some other landmark events of our Silver Jubilee Year were:

- Laying of the foundation stone of our new building at the Kallam Anji Reddy campus at Hyderabad, supported by Mr V C Janardan Rao, Chair, Veljan Hydraulics Ltd, Hyderabad, and named in honor of his mother, Smt Velamati Soubhagyavathamma
- Setting up the “Pathak Centre for Eye Care Education” at Visakhapatnam campus, with support from Mr S K Pathak, Chair, ABM Group, Dubai
- Setting up the “Pathak Centre for Eye Care Education” at Bhubaneswar campus and inauguration of its hostel, the Residence Hall – ‘Inspiration’, with support from Mr S K Pathak, Chair, ABM Group, Dubai
- Expansion and strengthening of the Education Centre at Hyderabad, with support from Dr Krupakar Paul Thadikonda, Chair, Thadikonda Research Foundation, Frederick, USA. The Education Centre has been named the “Mark Nathaniel Thadikonda and Vijayamma Nanepaga Centre for Eye Care Education.”
- Naming the education component of our International Centre for Advancement of Rural Eye care (ICARE) the “Ramachandra Pararajasegaram Community Eye Health Education Centre” in honor of Dr R Pararajasegaram, former WHO Regional Advisor and Consultant, and former President, International Agency for the Prevention of Blindness
- Naming the eye research component of ICARE the “Allen Foster Community Eye Health Research Centre” in honor of Prof Allen Foster, President of CBM and Co-director, International Centre for Eye Health, London School of Hygiene and Tropical Medicine, UK
- Establishment of the “Dr Paul Dubord Chair of Cornea” to acknowledge the support received for over two decades towards our eye banking activities and cornea fellowships from Prof Paul Dubord, Clinical Professor of Ophthalmology, University of British Columbia, Vancouver, Canada; founder, Eyesight International, Canada, and Chair, SightLife, USA.
Village Vision Complex

Secondary Care
LVPEI’s 10th rural secondary care centre – Dr Kommareddy Raja Ram Mohan Rao Eye Centre at Gudavalli village in Cherukupalli mandal, Guntur district, Andhra Pradesh, was inaugurated on August 24, 2011. Located in a beautiful building, surrounded by green fields, the centre will provide much-needed quality eye care in this underserved rural area. The centre is supported by Dr K Varaprasad and uses the award-winning eyeSmart Electronic Medical Records (EMR) system for maintaining patient records.

Primary Care
Sixteen primary care Vision Centres (VC) were inaugurated during the year in the districts of Visakhapatnam, Vizianagaram, East Godavari, West Godavari, Krishna and Guntur, thus extending our reach to many new districts. This brought the total number of primary care centres in the network to 88 and the extension of our Vision Centres to 11 of the 23 districts of Andhra Pradesh.

Most of the VCs are located in rent-free premises, made possible by the commitment and support of community leaders and philanthropists. The living expenses of the Vision Technicians managing the VCs are also borne by the community, in many instances.

Eight of the new Vision Centres are supported by the Lavelle Fund for the Blind, Inc, USA, seven by the Latter-day Saint Charities, USA, and one by the local community members. (More in pages 53-54)

City Centres
To offer quality care to people closer to their homes, LVPEI has set up 3 City Centres with state-of-the-art facilities, offering comprehensive care to those requiring a quick eye examination after working hours. The first one in Hyderabad was inaugurated in August 2010. During the year, 2 City Centres were established at Visakhapatnam and Vijayawada; they too use the EMR system.

LVPEI’s Kallam Anji Reddy campus at Banjara Hills, Hyderabad, opened outpatient services at its extension centre on May 13, 2011. Located close to the main campus, the centre offers fast track outpatient services in all the major eye subspecialties, ocular diagnostic services, and opticals. The facility also houses the Institute’s Clinical Research wing.
Silver Jubilee Celebrations
Our 25th Year of Excellence in Eye Care

On June 1, 2011, L V Prasad Eye Institute (LVPEI) completed 24 years of service, providing excellent eye care to all, irrespective of the ability to pay. The first day of our Silver Jubilee Year was marked by several events at the flagship Kallam Anji Reddy campus. The sparkling building, lush gardens and a towering silver commemorative pylon at the entrance gave the campus a festive air. Every patient was welcomed with sweets!

Among the distinguished guests on the occasion was Prof Brien Holden, CEO, Brien Holden Vision Institute (BHVI), Sydney, Australia. LVPEI’s research arm is named the Prof Brien Holden Eye Research Centre to acknowledge his tremendous support in setting up the facility. He recalled his first meeting with Founder Chairman Dr Gullapalli N Rao 30 years ago, and their organizations’ two-decade collaborative research, cemented by a close friendship. Prof Holden spoke of BHVI and LVPEI’s shared values, commitment and excellence and urged optometrists and ophthalmologists to work together to eliminate needless blindness. Applauding the Institute’s role in raising blindness prevention efforts to a new level, through the LVPEI Eye Health Pyramid Model concept, he declared, “You have changed the world!” Punctuated with humor and anecdotes, his talk was relished by a houseful Patodia Auditorium. Staff from Bhubaneswar, Visakhapatnam and Vijayawada campuses were linked via live videoconferencing.

In his talk, Dr Rao spoke nostalgically of our first patient care day 24 years ago. It seems a long time and yet just a short while ago, he mused. On June 1, 1987, a small group of 20 people gathered around a 4-year-old boy as he cut a cake. The first patient, he is now a successful lawyer. Five patients were seen that day; today, the 1000 plus LVPEI staff sees an average of 2500 patients every working day, while an equal number are covered through our outreach programs across the network. And the proudest moment comes from reaching out to someone in a remote rural area, whom no one else cares about, Dr Rao said.

Padma Vibhushan Prof M S Valiathan, Former Vice-Chancellor, Manipal Academy of Higher Education, Manipal, delivered the first of a series of Silver Jubilee Public Lectures, speaking of the “Health care scene in India.”

Mr V C Janardan Rao, Chairman, Veljan Hydraulics Ltd, presented a cheque to Dr Rao for the campus’ new building, which will augment our patient care services. Mr Janardan Rao is the major donor for the project.

Former LVP staff Dr Satish Gupta, Mrs Vijaya L Ramam, Mrs Lalitha Raghuram and Mrs Uma Nath spoke of their association with the Institute and how it shaped their values and career.

A music program by six young clients of our rehabilitation centres, our primary stake-holders, enthralled everyone. All the children have congenital vision loss. On the flute was M Sai Teja, a student of Carnatic music. Heena Sultana, Kanithi Shrawya, Kriya Jain, and Shravan sang, while Venkatesh Potluri, a student of Computer Science at IIIT, Hyderabad, gave a rousing drum performance.
The LVPEI Family Pays Tribute to its Supporters

October 17, 2011: The LVPEI family paid a moving “Tribute to Supporters” on the landmark occasion of their 25th Foundation Day celebrations. The well-orchestrated presentation saw a mélange of nostalgic talks and sepia videos that revived fond memories of thrilling beginnings and old photos of staff who are part of the brick and mortar of this institution, along with lots of camaraderie and laughter.

It was the story of the birth and growth of a trail-blazer institution, from a single location to over a hundred over a span of 25 years, yet zealously safeguarding its founding principles of excellence, equity and efficiency, touching millions of lives along the way, giving sight and vision to thousands of people, upholding and honoring its pledge not to refuse care to anyone – however complex or expensive, uncompromising in its values and ethics. The saga was anchored by Dr Pravin V Krishna with panache; valued friends, committed supporters and dedicated faculty helped narrate the story with their reminiscences.

In the year 1981, Mrs Pratibha Rao and Dr Gullapalli N Rao made the decision to move from Rochester, USA, to Hyderabad, India, to set up a world-class eye hospital in their home state. They pledged and donated their entire savings to the project over the next 4 years, till their return to India, before asking others to support the enterprise.

Present especially on the occasion, Dr Y Mruthyunjay, Founding Member, Indo American Eye Care Society (IAECS), recalled thinking, “He won’t be able to do it ... We had great reservations about his decision,” he admitted. However, along with Prof Brijen Gupta and some close friends, he extended unstinting support for the project. Prof Brijen Gupta single-handedly secured all legal clearances for the IAECS to raise funds in the USA, continuing to manage it for the next 25 years.

In India, a charitable trust, the Hyderabad Eye Institute, was created in 1985 with Dr Gullapalli N Rao, Mr K P Prasad, Dr Narla Tata Rao, Dr V Ramalingaswami and Mr K Rama Rao as founding trustees. The Government of Andhra Pradesh allocated 7.5 acres of land in Kismatpur on the city outskirts, where the Bausch & Lomb School of Optometry and the International Centre for Advancement of Rural Eye care are currently located.

This initial dream received a boost when the late Mr L V Prasad, acclaimed film producer, offered a significant donation and 5 acres of land in the prime Banjara Hills area of Hyderabad. The foundation stone for L V Prasad Eye Institute was laid on October 17, 1986, named after our first major donor in grateful acknowledgement.

At the program on October 17, 2011, Mr L V Prasad’s son, Mr Ramesh Prasad spoke of their quarter-century association, renewing his father’s commitment by presenting a large cheque to Dr Rao, affirming, “The Institute has brought us a lot of credit and happiness. LVP, jai ho!”

Some of the early supporters acknowledged in the narrative were Mrs Pratibha Rao, Prof James Aquavella, Dr Sriram Sonty, Carl Zeiss, Bausch + Lomb, Mr Subbarao Makineni, and Mrs and Mr Steve Jenner, though the valued list of supporters and patrons includes many, many more.

Present on the occasion, Ms Katherine Dhanani, US Consul General in Hyderabad, spoke of the close ties between US organizations and LVPEI. Mr David Holly, Australia’s Consul General for South India, talked about the Institute’s robust research program in collaboration with several Australian organizations.
India Vision Institute to Boost Vision Care Industry

To address the needs of over 100 million Indians who suffer from uncorrected refractive error, LVPEI joined hands with the Brien Holden Vision Institute (BHVI) to set up the India Vision Institute (IVI). Minister of State for Human Resource Development Dr D Purandareswari, Australian Consul-General for South India Mr David Holly and Ms Katherine Dhanani, US Consul General in Hyderabad, were present at the launch on October 18, 2011.

Co-chaired by Prof Brien Holden, CEO, Brien Holden Vision Institute, and Dr Gullapalli N Rao, IVI will work towards the growth of the Indian vision care industry, supporting research, education and technological development in vision correction, eye disease and blindness prevention. Mr Vinod Daniel, CEO and managing trustee of IVI, said, “IVI will develop capacity within the optometry sector in India to address the needs of uncorrected refractive error, which would save India billions of dollars of lost productivity. IVI will work with all major eye care providers and establish strong industry partnerships to support this important public health need”.

On November 16, 2011, LVPEI and BHVI signed an MoU to establish and support the India Vision Institute. The MoU was signed by Prof Brien Holden and Dr Gullapalli N Rao, at the Australian High Commission in New Delhi. Also present were New South Wales Premier Mr Barry O’Farrell, Australian High Commissioner Mr Peter Varghese and Vice-Chancellor of the University of New South Wales, Professor Fred Hillmer.
eyeSmart EMR Office and Training Centre

The eyeSmart EMR Office and Training Centre was inaugurated at the City Centre, Hyderabad, on September 24, 2011. eyeSmart, a customized Electronic Medical Records (EMR) and Hospital Management System, has been developed in-house and digitizes patient-care related services – from clinical examinations to surgical services, all networked on one common platform. Being implemented across the network in a phased manner, eyeSmart eliminates cumbersome and expensive paper records, enabling clinicians to retrieve patients’ data at a click of the mouse.

eyeSmart EMR has won several prizes, including one at the “IT @ Networking Awards 2012,” organised by the European Association of Healthcare IT Managers and the European Association of Hospital Managers, at Clinique St Jean, Brussels, Belgium, on January 21, 2012. eyeSmart also won the EDGE 2011 national IT award.

On November 26, 2011, EMR reached the base of the LVPEI Eye Health Pyramid, with its implementation at the primary care Manuguru Vision Centre, linked to the secondary care Nava Bharat Eye Centre at Paloncha. Patients at Manuguru can be referred to Paloncha seamlessly, with their records available at both centres online. The entire Vision Centre Complex will soon become online, with all of Nava Bharat Eye Centre’s 10 Vision Centres using EMR.

The eyeSmart EMR Office and Training Centre imparts training to the staff, with a demo clinical examination room to simulate interactions with a patient on EMR. It also serves as a trouble-shooting point for giving feedback.

MIT Collaborates with LVPEI to Deliver Mobile Eye Care

The Camera Culture Group at the Massachusetts Institute of Technology’s Media Lab, Boston, USA, is collaborating with the Institute to test NETRA, a low-cost cellphone device for eye examination. NETRA (Sanskrit for 'eye' and acronym for the Near-Eye Tool for Refractive Assessment) can diagnose refractive errors in two minutes, thus providing quick primary eye care in rural underserved areas. A snap-on plastic device is attached to the screen, with an array of plastic lenslets, and the phone display is used to run tests and generate a prescription for myopia, hyperopia or astigmatism. The refractive error can even be estimated by the patient himself by aligning red-green patterns using a custom-designed user-interface. Studies confirm that NETRA performs very closely to standard clinical procedures.
Annual Champalimaud Research Symposium

The 5th annual Champalimaud Research Symposium was held under the aegis of our Champalimaud Translational Centre for Eye Research (C-TRACER 1) on January 30, 2012. Every year, world leaders in ophthalmology and leading scientists from India are invited to lecture at the symposium. The distinguished faculty was complemented by representatives from the other two C-TRACERs at Portugal and Brazil. Dr Leonore Beleza, President, Champalimaud Foundation, Lisbon, Portugal, also graced the occasion.

Prof D Balasubramanian gave an introduction to the symposium, followed by an overview of the Institute’s activities over the past 25 years by Dr Gullapalli N Rao. The composition of talks ranged from intricacies in eye biology, infection, vaccines, and biomarkers to the applications of stem cells. The faculty comprised ProfJacob Pe’er (Haddasah University Hospital, Israel), Prof Brigitte Roeder (Hamburg University, Germany), Prof Clifton Schor (University of California, Berkeley, USA) and Prof James L Funderburg (University of Pittsburgh, USA). The national faculty had Prof Alok Srivastava (Christian Medical College, Vellore), Prof Dipankar Chatterji (Indian Institute of Science, Bengaluru), Prof Partha P Majumder (National Institute of Biomedical Genomics, Kalyani) and Prof Shubha Tole (Tata Institute of Fundamental Research, Mumbai). Updates on the research activities of C-TRACER 2 were given by Prof Jose Cunha-Vaz and Prof Joaquim Murta and for C-TRACER 3 by Prof Rubens Belfort Jr. Drs Subhadra Jalali, Rohit Khanna, Indumathi Maniappan and Sayan Basu presented an update on the activities of C-TRACER 1 at Hyderabad. The program was coordinated by Dr Subhabrata Chakrabarti.

Endowment Lectures

Dr Syamala Bhaskaran Endowment Lecture

Dr Adrian Koh, founding partner and senior consultant at the Eye & Retina Surgeons, Camden Medical Centre, Singapore, delivered the 15th annual Dr C Syamala Bhaskaran Endowment Lecture on “Age-related macular degeneration: The Asian burden” on July 16, 2011.

Dr C Syamala Bhaskaran is a recipient of the Dr B C Roy Award, while her husband Dr C S Bhaskaran is former Professor and Head, Department of Microbiology, and former Vice-Chancellor, NTR University of Health Sciences in Vijayawada.

Dr Rustam D Ranji Rotary Award and Lecture

The annual Dr Rustam D Ranji Rotary Award and Lecture was delivered by Dr B Sesikeran, Director, National Institute of Nutrition, Hyderabad, on September 14, 2011. His talk on “Recent nutrition guidelines and dietary recommendations for Indians, with special focus on eye health” was broad-ranging and tailored for the layperson. Using a pyramid analogy, he categorized foods to be eaten in larger portions and others, in relatively smaller quantities. He spoke of the average nutritional requirements and how to source them, within the Indian context.

The lecture is sponsored by the Rotary Club of Hyderabad, District 3150, in memory of Dr Rustam Ranji, honorary ophthalmologist to the former Nizam of Hyderabad. Also present was Mr Krishna Raju, President of the Rotary Club, eminent Rotarians, supporters, faculty and fellows.
Bhubaneswar

Prof C S Bhaskaran Endowment
Lecture
Prof M Srinivasan, President, Eye Bank Association of India and Director Emeritus, Aravind Eye Care Systems, Madurai, delivered the First Prof C S Bhaskaran Endowment Lecture at Bhubaneswar on July 2, 2011. He spoke on “Corneal blindness in India”.

Bijayananda Patnaik Memorial Lecture
Mr Subroto Bagchi, Vice-Chairman and Gardener, MindTree, delivered the Second Bijayananda Patnaik Memorial Lecture on January 26, 2012.

Alumni News

Dr Swapnali Sabhapandit completed a fellowship in Cornea and Anterior Segment at LVPEI in July 2010, returning home to Guwahati to practice. In April 2011, she opened her own consultation centre “Onelife One Vision,” an OPD tied up with other hospitals of the city for surgical cases. Apart from doing keratoplasties as well as other surgeries, she runs the Cornea Clinic at Guwahati Lion’s Eye Hospital and visits the North Bengal Eye Centre at Siliguri for keratoplasties.

Dr Pradeep Agarwal, Associate Director, C L Gupta Eye Institute, Moradabad, Uttar Pradesh, has set up a children’s eye care centre. The centre was inaugurated by Dr Taraprasad Das on May 8, 2011.

Dr Ramesh Murthy received the Achievement Award and the International Ophthalmologist Education Award from the American Academy of Ophthalmology, October 2011.

Dr Rajeev Jain has set up Save Sight Centre, an advanced superspeciality centre for vitreoretina and lasers, in Delhi. It was inaugurated on January 26, 2012, by Mr Mangat Ram Singhal, former Minister of Labour and Employment, Govt of India, and Dr Basudeb Ghosh, Director, Guru Nanak Eye Centre. In addition to his fellowship at LVPEI, Rajeev has trained at Sydney Eye Hospital and Royal Adelaide Hospital, Australia.

Dr Tariq Reza Ali, Assistant Professor, Retina Services, Ispahani Islamia Eye Institute and Hospital, Dhaka, Bangladesh, won the Prof A Q S M Harun Memorial Award at the 39th Annual National Conference of the Ophthalmological Society of Bangladesh for his project work at LVPEI “Evaluation of incomplete visual recovery after Rhegmatogenous retinal detachment by OCT and mfERG.” February 2012

The Bangladesh alumni with Dr Gullapalli N Rao at the annual meeting of the Ophthalmological Society of Bangladesh on February 28, 2012.
## Awards and Honors

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<thead>
<tr>
<th>Name</th>
<th>Achievement</th>
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<tbody>
<tr>
<td><strong>Subhbrata Chakrabarti</strong></td>
<td>• Appointed to the Editorial Board of Molecular Vision&lt;br&gt;• World Glaucoma Association Research Award for 2010 in basic sciences&lt;br&gt;• Selected to serve on the ARVO Annual Meeting Future Site Selection Working Group</td>
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<tr>
<td><strong>Taraprasad Das</strong></td>
<td>Re-elected Vice President of the Asia-Pacific Vitreo Retinal Society (APVRS) for 2011-2013</td>
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<td><strong>Inderjeet Kaur</strong></td>
<td>Awarded B M Birla Science Prize in Medicine</td>
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<td><strong>Santosh G Honavar</strong></td>
<td>• Invited to chair the International Council of Ophthalmology Committee to update the Fellowship Curriculum (Oculoplasty)&lt;br&gt;• Re-appointed to the Advisory Committee, International Council of Ophthalmology</td>
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<td><strong>Ramesh Kelkunaya</strong></td>
<td>Appointed Member of Professional Education Committee, American Academy for Pediatric Ophthalmology and Strabismus</td>
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<td><strong>Raja Narayanan</strong></td>
<td>• Honor Award by the American Society of Retina Specialists&lt;br&gt;• Ambassador of Vitreoretinal Society of India to the American Society of Retina Specialists</td>
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<tr>
<td><strong>Avinash Pathengay</strong></td>
<td>International Scholar Plaque in recognition of outstanding research, teaching and invaluable service to patients from Bascom Palmer Eye Institute, Miami, Fl, USA</td>
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<td><strong>Harsha B L Rao</strong></td>
<td>Appointed to the Editorial Board of International Glaucoma Review</td>
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<tr>
<td><strong>Gullapalli N Rao</strong></td>
<td>2011 Kupfer Award presented by the Association for Research in Vision and Ophthalmology (ARVO) for outstanding accomplishments as a researcher, ophthalmologist and humanitarian. Dr Rao is former president of the International Agency for the Prevention of Blindness, a position Dr Carl Kupfer had held earlier. The award is named after Dr Kupfer and given to a person committed to moving forward with the agenda to eliminate avoidable blindness by the year 2020. It honors those who have demonstrated distinguished public service on behalf of eye and vision research.</td>
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<td><strong>G Chandra Sekhar</strong></td>
<td>Appointed Member of the Board of Governors of World Glaucoma Association</td>
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<td><strong>Savitri Sharma</strong></td>
<td>Appointed Section Editor, Ocular Microbiology and Infectious Disease, of Asia Pacific Journal of Ophthalmology, June 2011</td>
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<tr>
<td><strong>Brinda Ramachandran</strong></td>
<td>SightLife Achievement Award 2012 for Best Eye Bank Manager among SightLife partner eye banks. March 1-2, 2012</td>
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<td><strong>Virender S Sangwan</strong></td>
<td>• Award Lecture, 17th Annual Meeting of International Ocular Surface Society (IOSS), Hollywood, Florida, USA. April 30, 2011&lt;br&gt;• Best Original Cornea Paper of the day, 115th annual meeting, American Academy of Ophthalmology, USA. October 22-25, 2011&lt;br&gt;• First annual 'Leadership in Uveitis’ award from the Lux Biosciences Steering Committee presented at the Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI) in Goa. November 13-16, 2011</td>
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<tr>
<td><strong>Pesala Veerendranath</strong></td>
<td>Travel Grant for annual meeting of Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, Florida, USA. May 1-5, 2011</td>
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### International

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<tr>
<th>Name</th>
<th>Achievement</th>
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<tr>
<td><strong>Rohit Khanna</strong></td>
<td>Appointed member of the Capacity Building Working Group of the International Agency for the Prevention of Blindness</td>
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<td><strong>Pravin V Krishna</strong></td>
<td>Best Paper of Session, American Society of Cataract and Refractive Surgery meeting, San Diego, USA</td>
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<td><strong>AK Mandal</strong></td>
<td>2 Best of Show videos at World Glaucoma Congress, Paris, France. June – July 2011</td>
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<tr>
<td><strong>Indumathi Mariappan</strong></td>
<td>Travel Grant for annual meeting of Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, Florida, USA. May 1-5, 2011</td>
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<tr>
<td><strong>Ashik Mohamed</strong></td>
<td>• Travel Grant for annual meeting of Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, Florida, USA. May 1-5, 2011&lt;br&gt;• Visiting Scientist for “Transmission Electron Microscopy” at Department of Cell &amp; Developmental Biology, University of North Carolina, USA. May – June 2011</td>
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### F1000

The article “Intracameral perfluoropropane gas in the treatment of acute corneal hydrops” by S Basu, PK Vaddavalli, SI Murthy, VS Sangwan (Ophthalmology 2011 May) was selected and evaluated by the Faculty of 1000 (F1000), as among the top 2% of published articles in biology and medicine for the year.

### EMR wins award

LVPEI’s customized Electronic Medical Records system “eyeSmart EMR – Intelligent IT Solution for Eyecare” won third prize at the IT @ Networking Awards 2012, organised by the European Association of Healthcare IT Managers and the European Association of Hospital Managers, to recognise innovators in healthcare IT and medical technology. The awards were presented in Clínique St Jean, Brussels, Belgium. January 21, 2012

### LVPEI team at WOC quiz

Tarjani Dave, Vivek Dave and Neha Bharti were runners-up at the first ICO World Ophthalmology Quiz at the World Ophthalmology Congress, Abu Dhabi. February 16-20, 2012
National

Uday K Addepalli
Best Oral Presentation in Clinical Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011

Javed Ali
Best Paper Award (Comprehensive session), All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

T Venkata Amarnath
Best Poster Presentation in Clinical Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011

D Balasubramanian
First BITS (Birla Institute of Technology & Science), Pilani Distinguished Alumni Award 2011 “in recognition of his significant and outstanding contribution to entrepreneurship”. August 2011

Anthony Yipin Das
Named among the Top 20 Innovators under 35 in India, by Technology Review India, published by MIT

Taraprasad Das
Elected Vice-President of VISION 2020 India for 2011 – 2014

Vivek Dave
Best Poster Award, All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

P M Fairooz
Best Scientific Paper, Best Video and Quiz Award, EyePlasty – 2011, Oculoplastics Association of India (OPAI) 22nd annual conference, Kanpur. November 5-6, 2011

Ajit Babu Majji
• Distinguished Ophthalmologist Award from Intraocular Implant & Refractive Society, Chennai. July 2011
• Best Paper Award (Inflammation session), All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

Sumit Monga
Best Paper Award (Squint session), All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

Ganeswara Rao Musada

Asa Narasiah
Best Oral Presentation in Clinical Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011

Maneck Nicholson
Best Paper Award (Ocular Pathology session), All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

Sai Prakash
Nominated for felicitation by the Indian Chemical Society on the occasion of the International Year of Chemistry 2011, in recognition of his contribution to Chemical Education

Harsha B L Rao
Young Researcher Award, XXI annual meeting of Glaucoma Society of India, Mumbai. October 2011

Sonika Rathi
Best Oral Presentation in Basic Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011

Varsha Rathi
Best Paper Award (Optics/Refraction/Contact Lens session), All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

P Shailaja Reddy
Best Poster Presentation in Clinical Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011

Virender S Sangwan
• Named among top 25 scientists in India Today. September 2011
• Dr Patnaik Oration at Shroff’s Charitable Eye Hospital, Mumbai. September 18, 2011
• Dr R M Saboo Platinum Jubilee Oration at Indian Medical Association (IMA) meeting, Hyderabad. January 2012

Kunjal Sejpal
Best Paper of Cornea I Session, All India Ophthalmological Conference 70th annual meeting, Kochi. February 2-5, 2012

SriShila Senthil
Best Video, XXI annual meeting, Glaucoma Society of India, Mumbai. October 7-9, 2011

Manish Kumar Sinha

Savitri Sharma
Elected President of Society for Indian Human and Animal Mycologists (SIHAM), 2012-2014

Rebecca Sumalini
Best Oral Presentation in Clinical Sciences, Indian Eye Research Group (IERG) 19th annual meeting, LVPEI, Hyderabad. July 30-31, 2011


Dr Sujata Das receiving the award
Regional

Mohd Javed Ali
Vengal Rao Medal and Plenary Session’s Best Paper of the Conference Award at the annual Andhra Pradesh Ophthalmological Society (APOS) meeting, Nellore. September 23-25, 2011

Taraprasad Das
Conferred a Doctorate in Science (Honoris Causa) by Ravenshaw University, Cuttack, for his contribution to ophthalmology science. April 2011

Tarjani Dave
Best Video, Andhra Pradesh Ophthalmological Society (APOS) meeting, Nellore. September 23-25, 2011

Ramesh Kekunnaya
Raghavachar Best Paper Award, Andhra Pradesh Ophthalmological Society (APOS) annual meeting, Nellore. September 23-25, 2011

Ajit Babu Majji
Dr Surya Prasad Rao Oration by Andhra Pradesh Ophthalmological Society. September 23-25, 2011

Virender Sachdeva

Savitri Sharma
Samanta Chandra Sekhar Award for 2010 in the Life Science stream from Odisha Vigyan Academy, Science and Technology Department, Government of Odisha. April 2011

Awards at LVPEI meetings

Pravin V Krishna
“Polished apple” award for best teacher at Eye-PEP, LVPEI, Hyderabad. September 4-11, 2011

Fusion 2012, February 12-14, 2012
Oculoplasty
Free papers: Tarjani Dave, Savari Desai, Raju Kumar, Fairooz PM, Kruti Mody
Case presentations: Savari Desai, Jayshree V, Anirban Bhaduri, Kishore Satpute, Vikas Menon
Video films: Kruti Mody, Puja Goyal, Samir Mohapatra, Tarjani Dave
Quiz winners: Deepti Chouhan, Pummy Roy, Moupiya Mukhopadhayay
Quiz runners-up 1: Fairooz PM, Kruti Mody, Aditi Pujari
Quiz runners-up 2: Avinash Ingole, Manvi Sobti, Himika Gupta

Pediatric Ophthalmology
Free papers: Sanil Shah, Akila Ramkumar, Amit Gupta, Muralidhara Ramappa, Bhamy Hariprasad Shenoy, Niranjan Pehere
Case presentations: Akila Ramkumar, Biswajit Dey, Virender Sachdeva, Sowmya R, Geethanjali CJ
Video films: Anil K Mandal, Sirisha Senthil, Muralidhara Ramappa, Jyoti Matalia
Quiz winners: Sumit Monga, Bhamy Hariprasad Shenoy, Shailja Tibrewal
Quiz runners-up 1: Chinnayee T, Ambika Shetty, Soumya Basanth
Quiz runners-up 2: Subashini V, Renu Athanikar, Gangaprasad Amula
Campus News
Kallam Anji Reddy Campus, Hyderabad

A Glaucoma Awareness Walk was organized to create public awareness about glaucoma, an irreversible blinding disease. The large contingent included LVPEI faculty and staff, members of the Telugu film industry and the general public. Dr G Chandra Sekhar (right) leads the walk. March 10, 2012

A Children’s Day program for the Association of Parents with Childhood Glaucoma support group, was organized by Dr Anil K Mandal at Hyderabad campus. November 14, 2011

Housekeeping staff Mrs K Thulasamma and Mrs SSS Rajamani shake a leg with Dr Subhadra Jalali at a staff dinner to celebrate LVPEI Hyderabad campus’ accreditation by the National Accreditation Board for Hospitals and Healthcare Providers (NABH). July 14, 2011

Nurses Day celebrations – Taking the oath; all the senior nurses pose for a photo. May 12, 2011

The 25th Foundation Day staff celebrations saw a variety of cultural programs by the LVPEI family, and young clients of the rehabilitation centres. The staff and their families enjoyed a rainbow of cultural programs, with music, lights and color. October 18, 2011
Another year has rolled by for the L V Prasad Eye Institute Bhubaneswar campus. And what a year it was! There was all-round development and many activities. We celebrated our 7th Foundation Day anniversary in January 2012. In July 2011, we organised a CME on Ocular Infections: Challenges and Solutions, as we completed five years of patient care. The Second Bijayanand Patnaik Memorial Lecture was held on January 26, 2012, with Mr Subroto Bagchi, Chair, Mindtree, delivering the lecture.

Professor M Srinivasan, Aravind Eye Care System, Madurai, was our Visiting Professor for 2011. Prof Srinivasan, a global expert in corneal and external eye disease, spent a week working with our cornea group. He also delivered the first Prof C S Bhaskaran Endowment Lecture on July 2, 2011.

A total of 90,276 patients visited the institute during the past year and the institute performed 8964 eye surgeries – a jump of approximately 20% in both outpatient visits and surgery, over the previous year. Continuing with our mission of providing free care to the economically underprivileged, the institute treated approximately 23% outpatients and performed 37% surgeries, at no cost to them. This was spread over all segments of eye diseases, the majority being cataract surgery (43%) and retina (24%) surgery.

Our partnership with drushti daan Eye Bank has blossomed. The Eye Bank collected 501 corneas during the year, over 93% of them were procured through motivational counselling. We utilized them with utmost care, offering corneal transplantation services to 177 patients, 57% of them free of cost. True to the spirit of community eye banking, we distributed corneas to other surgeons in the country.
The institute is facilitating a year-long training of Dr Suryananta Rath in Vancouver, Canada, in the higher nuances of oculoplastic surgery. With some faculty additions and skill enhancement, the institute is looking forward to offering enhanced and state-of-the-art patient care. Other notable developments: the first batch of Bachelor in Optometry (IGNOU) finished their four-year program and 21 short and long-term ophthalmology fellows were trained.

We also laid the foundation for the expanded infrastructure for education, with the generous support of Mr S K Pathak, Chair, ABM, Dubai. The “Pathak Centre for Eye care Education (PACE)” will have permanent residential and educational facilities. The first phase – the Residence Hall, “Inspiration” – was inaugurated by Mrs Kokil and Mr S K Pathak on February 24, 2012.

Our research continues in both basic (microsporidia, Staphylococcus epidermidis) and clinical research (fungal keratitis and diabetic retinopathy). The faculty published 40 research papers, and 8 are either e-published or are in press. With these, the total number of publications rises to 148, since the institute’s inception in July 2006.

All the staff achieved excellence in their individual areas and some were recognized by others. Savitri Sharma was invited to the prestigious Cambridge Symposium in Cambridge, UK. She was also selected to receive the “Samanta Chandrasekhar Prize” (Excellence in Life Sciences) by the Odisha Government, the “Gold Award for best original paper” by the Indian Journal of Ophthalmology and the “SC Agarwal Oration award” of the Indian Association of Medical Microbiologists. I was conferred D Sc (Honoris Causa) by the Ravenshaw University.

We aspire to rise to become the best resource center in the region – offering the most advanced and state-of-the-art eye care to all sections of society, educating the entire range of eye care professionals, and engaging in translational research relevant to our society.

We begin the next year with new resolve and conviction and your blessings.
National Disability Awareness Campaign

The ‘Badhte Kadam National Disability Awareness 2011’ campaign was launched at our campus by the National Trust (Odisha Chapter) for the welfare of persons with autism, cerebral palsy, mental retardation and multiple disabilities. Mr Prafulla Samal, Minister for Women & Child Development, Govt of Odisha, inaugurated the program, which was attended by members of various NGOs, parents of special children and the media. The event was organized by Open Learning Systems, the state nodal agency of the Trust. November 3, 2011

Eye screening for Special Olympic athletes: A screening camp was organized by the Lions Eye Hospital, where our optometrists and rehabilitation specialists conducted eye examinations for over 200 mentally challenged athletes of the Special Olympics. April 9-10, 2011

Goodwill Visit by Dr Kalam

Dr APJ Abdul Kalam, former President of India, visited the campus on January 4, 2012. Dr Taraprasad Das, Director, briefed him about the progress of the institute. Dr Kalam enquired about the 10 most challenging and intriguing cases managed by the faculty and appreciated their commitment and excellence in eye care. He urged the staff to focus on research to make the institute a pioneering centre in eastern India.

Nurses Day: International Nurses Day was celebrated with the nurses taking an oath of service and compassion followed by a cultural program. Dr Savitri Sharma, Head, Laboratory Services – LVPEI network, gave an inspirational talk. May 12, 2011.

Nurses stage a modern version of the epic Ramayana

From left: Ms Esther Hyman, Trustee, Miriam Hyman Memorial Trust (MHMT), UK, along with Mrs Kathy and Mr Dave Batten, Board Members, MHMT and Mr Adrian White visited the Miriam Hyman Children’s Eye Care Centre. They are making a documentary film to spread the message of love and peace. December 2-23, 2011
The Year in Review

Inauguration of Residence Hall

The first phase of the “Pathak Centre for Eye Care Education” was completed this year, with the inauguration of the Residence Hall, “Inspiration,” by Mrs Kokil and Mr S K Pathak, Chairman, Al Basti & Mukhta LLC (ABM) group, UAE, on February 24, 2012. Mrs and Mr Pathak also took a tour of the institute and planted a tree.

Foundation Day Celebrations

The 7th Foundation Day of the campus was celebrated on January 16, 2012, with an elocution competition on “Why I like LVPEI,” followed by a cultural program. Winners of various sports events held earlier received prizes.

Glaucoma Awareness Week

During Glaucoma Awareness Week (March 11-17, 2012), information brochures and pamphlets on the management of glaucoma were distributed to patients and their families. Dr Sanghamitra Dash participated in a TV program and took questions from callers. Dr Aparna Rao led a Public Forum, in which over 60 patients and families participated.
Another year has flown by at the GMR Varalakshmi campus, Visakhapatnam, and it was just as exciting as all the earlier years. We celebrated our 5th anniversary on July 7, 2011, and are gearing up for the next 5 years with immense enthusiasm. With the support of a committed and energetic team, the sky is the limit!

This year, we saw more than 81,000 patients in the outpatient department – an increase of 14% as compared to last year. More than 25% of these were seen at no cost. Over 9300 procedures were performed (including EUAs – Examination Under Anesthesia), an increase of 30%. Over 50% of these were done at no cost to non-paying patients. While half of these were cataract surgeries, the other half were complex retina, cornea, squint, oculoplasty and glaucoma surgeries.

Our services to the underprivileged have seen tremendous growth, primarily due to the 8 new Vision Centres established over the course of the year in Visakhapatnam and Vizianagaram districts, taking the total to 10. This is all due to the untiring efforts of the community eye care team, led by Dr PVKS Varma, the champion of rural primary care centres. He led the outreach team in identifying the needs of the community, establishing links with the local populace, finding a suitable building and staff to run the Vision Centres, and ensuring community ownership and long-term support to the vision technicians managing them.

In April 2011, we set up our first City Centre to reach out to people in the heart of Visakhapatnam, so that they could access excellent eye care closer to home. The centre runs on the indigenous and innovative paperless, eyeSmart electronic medical record technology.
Two out of every 3 blind people in the world are women, who do not access eye care as often as men, due to poverty, ignorance and self-neglect. We decided to reach out to this underserved section of the population by launching focused programs at our City Centre. We were fortunate to have the support of Mr O Naresh Kumar of Symbiosys Technologies, who invited several well-known women from various fields to create awareness about eye health and endorse the program. They were Ms Shriya Saran, a popular Telugu film actor, Ms Vasuki Sunkavalli, Miss India-Universe 2011, and Ms Karen Tan, High Commissioner of Singapore to India. In the first year we saw 7000 patients at the City Centre, 55% of them women.

Our retina consultant, Dr Avinash Pathengay, has done us proud by his exemplary performance during his one year international fellowship under Dr Harry Flynn Jr at Bascom Palmer Eye Institute (BPEI), Miami, Florida, USA. He published several papers in peer-reviewed journals and received an award from BPEI for contributions to academics and research. He forged key links between LVPEI and BPEI, which will continue to grow.

We also saw our first comprehensive fellows Vaibhev Mittal and Manav Khera, who began their fellowships 3 years ago, return to our campus as faculty. We hope many more will be inspired to follow in their footsteps. The comprehensive fellows at GMR Varalakshmi campus continue to increase in number and we now have a total of 6 at various stages of their fellowship. In January 2011, we also commenced subspecialty fellowships in Retina and Cornea.

An exciting event this year was the laying of the foundation stone of the “Pathak Centre for Eye Care Education” by His Excellency Mr E S L Narasimhan, Governor of Andhra Pradesh, on July 20, 2011. This will enable us to increase our training capacity, provide job opportunities to local youth and help us serve our patients better.

The Nimmagadda Prasad Children’s Eye Care Centre approaches its 5th anniversary, with Dr Virender Sachdeva at the helm. More than 25,000 children were seen till date at the campus.

We look forward to the next year and aspire to achieve even greater heights, in keeping with our vision of providing eye care with excellence, equity and efficiency to all those in need.
First City Centre
The campus started a City Centre at Siripuram on April 25, 2011. Dr D Purandareswari, Minister of State, Human Resource Development, Govt of India, formally inaugurated it on June 11, 2011. The eco-friendly centre uses the eyeSmart paperless software to maintain the patient information database and is the first of its kind in Visakhapatnam. The City Centre offers quick and comprehensive eye care services, with extended working hours.

5th Anniversary Celebrations
The 5th anniversary celebrations of the campus on July 7, 2011, began with group photos of each department and the entire staff. Chief guest Dr Jayaprakash Narayan, founder-president, Lok Satta, addressed the staff and enjoyed the cultural programs along with LVPEI’s board members. Students from the Lebenshilfe Special School for Mentally Retarded Children gave cultural performances. Prizes were distributed to the winners of sports and games competitions, held earlier.

Pathak Centre for Eye Care Education
Governor of Andhra Pradesh Mr E S L Narasimhan laid the foundation stone for the “Pathak Centre for Eye Care Education” on July 20, 2011. It is supported by Mrs Kokil and Mr S K Pathak, Chairman, Al Basti & Mukhta LLC (ABM) group, UAE, who are supporting a similar centre at Bhubaneswar campus, towards the creation of a Global Academy of Eye Care Education at LVPEI. Other guests included District Collector Mr Lav Agarwal, and major supporters Mr O Naresh Kumar and Mr Raghu Rayalu.

Mr E S L Narasimhan lights the lamp at the inauguration of the Pathak Centre for Eye Care Education
Mohsin Eye Bank Anniversary

To mark its 10th anniversary on October 16, 2011, Mohsin Eye Bank conducted a symposium, focusing on the eye donation scenario in the country and the need for better coordination of efforts towards eye donation, organ and blood donations.

Awareness & Screening Programs for Kids

On November 13, 2011, an educational and free screening program was conducted for 154 children and their parents, in association with the Visakhapatnam Urban Development Authority (VUDA). The events included screening of an animation film by Symbiosis, ‘Twinkling Sight’, a skit on misconceptions in pediatric ophthalmology, and a quiz on pediatric eye diseases. Coupons for free eye check-ups were given to the families of the prize-winners of various events. Vice-president of VUDA Mr K Sashidhar suggested that the program be made an annual event. The campus also launched a 3-month free screening program for children below 16 years of age, and the elderly.

Good Health Show

The institute participated in the ‘Eenadu Good Health Show’ exhibition from December 3-4, 2011, displaying optical and non-optical devices and patient education brochures to create eye health awareness. A screening facility was set up, where 270 persons were examined. The stall received a good response with around 800 people visiting.

Fun Camp for Rehabilitation Clients

The campus organised its first “Fun Camp for Visually Impaired Children” on December 4, 2011. About 20 children with visual impairment, family members, staff and volunteers enjoyed the picnic.

World Glaucoma Awareness Week

Several programs were organised during World Glaucoma Awareness Week. A walk along the beach on March 10, 2012, was flagged off by Ms Soumya Mishra, DIG of Police. Dr Merle Fernandes, Dr PVKS Varma, Dr Krishna Prasad, Superintendent, Regional Eye Hospital, Visakhapatnam, staff, trainees, supporters and community elders joined to make the program a grand success.

On March 11, 2012, postgraduate students from colleges and hospitals, and city doctors attended the Glaucoma Masters’ Course via videoconference, held at Hyderabad campus. A public education forum on March 17, 2012, received a good response, with 60 patients attending.
Free Screening for Women at City Centre

Mr O Naresh Kumar and the CMR group joined hands with LVPEI to create awareness about eye health, especially among women. On December 11, 2011 actor Ms Shriya Saran launched a free eye screening program (December 12, 2011 – January 14, 2012) and spoke of the need for women to take better care of their health.

On January 29, 2012, Ms Vasuki Sunkavalli, Miss India- Universe 2011, endorsed the next phase of the screening program, which was conducted from January 30 – February 29, 2012.

Ms Karen Tan, High Commissioner of Singapore, endorsed the next phase of the screening program on her visit on March 6, 2012 (March 7 – April 7, 2012). Patient care in-charge Dr Avinash Pathengay pointed out that though women constitute two-thirds of the blind population, they do not seek medical care as often as men because of ignorance, poverty and neglect.

World Sight Day Programs

The community eye care (CEC) team conducted large-scale screening programs for 10 days in neighboring villages and schools, on the occasion of World Sight Day, October 13, 2011. In the 4 villages covered, 545 persons were screened, while 1047 children were screened in 2 schools.

School children take part in an educational program on eye diseases. December 15, 2011

Mr Ramesh Prasad, Chairman, Prasad Group, visited the campus on March 11, 2012.
Celebrating 25 years of

The Year in Review

With the inauguration of our tertiary care campus at Vijayawada (in the central coastal area of Andhra Pradesh), we have extended our high quality, comprehensive, tertiary care coverage to another 10 million people of Andhra Pradesh. This also means that LVPEI tertiary care services now extend to nearly half of the east coast of India – from Bhubaneswar in the north going up to the border of West Bengal, to Vijayawada extending south up to Nellore (100 km from Chennai). This is very much in accord with our strategic thinking. Coupled with our integrated secondary and primary care network across the state, we now have a presence in 18 of the 23 districts of Andhra Pradesh.

The progress of the campus in its inaugural year has been very encouraging. Located in a village just outside the city, the centre has the twin advantages of the peace and quiet of a village, while also being very close to a bustling city. The clinical services have attracted a substantial volume of patients; some education programs and community eye health initiatives have commenced. The youthful staff exude fresh energy and make visitors and patients feel welcome at the campus. The David Brown Children’s Eye Care Centre is a special attraction of the campus, offering services that are otherwise not available in this geographical area.

Kode Venkatadri Chowdary Campus, Vijayawada

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City Centre Launched

The campus launched its first City Centre on May 30, 2011, aimed at providing world class eye care to people at their doorstep. Dr C Nageswara Rao, Director General, Dr Pinnamaneni Siddhartha Institute of Medical Sciences & Research Foundation, Vijayawada, lit the lamp. Mr M Srinivas Rao, Executive Director, Spectra Foods and Mr Bode Prasad of Poranki also graced the occasion. The centre has state-of-the-art facilities for a quick, comprehensive eye examination and an Electronic Medical Records (EMR) system. Patients needing complex investigations and surgeries are referred to the main campus.

Surgical Services Begin

Surgical services began at the campus on June 20, 2011. The state-of-the-art operating rooms are one of the best in the LVPEI network and in the entire coastal Andhra Pradesh area.

Rehab Services Inaugurated

A Centre for Sight Enhancement was inaugurated on World Sight Day, October 13, 2011, by Mr G S R K R Vijaykumar, Vice-chairman, VGTU Urban Development Authority, Vijayawada. Such a modern facility for patients with incurable vision loss is unique to the area. Mr Asa Narasaiah, an optometrist trained in low vision, takes care of the examination and management of patients. In December 2011, 200 children in special schools (for the blind and deaf-mute) were screened to identify and provide devices to those with low vision.
Children’s Eye Care Week

The David Brown Children’s Eye Care Centre (DBCECC) commemorated Children’s Eye Care Week from November 14-20, 2011. The range of activities included: a parents’ support group meeting for families of children with eye problems; a painting competition on the theme of firecrackers and safety of the eyes in which 400 children (including differently abled children) participated; eye screening of 170 hearing impaired and 80 visually impaired children; school screening programs in association with the Lions Club of Vijayawada, covering 1800 children in 8 schools; publishing of articles in newspapers about pediatric eye diseases; radio interviews; free check-up for children below 16 years of age at DBCECC; and a public lecture on “Childhood blindness: what each of us can do,” followed by talks by Dr Gullapalli N Rao, Lions Club members and Dr Niranjan Pehere.

Glaucma Week

The campus organised several activities for Glaucma Awareness Week: free glaucoma screening at the campus and City Centre (March 12-17, 2012); a Glaucma Walk with close to 100 participants, including the staff and members of the Vasayya and RG Foundation; radio talks and live TV interviews by Dr Pradeep Kumar Reddy; and a public forum for the general public to clarify their doubts. Postgraduate students from colleges and hospitals attended the CME, videoconferenced live from Hyderabad campus.
Patient Care Services

While the explicit mission of LVPEI in patient care is “excellence with equity”, the implicit core value is “honesty” and primacy of patient welfare. At a time when “medicine” has either become, or is at the risk of becoming “commercial”, the goal of best possible care to all patients – irrespective of their paying capacity and the freedom to the treating physician to waive the charges in part or total, if the patient cannot afford the treatment – ensures that the primacy of patient welfare is not compromised. It is the trust that the patients have reposed in “LVP eye care” that has both facilitated and necessitated our growth. Starting with 3 examination rooms and two operating rooms in 1987, we have grown in 25 years, to be now present in more than 100 locations, providing all possible care, from screening to comprehensive eye care, covering all specialties of ophthalmology, with state-of-the-art diagnostic and therapeutic facilities.

In our 25th year we are proud that we have reached out to more than 2,800,000 people and provided surgical care to over 76,000 people. This care is spread across all levels of care in the LVPEI Eye Health Pyramid. During the past year, we have taken care of over 460,000 outpatients and provided surgical care to 61,000 patients in our tertiary and Centre of Excellence (CoE) facilities in the urban areas of Andhra Pradesh and Odisha. With the aim of reaching all those in need at their doorstep, the Village Vision Complex of LVPEI has reached out to 1,200,000 outpatients and provided surgical care to 15,000 patients. Since eye care is not a felt need and there is a lot of avoidable visual disability in the villages we have reached out to this important demographic group in our state. In the last year we screened 2,200,000 people and referred 330,000 for further care to higher levels within the LVP Eye Health Pyramid. True to our mission of equity, the care given was totally free of charge to 40% of outpatients, while 67% of the surgeries were performed entirely free of cost, regardless of complexity, in our rural catchment areas. The similar figures for urban care are 27% of outpatient visits and 43% of the surgeries, offered totally free.

The level of subspecialty care provided at our CoE and tertiary centers is the other highlight of our patient care. Of the surgical care given to 61,000 patients, cataract surgery consisted of only one-third. The experience and expertise of our team has ensured that we are a preferred destination for specialty services like pediatric glaucoma, complicated strabismus, oncology, retinopathy of prematurity (ROP), stem cell therapy for ocular surface diseases and disorders of the macula, to name a few.

Our commitment to patient-centric care is exemplified by the e-mail signature used by one of our colleagues: “You treat a disease, you win, you lose. You treat a person, I guarantee you, you’ll win, no matter what the outcome.” Hunter “Patch” Adams. With our focus on excellence, equity, empathy and honesty in all that we do to serve our patients, we have our job cut out to take care of many more patients – not only those who walk into our facilities but also those who have difficulty in accessing our well spread-out facilities.
## Patient Care

### Tertiary & Advanced Tertiary Care

<table>
<thead>
<tr>
<th>Campus</th>
<th>Outpatient visits</th>
<th>Surgical procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Paying</td>
<td>Non-paying</td>
</tr>
<tr>
<td>Kallam Anji Reddy Campus, Hyderabad</td>
<td>186,140</td>
<td>65,204</td>
</tr>
<tr>
<td>Bhubaneswar Campus, Bhubaneswar</td>
<td>69,186</td>
<td>21,090</td>
</tr>
<tr>
<td>GMR Varalakshmi Campus, Visakhapatnam</td>
<td>55,148</td>
<td>26,542</td>
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<tr>
<td>Kode Venkatadri Chowdary Campus, Vijayawada</td>
<td>25,056</td>
<td>11,678</td>
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<tr>
<td><strong>Total</strong></td>
<td>335,530</td>
<td>124,514</td>
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</table>

*Includes data from respective city & extension centres*

### Analysis of Surgical Procedures

<table>
<thead>
<tr>
<th>Surgeries</th>
<th>Kallam Anji Reddy Campus, Hyderabad</th>
<th>Bhubaneswar Campus, Bhubaneswar</th>
<th>GMR Varalakshmi Campus, Visakhapatnam</th>
<th>*Kode Venkatadri Chowdary Campus, Vijayawada</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cataract</td>
<td>12,436</td>
<td>3688</td>
<td>4581</td>
<td>977</td>
<td>21,682</td>
</tr>
<tr>
<td>Cornea &amp; anterior segment</td>
<td>5323</td>
<td>433</td>
<td>751</td>
<td>143</td>
<td>6650</td>
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<tr>
<td>Corneal transplants</td>
<td>1075</td>
<td>177</td>
<td>148</td>
<td>60</td>
<td>1460</td>
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<tr>
<td>Glaucoma</td>
<td>1405</td>
<td>326</td>
<td>208</td>
<td>26</td>
<td>1965</td>
</tr>
<tr>
<td>Retina &amp; vitreous</td>
<td>12,440</td>
<td>2865</td>
<td>643</td>
<td>308</td>
<td>16,256</td>
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<tr>
<td>Squint</td>
<td>1477</td>
<td>85</td>
<td>193</td>
<td>56</td>
<td>1811</td>
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<tr>
<td>Ophthalmic plastic surgery</td>
<td>5131</td>
<td>970</td>
<td>713</td>
<td>6</td>
<td>6820</td>
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<tr>
<td>LASIK</td>
<td>1155</td>
<td>96</td>
<td>480</td>
<td>–</td>
<td>1731</td>
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<tr>
<td>Others</td>
<td>650</td>
<td>324</td>
<td>1243</td>
<td>274</td>
<td>2491</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>41,092</td>
<td>8964</td>
<td>8960</td>
<td>1850</td>
<td>60,866</td>
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*Surgical services launched June 20, 2011*
Children’s Eye Care

<table>
<thead>
<tr>
<th>Campus</th>
<th>Outpatient visits</th>
<th>Surgical procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Paying</td>
<td>Non-paying</td>
</tr>
<tr>
<td>Jasti V Ramanamma Children’s Eye Care Centre, Hyderabad</td>
<td>28,350</td>
<td>11,014</td>
</tr>
<tr>
<td>Miriam Hyman Children’s Eye Care Centre, Bhubaneswar</td>
<td>8170</td>
<td>2632</td>
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<tr>
<td>Nimmagadda Prasad Children’s Eye Care Centre, Visakhapatnam</td>
<td>6409</td>
<td>1897</td>
</tr>
<tr>
<td>The David Brown Children’s Eye Care Centre, Vijayawada</td>
<td>3294</td>
<td>1525</td>
</tr>
<tr>
<td>Total</td>
<td>46,223</td>
<td>17,068</td>
</tr>
</tbody>
</table>

These numbers are included in the patient care summary on the earlier page.

Retinopathy of Prematurity (ROP) Program

<table>
<thead>
<tr>
<th>Campus</th>
<th>Babies screened</th>
<th>RetCam sessions</th>
<th>Babies identified with ROP</th>
<th>Laser sessions</th>
<th>Pediatric retina surgeries</th>
<th>ROP surgeries</th>
<th>Intravitreal injections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyderabad</td>
<td>1189 (556 at LVPEI and 633 at NICUs)*</td>
<td>149</td>
<td>419</td>
<td>180</td>
<td>530 (crossed 500 for the first time!)</td>
<td>71 (crossed 70 for the first time!)</td>
<td>15</td>
</tr>
<tr>
<td>Bhubaneswar</td>
<td>402 (71 at LVPEI and 331 at NICUs)*</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

\*NICU: Neo-natal Intensive Care Unit

- A lower number of ROP surgeries, as compared to babies screened and treated with laser, indicates the success of the program. The 71 surgeries were mainly for babies referred to us, a recognition of our ROP and pediatric retina surgery centre in India and the neighbouring countries.
- A record number of 26 trainees benefitted from our hands-on ROP training program – the highest at a single centre, anywhere in the world. The program builds capacity so that ophthalmologists can screen and treat babies in their local communities. (Page 80)

A Happy and Priceless New Year!

Ugadi marks the beginning of a new year for the people of Andhra Pradesh. But this Ugadi, the 20th of March 2012, was a special day for the doctors at LVPEI. They were challenged to perform a difficult surgery on Shraya (name changed), a tiny baby weighing just 1400 grams, suffering from a critical, potentially blinding condition of retinopathy of prematurity (ROP). What better way to start the year than with restoring the sight of a newborn on the brink of a lifetime of blindness!

Apprehensive about the eye condition of Shraya, just 3-4 weeks old, N Satyanarayana came to L V Prasad Eye Institute, Hyderabad, hoping that the baby’s disorder would be diagnosed and managed properly. The baby was suffering from a critical ROP condition that could have permanently destroyed the retina of both the eyes if not operated within 3 days! The parents were told that an emergency operation was required; risks and benefits were clearly laid out. The low weight of the baby was a challenge for the team of ophthalmologists, anesthetists, nursing staff, counsellors, and the neonatologist due to a very high risk of anesthesia-related complications, even in the best of centres! The father finally consented to the surgery, reassured by the genuine concern of the doctors for his child’s vision and life.

An LVPEI emergency core team was constituted. Not only premature, the baby was anaemic and suffering from poor nutrition. Counsellors Praveen and Vijaya coordinated with the baby’s neonatologist and the parents for all the preoperative evaluation and paperwork, without tiring this tiny life!

All preparations were made within 48 hours to make the baby as fit as possible for safe anesthesia. Blood transfusion, lungs, liver function, kidney function, nutrition and electrolyte balance, cardiac care – so much to be assessed and managed at such short notice!

Finally, as the dawn was breaking, the baby was brought to the theatre. Highly competent neonatal anesthesiologist, Dr Ranjan Kumar Samanthary accepted the pivotal role, supported by senior colleague Dr C Vijay Mohan Reddy and anesthesia technician, Mr Venkatanarayana. Theatre Nurse Jaisamma left her own children asleep in bed to stay beyond her duty hours, along with her colleague, Sister Mariamma.

Accomplished retinal surgeon, Dr Subhadrar Jalali, operated upon both the eyes using microsurgical techniques. Operating upon an eye less than 16mm in size, without causing damage to critical structures like the lens and the retina, required surgical precision, dexterity and a passion for perfection. When the baby stirred out of anesthesia and cried, the whole team and the anxious administrators, counsellors and parents outside, knew that a beautiful New Year had dawned!

Less than a month later, the healthy and happy baby spread sunshine on a return visit, as she smiled at the doctor, looking up with pretty good vision in both her bright eyes!

In 1999, LVPEI was the first hospital in India to start a city-wide, all inclusive NICU-centered ROP screening program. Under its Indian Twin Cities ROP screening study (ITCROPS), a team of doctors visits the NICUs weekly, to screen pre-term babies. Till date more than 7000 babies have been seen and managed.
Patientspeak

“Our child has totally recovered”

We were anxious when we found our 7-month-old baby’s eyes swollen, red and watering. We heard about L V Prasad Eye Institute’s services and brought our child to the Vizag hospital on December 21, 2011, for treatment.

Dr Manav Khera examined the baby and said that he had developed severe inflammation in the left eye. He explained the need for immediate surgery. The way he explained about the problem was really good. The surgery was performed the next day and injections given during the course of treatment for about a week.

We are happy now that our child has totally recovered. We are really grateful to Dr Manav Khera for his interest and advice. Your counselors called us frequently to check on the condition of my child’s eyes. It really touched us. The attention paid to my child by the doctor and staff is remarkable. We are very thankful to L V Prasad Eye Institute.

Feedback given by baby Yellapu Dharmendra’s mother, Mrs Y Lakshmi, in Telugu; translated into English

“I regained my lost vision”

I am a 45-year-old postgraduate biology teacher, working in Kendriya Vidyalaya, Nuansegh, Visakhapatnam. I am both diabetic and hypertensive. In 2007, I observed that my left eye had blurred vision. I saw an ophthalmologist, who told me that I was suffering from diabetic retinopathy.

In 2008 I underwent vitrectomy, as repeated laser treatment did not help. Unfortunately, I lost all vision in my left eye. I also had bleeding on the retina in my right eye. At that time I heard about L V Prasad Eye Institute and went there. I was examined by Dr Avinash Pathengay, retina consultant. After hearing about the problems in my right eye I became very frustrated. But he counseled me and generated a ray of hope in me.

On August 15, 2009, I found I was losing my vision… darkness surrounded me. I rushed to see Dr Avinash. After an examination he said my right optic nerve had become detached, due to a massive flow of blood to the retina of my right eye. He planned a vitrectomy surgery on 19th August 2009. Slowly I regained my vision. Dr Avinash is not only a skilful surgeon, but also a good human being with a positive approach towards his patients. On every visit, he used to boost my morale.

In November 2011, I learnt that my retina was perfectly pasted and the silicone oil had to be removed. I underwent surgery on 9th January 2011 by Dr Merle Fernandes, who is also a very skilled and kind surgeon. When the eye patch was removed, I saw the beautiful world with bright and crystal clear vision. God has given me back what I had lost for the past two and a half years! Dr Merle Fernandes said my eye had regained over 80% vision. This was possible thanks to Dr Avinash and Dr Merle, and LVPEI with its wonderful technology and infrastructure.

By B Usha Rani
Vision Rehabilitation

The loss of vision has multidimensional implications on a person’s quality of life – physical (reduced perception), functional (self care, mobility, and limitations in daily activities), social (interpersonal relationships), and psychological (emotional well-being and happiness).

The aim of the Vision Rehabilitation Centres is to empower people with incurable vision loss to enhance their quality of life and live as independent a life as possible, through comprehensive low vision rehabilitation intervention. Since their inception on June 4, 1992, the centres have helped change the lifestyle of more than 100,000 visually challenged persons, from all age groups and across all segments of the population. The key components of intervention include psychological support, low vision care – assessment, training and prescription of devices, special skills training such as independent living skills and mobility, assistive software training for using computers, early intervention for children below 5 years of age with developmental problems, guidance and placement services for economic independence, self-help group meetings and peer support programs, advocacy and support services.

The highlights of the year were the launch of a ‘Program for Early Intervention in Children’ and ‘IT Training Centre for Visually Impaired’ at Hyderabad, supported by the Mahindra Sayam Foundation. The outstanding performance of four young clients in their Board examinations was thrilling. Another young client, hailing from a farmer’s family in Gokavaram (East Godavari district) recently published a novel, Pharaoh and the King, based on Indian and Egyptian mythology. Viswanath V Dasari, a student of Rajiv Gandhi University of Knowledge Technologies, Nuziveedu, Andhra Pradesh, suffers from nystagmus and photophobia – his eyes cannot focus clearly on any object for more than a second. He initially wrote by hand, and later, started using MAGic (screen-magnification software), given to him by LVPEI.

Low Vision Services in Rural Areas for the First Time

Continuing our efforts to provide low vision services across our network, 3 Vision Technicians – E Ramdas from Sudhakar and Sreekanth Eye Centre, Markapuram, Prakasam district, and K Ashwin Kumar and G Bhasker from the Kuchukulla Ramachandhra Reddy Eye Centre, Toodukurthy, Mahabubnagar district – were trained to provide low vision services. The services are now available at five secondary centres. This is the first time in the country that the services will be available in remote rural locations, so that those with incurable visual loss need not travel to the main campus in Hyderabad to access them. This is significant, given the higher prevalence of visual impairment and blindness among the rural population.

At almost all our primary care Vision Centres, simple low vision services such as advice on lighting and contrast, dispelling of misconceptions about the use of residual vision and provision of high addition bifocals are offered by trained Vision Technicians. Patients requiring magnifiers are referred to the next level, secondary centres. Thus, low vision services are available at all levels of eye care in the LVPEI pyramid – ranging from the simplest at primary care levels to the most advanced at the tertiary levels and the Centre of Excellence.
**Mahindra Satyam Supports New Projects**

Two new services were launched on November 9, 2011, at the Hyderabad campus: ‘Program for Early Intervention in Children’ and ‘IT Training Centre for Visually Impaired’. The centres are supported by the Mahindra Satyam Foundation (MSF). Mr Vinod Khanna, Trustee, MSF, said they were privileged to partner with LVPEI and promised to extend financial assistance and help find placements for our clients.

The early intervention program for children with visual and multiple disabilities focuses on speech therapy, physiotherapy, training in daily living skills, special education, behavior modification and vision therapy. Till the end of March 2012, multi-disciplinary services had been provided to 252 children, by a team comprising rehabilitation counselor, physiotherapist, speech therapist, vision therapist, mobility instructor and special educator.

Under the IT project, 2 batches of 79 students received training in using assistive software JAWS (27) and MAGIC (52). The centre also organized 35 soft skills training programs.

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**Rehabilitation Services at KVC Campus**

The Kode Venkatadri Chowdary campus at Vijayawada set up a Rehabilitation Centre on July 20, 2011, to offer services to people of all ages. The key services comprise counseling to cope with vision loss, training in orientation and mobility, home management, Braille, computers, and early intervention and advocacy services.

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**A Day in the Sun – Fun Camps**

**Hyderabad:** The 14th ‘Fun Camp for Visually Impaired Children’ was organised on November 12, 2011. Over 150 visually impaired children, their siblings, family members, staff and volunteers enjoyed a picnic on the lush lawns of a city park. They took part in games and competitions – frog race, tug of war, passing the ball, group relay and quizzes – designed with their special needs in mind. All the children received prizes and gifts.

Louise Sowerby, a volunteer at LVPEI said, “We had a great time on Saturday and the camp was very inspiring. I sent some photos to England and my family thinks it is a wonderful and unique idea. There are no camps like that in England.”

**Visakhapatnam:** The first Fun Camp for the campus was organised on December 4, 2011, at a city park, with 20 clients, siblings, family members, staff and volunteers. The games and competitions made them laugh, while the prizes and gifts were received with great excitement. Doctors and staff, friends, volunteers and trainees visited the camp to encourage the children.

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**Young Clients Make Us Proud!**

The Vision Rehabilitation Centres were proud of the achievements of four young clients, who scored high in the Class X examinations. Ch Gopal (83%, special school), Raju (80%, special school), Shrawya (85%, inclusive school), and Karishma have severe visual impairment. They have been coming to our rehabilitation and sight enhancement centres for educational support and multiple skills training. We have been charting their growth since they were three years old.

Karishma lost most of the vision in her only seeing eye just at the beginning of her Class X and could not recover it, despite several surgeries. She faced this terrible loss bravely, with support from the Vision Rehabilitation Centres, working doubly hard at school. Karishma scored 77% in the Senior Secondary Certificate Board Examination!

Our committed volunteers, who help prepare educational material (Braille and audio books) and work as scribes for them, are proud to share their success.
Low Vision Training
Since training programs in low vision rehabilitation services are scarce the world over, LVPEI has been conducting these in various formats over the last decade. This year, Mr Mohd Halimi Zakaria, a senior optometrist from Kuala Terengganu Hospital, Malaysia, spent a month training here to enable him to start comprehensive low vision rehabilitation services in his hospital.

Low Vision Services at KVC Campus
The Kode Venkatadri Chowdary campus at Vijayawada set up a Centre for Sight Enhancement on World Sight Day, October 13, 2011. The state-of-the-art facility is unique to this area and offers comprehensive low vision rehabilitation as part of the continuum of patient care within the eye institute itself. The centre has a wide array of low vision devices, ranging from conventional optical magnifiers to high-tech electronic devices.

Digital Library
The rehabilitation centre at LVPEI also provides affordable and easy access to educational opportunities for those with print disabilities, through its digital library services. The centre’s Digital Library studios recorded 92 digital books in Telugu, English and Hindi, in digital MP3 and Daisy format, for 1102 users of all ages and socio-economic backgrounds, between April 2011 and March 2012. The library has in store over 300 analog cassettes and 130 digital books.

Enhanced Range of Low Vision Devices for Children
The armamentarium of devices at the Centre for Sight Enhancement, Hyderabad, empowers children with vision problems, who cannot tolerate bright light, to play outdoors in natural light like their peers, while also getting some vitamin D to strengthen their bones. Puja Ganesh Tekam from Maharashtra, just 4, has developmental glaucoma and was confined indoors because of her intolerance for the sun’s glare. She was provided special filters (NOIR) to shield her eyes. She can now face even the sharp camera light cheerfully!
Rehabilitation of the Blind & Visually Impaired

<table>
<thead>
<tr>
<th>Rehabilitation Services</th>
<th>Dr PRK Prasad Centre, Hyderabad</th>
<th>NTPC Centre, Bhubaneswar</th>
<th>Visakhapatnam</th>
<th>Vijayawada*</th>
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<td>New client visits</td>
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<td>543</td>
<td>1059</td>
<td>371</td>
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<td>79</td>
<td>510</td>
<td>393</td>
<td>6115</td>
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<td>Total</td>
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<td>622</td>
<td>1569</td>
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<td>217</td>
<td>382</td>
<td>212</td>
<td>3161</td>
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<tr>
<td>Instruction in use of</td>
<td>2480</td>
<td>285</td>
<td>632</td>
<td>124</td>
<td>3521</td>
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<tr>
<td>Assistive devices (computers)</td>
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<tr>
<td>Environmental modification</td>
<td>2053</td>
<td>162</td>
<td>432</td>
<td>224</td>
<td>2871</td>
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<td>Educational guidance</td>
<td>869</td>
<td>85</td>
<td>220</td>
<td>106</td>
<td>1280</td>
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<td>Vocational guidance</td>
<td>290</td>
<td>44</td>
<td>72</td>
<td>40</td>
<td>446</td>
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<td>Supportive guidance</td>
<td>2816</td>
<td>227</td>
<td>19</td>
<td>68</td>
<td>3130</td>
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</table>

Some clients were prescribed more than one device and trained in multiple living skills

* Launched July 20, 2011

Sight Enhancement

(Low vision rehabilitation)

<table>
<thead>
<tr>
<th>Sight Enhancement</th>
<th>Meera &amp; L B Deshpande Centre, Hyderabad</th>
<th>NTPC Centre, Bhubaneswar</th>
<th>Bob Ohlson Centre, Visakhapatnam</th>
<th>Vijayawada*</th>
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<tr>
<td>New client visits</td>
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<td>445</td>
<td>778</td>
<td>330</td>
<td>4224</td>
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<tr>
<td>Follow-up client visits</td>
<td>1748</td>
<td>45</td>
<td>299</td>
<td>35</td>
<td>2127</td>
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<td>Total</td>
<td>4419</td>
<td>490</td>
<td>1077</td>
<td>305</td>
<td>6351</td>
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<tr>
<td>Low vision devices prescribed</td>
<td>1155</td>
<td>199</td>
<td>825</td>
<td>203</td>
<td>2382</td>
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* Launched October 13, 2011

Multi-disciplinary Intervention Brings Hope for Harshith

Three-year-old Yagna Harshith was brought to LVPEI, Hyderabad, by his parents with complaints of poor vision. On examination, he was diagnosed to have ‘Corpus Callosum Dysgenesis’, a blinding condition which is not treatable. He was referred to the Vision Rehabilitation Centres for further management.

Harshith’s parents were devastated when the rehabilitation counselor explained to them that their child had multiple disabilities, with developmental delays in motor, speech and cognitive areas, in addition to his visual problems. They were counseled to accept their son’s condition. They were told that every child is unique and Harshith would develop at his own pace. The rehabilitation team helped the parents to be more creative and resourceful.

A multi-disciplinary team – comprising a rehabilitation counselor, special educator, speech therapist, physiotherapist, vision therapist, and mobility instructor – helped formulate a customized rehabilitation plan, with both short and long term goals. Harshith received intensive therapy in vision stimulation, physiotherapy, speech therapy, as well as training in behavior modification, group play, sensory integration and daily living skills.

Within six months Harshith showed amazing improvement, which brought new hope to the parents. He could fixate upon and follow illuminated objects within a 15-cm distance. He could sit on his own, with proper balance and voluntary control, and acquired a cylindrical and palmar grasp. He could eat with a spoon, eat finger foods, hold a glass of water and drink from it, distinguish between familiar persons and strangers using the sense of touch, identify common objects, and perform constructive activities without any auditory stimulation. He began speaking short sentences tried to imitate others’ speech and speak to communicate his basic needs.

Overall, he showed improvement in all areas of development and achieved most of the short term goals. The intervention continues with different goals. Early detection and timely intervention led to Harshith’s remarkable progress.

Majidca Mahalokatmi gives sand therapy to Harshith for sensory integration; inset, Harshith plays a tune
Ramayamma International Eye Bank

“From total blindness to functional vision is like being reborn. I can move about on my own now. It’s a miracle! It just can’t be described in words!”

This is a true statement by one of Ramayamma International Eye Bank’s 2100 beneficiaries of successful corneal transplantation during the past one year. The statement sums up the reason for the existence of the Ramayamma International Eye Bank (RIEB) of L V Prasad Eye Institute, Hyderabad. The Eye Bank offers hope to many people, across all sections of the community, through its services – providing high quality donor corneas, leading to a useful visual outcome. RIEB’s well-recognized contributions earned it the title of a “Centre of Excellence” from SightLife, Seattle, USA, in 2011. The eye bank has been a resource centre for initiating an accreditation protocol to ensure high-quality standards for eye banks in India. This year our collaborative training programs, supported by SightLife, USA, and Eyesight International, Canada, benefited 17 Eye Bank Technicians and 33 Eye Donation Counselors, in addition to 20 other professionals, including Eye Bank Managers and Ophthalmologists.

The year also saw the recognition of multi-specialty hospitals, namely the Nizam’s Institute of Medical Sciences (NIMS) and Gandhi Hospital in Hyderabad. Their support of the Hospital Cornea Retrieval Program (HCRP) has paved the way for sourcing high volumes of quality corneas, enabling RIEB to provide them to surgeons across the country, in addition to being utilised for corneal transplantation surgeries for vision restoration at LVPEI.

drushti daan Eye Bank

drushti daan Eye Bank, the first community eye bank of Odisha and located at L V Prasad Eye Institute, Bhubaneswar, has shown remarkable growth over the last few years. The total number of corneas collected this year was 501 and the total corneas utilized was 411, i.e., a utilization rate of 82%. Compared to the previous year, the total cornea collection growth rate was 68%. In recognition, drushti daan Eye Bank received a special award for the “Highest Utilization Rate” from its global partner, SightLife.
Mohsin Eye Bank
Mohsin Eye Bank, a community eye bank located at LVPEI, Visakhapatnam, has maintained its growth in terms of the number of tissues harvested and transplanted. A total of 312 corneal transplants were performed, from the 447 corneas harvested, reflecting a utilization rate of almost 70%. In December 2011 alone, 60 corneas were collected. This is the highest in a single month; the number of corneas retrieved through the Hospital Cornea Retrieval Program was also the maximum. Remarkable progress has been made with the HCRP at King George Hospital, with an increase in the number of motivated donors.

The activities conducted throughout the year included audiovisual programs and setting up of stalls in public areas to increase awareness. A public seminar “UNI-DAAN” on eye, blood, organs and body donation was conducted. Vice-Admiral Anup Singh, Flag Officer Commanding-in-Chief, Eastern Naval Command, Visakhapatnam, was the chief guest for the Eye Donation Fortnight, August 25 – September 8, 2011.

Mohsin Eye Bank celebrated its 10th anniversary on October 16, 2011. Dr D Purandareswari, Minister of State for Human Resource Development, Govt of India, was the chief guest.
Highlights

- First eye bank in the country to supply 2100 corneas in a single year.
- In April 2011, the Ramayamma International Eye Bank (RIEB) was accredited by the Eye Bank Association of India.

26th National Eye Donation Fortnight

drushi daan eye bank at Bhubaneswar campus conducted several awareness activities during National Eye Donation Fortnight (August 25 – September 8, 2011). A symposium was held on August 27, “Eye Banking – The Way Forward”, in which corneal surgeons, general practitioners, grief counselors, and volunteers from various organizations participated. Ms Anu Garg, Commissioner-cum-Secretary, Health & Family Welfare, Govt of Odisha, was the chief guest. Dr Pramod Meherda, Mission Director, NRHM, Odisha, and Dr Radharani Nanda, Joint Director, Ophthalmology, were the guests of honor. The campus also conducted an elocution competition on eye banking, eye donation and blindness at a women’s college, as well as inter-school painting competitions, in which 144 children expressed their thoughts through beautifully creative paintings (below).

The Ramayamma International Eye Bank at Hyderabad campus organized several programs, along with the Eye Bank Association of India and the National Programme for Control of Blindness. A large public gathering of over 1000 people attended, to support the cause of eye donation. Awareness drives for the Hospital Cornea Retrieval Program (HCRP) were held in smaller hospitals and private companies. About 300 college students participated in an awareness program; 100 pledged to donate their eyes. Messages on eye donation were shown in cinema halls and on television. Eye donation awareness/pledge stalls were set up in the larger hospitals.

Community Eye Banking

Ms Brinda Ramachandran and Mr G Srinivas visited 21 affiliate eye donation centers and eye banks, in 8 districts of Andhra Pradesh, to monitor their recovery techniques, help enhance the standards of quality, and ensure compliance with the medical standards of the National Programme for Control of Blindness (NPCB) guidelines.

Training

The restructured Eye Donation Counselor training program aims to train counselors to confidently and compassionately approach grieving families to donate the eyes of their loved ones and build long-term relationships with multispecialty hospitals to implement the HCRP. Under the restructured RIEB – SightLife Eye Donation Counselor training program, 33 counselors were trained during the year.

<table>
<thead>
<tr>
<th>Corneas Collected</th>
<th>Ramayamma International Eye Bank, Hyderabad</th>
<th>*drushi daan eye bank, Bhubaneswar</th>
<th>*Mohsin Eye Bank, Visakhapatnam</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motivated</td>
<td>1077</td>
<td>469</td>
<td>191</td>
<td>1737</td>
</tr>
<tr>
<td>Volunteered</td>
<td>715</td>
<td>32</td>
<td>140</td>
<td>887</td>
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<tr>
<td>Affiliate centres*</td>
<td>1873</td>
<td>–</td>
<td>116</td>
<td>1989</td>
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<tr>
<td>Total</td>
<td>3665</td>
<td>501</td>
<td>447</td>
<td>4613</td>
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<table>
<thead>
<tr>
<th>Corneas Utilized</th>
<th>Surgeries at own campus</th>
<th>1337</th>
<th>177</th>
<th>119</th>
<th>1633</th>
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<td>To other LVPEI campuses</td>
<td>109</td>
<td>4</td>
<td>–</td>
<td></td>
<td>113</td>
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<tr>
<td>To surgeons outside LVPEI</td>
<td>703</td>
<td>230</td>
<td>193</td>
<td></td>
<td>1126</td>
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<tr>
<td>Training &amp; research</td>
<td>1516</td>
<td>90</td>
<td>135</td>
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<td>1741</td>
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</tbody>
</table>

* Community eye banks on our campus  
* RIEB affiliate centres at Nidudavolu, Tanuku, Suryapet & Madanapalle and other eye collection centers
Eye Banking Initiatives

RIEB conducted an eye pledge program for Arena Animation on January 2, 2012, with banners and posters displayed at the venue. A presentation highlighted the importance of eye donation, roadblocks faced by institutions in securing corneas to help the needlessly blind and myths about eye donation. The exercise helped to create awareness about the need for everyone to help bridge the gap between the demand and supply of corneas.

On its 20th anniversary, ViVimed Labs Limited, Hyderabad, sought RIEB’s support in conducting an awareness campaign in Adilabad district on December 27, 2011 – the first of its kind in a semi-urban set-up. Posters and banners were displayed at prominent places in the city, urging the public to participate. A rally was organised in which schoolchildren, nursing staff from Primary Health Centres (PHC) and doctors from the local IMA, as well as the public participated. A meeting was organized to create awareness about eye banks and how eye donation can help restore vision to the corneally blind. District Collector Dr Ashok Kumar urged the public to pledge their eyes and work for the cause of eye donation. More than 200 people attended the program.

Over 50 awareness programs were conducted by RIEB this year, covering NCC camps, corporate organizations, media, voluntary organizations, religious groups, communities, educational institutions and hospitals.

We are grateful to our network of affiliates who contributed to the cornea collection

Akbar Eye Hospital, Anantapur (12); Annapurna Netralaya, Miryalaguda (2); Badam Balakrishna Eye Bank, Kakinada (93); Chiranjeevi Eye Bank, Hyderabad (8); Dhanvantari Eye Donation Center, Tenali (72); District Blindness Control Society, Nandyal (10); District Hospital, Janagao (13); District Hospital (Red Cross Eye Bank, Eluru) (86); Dnyasree Hospital, Anantapur (2); drushhti daan, Bhubaneswar (2); Govt. General Hospital, Guntur (4); Govt. General Hospital, Anantapur (2); Janananda Eye bank, Bhimavaram (6); Kamineni Institute of Medical Sciences, Narketpally (4); Lions Club of Bejjanki, Karimnagar (2); Lions Club of Bellampalli (2); Lions Eye Hospital, Bodhan (11); Lions Club of Cherial, Cherial (16); Lions Club of Karimnagar, Karimnagar (432); Lions Club of Mahabubabad, Mahabubabad (12); Lions Club of Mancherial (2); Lions Club of Palakol, Palakol (48); Lions Club of Ramagundam, Ramagundam (4); Lions Club of Sircilla, Sircilla (4); Lions Club of Suryapet Eye Hospital, Suryapet (32); Lions Club of Thorrur, Thorrur (2); Lions Club of Vemulavada, Vemulavada (2); Mamatha Eye Bank, Khammam (18); Modern Eye Hospital, Nellore (380); MVR Eye Center, Tanuku (6); Nayana Eye Care, Nandyal (6); Pavana Eye Hospital, Jagityal (10); Pushpagiri Eye Institute, Secunderabad (22); Regional Eye Hospital, Kurnool (36); Regional Eye Hospital, Warangal (73); Rotary Club of Vuyyur, Vuyyur (12); Sadharam Eye Hospital, Hyderabad (14); Shri KVB Reddy IRCs Eye Bank, Kurnool (16); Siloam Eye Hospital, Madanapalle (4); Smt. Gomabai Netralaya, Neemuch (9); Smt. Rajeswari Ramakrishnan Lions Eye Hospital, Nidadavole (242); Sneha Seva Samiti, Proddutur (30); Sri Y. Balarama Murthy Konaseema Eye Bank, Ambajpet (26); Sudarsami Eye Hospital, Guntur (30); SVRR Govt. General Hospital, Tirupati (6); Surya Swatchanda Seva Trust, Mahabubabad (12); Swetcha Gora Eye Bank, Vijayawada (4); The Khammam Eye Bank, Khammam (6); VT Thakur Lions Eye Hospital, Kamaraddey (2); Yanam Eye Bank, Yanam (24).

Total eyes/corneas received from eye donation centres in Andhra Pradesh: 1873

LVPEI Acknowledges NIMS’ Role in Enhancing Eye Donations

RIEB has been partnering with the Nizam’s Institute of Medical Sciences (NIMS) since 1990 to implement its Hospital Cornea Retrieval Program (HCRP). The program involves placing trained eye donation counselors in multi-specialty hospitals, to approach family members in the event of the death of a loved one, to counsel and motivate them to make an eye donation. The initiative has been a huge success, enabling RIEB to recover 7000 donor corneas till date.

On March 3, 2012, Dr Dharma Rakshak, Director of NIMS, was felicitated by RIEB in grateful acknowledgement of the partnership.

In 2011, the HCRP was initiated at Gandhi Hospital and, till March 31, 2012, 398 corneas were recovered. As a token of its appreciation, the Institute donated 2 stretcher trolleys to the Gandhi Hospital mortuary.

The HCRP has emerged as a successful model for enhancing donor cornea procurement and has been replicated in different parts of the country. The program has enabled LVPEI to eliminate the waiting list for corneal transplantation for its patients, while also supplying corneas to other centres.
Product Development

Mc Carey Kaufman’s Medium for Corneal Preservation

The Ramayamma International Eye Bank, LVPEI, Hyderabad, produced 23,852 vials of the Mc Carey Kaufman (MK) medium during the year. We supplied 23,239 vials of the MK medium to 193 national eye banks and 5 international eye banks.

National

International
Dhaka, Bangladesh; Nairobi, Kenya; Yongan, Myanmar; Kathmandu, Nepal; Nigeria

Amniotic Membrane for Ocular Surface Reconstructive Surgeries

RIBE produced 1416 pieces of amniotic membranes during this year. It supplied 1239 amniotic membranes to 3 LVPEI tertiary campuses, 5 secondary eye care centres and 46 to other surgeons for surgery. A total of 157 membranes were provided for in-house research and training purposes.

National

International
Dhaka, Bangladesh; Nairobi, Kenya; Yongan, Myanmar; Kathmandu, Nepal; Nigeria

Excellence | Equity | Efficiency
Community Eye Health & Outreach
International Centre for Advancement of Rural Eye care (ICARE)

The International Centre for Advancement of Rural Eye care (ICARE) was established in 1998 with the support of two leading INGOs in the area of blindness prevention – CBM (formerly Christoffel-Blindenmission, Germany) and Sightsavers International (UK). All the public health related activities of LVPEI, local and global, are coordinated by ICARE. Its core activities include establishment of quality eye care centres in the underserved parts of India and the developing world, training of eye care human resources at various levels, epidemiological research and advocacy. The LVPEI Eye Health Pyramid model of eye care service delivery originated from the Andhra Pradesh Eye Disease Study (APEDS), a landmark epidemiological study (1996-2000) conducted in the state of Andhra Pradesh. APEDS identified refractive error as the major cause of blindness and visual impairment, highlighting the need for providing comprehensive eye care services in rural areas.

To take eye care to the unreached closer to their homes, ICARE has established 10 secondary centres and 88 Vision Centres, till date. In the 13 years since its inception, ICARE has reached 6085 villages, screening 5,505,559 people through door-to-door programs and 444,943 people through community and Vision Centre screenings. This year, ICARE prescribed 111,856 glasses, provided comprehensive eye examination services to 293,743 people and performed 15,080 surgeries, majority of them for cataract. In addition, ICARE teams screened 207,575 schoolchildren. A total of 67% of all services were provided to women, thus bridging the gender inequity common in accessing eye care services.

The highlight of 2011-2012 was a symposium organized by ICARE – “Health Systems, Eye Health and Non Communicable Diseases,” which saw the participation of global luminaries in the fields of eye care and public health. LVPEI paid homage to two of these giants, who helped shape its community eye health initiatives in a big
way. The research component of ICARE was named after Prof Allen Foster as the “Allen Foster Community Eye Health Research Centre” and the education component was named after Prof Ramachandra Pararajasegaram as the “Ramachandra Pararajasegaram Community Eye Health Education Centre.”

Other landmarks during the year include the inauguration of our 10th rural secondary eye care centre, Dr Kommareddy Raja Ram Mohan Rao Eye Centre at Gudavalli in Guntur district and the establishment of 16 primary care Vision Centres, all in Andhra Pradesh. The Vision Centre in Kapileshwarapuram village of East Godavari district is noteworthy, being sponsored entirely by philanthropists hailing from that village.

Last year also saw the Electronic Medical Record system (EMR) connecting the Vision Centres in Khammam to the secondary Nava Bharat Eye Centre in Paloncha. This centre achieved the distinction of sustaining its operations from the very first month and has continued to do so. It broke all records, clocking over 20,000 outpatient visits and performing over 2000 surgeries, more than 60% of them completely free of cost to the patients.

On the community eye care front, our staff undertook a pledge to make all villages within their charge free of avoidable blindness by the year 2020.

The Ramachandra Pararajasegaram Community Eye Health Education Centre laid the groundwork for transforming the Master of Community Eye Health course into an online program in collaboration with the University of New South Wales (UNSW), Australia. One course module will go online this year and several more will follow next year. The online modules will enable many more public health professionals to benefit from this course remotely.

The Allen Foster Community Eye Health Research Centre counted 14 publications this past year. Rapid assessment surveys were implemented both in India and Africa. Our collaboration with the International Centre for Eye care Education (ICEE), Australia, has enabled one such survey in Ghana. A new collaboration involved OneSight Luxottica Foundation, which is supporting the ‘Refractive Errors Assessment Project’ (REAP) to understand uncorrected refractive errors, presbyopia and spectacle use among the weaving community in rural India.

Our capacity building efforts included collaborations with the International Agency for the Prevention of Blindness (IAPB), Operation Eyesight Universal (OEU), Centre for Community Ophthalmology (CCO), and ORBIS International. The IAPB project involved ICARE working with the Islamia Eye Institute in Bangladesh and the University of Nairobi in Kenya. The CCO project enabled five hospitals in India to upgrade their capacity. The OEU project involved evaluation of potential partners while the ORBIS project requires ICARE to evaluate participants in ORBIS’ India Childhood Blindness Project. These collaborations will extend into this year as well.
News Highlights

First Online Course of ICARE

ICARE plans to offer the Master of Community Eye Health (MCEH) course as an online program, in collaboration with the University of New South Wales (UNSW), Sydney, Australia. Planning and development of the course material for the online modules has begun. Next year, one of the modules on Eye Care Program Management will be offered completely online. Program in-charge Ms S Sheeladevi visited Sydney from October 1-8, 2011, to discuss the course. A workshop was also organized at ICARE, from February 13-17, 2012, with representatives from UNSW – Dr Catherine Suttle, Dr Isabelle Jalbert, Dr Belinda Allen, and Prof Larry Hulbert, as well as ICARE faculty participating.

Against this background, several of LVPEI’s faculty for the online MCEH course have been nominated as Adjunct Lecturers at UNSW. They are:

Dr Rohit Khanna, Dr Padmaja Kumari Rani, Mr A Sashi Mohan, Ms S Sheeladevi, Dr Srinivas Marmamula, Mr S Krishnaiah, Mr Jachin D Williams

Workshop for online MCEH program – seated from left: Dr Belinda Allen, Mr Sashi Mohan, Dr Catherine Suttle; Standing: Dr Vilas Kovas, Ms S Sheeladevi, Dr Isabelle Jalbert, Dr Gullapalli N Rao, Mr S Krishnaiah, Dr M Srinivas, Ms Srilatha

News in Brief

- World Sight Day was celebrated across the Village Vision Complex under the theme “Eye Health is Everybody’s Responsibility” in October 2011.
- ICARE – LVPEI has been selected to evaluate the ORBIS Childhood Blindness Project in India.
- ICARE saw record numbers in its Village Vision Complex (VVC)* cumulatively, in terms of surgeries (1705) and outpatients (11,422) at secondary centres, and screenings (18,549) at primary care Vision Centres in any given month.
- World Diabetes Day and Children’s Day were celebrated across our entire network.
- Nine students from reputed US business schools such as Fuqua, Stanford, and Wharton spent time at ICARE, not only to learn more about LVPEI but to also contribute to the management projects.
- UNSW gave a grant to ICARE to develop online learning and teaching methods for the MCEH program.
- Seva Foundation, USA, has facilitated a grant to ICARE from TOMS, a California based US company, towards surgical, refractive, optical, and medical services to be provided to non-paying patients. This grant has been earmarked for three secondary centers and one tertiary center of LVPEI.

*Village Vision Complex: Group of eye care services offered at community, primary and secondary levels

Partners Meet

The XII Partners & Village Vision Complex Vision Health Team Meet was held at the Kismatpur campus on December 17, 2011, with a universal pledge to make all villages blindness free. About 70 representatives from our partner centres and Village Vision Complexes participated, including administrators, Vision Centre coordinators, community eye care program supervisors and vision health organizers, vision health guardians, as well as consultants, public health specialists, program specialists, executives, directors of ICARE and the Chairman of LVPEI.

Children participate enthusiastically in World Sight Day celebrations in Karamchedu village (Photo: Seetharamaiah, CEC Supervisor)

World Glaucoma Day was celebrated across the LVPEI network, under the theme, “Prevent glaucoma, prevent blindness”. Schoolchildren participate in a rally in Achampet Vision Centre area, Mahboubnagar district (Photo: K Raju, CEC Coordinator)

Seva Foundation, USA, has facilitated a grant to ICARE from TOMS, a California based US company, towards surgical, refractive, optical, and medical services to be provided to non-paying patients. This grant has been earmarked for three secondary centers and one tertiary center of LVPEI.
During the year, 16 primary care Vision Centres (VC) were inaugurated – 8 under the aegis of the Visakhapatnam tertiary centre, 2 linked to the Vijayawada tertiary care campus, 4 affiliated to the secondary care Nava Bharat Eye Centre at Paloncha (Khammam district) and 2 attached to the Dr Kommareddy Raja Ram Mohan Rao Eye Centre in Gudavalli in Andhra Pradesh. This brought the total number of primary care centres in the LVPEI network to 88.

Most of the VCs are located in rent-free premises, made possible by the commitment and support of community leaders and philanthropists. The living expenses of the Vision Technicians managing the VCs are also borne by the community in many instances. (Donors’ names, page 132)

8 Vision Centres for Visakhapatnam
Eight new primary care Vision Centres (VCs), linked to the GMR Varalakshmi campus, were inaugurated in Visakhapatnam district, Andhra Pradesh. Five were set up at Revidi, Gajapatinagaram, Yalamanchili, Kailasapatnam and Govindapuram (May 16-22, 2011) and 3 at Kothavalasa, K Kotapadu, and Kasimkota (December 29, 2011). They are part of the 30 Vision Centres to be launched with support from the Lavelle Fund for The Blind, Inc., USA. They are located in rent-free premises. Dr PVKS Varma, Head, Glaucoma Services, LVPEI, Visakhapatnam, was the driving force in developing local partnerships and ensuring rent-free space for the VCs.

4 VCs for Paloncha Centre
Four Vision Centres were set up linked to the secondary care Nava Bharat Eye Centre at Paloncha in Khammam district – Tekulapally, Chandragonda and Tallada (May 27-30, 2011) and Cherla (August 19, 2011). Managing Director of CARE Hospital, Dr D N Kumar, is taking care of the rent and the Vision Technician’s expenses at Cherla. About 800 children from Rahul Vignan School, set up by Dr Kumar, were also present. Two students Pawan and Sharmila gave talks on the themes: “Can a child help raise awareness?” and “How can a child help its own neighborhood to utilize the Cherla VC services?”
2 VCs for Gudavalli Centre
Two Vision Centres began services at Bhattiprolu and Amruthaluru in Guntur district on March 9, 2012. They are linked to our new secondary care Dr Kommareddy Raja Ram Mohan Rao Eye Centre in Gudavalli for referral services. The 2 VCs will cater to a population of 35,000, providing free eye screening services to the surrounding villages. Mr Bollisetty Srinivas Rao donated the building for the Bhattiprolu VC, while lifetime local support for Amruthaluru came from the Krothapally brothers, Dr K Anjaneyulu and Mr K Ravinda Babu.

Now 12 VCs are operational, out of 30 to be set up with support from the Latter-day Saint Charities, USA.

2 VCs for Vijayawada
The first Vision Centre (VC) attached to the Vijayawada tertiary centre was inaugurated at Kovvali on May 30, 2011. The VC is supported by the Kovvali Development Trust, founded by Mr MBNVV Prasad, a philanthropist. The trust is taking care of the VC’s space, as well as the Vision Technician’s expenses. The second VC was set up at Kapileshwarapuram in East Godavari district on November 20, 2011. It is unique in that its entire cost was borne by local philanthropists, led by Dr V Rammohan Rao, Chairman, and Mr GVB Choudary, Managing Director, of Surya Charitable Trust. Dr Mohan Reddy, Chairman and Managing Director, InfoTech Enterprises Ltd. and Mr Gopal Rao, IAS (Retd) graced the inaugural, which was attended by over 500 people.

The Rural Network
Service Delivery

The services at primary care Vision Centres are offered entirely free of cost. A total of **171,623** people were screened, of which **57,996** were prescribed spectacles for refractive errors.

<table>
<thead>
<tr>
<th>Rural Vision Centres</th>
<th>Screening</th>
<th>Spectacles prescribed*</th>
<th>Spectacles dispensed*</th>
<th>Referred to Service Centre</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rural (86)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bhainsa, Kubeer, Nandipet, Navipet, Kallur, Lokeswaram &amp; Tannur (Bhosle Gopal Rao Patel Eye Centre, Mudhol)</td>
<td>19,975</td>
<td>7081</td>
<td>6953</td>
<td>4728</td>
</tr>
<tr>
<td>Utnoor, Boath, Jainath, Bela, Narnmoor, Jainoor, Janaram, Medarpet, Talamadugu, Gudivathamoor, Ichdra &amp; Indervelly (Ghassana Chennawar Eye Centre, Adilabad)</td>
<td>21,656</td>
<td>8464</td>
<td>7302</td>
<td>4446</td>
</tr>
<tr>
<td>Wanaparthi, Achampet, Nagarikurnoor, Kothakota, Kollapur, Ghanapuram, Bijnalpally, Tellkapally, Kalwakurthy, Lingala &amp; Amangal (Kuchukulla Ramachandra Reddy Eye Centre, Thodukurthy)</td>
<td>30,166</td>
<td>10,550</td>
<td>7276</td>
<td>8142</td>
</tr>
<tr>
<td>Parchuru, Panganipadu, Yeddnapudi, Martur, Ballikuruvu, Epurupalem, Chinnaganjam, Naguluppalapadu &amp; Vepalem (Venkata Lakshmi Eye Centre, Karamchedu)</td>
<td>20,618</td>
<td>7683</td>
<td>5590</td>
<td>3904</td>
</tr>
<tr>
<td>Tripurantakam, Yerragondaipalem, Dornala, Cumbum, Bestavaripeeta, Giddalur, Podili, Darsi, Kurichedu &amp; Chimakurthi (Sudhakar &amp; Sreekant Ravi Eye Centre, Markapuram)</td>
<td>13,280</td>
<td>4437</td>
<td>2698</td>
<td>3207</td>
</tr>
<tr>
<td>Tangutur, Kondapi, Lingasamudram, Chandrasekharapatram, Singharyakonda, Panuru, Ulavapadu, Medarmet, Santhanuppalapadu &amp; Koopathannam (Sudhakar &amp; Sreekant Ravi Eye Centre, Kandukuru)</td>
<td>11,172</td>
<td>3000</td>
<td>1749</td>
<td>2086</td>
</tr>
<tr>
<td>Nimmanapalle &amp; B Kothakoda (Siloam Eye Centre, Madanpalle)</td>
<td>1191</td>
<td>161</td>
<td>98</td>
<td>343</td>
</tr>
<tr>
<td>Ravulapalem (Paramahansa Yogananda Netralaya, Rajahmundry)</td>
<td>4703</td>
<td>810</td>
<td>648</td>
<td>353</td>
</tr>
<tr>
<td>Chodavaram, Shrunagavarapukota, Revidi, GajapathiNagaram, Govindapuram, Yelamanchili, Kailasapatnam, Kasimkota, K Kotapuda &amp; Koopathalam (LVPEI, Visakhapatnam)</td>
<td>15,815</td>
<td>5580</td>
<td>3687</td>
<td>5317</td>
</tr>
<tr>
<td>Kovvali &amp; Kapleshwarapuram (LVPEI, Vizagawada)</td>
<td>3486</td>
<td>1149</td>
<td>658</td>
<td>682</td>
</tr>
<tr>
<td>Yellandu, Kallur, Manuguru, Ashwagaram, Dammapat, Tekulapally, Chandragonda, Tallada &amp; Cherla (Nava Bharat Eye Centre, Paloncha)</td>
<td>22,817</td>
<td>6032</td>
<td>3760</td>
<td>6716</td>
</tr>
<tr>
<td>Amruthaluru &amp; Bhattiprolu (Dr Kommedreddy Raja Ram Mohan Rao Eye Centre, Gudavalli)</td>
<td>546</td>
<td>182</td>
<td>77</td>
<td>206</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Urban (2)</th>
<th>LVPEI-VST Screening Centre, Ramnagar Vision Screening Centre, Kismatpur</th>
<th>6198</th>
<th>2867</th>
<th>1734</th>
<th>1322</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>171,623</td>
<td>57,996</td>
<td>42,230</td>
<td>41,452</td>
<td></td>
</tr>
</tbody>
</table>

Note: The affiliate Service/Tertiary Centres within brackets

*Includes spectacles sold to patients referred by Service Centres and non-prescription sunglasses, photochromatic glasses, etc.


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People of all ages attend the Revidi Vision Centre inaugural

Students of Rahul Vignan School perform at the inauguration of CherlaVC
Secondary Eye Care – Satellite and Partner Centres

10th Secondary Centre Inaugurated
LVPEI’s 10th rural secondary eye care centre – Dr Kommareddy Raja Ram Mohan Rao Eye Centre, near Gudavalli village in Cherukupalli mandal, Guntur district, Andhra Pradesh, was inaugurated on August 24, 2011. It is supported by Dr K Varaprasad, who named it in honor of his teacher and mentor, Dr Kommareddy Raja Ram Mohan Rao, former Vice Chancellor of Nagarjuna University. The centre employs the award-winning eyeSmart Electronic Medical Records (EMR) system for maintaining patient records.

There is a tremendous need for accessible and quality eye care in the area. Dr Varaprasad, a renowned general surgeon, and some of his other family members (also doctors) are serving the rural population of Cherukupalli village for the past 35 years, covering three districts, seeing 300-400 patients per day. The LVPEI team was led by Dr T Sulochana.

Anniversaries of Satellite Secondary Care Centres

- **Bhosle Gopal Rao Patel Eye Centre** in Mudhol celebrated its 15th anniversary on December 20, 2011. This is LVPEI’s first satellite centre and also its most successful centre. Over the past 15 years, the centre has seen over 200,000 outpatients and performed close to 30,000 surgeries.

- **Nava Bharat Eye Centre (NBEC), Paloncha,** our 9th secondary care centre, celebrated its 1st anniversary on February 19, 2012. The centre was set up with support from Nava Bharat Ventures Limited (NBV). Present at the celebrations were Mr Ali, Chief Advisor, Social Welfare Division, and Mr K N V N Prasad, Deputy General Manager, Materials Management from NBV, as well as the NBEC staff and their families. In its first year, a total of 20,502 outpatients were seen, of which 43% were non-paying. Of the 1887 surgeries, 72% were performed entirely free, regardless of complexity, for non-paying patients.

- **The 5th anniversary of Siloam Eye Centre at Madanapalle** was celebrated on March 11, 2012.

- All the other Service Centres also celebrated their anniversaries.
## Service Delivery

### Satellite Centres

(Owned & Operated by LVPEI)

<table>
<thead>
<tr>
<th>Rural Satellite Centres</th>
<th>Total outpatient visits: 122,120</th>
<th>Total surgeries: 15,080</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Paying</td>
<td>Non-paying</td>
</tr>
<tr>
<td></td>
<td>Outpatient visits</td>
<td>Surgeries</td>
</tr>
<tr>
<td>Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad</td>
<td>14,864</td>
<td>1480</td>
</tr>
<tr>
<td>Kuchukulla Ramachandra Reddy Eye Centre Thodukurthy, Mahabubnagar</td>
<td>7367</td>
<td>387</td>
</tr>
<tr>
<td>Seshanna Chennawar Eye Centre National Highway Road, Adilabad</td>
<td>7659</td>
<td>471</td>
</tr>
<tr>
<td>Siloam Eye Centre, Madanapalle, Chittoor</td>
<td>10,341</td>
<td>508</td>
</tr>
<tr>
<td>Venkata Lakshmi Eye Centre, Karamchedu, Prakasam</td>
<td>5274</td>
<td>406</td>
</tr>
<tr>
<td>Swarna Bharat Eye Centre, Venkatachalam, Nellore</td>
<td>1368</td>
<td>171</td>
</tr>
<tr>
<td>Sudhakar &amp; Sreekanth Ravi Eye Centre Markapuram, Prakasam</td>
<td>8134</td>
<td>768</td>
</tr>
<tr>
<td>Sudhakar &amp; Sreekanth Ravi Eye Centre Kandukuru, Prakasam</td>
<td>3154</td>
<td>138</td>
</tr>
<tr>
<td>Nava Bharat Eye Centre, Paloncha, Khammam</td>
<td>12,294</td>
<td>626</td>
</tr>
<tr>
<td>Dr Kommareddy Raja Ram Mohan Rao Eye Centre, Gudavalli, Cherukupally Mandal, Guntur</td>
<td>2266</td>
<td>81</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>72,721</strong></td>
<td><strong>5036</strong></td>
</tr>
</tbody>
</table>

1 Inaugurated August 24, 2011

### Partner Centres

<table>
<thead>
<tr>
<th>Rural Partner Centres</th>
<th>Total outpatient visits: 154,481</th>
<th>Total surgeries: 20,367</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Paying</td>
<td>Non-paying</td>
</tr>
<tr>
<td></td>
<td>Outpatient visits</td>
<td>Surgeries</td>
</tr>
<tr>
<td>Mullapudi Venkatarayudu Eye Centre Tanuku, West Godavari</td>
<td>12,192</td>
<td>1059</td>
</tr>
<tr>
<td>Smt. Rajeshwari Ramakrishnan Lions Eye Hospital Nidadavole, West Godavari</td>
<td>15,633</td>
<td>1069</td>
</tr>
<tr>
<td>St. Gregorius Balagram Eye Hospital, Yacharam, Ranga Reddy</td>
<td>5956</td>
<td>211</td>
</tr>
<tr>
<td>Lions Club of Suryapet Eye Hospital, Suryapet, Nalgonda</td>
<td>2200</td>
<td>346</td>
</tr>
<tr>
<td>The Rotary Eye Hospital, Proddatur, Kadapa</td>
<td>10,483</td>
<td>1423</td>
</tr>
<tr>
<td>Paramahansa Yogananda Netralaya Vemagiri, Rajahmundry, East Godavari</td>
<td>13,449</td>
<td>1140</td>
</tr>
<tr>
<td><strong>Urban Partner Centres in Hyderabad</strong></td>
<td><strong>88,146</strong></td>
<td><strong>6689</strong></td>
</tr>
</tbody>
</table>

The ‘fruits’ of our work: A happy patient, Mrs K Yaralakshmi, 60, from Emsuru mandal, Khammam district, brought mangoes for our staff at Paloncha in May 2011

Mr Jachin Williams and Mr Surendra conduct an urban screening program
Community Eye Care

Service Delivery: Screening Programs

<table>
<thead>
<tr>
<th></th>
<th>HOUSE1</th>
<th>LVPEI Satellites2</th>
<th>Visakhapatnam campus</th>
<th>Vijayawada campus</th>
<th>WDF</th>
<th>CLIP3</th>
<th>Sight to Resight5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slums/villages surveyed</td>
<td>–</td>
<td>1275</td>
<td>161</td>
<td>18</td>
<td>478</td>
<td>46</td>
<td>11</td>
<td>1989</td>
</tr>
<tr>
<td>Population covered by door to door surveys</td>
<td>–</td>
<td>1,326,250</td>
<td>111,478</td>
<td>108,812</td>
<td>330,000</td>
<td>38,829</td>
<td>14,692</td>
<td>1,930,061</td>
</tr>
<tr>
<td>Identified with eye problems &amp; referred for further examination</td>
<td>–</td>
<td>202,973</td>
<td>8685</td>
<td>18,908</td>
<td>6020</td>
<td>3386</td>
<td>3197</td>
<td>243,169</td>
</tr>
<tr>
<td>People identified with diabetes / high risk for diabetes</td>
<td>–</td>
<td>9206</td>
<td>1225</td>
<td>2101</td>
<td>34,676</td>
<td>1064</td>
<td>376</td>
<td>48,648</td>
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<tr>
<td>Community Screening Programs organized</td>
<td>163</td>
<td>1325</td>
<td>77</td>
<td>4</td>
<td>–</td>
<td>94</td>
<td>4</td>
<td>1667</td>
</tr>
<tr>
<td>People screened</td>
<td>20,338</td>
<td>88,952</td>
<td>12,080</td>
<td>6588</td>
<td>–</td>
<td>2346</td>
<td>1676</td>
<td>131,980</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>6807</td>
<td>35,794</td>
<td>3257</td>
<td>2452</td>
<td>–</td>
<td>935</td>
<td>629</td>
<td>49,874</td>
</tr>
<tr>
<td>Referred for further management</td>
<td>7464</td>
<td>38,058</td>
<td>7348</td>
<td>654</td>
<td>–</td>
<td>922</td>
<td>722</td>
<td>55,168</td>
</tr>
<tr>
<td>Dispensed spectacles</td>
<td>3517</td>
<td>17,045</td>
<td>854</td>
<td>447</td>
<td>–</td>
<td>666</td>
<td>388</td>
<td>22,917</td>
</tr>
<tr>
<td>Awareness programs conducted</td>
<td>–</td>
<td>438</td>
<td>5</td>
<td>18</td>
<td>–</td>
<td>30</td>
<td>5</td>
<td>496</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>HOUSE1</th>
<th>LVPEI Satellites2</th>
<th>Visakhapatnam campus</th>
<th>Vijayawada campus</th>
<th>WDF</th>
<th>CLIP3</th>
<th>Sight to Resight5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools covered</td>
<td>15</td>
<td>802</td>
<td>11</td>
<td>178</td>
<td>78</td>
<td>106</td>
<td>33</td>
<td>3</td>
</tr>
<tr>
<td>Teachers trained</td>
<td>26</td>
<td>1306</td>
<td>–</td>
<td>96</td>
<td>66</td>
<td>131</td>
<td>11</td>
<td>4</td>
</tr>
<tr>
<td>Children screened</td>
<td>5455</td>
<td>138,860</td>
<td>489</td>
<td>21,820</td>
<td>11,952</td>
<td>11,484</td>
<td>3057</td>
<td>555</td>
</tr>
<tr>
<td>Identified with eye problems</td>
<td>461</td>
<td>24,873</td>
<td>–</td>
<td>871</td>
<td>1534</td>
<td>336</td>
<td>307</td>
<td>23</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>143</td>
<td>3325</td>
<td>40</td>
<td>355</td>
<td>56</td>
<td>25</td>
<td>42</td>
<td>–</td>
</tr>
<tr>
<td>Referred for further management</td>
<td>235</td>
<td>3121</td>
<td>–</td>
<td>86</td>
<td>26</td>
<td>69</td>
<td>25</td>
<td>–</td>
</tr>
</tbody>
</table>

Anganwadi (creche level) screening for children 0-5 years of age

<table>
<thead>
<tr>
<th></th>
<th>HOUSE1</th>
<th>LVPEI Satellites2</th>
<th>Visakhapatnam campus</th>
<th>Vijayawada campus</th>
<th>WDF</th>
<th>CLIP3</th>
<th>Sight to Resight5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs organized</td>
<td>–</td>
<td>278</td>
<td>–</td>
<td>89</td>
<td>33</td>
<td>–</td>
<td>1</td>
<td>–</td>
</tr>
<tr>
<td>Children screened</td>
<td>–</td>
<td>10,680</td>
<td>–</td>
<td>2179</td>
<td>1034</td>
<td>–</td>
<td>10</td>
<td>–</td>
</tr>
<tr>
<td>Identified with eye problems</td>
<td>–</td>
<td>1296</td>
<td>–</td>
<td>315</td>
<td>43</td>
<td>–</td>
<td>0</td>
<td>–</td>
</tr>
<tr>
<td>Referred for further management</td>
<td>–</td>
<td>318</td>
<td>–</td>
<td>35</td>
<td>40</td>
<td>–</td>
<td>0</td>
<td>–</td>
</tr>
</tbody>
</table>

Service Delivery: Community Based Rehabilitation

<table>
<thead>
<tr>
<th>Community Based Rehabilitation of Visually Challenged</th>
<th>LVPEI Satellites</th>
<th>Visakhapatnam campus</th>
<th>Vijayawada campus</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>People identified with blindness/low vision for the first time</td>
<td>367</td>
<td>89</td>
<td>12</td>
<td>468</td>
</tr>
<tr>
<td>Counselling for rehabilitation</td>
<td>403</td>
<td>89</td>
<td>17</td>
<td>509</td>
</tr>
<tr>
<td>Base hospital certification provided</td>
<td>221</td>
<td>20</td>
<td>9</td>
<td>250</td>
</tr>
<tr>
<td>Medical board certification provided</td>
<td>188</td>
<td>–</td>
<td>5</td>
<td>193</td>
</tr>
<tr>
<td>Low vision services provided</td>
<td>42</td>
<td>48</td>
<td>–</td>
<td>90</td>
</tr>
<tr>
<td>Low vision devices provided</td>
<td>20</td>
<td>9</td>
<td>–</td>
<td>29</td>
</tr>
<tr>
<td>Trained in orientation and mobility skills and activities of daily living</td>
<td>209</td>
<td>3</td>
<td>2</td>
<td>214</td>
</tr>
<tr>
<td>Travel concessions (bus) procured</td>
<td>124</td>
<td>–</td>
<td>5</td>
<td>129</td>
</tr>
<tr>
<td>Travel concessions (train) procured</td>
<td>86</td>
<td>–</td>
<td>15</td>
<td>101</td>
</tr>
<tr>
<td>Old age pension facilitated</td>
<td>58</td>
<td>–</td>
<td>4</td>
<td>62</td>
</tr>
<tr>
<td>Handicap pension facilitated</td>
<td>100</td>
<td>–</td>
<td>4</td>
<td>104</td>
</tr>
<tr>
<td>School admissions facilitated</td>
<td>7</td>
<td>–</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Scholarships facilitated</td>
<td>24</td>
<td>–</td>
<td>–</td>
<td>24</td>
</tr>
</tbody>
</table>

1HOUSE: Hyderabad Outreach Urban Slums Eye-care Program
2Satellites: 10 Satellite Centres of LVPEI in Adilabad, Mahabubnagar, Prakasam, Nellore, Chittoor, Khammam and Guntur districts
3Sight for Kids: Primary schoolchildren’s program supported by Lions Clubs International Foundation, Hyderabad
4CLIP: Community Linkage for Integration of Primary health at Jainath
5Sight to Resight: Community Eye Health Program conducted by Vision Health Guardians in Mudhol & Thoodukurthy VVC*, supported by Resight, USA
*Village Vision Complex: Group of services offered at community, primary and secondary levels
1Sight to Resight: Community Eye Health Program conducted by Vision Health Guardians in Mudhol & Thoodukurthy VVC*, supported by Resight, USA
2Village Vision Complex: Group of services offered at community, primary and secondary levels
3School and Anganwadi (creche) screenings supported by Nimmagadda Foundation
At the Base of the Pyramid
On a Mission for Vision for All

Dilip Monde was studying in a school for the blind in Bodhi village, across the Andhra Pradesh border in Maharashtra state. He was identified as visually impaired and referred for surgery. A simple surgical intervention for a retina problem restored Dilip’s vision partially. He eventually went abroad to play international-level cricket for the blind. Today, he is a teacher in the same school for the blind where he studied till the 10th class. His first operation was as a nonpaying patient, but 3 years later, Dilip returned, willingly paying for his second surgery.

It was Field Administrator G Sayanna who identified Dilip, facilitated his surgery and changed his life! He is a dynamic man, with a reassuring smile. His work includes planning and conducting community surveys and providing community eye care (CEC) and rehabilitation services among the catchment population of LVPEI’s secondary care satellite centre, Bhosle Gopal Rao Patel Eye Centre at Mudhol, Adilabad district, Andhra Pradesh, through a team of 10 CEC field service organizers (FSO), 2 community based rehabilitation service organizers and 20 Vision Health Guardians.

Sayanna travels about 100 kms daily on his two-wheeler, covering various villages. He has been working with the CEC program since 1998, starting his career as a field worker and becoming the CEC Field Administrator of the Mudhol Village Vision Complex (VVC) of LVPEI’s International Centre for Advancement of Rural Eye care. With the aim of making the people in his jurisdiction free of blindness and visual impairment, Sayanna networks with all the Vision Technicians of the VVCs, to ensure that they and the FSOs support and complement each others’ activities so they can reach out to more people. He arranges meetings for FSOs to talk to community leaders in remote villages, local NGOs, doctors, self-help groups, and other such supporting organizations. He talks to them about the vision and mission of LVPEI, seeking their cooperation in linking the community to the health care team.

Many memorable moments make Sayanna’s work rewarding. He recalls an 18-year-old girl Swapna, who grew up blind because she had bilateral cataracts. She underwent cataract surgery with IOL (intra ocular lens) implantation. After the surgery, the first person Swapna wanted to see was “Sayanna, my God”. Sayanna has been instrumental in changing the lives of many visually impaired persons by his efforts.

Rehabilitation is about making a difference in a visually impaired person’s life, helping them to maximize the quality of their life. Sayanna has helped rehabilitate several blind persons, including Gopalla Venkati, who was begging on the streets of Kubeer and Bhainsa villages of Adilabad district, assisted by an urchin. Sayanna counseled him to quit begging, not only for his own sake, but also for the sake of the boy. After several sessions, Venkati relented, which changed the life of the boy as well. Field Supervisor Sonakamble Babu Rao trained Venkati to use a white cane and to identify money by touch, based on the length of the note or the size of the coin. The boy was rehabilitated to study in a regular school, while Venkati was provided a small sum to start a shop at a bus stop near his home. It was satisfying to see Venkati use his cane to fetch water for a thirsty traveler and return to the shop to sell colorful crackers to children and betel nut powder to adults!

Sayanna’s elder daughter is 6 and goes to school, while the younger one is 6 months old. He wants to give his children the best education within his means.

Seeing Anew Through a Pair of Glasses

Like many other children, Mohammed Latif simply accepted his poor vision, keeping books very close to his face for reading. An 8th class student living in Sirsanna village, Bela mandal in Adilabad district, he had difficulty in reading from the blackboard, but never complained to his parents or teachers about it. He had learnt to copy the class notes from his peers. Latif had also been suffering from severe headaches and eyestrain for two years. His poor vision affected his reading ability and he began doing badly in his studies.

A teacher, trained as part of the School Eye Screening Program of LVPEI’s secondary care Seshanna Chennawar Eye Centre, discovered that Latif had refractive error. Latif was given a pair of spectacles free of cost by Mr Suresh, LVPEI Field Service Organizer, who coordinated the screening program. This initiative is supported by the Nimmagadda Foundation.

Latif was thrilled to have excellent vision! His academic performance improved and he is doing well in school again.
## Operations Research at ICARE

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Investigators</th>
<th>Supported by</th>
<th>Project Update</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EPIDEMIOLOGICAL STUDIES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LV Prasad Glaucoma Epidemiological and Molecular Genomics Study (LVP GLEAMS) September 2011 to December 2012</td>
<td>Dr G Chandra Sekhar, Dr Rohit Khanna, Dr Padmaja K Rani, Dr Harsha BL Rao, Mr Uday Kumar, Mr Ganesh Babu</td>
<td>LVPEI</td>
<td>Undertaken in Pedanandipadu, Guntur district, Andhra Pradesh. Target recruitment: 3833. Recruited till date: 1662 (648 male &amp; 959 female). Identified with eye ailments, including primary glaucoma: 131. Referred for laser surgery: 31. Diabetic retinopathy services: 20. Cataract services: 153.</td>
</tr>
<tr>
<td>Andhra Pradesh Eye Disease Study (APEDS III) - Follow up study July 2011 to March 2012</td>
<td>LVPEI: Dr Rohit Khanna, Dr Subhabrata Chakrabarti, Dr Padmaja K Rani, Dr Giridhar Pyda, Dr Srinivas Marmamula, Mr S Krishnaiah, ICEH: Dr Clare Gilbert, Dr GVS Murthy</td>
<td>LVPEI and International Centre for Eye Health (ICEH), London School of Hygiene &amp; Tropical Medicine*, UK</td>
<td>Manual of Operations and data collection forms finalised. Training of clinical and field teams completed.</td>
</tr>
<tr>
<td><strong>INITIATIVES FOR CHILDREN</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Technical support

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A field worker administers a questionnaire to a weaver in Adilabad district, under the Refractive Errors Assessment Project (REAP). Ms Korani Jyothi asks the students of Vivekananda Concept School in Bhoirao village, Adilabad district, to imagine how it would be if they couldn’t see, as part of a mega eye health awareness program.
# EMPOWERING RURAL COMMUNITIES

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Investigators</th>
<th>Supported by</th>
<th>Project Update</th>
</tr>
</thead>
</table>
| Sight to ReSight – 1st Project | Dr Suresh Kuruganti Dr Padmaja Kumari Rani Mr Jachin D Williams Ms Sethu Sheeladevi Mr Anil Krishna Reddy | ReSight, USA | Mandalas: 2  
Villages covered: 21  
Population screened: 41,811  
Eye problems identified: 10,627  
Examined at Vision Centre: 3186  
Spectacles prescribed & dispensed: 946  
Examined at secondary centre: 380  
Operated for cataract: 136  
Identified as at risk for diabetes: 650  
Known diabetics: 400  
New identified with high blood pressure: 742  
Known hypertensive patients: 850 |
| Sight to ReSight – 2nd Project | Dr Suresh Kuruganti Dr Padmaja Kumari Rani Mr Jachin D Williams Ms Korani Jyothi Mr Sayanna Gadadhala Mr Raju Kothapally | ReSight, USA | Mandalas: 2  
Villages covered: 11  
Population screened: 12,849  
Eye problems identified: 3220  
Examined at Vision Centre: 1963  
Spectacles prescribed & dispensed: 173  
Examined at secondary centre: 100  
Operated for cataract: 61  
Identified as at risk for diabetes: 352  
Known diabetics: 144  
New identified with high blood pressure: 432  
Known hypertensive patients: 228 |
| Community Linked Integrated Project (CLIP) | Dr Suresh Kuruganti Mr Jachin David Williams Dr Padmaja Kumari Rani Mr Franklin Daniel Mr Pradeep K Tirupathi | Operation Eyesight Universal, India | Mandalas: 1  
Villages covered: 46  
Population screened: 38,829  
Eye problems identified: 3386  
Examined at Vision Centre: 1391  
Spectacles prescribed & dispensed: 445  
Examined at secondary centre: 522  
Operated for cataract: 139  
Known diabetics: 1060  
Known hypertensive patients: 108  
Vision Health Committees formed: 47  
Vision Gardens developed: 80 |

## DIABETIC RETINOPATHY

| Capacity building program to address diabetes and diabetic retinopathy in Prakasam district (September 2008 to August 2013) | Dr Ajit Babu Majji | World Diabetes Foundation, Denmark | Capacity building  
Community health workers: 909  
Hospital facilities upgraded: 50  
**Service delivery**  
Diabetic patients registered: 75,069 |

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*A screening program in Jainath village, under the Community Linked Integrated Project (CLIP) project*  
*A community screening program being conducted under the Sight to Resight project in Bhainso village*
Celebrating 25 years of ICARE

Accompaniment Program

International
LVPEI is providing support for capacity building to Islamia Eye Hospital in Dhaka, Bangladesh, and the University of Nairobi Eye Hospital, Kenya, to assist them to develop into model eye hospitals in their regions.

Islamia Eye Hospital
LVPEI teams visited Islamia Eye Hospital (IEH) in July and November 2011 to assess its clinical services and community eye health programs and make recommendations to strengthen the standards of these services, develop a model for comprehensive eye care services and provide quality eye care among the rural communities. Under the project, 12 ophthalmologists have been trained at LVPEI in various subspecialties and two nurses in OR sterilization and other techniques.

University of Nairobi Eye Hospital
Dr Prashant Garg visited the University of Nairobi Eye Hospital (UNEH) in August 2011 to review the activities under the project and also as an external examiner for their academic programs. As part of the program, five ophthalmologists from UNEH visited LVPEI for clinical rotation and training in cataract and glaucoma. More trainees are scheduled to visit this year for subspecialty training.

National
Operation Eyesight Universal
LVPEI continued to assist its Operation Eyesight (OE) partner hospitals in India through training and mentoring. Visits were undertaken to the following partner centres:
  - Indore Eye Hospital, Indore, Madhya Pradesh
  - Good News Velemegna Society, Bidar, Karnataka
  - Bansara Eye Centre, Shillong, Meghalaya

SEVA Centre for Community Ophthalmology
LVPEI is partnering with Seva Foundation, USA to provide eye care to the blind and visually impaired in underserved areas, with support from the International Agency for the Prevention of Blindness (IAPB). LVPEI (along with eight other institutes globally) is part of the Centre for Community Ophthalmology (CCO) network, which is Seva’s Clinton Global Initiative So One Million Eyes See Again, wherein 100 hospitals will perform an additional 1 million surgeries every year by 2015. Existing facilities will be expanded and transformed into efficient self-sustaining centres, while new ones will be developed.

As part of the capacity building program, the following eye hospitals partnered with us:
  - Rotary Eye Hospital, Udhampur, Jammu & Kashmir
  - Sarat Laser and Eye Centre, Warangal, Andhra Pradesh
  - Chandra Prabha Eye Hospital, Jorhat, Assam
  - Tejpur Eye Hospital, Tejpur, Assam
  - C L Gupta Eye Institute, Moradabad, Uttar Pradesh

Activities performed during the year as part of capacity building included: evaluation of partner hospitals, infrastructure development – redesign and renovation, purchase and installation of medical equipment, and training of staff.

Other activities
Dr Vilas Kovai evaluated the Mumbai Eye Care Campaign project from December 7-9, 2011. This project was implemented by Sightsavers in collaboration with Standard Chartered Bank and focuses on identifying and creating awareness and treating the adult population (above 18 years age) of the urban slum communities in Mumbai.

Dr M Srinivas, working for the WHO India office, has prepared a document on the ‘Situational Analysis of VISION 2020 in SE Asia region’.
National Collaborating Centres

India Partners: Tertiary Centres
- C L Gupta Eye Institute, Moradabad, Uttar Pradesh
- Chandra Prabha Eye Hospital, Jorhat, Assam
- Alakh Nayan Mandir Eye Institute, Udaipur, Rajasthan
- Little Flower Eye Hospital, Angamaly, Kerala
- Siliguri Greater Lions Eye Hospital, Siliguri, West Bengal

India Partners: Secondary Centres
- LVPEI - OEU collaborating hospitals
- Tejpur Eye Hospital, Tejpur, Assam
- Rotary Eye Hospital, Udhampur, Jammu & Kashmir
- Sarat Laser and Eye Centre, Warangal, Andhra Pradesh

India Partners: Primary Centres
- Shri Sadguru Seva Sangh Trust, Chitrakoot
- Venu Charitable Society, Delhi
- Shroff Charitable Eye Hospital, Delhi
- Aravind Eye Hospital, Madurai
The shortage of trained eye care professionals is a major limiting factor in achieving the goal of VISION 2020: The Right to Sight program. To address this issue, the training of eye care professionals at all levels has been one of LVPEI’s six core focus areas, right from its inception. A highlight this year was the strengthening of the education infrastructure across our 3 campuses, with the creation of the “Mark Nathaniel Thadikonda and Vijayamma Nannepaga Centre for Eye Care Education” in Hyderabad and the “Pathak Centre for Eye Care Education” in Bhubaneswar and Visakhapatnam. This was made possible by generous grants from Dr Krupakar Paul Thadikonda from Frederick, USA, and Mrs Kokil and Mr S K Pathak of Dubai.

The Pathaks inaugurated “Inspiration,” the Residence Hall for trainees, at Bhubaneswar on February 24, 2012. The academic building is under construction at both the campuses.

To achieve the goal of doubling our training capacity we initiated subspecialty fellowships in Bhubaneswar and Visakhapatnam. We have started a Residency program in Ophthalmology at Bhubaneswar, which is recognized by the National Board of Examinations. Three candidates commenced the program in March 2012. The first batch of 2 residents at Kallam Anji Reddy campus, Hyderabad, graduated this year, one of them R Rajyalakshmi and the other, Ujwala Baheti.
The institute also launched a collaborative program with the East African College of Ophthalmology, for training and sharing of teaching resources.

Another initiative was a joint educational activity between LVPEI and Sankara Nethralaya (SN), Chennai, with combined grand rounds and faculty lectures through live videoconferencing. Global leaders’ lectures, orations, special lectures, CMEs and journal club presentations are webcast live from LVPEI and SN. The first faculty lecture was delivered from SN on April 9, 2011. This joining of the hands of these two respected institutions enhances the reach of education.

To commemorate the institute’s silver jubilee year, several symposia were organized; many giants in the field of eye care from across the globe came to participate in these symposia and CMEs, which received much appreciation, both from the invited faculty and the participants. A number of them spent extended periods of time with us and helped us to stay current.

The following pages provide an overview of our activities across all the campuses of our network. We reiterate our commitment to training eye care providers at all levels, to help achieve the dream of “right to sight” for all.
Global Eye Health Giants at Landmark Symposium

To mark our 25th Foundation Day, a day-long symposium on “Health Systems, Eye Health and Non Communicable Diseases” was organized by the International Centre for Advancement of Rural Eye care (ICARE) on October 17, 2011. LVPEI was proud to host several giants who have influenced community eye health over the past few decades. Stimulating talks, inspiring lectures and interactive panel discussions made it a landmark symposium. Among others, the following global leaders graced the event:

- Prof Hugh Taylor, President of CBM and Co-director, International Centre for Eye Health, London School of Hygiene and Tropical Medicine, UK
- Prof Serge Resnikoff, international authority in global public health, ophthalmology and eye health and former Head, Non Communicable Diseases Prevention and Management Unit at WHO
- Prof Mala Rao, Professor of International Health, University of East London and Public Health Adviser to the Administrative Staff College of India, Hyderabad
- Prof Jill Keeffe, Head, Population Health Unit, Centre for Eye Research Australia (CERA) and Director, WHO Collaborating Centre for Prevention of Blindness at CERA
- Dr R Pararajasegaram, former WHO Regional Adviser and Consultant, and former President, International Agency for the Prevention of Blindness
- Prof Surekha Zhingde, Advanced Centre for Treatment, Research and Education in Cancer, Mumbai
- Dr Mitali Mukerji, Institute of Genomics and Integrative Biology, New Delhi
- Dr Vidita Vaidya, Tata Institute of Fundamental Research, Mumbai
- Dr Chitra Mandal, Indian Institute of Chemical Biology, Kolkata
- Prof Jaya Sivaswami Tyagi, All India Institute of Medical Sciences, New Delhi
- Dr Chitra Kannabiran, LVPEI, Hyderabad

Understanding the Biology of Diseases

As a run-up to the Indian Eye Research Group meeting and to commemorate LVPEI’s 25th anniversary year, a special symposium “Approaches to Understanding the Biology of Diseases” was organized on July 29, 2011. All the speakers were women scientists, who have done remarkable work in disease based biology. They were: Prof Surekha M Zhingde, Advanced Centre for Treatment, Research and Education in Cancer, Mumbai; Dr Mitali Mukerji, Institute of Genomics and Integrative Biology, New Delhi; Dr Vidita Vaidya, Tata Institute of Fundamental Research, Mumbai; Dr Chitra Mandal, Indian Institute of Chemical Biology, Kolkata; Prof Jaya Sivaswami Tyagi, All India Institute of Medical Sciences, New Delhi; and Dr Chitra Kannabiran, LVPEI, Hyderabad. Over 100 delegates attended the program.
Indian Eye Research Group Meeting

This year’s Indian Eye Research Group (IERG) meeting (July 30-31, 2011) was unique – both in terms of the number of participants and scientific deliberations – with 230 registered delegates and 184 presentations. The Bireswar Chakrabarti Oration was delivered by Dr Usha P Andley from the Washington University School of Medicine, St Louis, Missouri, USA. The first Prof D Balasubramanian Oration was delivered by Prof Robert C Augusteyn from Vision CRC, Sydney, Australia. In an exciting development, from next year, the IERG meetings will be held under the ARVO (Association for Research in Vision and Ophthalmology) umbrella, as the IERG – India ARVO chapter.

Thadikonda Seminar in Pharmaceutical Sciences

In appreciation of the generous endowment by Dr K Paul Thadikonda, President of EMINENT Services Corporation, USA, a seminar (Thadikonda Seminar in Pharmaceutical Sciences) was held on August 22, 2011. The keynote speakers were Prof Uday Kompella from the University of Colorado, USA, and Dr Javed Iqbal from the Institute of Life Sciences, Hyderabad. The other distinguished speakers were Dr Ahmed Kamal (Indian Institute of Chemical Technology, Hyderabad), Dr Radha Rangarajan (Dr Reddy’s Labs, Hyderabad), Prof Anand Kondapi (University of Hyderabad, Hyderabad), Prof P Yogeshwari (Birla Institute of Technology & Science, Hyderabad), Dr Vijaya Ratna (Andhra University, Visakhapatnam) and Dr Neelima D Tangellamudi (Institute of Life Sciences, Hyderabad). A total of 109 delegates attended the seminar.

APVRS Congress a Grand Success

LVPEI hosted the VI Asia-Pacific Vitreo-Retina Society (APVRS) Congress, in conjunction with the XX Annual Conference of the Vitreo Retinal Society – India from December 1-3, 2011. The Congress provided a forum for over 800 retina specialists from 35 countries to share exciting developments in the field, showcase videos of simple and complex surgical techniques, provide insights into updated diagnostics, and evaluate new and old therapies. The program comprised 16 symposia with 71 presentations, 179 posters, 35 free papers and 17 videos. With 30 presentations, LVPEI faculty and fellows were the largest group of scientific contributors. Over 25 companies participated in an international level trade exhibition, allowing delegates hands-on experience of the latest technologies. The Congress achieved the distinction of being the most attended vitreo-retinal meeting of both the participating societies, with 800 delegates.

Continuing Education Programs

Hyderabad

The 25th Low vision Awareness Program (LAP) was organized from April 15-16, 2011; 20 delegates attended.

The 46th Indian Contact Lens Education Program (ICLEP) Basic Course, for training ophthalmologists and optometrists in the fitting of soft and RGP contact lenses, was conducted from July 8-11, 2011; 70 delegates attended. The course comprised lectures, wet lab sessions, live video demonstrations and role playing by the delegates.

The poster session drew a large audience

Dr Javed Iqbal

Prof Uday Kompella

Dr Taroprasad Das addresses the Congress

APVRS Congress a Grand Success

Prof Robert C Augusteyn receives a plaque from Dr V R Muthukkaruppan, Director of Research, Aravind Medical Research Foundation, Madurai

Dr C K Mohan Rao, Director, Centre for Cellular & Molecular Biology, Hyderabad, presents a plaque to Dr Usha P Andley

Hands-on sessions at ICLEP

Continuing Education Programs
The 26th Low vision Awareness Program (LAP) was organized from September 2-3, 2011, with 15 delegates attending.

The 4th Eye-PEP (Postgraduate Education Program), held from September 4-11, 2011, was attended by 215 postgraduate students of ophthalmology from all over the country. Two days were set aside for hands-on courses. Dr S S Badrinath, Chairman Emeritus, Sankara Nethralaya, Chennai, was the Eye-PEP Icon this year. He encouraged students to dream big and work hard to achieve their goals. He was presented the Golden Apple by Dr Gullapalli N Rao, Chair, LVPEI. The coveted Polished Apple for the most loved teacher was won by Dr Santosh Honavar, who passed it on to Dr Pravin V Krishna. Eye-PEP was webcast live and watched by over 500 online viewers. This year saw the introduction of iPeppy, a cultural evening where residents showcased their talents on stage.

Dr Gullapalli N Rao presents the Eye-PEP Icon to Dr S S Badrinath

A hands-on session in progress at Eye-PEP

Participants familiarize themselves with low vision devices

Dr Santosh Honavar

Dr Milind Naik leads a session at Fusion 2012

An international symposium on Recent Trends in Uveitis was held on November 18, 2011; 70 delegates attended.

The 47th Indian Contact Lens Education Program (Basic and Advanced course) was organized from December 14-18, 2011; 185 delegates attended. Prof Deborah Sweeney, President, International Association of Contact Lens Educators (IACLE), and Director of Research, College of Health & Science at the University of Western Sydney, Australia, Ms Padmaja Sankaridurg, Myopia Program Leader, Brien Holden Vision Institute and Vision CRC, Sydney, Australia, Ms Lakshmi Shinde, Global Education Manager for IACLE, Dr Murali K Aasuri, Sulochana Eye Centre, Hyderabad, Mr Nilesh Thite, Bharati Vidyapeeth Deemed University, Pune, and Ms Jayashree Sekar, Bausch + Lomb, India, were the invited speakers.

Fusion 2012, a unique meeting with two distinct subspecialties – Pediatric Ophthalmology and Oculoplasty – coming together, was held from February 12-14, 2012. With 18 international, 38 national and LVPEI faculty, the program was attended by 600 delegates. The course comprised of 2 live surgery sessions, 2 common interest symposia, 14 subspecialty symposia, 7 workshops and 17 instruction courses. A total of 170 presentations were made.

Cornea Unplugged – The Way Forward was conducted from March 3-4, 2012, to review developments in the field of cornea and external eye diseases and eye banking. The meeting was graced by many international and national luminaries from around the globe, and attended by 290 delegates.

The faculty included Dr James V Aquavella (University of Rochester, USA), Dr William M Bourne (Mayo Clinic, Rochester, USA), Dr James Chodosh (Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, USA), Dr Paul J Dubord (University of British Columbia, Canada), Dr Joseph Frucht-Pery (Hadassah University Hospital, Jerusalem, Israel), Mr Manoj Gulati (SightLife, India), Dr Jodhbir S Mehta (Singapore National Eye Centre, Singapore), Mr Monty Montoya (SightLife, USA), Dr Verinder S Nirankari (MedStar Union Memorial Hospital, Baltimore, USA), Dr Prema Padmanabhan (Sankara Nethralaya, Chennai), Dr Srinivas K Rao (Darshan Eye Clinic, Chennai), Dr David Rootman (University Health Network, Toronto, Canada), Prof M Srinivasan (Aravind Eye Care System, Madurai), and Mr Dean Vavra (North Carolina Eye Bank, NC, USA).
As part of World Glaucoma Week celebrations, a half-day Biostatistics Workshop was organised on March 10, 2012. The evidence-based medicine workshop was led by Prof Ravi Thomas. It was attended by 115 delegates.

The Glaucoma Masters’ Course – GLAUCOMA the KNOWN and the UNKNOWN, was organised on March 11, 2012, for postgraduate students, practicing ophthalmologists and glaucoma specialists, with over 175 participants at Hyderabad campus. In addition, delegates participated from Bhubaneswar, Visakhapatnam (25) and Vijayawada (16) campuses, via live videoconferencing.

Visakhapatnam
To mark its 5th anniversary, LVPEI, GMR Varalakshmi campus, Visakhapatnam, conducted a CME Looking Beyond the Eye – A Fusion on July 10, 2011. Based largely on interactive case discussions, the meeting offered participants an opportunity to network with specialists and discuss diagnostic and management issues pertaining to ocular diseases with a systemic component. The program was appreciated by the 93 delegates who attended from all the campuses, via live videoconferencing.

Vijayawada
The Kode Venkatadri Chowdary campus at Vijayawada conducted a CME on Pediatric Ophthalmology for Pediatricians to mark the 1st anniversary of The David Brown Children’s Eye Care Centre on January 29, 2012. The CME aimed at sensitizing pediatricians to the crucial role they can play in the early identification of vision problems among children. The guest faculty was Dr S Ramprasad (Rainbow Hospital, Vijayawada). The delegates included Dr Mallikarjuna Rao, President, and Dr Madhavi Majeti, Secretary, of the Indian Academy of Pediatrics, Krishna district, Mr Kode Suresh, GM, Spectra Food Industries, Vijayawada, and 30 pediatricians from the city and surrounding areas.

A CME for optometrists on Rose K Contact Lens was conducted by Prof Paul Rose, designer of the Rose K lens, on October 15, 2011. Thirty-three delegates enjoyed the hands-on training session. Topics like advanced conditions of keratoconous, PMCD, post-penetrating keratoplasty and its management with Rose K, semi scleral lenses, were discussed.

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Celebrating 25 years of Bachelor of Science in Optometry

Last year, 27 students of the 2007-2011 batch completed the Bachelor of Science in Optometry program at the Bausch & Lomb School of Optometry (affiliated to the Birla Institute of Technology and Science, Pilani). Six were placed in distinction, 9 in the first division and 12 in the second division.

Mr Labishetty Vivek secured a CGPA of 10 out of 10 – the first time anyone has done so.

The Birla Institute of Technology and Science (BITS), Pilani accepted 31 students for the academic year 2011-2015 at the Bausch & Lomb School of Optometry (BLSO), LVPEI, Hyderabad. The interviews were conducted by Prof P K Sai Prakash, Principal, BLSO, Mr B R Murthy, Coordinator, BITS and Dr Shrikant Bharadwaj, Associate Director of Optometry, LVPEI.

Scholarships

This year the five students selected from each batch to receive scholarships, on the basis of their performance, were:

**Batch 2008 (Third year):** Ms Peguda Rajini, Mr Bandela Praveen Kumar, Ms Sunaina Mary Alex, Mr Vinay Kumar, Ms Viqualr Unnisa Begum

**Batch 2009 (Second year):** Ms Mekountchou Koumbo Ingrid Ornella, Ms Tran Minh Anh, Ms John Michael, Mr Rajesh, Ms Sabiha Tabasum

**Batch 2010 (First year):** Ms Marella Bhagyalakshmi, Ms Veeravalli Tabita Naomi, Ms Yaramalla Vasavi, Ms Adike Amulya, Ms Aparna

The students qualifying for scholarships from the current 2011-2015 batch are: Sripada Samhita N, Wuppukondur Lalitha Sahi Nandini, Suma Gunda, Bobbala Aswani and P Gunasree.

LVPEI Senior Faculty have been Appointed Visiting Adjunct Professors, Clinical Assistant Professors and Clinical Instructors

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World Sight Day 2011 was celebrated on October 13, 2011, by over 400 optometry students, staff and alumni of the Bausch & Lomb School of Optometry, with a walk near the KBR park area of Banjara Hills, Hyderabad. Ophthalmology faculty, LVPEI fellows and staff also joined in enthusiastically. Eminent celebrities who led the walk were veteran Telugu film actor Mr Akkineni Nageswar Rao, Prasad Group Chair Mr Ramesh Prasad, Commissioner of Police Mr A K Khan and film actors Lakshmi Manchu and Dil Raju. The group pledged to donate their eyes. The walk was supported by Essilor.

News from Bausch & Lomb School of Optometry

Bachelor of Science in Optometry

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World Sight Day Celebrated with Enthusiasm

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Other News

Graduation Ceremony

The graduation ceremony of the 3rd batch of Master’s in Community Eye Health (MCEH), 11th batch of Diploma in Community Eye Health (DCEH) and 6th batch of the Program Management and Evaluation (PME) programs was held on December 17, 2011. Dr M Mohan Rao, Additional Director, Medical Education, Dr G Chandra Sekhar, Director, LVPEI, Hyderabad, and Dr Prashant Garg, Head, Mark Nathaniel Thadikonda and Vijayamma Nanepaga Centre for Eye Care Education, LVPEI, presented certificates to the outgoing students. Dr Mohan Rao, Dr R Pararajsegaram, former President, International Agency for the Prevention of Blindness (via recorded message from Geneva), Dr Geeta K Vemuganti from the University of Hyderabad, Hyderabad, Dr G V S Murthy, Director, Indian Institute of Public Health, Hyderabad, and Dr Catherine Suttle from the University of New South Wales, Sydney (via recorded message), delivered graduation messages on the occasion.

Seven long-term fellows also graduated the same day, including the first one from Bhubaneswar campus. The program began with the faculty re-introducing the fellows in a lighter vein, making everyone nostalgic. Chief Guest Prof Deborah Sweeney from Vision CRC, Australia, shared her experiences with the outgoing fellows.

Diploma in Eye Health Management

The convocation ceremony for the Diploma in Eye Health Management (DEHM) 2010 batch and the commencement ceremony for the 2011 batch was held on August 1, 2011. Seven candidates completed the course and 13 new candidates began the course. Dr Prasanta Mahapatra, Director, Nizam’s Institute of Medical Sciences, Hyderabad, was the chief guest.
LVPEI’s linkages with institutions and organisations worldwide enables it to draw upon an international resource base of senior consultants and experts in every field of eye care. The Global Leaders: Lecture Series was initiated two years ago to engage with learning and knowledge sharing on a global platform, and make such opportunities available to all those who are part of LVPEI. The series brings the best minds in 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. In our Silver Jubilee Year, we were 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.

**Guest Lectures**

**Global Leaders: Lecture Series**

**Dr Krystel Huxlin**, Associate Professor, Department of Ophthalmology, University of Rochester Medical Center, School of Medicine and Dentistry, USA, delivered a talk on “Femtosecond approaches to changing refractive index of optical and ocular materials”. June 22, 2011

**Dr David G Hwang**, Co-Director, Cornea Service, & Director, Refractive Surgery Service, University of California, USA, delivered a lecture on “Antibiotic resistance in ophthalmology: Mechanisms and clinical implications”. July 19, 2011

**Dr Anthony J Atala**, WH Boyce Professor & Director, Institute for Regenerative Medicine, Wake Forest University, USA, delivered a talk on “Regenerative medicine: Current concepts and changing trends”. August 29, 2011

**Silver Jubilee Public Lectures**

**Padma Vibhushan Prof M S Valiathan**, former Vice-Chancellor, Manipal Academy of Higher Education, Manipal, spoke on “Health care scene in India”. June 1, 2011

**Prof V S Ramachandran**, Director, Centre for Brain & Cognition, and Distinguished Professor, Department of Psychology and Neurosciences Program, University of California, USA, spoke on “What neurology can tell us about human nature”. July 21, 2011

**Dr Anil K Gupta**, Executive Vice Chair, National Innovation Foundation, and Professor, Indian Institute of Management, Ahmedabad, delivered a lecture on “Innovation across boundaries and barriers: Towards open and empathetic innovation models”. August 5, 2011

**Padmashri Dr Leela Samson**, Director, Kalakshetra Foundation, Chennai, and Chair, Central Board of Film Certification, spoke on “Tradition accommodating the modern: Performing arts”. September 16, 2011

*Dr Leela Samson with art connoisseur Mr Jagdish Mittal at LVPEI*
Guest Lectures

Dr Kovelamudi Hari Prasad, Chief Executive Officer, Central Region, Apollo Hospitals Group, spoke on “Hospital management”. May 11, 2011

Dr R Pararajasegaram, former WHO Adviser and Consultant, and former president, IAPB, Co-Chair, VISION 2020 Human Resource Programme Committee and International Ambassador for IMPACT, delivered a lecture on “Patient centred eye care”. May 20, 2011

Prof Arnold J Rosoff, Professor of Legal Studies and Business Ethics, The Wharton School, University of Pennsylvania, USA, delivered a lecture on “Implications of informed consent”. May 24, 2011

Dr Satyajeet Parakh, Assistant Director, Intellectual Ventures, USA, spoke on “IP, situation and importance of IP, working with Intellectual Ventures”. May 31, 2011

Dr Kalpana Kannabiran, founder member, Asmita Resource Centre for Women, Hyderabad, spoke on “Transparency in governance: The lokpal debate”. July 13, 2011

Mr Sumit Dagar, interaction designer, filmmaker and TED 2011 fellow, New Delhi, delivered a talk on “Invention and work on the Braille Phone”. August 6, 2011

Prof Amod Gupta, Professor of Ophthalmology, Post Graduate Institute of Medical Education and Research, Chandigarh, delivered a talk on “Role of fundus autofluorescence in retinal imaging”. August 26, 2011

Dr Jesson Martin, Research Associate, Indiana University School of Optometry, USA, delivered a talk on “Unbiased estimation of refractive state of aberrated eyes”. August 29, 2011

Dr Audrey R Talley Rostov, specialist in cornea, external disease & anterior segment surgery, Northwest Eye Surgeons, USA, and member, medical advisory board for SightLife, USA, spoke on “Femtosecond laser assisted keratoplasty – when, why and how”. September 21, 2011

Dr Jyotirmay Biswas, Director, Uveitis and Ocular Pathology, Sankara Nethralaya, Chennai, delivered a talk on “Brain ticklers: A compilation of five challenging cases”. October 14, 2011

Dr Gabriele Anna Yeaney, Assistant Professor, Department of Pathology and Laboratory Medicine, University of Rochester Medical Center, USA, delivered a talk on “Collision of worlds: The suprasellar region where ophthalmology meets neuropathology”. November 2, 2011

Dr Graziella Pellegrini, Associate Professor, Cell Biology, University of Modena and Reggio Emilia, Italy, spoke on “Stem cells and corneal regeneration”. November 10, 2011

Dr Mark E Kleinman, Assistant Professor and Researcher, Department of Ophthalmology and Visual Sciences, University of Kentucky College of Medicine, USA, delivered a talk on “Ocular responses to immunogenic nucleic acids”. November 11, 2011

Prof Jayakrishna Ambati, Professor of Ophthalmology & Visual Sciences & Vice Chair, Department of Ophthalmology and Visual Sciences, University of Kentucky, USA, spoke on “The role of dicer & Alu RNA in geographic atrophy” and “Unlocking the dual secrets of an avascular island”. November 11 and 12, 2011

Dr David Samuel Irving Taylor, Chair, ICO Examinations, and Professor Emeritus of Pediatric Ophthalmology, UCL Institute of Child Health, London, UK, spoke on “Mitochondrial optic neuropathies”. November 16, 2011

Prof Raghavendra Gadagkar, INSA SN Bose Research Professor & JC Bose National Fellow, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru, delivered a lecture on “War and peace: conflict and cooperation in an insect society”. March 9, 2012

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Celebrating 25 years of Prof Rubens Belfort Jr, Professor, Department of Ophthalmology, Federal University of Sao Paulo, Brazil, delivered a lecture on “Past, present and future: The Sao Paulo Hospital model”. November 17, 2011

Prof Shigeaki Ohno, Chair, Department of Ophthalmology, Hokkaido University Graduate School of Medicine, Japan, delivered a lecture on “Clinical features of uveitis”. November 18, 2011

Dr Roger Beuerman, Senior Scientific Director, Singapore Eye Research Institute, Singapore, spoke on “Bioengineered membrane directed antibiotics for overcoming resistance”. November 29, 2011

Prof Desmond Fonn, Distinguished Professor Emeritus and Founding Director, Centre for Contact Lens Research, School of Optometry and Vision Science, University of Waterloo, Canada, delivered a talk on “Eliminating corneal swelling induced by overnight contact lens wear: Is it achievable?”. December 7, 2011

Dr Ashwin Dalal, Head, Diagnostics Division, Centre of DNA Fingerprinting and Diagnostics, Hyderabad, delivered a talk on “Genetic counselling: Some examples and some issues”. December 14, 2011

Prof Vijay S Goranta, Associate Professor of Surgery in the Division of Plastic Surgery, and Administrative Medical Director, Pittsburgh Reconstructive Transplant Program, University of Pittsburgh, USA, spoke on “The journey from regenerative ophthalmology to reconstructive ophthalmic transplantation – vision, insights and outlook”. January 4, 2012

Visiting Professors

Hyderabad Campus

Prof Jayakrishna Ambati
Professor of Ophthalmology & Visual Sciences
Vice Chair, Dept of Ophthalmology and Visual Sciences
University of Kentucky, Lexington, Kentucky, USA

Dr Mark E Kleinman
Assistant Professor of Ophthalmology and Pharmacy
University of Kentucky, Lexington, Kentucky, USA

Prof Desmond Fonn
Distinguished Professor Emeritus and Founding Director, Centre for Contact Lens Research
School of Optometry and Vision Science
University of Waterloo
Waterloo, Ontario, Canada

Prof Clifton M Schor
School of Optometry
University of California at Berkeley
Berkeley, California, USA

Dr Nance Wilson
Public Health Institute
Oakland, California, USA

Bhubaneswar Campus

Prof M Srinivasan
Director Emeritus
Aravind Eye Care System, Madurai

Prof Thomas Yorio, Provost and Executive Vice-President for Academic Affairs, and Research Professor, Pharmacology & Neuroscience, UNT Health Science Center, USA, delivered a talk on “Role of Gbeta in steroid responsiveness and glaucoma” on January 3, 2012.

Mr Krishna Prasad, General Manager for India, and Head, UST Global, Chennai, spoke on “Why should behavioral competencies matter to you: A services perspective”. January 11, 2012

Dr Detlef Prozesky, Director, Centre for Health Science Education, University of the Witwatersrand, South Africa, spoke on “The motivation of community eye health volunteers”. January 25, 2012

Prof Jacob Pe’er, Head, Department of Ophthalmology, Hadassah University Hospital, Jerusalem, delivered a talk on “Snippets and sermons in ocular oncology”. January 28, 2012

Prof GVBK Gangadhar Reddy, former Medical Superintendent, Sarojini Devi Eye Hospital, Hyderabad, spoke on “Art, science and theology”. February 8, 2012

Prof Sohan Singh Hayreh, Professor Emeritus of Ophthalmology & Director, Ocular Vascular Clinic, Department of Ophthalmology & Visual Sciences, College of Medicine, University of Iowa, USA, spoke from Sankara Netharalya, Chennai, on “CRVO: Diagnosis and current treatment options”. February 9, 2012

Ms Christiane Noe, Research Manager, CBM International Office, Germany, delivered a talk on “Accessibility and disability: Inclusive practices in eye care”. February 22, 2012

Prof James Chodosh, Fellowship Director, Cornea Service, Massachusetts Eye & Ear Infirmary, Harvard Medical School, USA, spoke on “HSV keratitis”. March 2, 2012

Dr Subhash Kaul, Professor and Head, Department of Neurology, Nizam’s Institute of Medical Sciences, Hyderabad, delivered a talk on “Neurology of ageing”. March 14, 2012

Prof Sheila MacNeil, Professor of Tissue Engineering, and Director, Interdisciplinary Programmes, Faculty of Engineering, University of Sheffield, UK, spoke on “Developing cell carriers to assist translation of cell therapy to the clinic”. March 21, 2012
A Taste of India

An International Fellowship Experience at LVPEI, Hyderabad

Dr Chiara Morini

The beginning

4 pm on a late September afternoon. A bluish back seat window of a Tata cab protects me from the very bright light. I can’t stop looking at everything… unfamiliar advertisements in a curly script all along the road, directions to unknown cities, a huge picture of a couple with blue faces, covered in gold and jewellery – may be a movie trailer, entire families traveling on a motorbike, strange vegetables displayed in stores, traffic jams, overpopulation, women in bright colorful sarees, a goat comfortably seated in the back of an auto… Accompanying everything are the uninterrupted horns at different volumes and tones for my whole journey. I love this exciting sensation of “first time”. It is my first time in India.

When the Italian Ophthalmological Society awarded me the Mario Gelsomino prize last May in Rome for “Best Poster 2010”, I wanted to use it to advance my knowledge in the field of pediatric ophthalmology, on which I had focused after completing my residency. The prize offers young ophthalmologists a learning experience abroad in a center of their choice. Why LVPEI?

I had noticed the scientific activity of an institution called “LVPEI” at ARVO a few years back. On the internet, I found that it has a very fascinating history spreading across 25 years. The mission “Excellence and Equity” inspired me to learn more about the hospital. I have never abandoned the dream of a model of service delivery where the best health care can be a right for everyone, though I had yet to experience how difficult this is in reality.

Even in countries where the latest facilities are available, such as the USA, the best treatment is affordable only to the most privileged. In countries where medicine is provided free, the quality of treatment is often compromised by national budgets and financial constraints. Therefore, I found LVPEI’s mission extremely interesting. India would also offer me the opportunity to experience a culture, shaped by centuries of unique history, where hundreds of languages carry the heritage of a multitude of populations that have crossed the land along the ages.

Here at LVPEI for 3 months, I hear about the “rules”. No mobile during working hours, always keep your hair tidy, adhere strictly to the dress code, be prepared for 12-hour long working days, 6 days a week. The fellowship at LVPEI is known in all of India to be the hardest, but also the most fruitful. The first night, I confided in my Dad my fears about the hard life I expected. “Chiara, you have not experienced the Army! Take this as a chance for a necessary life experience. You will make it and, in the end, you will be thankful for this experience.” He was right.

Life in Children’s Eye Care Centre (CECC) OPD

The exposure to complex cases that you can get in a tertiary referral centre like this is probably unmatched to anywhere else in the world. A standard day in OPD starts at 8 am, after a 1 hour class. The first patient is a businessman, who started to see double after a car accident. A family from Dubai wants an eye check-up for their children to be reassured that they can watch 3D movies. An 18-year-old woman has become blind suddenly; the reason is not clear. After a week of repeated examinations and tests, we have no doubt that she is malingering. We talk to her alone. She tells us that her husband beats her but her family is not allowing her to leave him. No education, no job, no easy solutions. Better to be blind?
The next patient is a baby, six months old. I have trouble coming to a diagnosis. Dr Ramesh explains: Chiara, a mild hyperopic refraction and a granular fundus in an apparently blind child is Leber’s Congenital Amaurosis. Now you have seen one case, don’t ever forget.”

I meet a girl on vacation from her PhD in Stanford University; she is here for a squint evaluation before refractive surgery. I examine a 12-year-old boy who misses school because he is teased by classmates about the shaking of his eyes (congenital nystagmus). A 22-year-old girl wants her sensory exotropia corrected, because she is getting married soon. An 8-year-old boy comes; he is deaf and dumb, very skinny and very poor. He has retinal detachment in one eye and uveal coloboma in both the eyes. But he is not scared by the unfamiliar place! Instead, he is curious about everything, so many doctors, incredible machines, and hey! Such colorful lenses in that box!

I meet a very worried mother; her baby seems to be blind. We explain to her that the baby has cerebral visual impairment; the eyes are anatomically normal but the brain cannot integrate the visual information. We cannot do much, but we can promise a normal psychophysical growth through specialized child rehabilitation. But no need to look for other hospitals! Child rehabilitation is inside LVPEI, third floor.

A non-paying girl comes for follow-up, she was operated upon for bilateral congenital cataract, 12 years ago. She comes regularly every 6 months and follows every prescription, glasses and patching advice strictly. Now her vision is 20/20. Poor, but very smart!

This is OPD in LVPEI – a wide social range of people with different lifestyles and opportunities. But here, all social differences are eliminated. All patients experience the same suffering, the same anxiety for their children and their future, the same feeling of vulnerability... Regardless of their economic status, they all receive the same level of respect and same treatment at LVP Eye Institute.

The LVPEI Experience
Working at LVPEI is like being part of a big family. This was evident every time I needed assistance, say, to edit a video in the CAVU department, or some files in the medical record department. The symbol of LVPEI is a pyramid, from a large base of vision guardians offering counselling and a preliminary eye check-up directly to the community, going up to primary, secondary and tertiary eye care centers. The sides of the pyramid are made by people, gestures, everyone working together and interacting with patients at different levels.

My mentor, Dr K Ramesh, taught me not only to recognize specific diseases but also to develop a method of examination in non-standard cases. I was trained to build up advanced diagnostic skills and plan customized treatments. Many clinical questions were stimulated by consultants, and I could always find material to deepen my knowledge in the library that is open, 24 hours a day, 7 days a week. It is a wonderful place, silent and peaceful at nights, full of light through the big windows on Sunday mornings. Here an immense range of books is available. Also, wi fi is available everywhere in LVPEI, 24 hours a day. Truly wonderful facilities! And the opportunity to meet the most extraordinary people... people whom you would rarely meet in the outside world.

The fellows here are also treated to an international ambience with guest lecturers by luminaries from all over the world. In four months, I could learn of research opportunities and share impressions with ophthalmologists in Australia, Indonesia, Thailand, Hong Kong, Bangladesh, Zambia, Ghana, New York, Canada and the UK. I had coffee with the smartest specialists from Brazil and met clinical researchers from Bascom Palmer Eye Hospital. I learnt of the latest advances in regenerative medicine directly from the scientists. I met the leading Italian researcher in limbal stem cells: Prof Graziella Pellegrini, whose lab is less than 200 km from my hospital in Italy.

Indian kids are very cute and curious. At times, I missed taking down the medical history directly. But I was surprised to find that communication with children can be strikingly easier than it is with adults: communication with kids happens mostly by the tone of your voice, the way you approach them, and how you convey your understanding of their fear.

I hope to be able to come back soon. My biggest thanks to Dr Ramesh Kekunnaya for giving me this fantastic experience, with his generous ways of teaching and professional suggestions.
“LVPEI gave me a career, changed my life”

At LVPEI, training and education are recognized as key factors that influence the reach, range and quality of eye health service delivery. The institute strives to provide the highest quality of training and education through a committed faculty. Living up to its beliefs, LVPEI facilitated my higher education, helping me fulfill my personal and professional ambitions.

I have always dreamt big. I wanted to become a doctor or an IAS officer and serve in remote villages. My family advised me to be realistic. My father could not afford to give me a career in medicine or engineering, not even a graduation. At the age of 16, he had the responsibility of an entire family – his parents, three brothers and a sister. With a small loan, he started a small grocery shop, which he still manages. Every evening I used to help my father in the shop. I did not like working during festivals when all my friends would be out playing. But I persisted in my attempts to study. I used to buy second-hand books from the pavements and also sit and make notes in the college library.

In 1993, I saw an advertisement about a course at LVPEI. My father wanted me to enroll. I thought it would be a good opportunity – the stipend would make me independent of my father and I could prepare for my medical entrance exam alongside. I took it as a stop-gap arrangement, but as destiny has it, I am still here 18 years later!

Working on the APEDS\(^ \text{a} \) project after my optometry fellowship was a turning point in my life. I completed my Bachelor’s and Master’s in Sociology, but did not qualify for the IAS. I decided to work in public health. When I expressed my interest in public health to the Chairman, he gave me a part-time position at the International Centre for Advancement of Rural Eye care (ICARE). There was no looking back!

I went to the London School of Hygiene and Tropical Medicine for my Master’s in Public Health in eye care. To become a better researcher, a PhD was my next goal, but my biggest challenge was the time constraint. I had become a father and found it difficult to take care of the family, work at LVPEI and study for a PhD. I often thought of giving up but tried to remain motivated and persisted. My habit of getting up early helped. Also, the phenomenal support I received from my wife, Madhavi. We have been married for 9 years, but have been friends for over 18 years. She bore with patience my long working hours, no holidays and very little time to even talk.

I joined LVPEI when I was barely 17, so I have been largely nurtured and shaped by LVPEI. I was inspired by some statements of Dr Rao’s, “You become more powerful when you help the helpless in remote rural areas”. And another one, “When I started my journey, I was alone, swimming against the tides of the sea to bring quality eye care to India, and thought I will swim as long as I am tired. Now, 25 years down the line, I have several hands joining me to swim against the tide to make the difference.”

LVPEI gives you the opportunity to grow, if you show commitment. With the constant support of LVPEI, I found a platform to fulfill my dreams and became the first generation graduate in my family. From Mylargarh (my home town) to Maryland (where I am going for a post doc) has been a long and eventful journey. I am indebted for all the support that I have received. It can never be repaid, but I want to be a torchbearer to take the vision and mission of this institute forward.

Dr Srinivas Marmamula joined our Diploma in Ophthalmic Techniques (DOT) course after his high school (plus two) in 1993, going on to do his Master’s from the London School of Hygiene and Tropical Medicine, University of London, and then his PhD from the University of New South Wales, Australia. He is Associate Optometrist and Public Health Specialist at LVPEI’s International Centre for Advancement of Rural Eye care. His study programs abroad were supported by scholarships and the Institute. His next stop: Johns Hopkins University, Baltimore, USA, for a post doc fellowship from July 2012.

\(^ \text{a} \)The pioneering epidemiology Andhra Pradesh Eye Disease Study, conducted by LVPEI

Rapid Assessment of Refractive Errors project in Ghana
Two Generations of an LVPEI Family

A heart-warming “in-house” story of opportunities offered and utilized is that of Peguda Srinivas and his two children, Hari and Rajni – all part of the LVPEI family today.

Hari Kumar, 23, is an optometrist at L V Prasad Eye Institute. He is a graduate of our Bausch & Lomb School of Optometry (BLSO) in Kismatpur on the outskirts of Hyderabad. His sister Rajni is currently in her fourth year of Bachelor of Science in Optometry, also at BLSO, which is affiliated to the Birla Institute of Technology & Science, Pilani. The two have committed themselves to careers as vision care professionals.

Hari is a second generation employee of LVPEI. His father Peguda Srinivas has been working with the institute almost since its inception and will soon complete 25 years of service. Joining on February 1, 1988, as a patient care assistant, Srinivas moved to the maintenance department, because he was good with his hands. He has been one of the pillars of the maintenance department, mainly taking care of electrical works.

Many of the newer staff members he works with don’t know that Srinivas is a walking miracle! In August 2003 he met with a serious road accident on his motorbike, while returning home. He suffered severe head injuries and doctors did not hold out much hope. First at Apollo Hospital and, later, at Care Hospital, Srinivas underwent a series of major surgeries. He was supported through those dark days by the institute and, on a personal level, by some of the senior management. After three years of convalescence and rehabilitation, Srinivas returned to the institute and resumed work in the maintenance department.

Hari, their eldest, was given the opportunity to enroll at BLSO for a Bachelor’s Degree in Optometry. After his internship at LVPEI, Hari joined the institute and has since excelled in his work, with a special interest in the retina clinic. He intends to study further in optometry and, ultimately, teach.

Rajni finished her early education from Nalanda Junior College and joined BLSO in 2008. She has been a consistently good performer, ranking among the top in her third year. She is currently doing her internship at the institute. Rajni enjoys working with patients, but also wants to study further…she has her sights set on a PhD in optometry!

Srinivas and his wife Balamani’s youngest daughter Sirisha is studying to become an electrical engineer.

The family says they are indebted to the institute for taking care of their father through the difficult times, when he was in and out of the hospital. They are also grateful for the academic opportunity they have received, so they could build a career and their lives.
Training at LVPEI

While most training programs are conducted at our Hyderabad campus, some are also conducted at Bhubaneswar and Visakhapatnam campuses.

### Ophthalmology

#### Cornea & Anterior Segment
- **24 months**
  - Dr Shiji Ummar, Hyderabad, Andhra Pradesh
  - Dr S Arjun S, Hyderabad, Andhra Pradesh
  - Dr Jayesh Vazirani, Rajkot, Gujarat
  - Dr Swapnil Bholekar, Shirur, Maharashtra
  - Dr Prabhu Bakshi, Mumbai, Maharashtra
  - Dr Mitesh Jain, Mumbai, Maharashtra
- **15 months**
  - Dr Toor Gurpal Singh, London, United Kingdom
- **3 months**
  - Dr Prateek Agarwal, Meerut, Uttar Pradesh
  - Dr Archana Kumares B, Miraj, Maharashtra
  - Dr Anagha Behere, Pune, Maharashtra
  - Dr Shubhangi Pimprikar, Nashik, Maharashtra
  - Dr Megharaj Chitta, Udupi, Karnataka
- **1 month**
  - Dr Ningthoujam Linthoingambem, New Delhi
  - Dr Jyoti Garg, New Delhi
  - Dr Kapil K Khurana, New Delhi
  - Dr Sheetal Kishanpuria, New Delhi

#### Bhubaneswar
- **24 months**
  - Dr Yogesh Vamanrao Bhadange, Mumbai, Maharashtra
- **3 months**
  - Dr Mahmood Mujtaba, Dhaka, Bangladesh
  - Dr Mahesh Kesav, Dhaka, Bangladesh

#### Visakhapatnam
- **24 months**
  - Dr Divya Chandrakant Vira, Mumbai, Maharashtra
- **3 months**
  - Dr Farhat Jahan, Dhaka, Bangladesh
  - Dr Tanuja Tarnzin, Dhaka, Bangladesh

#### Glaucoma
- **24 months**
  - Dr J J Praveen, Kurnool, Andhra Pradesh
  - Dr Kumar Ravi, Deoghar, Jharkhand
  - Dr Roy Avik Kumar, Hooghly, West Bengal
- **3 months**
  - Dr Afq Almeshhari, Dubai, UAE
  - Dr Zaka Wadud, Dhaka, Bangladesh
  - Dr Nazeen Khan, Dhaka, Bangladesh
  - Dr Farzana Sohel, Dhaka, Bangladesh
  - Dr Bhartendu Bhushan, Medinipur, West Bengal
  - Dr Elfride Sanjana, Chennai, Tamil Nadu

#### Retina & Vitreous
- **24 months**
  - Dr Sripathi Kamath B, Udupi, Karnataka
  - Dr Deepa Mj, Udupi, Karnataka
  - Dr Kopal Mithal, Meerut, Uttar Pradesh
  - Dr Devendra Venkatramani, Pune, Maharashtra
  - Dr Aditya Sudhalkar, Vadodara, Gujarat
  - Dr Vijay N Chandani, Mumbai, Maharashtra

#### Comprehensive Ophthalmology
- **36 months**
  - Dr J V Raghava, Guntur, Andhra Pradesh
  - Dr KVR Krishna Priya, Guntur, Andhra Pradesh
  - Dr SM Quutubuddin Ali, Hyderabad, Andhra Pradesh
  - Dr Syed Raufuddin Ahamed, Hyderabad, Andhra Pradesh
  - Dr Ankita Nema, Seoni, Madhya Pradesh
  - Dr Asif Y Virani, Thane, Maharashtra
  - Dr Vijay N Chandani, Mumbai, Maharashtra

#### Bhubaneswar
- **36 months**
  - Dr Batriti S Wallang, Shillong, Meghalaya
  - Dr Veeresh Korwar, Gulbarga, Karnataka
  - Dr Abhishek Ranjan, Fatehpur, Bihar
- **6 months**
  - Dr Jesuorobo I Osamwonyi, Benin, Nigeria

#### Visakhapatnam
- **36 months**
  - Dr Abhishek Bhawdekar, Bengaluru, Karnataka
  - Dr Nitin Mittal, Ludhiana, Punjab
  - Dr Gayatri, Visakhapatnam, Andhra Pradesh
  - Dr Himmooy Dey, Bhubaneswar, West Bengal
### Pediatric Ophthalmology

- **24 months**
  - Dr Shailaja Tibrewal
  - Dr Shilpa Sonarkhan
  - Dr Amadeep Singh
  - Dr Anjali Singh
  - Dr Upender D

- **3 months**
  - Dr Chiara Morini
  - Dr Rokeya Sultana
  - Dr Nitin Kalla
  - Dr Shaila A Vasavada
  - Dr Abubakar Affan

### Ophthalmic Plastic Surgery, Orbit & Ocular Oncology

- **24 months**
  - Dr Aditi Pujari
  - Dr Jyoti Batra
  - Dr Aditi Pujari
  - Dr Jyoti Batra

- **3 months**
  - Dr Neha Mithal
  - Dr Deepti Chauhan
  - Dr Kanupuru Padma
  - Dr Neha Mithal

### Bhubaneswar

- **2 months**
  - Dr Sasmita Agasty
  - Dr Snehasis Dixit
  - Dr Archana Ajay Vare
  - Dr Archana Ajay Vare

### DNB Primary

- **36 months**
  - Dr Sayali S Sane
  - Dr Anupam Bagdi
  - Dr Sayali S Sane
  - Dr Anupam Bagdi

### DNB Secondary

- **24 months**
  - Dr Siddhima Deshpande
  - Dr Shail A Vasavada
  - Dr Reshma Jhaveri
  - Dr Reshma Jhaveri

### Manual Small Incision Cataract Surgery

- **1 month**
  - Dr David Fabinyi
  - Dr O P Arya
  - Dr David Fabinyi
  - Dr O P Arya

### Bhubaneswar

- **2 months**
  - Dr Snehasis Dixit
  - Dr Gyanendra Kumar Dwarkapuri
  - Dr Snehasis Dixit
  - Dr Gyanendra Kumar Dwarkapuri

### Visakhapatnam

- **1 month**
  - Dr Vikram Pratap Singh
  - Dr Pragnya Deshmukh
  - Dr Vikram Pratap Singh
  - Dr Pragnya Deshmukh

### Retina Laser

- **1 month**
  - Dr Pratik Mahajan
  - Dr Pragyna Deshmukh
  - Dr Pratik Mahajan
  - Dr Pragyna Deshmukh

### Retinopathy of Prematurity

- **1 month**
  - Dr Pratik Mahajan
  - Dr Pragyna Deshmukh
  - Dr Pratik Mahajan
  - Dr Pragyna Deshmukh

### Electrophysiology

- **1 month**
  - Ms Krishna P Bhakthan
  - Dr Abhrajit Dasgupta
  - Ms Krishna P Bhakthan
  - Dr Abhrajit Dasgupta

### LVP - Zeiss Basic Course in Ophthalmic Diagnostics

- **1 month**
  - Dr K Pranathi
  - Dr K Pranathi
  - Dr K Pranathi
  - Dr K Pranathi

### Phacoemulsification

- **2 months**
  - Dr Manju Mishra
  - Dr Sujit Narayan Mahapatra
  - Dr Abhijit Suresh Rasal
  - Dr Manju Mishra

- **1 month**
  - Dr Abubakar Affan
  - Dr Abhishek Bansal
  - Dr Abhishek Bansal
  - Dr Abubakar Affan

- **1 week**
  - Dr Abhishek Bansal
  - Dr Abhishek Bansal
  - Dr Abhishek Bansal
  - Dr Abhishek Bansal
Dr Aarti Subhash Heda Akola, Maharashtra
Dr Sandeep Patil Davangere, Karnataka
Dr Chintan Maheshwary Davangere, Karnataka
Dr Sunanam Nadiger Davangere, Karnataka
Dr Abhishek D Bengaluru, Karnataka
Dr Naveed Ahmed Attar Raichur, Karnataka
Dr Sharanya T Ramesh Kolar, Karnataka
Dr Madur Gannur Tumkur, Karnataka
Dr Kumar Partha Pratim Guwahati, Assam
Dr Barun Mandal Guwahati, Assam
Dr T Liposkanen Janir Guwahati, Assam
Dr Deboja Mahashweta Guwahati, Assam
Dr Barnali Pathak Guwahati, Assam
Dr Arif Shaik Guwahati, Assam
Dr Amit Rathore Guwahati, Assam
Dr Ashu Agarwal Jaipur, Rajasthan
Dr Sunanda Subramanian Coimbatore, Tamil Nadu
Dr Harshada Kalke Coimbatore, Tamil Nadu
Dr Binod Prasa Imphal, Manipur
Dr Geetanjali Pangiambam Imphal, Manipur

Clinical Rotation
Dr Phyllis Eze University Hospitals Case Medical Center Cleveland, USA
Dr Holly Simpson Case Western Reserve University Cleveland, USA
Dr Amy Zhang University of Rochester Rochester, USA
Dr Sabita Ittooop University of Rochester Rochester, USA
Dr Anna Berry University of North California Burlington, USA
Dr Rebecca Byakshi Oenga University of Nairobi Nairobi, Kenya
Dr Fredrick Koriri University of Nairobi Nairobi, Kenya
Dr Wimon Rat Prateepasen Chulalongkorn University Bangkok, Thailand
Ms Waife Ruth Boanteg Operation Eyesight Universal Accra, Ghana

Observership (1-2 weeks)
Cornea & Anterior Segment
Dr Veeresh Korwar Gulbarga, Karnataka
Dr Mahesh Kasav Nashik, Maharashtra
Dr V P Kakar Panchkula, Haryana
Dr P D Kakar Karnal, Haryana
Dr Manish Gujarati Indore, Madhya Pradesh
Dr Sunita Unercat Mumbai, Maharashtra

Glaucoma
Mr Samit Kumar Choudhary Lahan, Nepal
Dr Nader Bayoumi Alexandria, Egypt
Dr Tarun Kumar Patel Varanasi, Uttar Pradesh

Retina & Vitreous
Dr Vasu Kumar New Delhi
Dr Mudit Bansal Ahmedabad, Gujarat
Dr Tariq Raza Ali Dhaka, Bangladesh

Glaucoma
Mr Samit Kumar Choudhary Lahan, Nepal
Dr Nader Bayoumi Alexandria, Egypt
Dr Tarun Kumar Patel Varanasi, Uttar Pradesh

Retina & Vitreous
Dr Vasu Kumar New Delhi
Dr Mudit Bansal Ahmedabad, Gujarat
Dr Tariq Raza Ali Dhaka, Bangladesh

Optometry
4-year Bachelor of Science in Optometry (2011 - 2015)
Ms S Santhosha Varashruthi Hyderabad, Andhra Pradesh
Ms T Chaitanya Sai Kiran Hyderabad, Andhra Pradesh
Mr Bongoni Sandesh Hyderabad, Andhra Pradesh
Ms Badasheshi Parinitha Hyderabad, Andhra Pradesh
Ms W Lalitha Sahi Nandini Hyderabad, Andhra Pradesh
Mr Mohd Ghouse Hyderabad, Andhra Pradesh
Ms Suma Gunda Hyderabad, Andhra Pradesh
Ms Rajagopal Shanker Swathi Hyderabad, Andhra Pradesh
Ms K Jasmine Deepa Hyderabad, Andhra Pradesh
Ms P Sushma Hyderabad, Andhra Pradesh
Ms Sripada Samhita N Hyderabad, Andhra Pradesh
Ms Kanala Sudeshna Hyderabad, Andhra Pradesh
Ms Meena Palakurthy Hyderabad, Andhra Pradesh
Ms P Gunaseeni Hyderabad, Andhra Pradesh
Mr Goli Ankita Reddy Hyderabad, Andhra Pradesh
Mr Mareellipudi Ajay Hyderabad, Andhra Pradesh
Ms Chittapu Gayatri Hyderabad, Andhra Pradesh
Ms Pakala Jyothi Hyderabad, Andhra Pradesh
Mr Sayed Hafiz Narsaraopet, Andhra Pradesh

Fellowship in Optometry
24 months
Mr Mahesh Vijay S Siddiya Nandurbar, Maharashtra
Ms Soni Mourya Lucknow, Uttar Pradesh
Ms Sadiya Irani Sultanpur, Uttar Pradesh
Ms Rashmi Raipura, Uttar Pradesh
Ms Manisha Bhowmik Amalapuram, Andhra Pradesh

Basic Ophthalmic Diagnostics
Dr Sidhart Rathi Boston, USA
Mr Dasari Lekhana Birmavaram, Andhra Pradesh
Ms Velaga Sweetha Bindu Nidamavolu, Andhra Pradesh
Mr Gadeppally Parimala Warangal, Andhra Pradesh
Mr Duggi Vikas Warangal, Andhra Pradesh
Ms Bobbala Aswani Vinukonda, Andhra Pradesh
Mr Pola Sarani Reddy Nandyal, Andhra Pradesh
Mr Karnati Bhargavi Nagajunagar, Andhra Pradesh
Ms Killada Sharanaya Nalgonda, Andhra Pradesh
Ms Dasari Sri lakshmi Amalapuram, Andhra Pradesh
Ms Komnula Hasana Amalapuram, Andhra Pradesh
Mr Mohammed Riazuddin Tirupati, Andhra Pradesh
Mr B Hemanth Reddy Kottayam, Kerala
Mr Tony M Sunny Kottayam, Kerala

Excellence | Equity | Efficiency
Ocularistry
24 months
Mr Siddarth Banjeree
Jaynagar, West Bengal

Vision Technicians
12 months
Mr Gundre Rajasekh
Madanapalli, Andhra Pradesh
Ms S Reddy Shabana
Madanapalli, Andhra Pradesh
Mr M Satish Babu
Kandukur, Andhra Pradesh
Ms T Vineela
Cumbum, Andhra Pradesh
Mr Ravoori Anudeep
Giddalur, Andhra Pradesh
Mr Yamagot Umasrinivasa Rao
Cumbum, Andhra Pradesh
Mr Tagtagar Prakash
Dharmapuri, Andhra Pradesh
Mr Telkar Bhavani Prasad
Narayanpet, Andhra Pradesh
Mr Thite Pushkar
Hyderabad, Andhra Pradesh
Ms G Venkata Laxmi
Visakhapatnam, Andhra Pradesh
Ms P Narasimman
Visakhapatnam, Andhra Pradesh
Mr Peduri Chiranjeevi
Visakhapatnam, Andhra Pradesh
Mr Ravi Kumar
Visakhapatnam, Andhra Pradesh
Mr Seera Bangaru Naidu
Visakhapatnam, Andhra Pradesh
Ms Y Swathi
Visakhapatnam, Andhra Pradesh
Mr Nakkha Prem Kumar
Adilabad, Andhra Pradesh
Mr N Rama Rao
Adilabad, Andhra Pradesh
Mr R Chandra Prasad
Adilabad, Andhra Pradesh
Ms R bhaghya Shree
Adilabad, Andhra Pradesh
Mr M Goutham Kumar
Adilabad, Andhra Pradesh
Ms S Chandrakala
Vijayawada, Andhra Pradesh
Mr M Manasa
Nagarkurnool, Andhra Pradesh
Ms S Sujaitha
Nellore, Andhra Pradesh
Mr S Eshwraiah
Nellore, Andhra Pradesh
Mr Kundurthy Sai Durga Manoj
Markapur, Andhra Pradesh
Ms Kesana Keshavulu
Guntur, Andhra Pradesh
Mr N Madhu
Nalgonda, Andhra Pradesh
Mr Mukkira Raju
Jainath, Andhra Pradesh
Mr Karpe Sai Kiran
Utnoor, Andhra Pradesh
Mr V Ramachandran
Prakasam, Andhra Pradesh
Mr Sasmita Majhi
Nirmaligiri, Andhra Pradesh
Mr Aathushwarakak
Kottathuruvak, Andhra Pradesh
Mr J Jothi
Thettagi, Andhra Pradesh
Ms S Prassanthi
Soppeta, Andhra Pradesh
Mr R Raja
Maddilapalem, Andhra Pradesh
Mr Praveen
Chinnagaddi, Andhra Pradesh
Mr J Rakesh
Jadcharla, Andhra Pradesh
Mr V Aruna
Bhuanaweswar, Odisha
Mr V Prashanth
Bhuanaweswar, Odisha
Mr N Chandrasekhar
Bhuanaweswar, Odisha
Mr V Giriraj
Jajpur, Odisha
Ms Dhipu
Nayapati, Odisha
Mr R Praveen
Nusasahi, Odisha
Mr K Srinivas
Kantapanda, Odisha
Mr Sidhartha
Pahadpur, Odisha
Ms Mridula
Badakhaladi, Odisha
Ms Venkateshwar
Dagarpura, Odisha
Mr Ay. Dipak
Dungarpur, Rajasthan
Mr Rajeshkumar
Dungarpur, Rajasthan
Mr Anurag
Darjeeling, Sikkim
Ms Maitreyi
Darjeeling, Sikkim
Mr Sukumar
Bellary, Karnataka
Mr Arun
Bellary, Karnataka
Mr Jitesh
Coimbatore, Tamil Nadu
Mr Sudhakar
Coimbatore, Tamil Nadu
Mr Goutam
Kozhikode, Kerala
Mr Piyush
Dign, Gujrat
Mr Satish
Udhampur, Jammu and Kashmir

Diploma in Ophthalmic Techniques
3 years
Mr Ashish Jain
Mr Wasfs Tabassum
Mr Ch Pranaya Reddy
Mr Karun Kumar
Mr M Appala Raju
Mr N Srinivas
Mr Ravi
Mr Ganesh
Mr Ajay Kumar
Mr Y Srinivas
Mr Aravind
Mr R V Rajesh
Ms N Jyothieshna
Mr Guru Pranay
Mr G Sai Krishna
Ms Pathuri Ramya Sri
Mr Rajavardhan
Ms S Nirmala
Ms K Divya
Ms Chinthapata Meena
Mr Nagesh
Ms Prashanthi
Mr Hanumantha Rao
Mr V Chaitanya Prabhu
West Godavari, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Nizamabad, Andhra Pradesh
Nizamabad, Andhra Pradesh
Vijayawada, Andhra Pradesh
Vijayawada, Andhra Pradesh
Toodukurthy, Andhra Pradesh
Chittoor, Andhra Pradesh
Nellore, Andhra Pradesh
Nizamabad, Andhra Pradesh

Observership
3 months
Ms Gangmei Lurilu
Mr Donpharly K Lyngdoh
Ms Cherlene Roicy
Ms Nengoiinghing Sithouh
Mr Mutum Mahesh Singh
Mr Muneeswar Gupta
Dr STS Prithu Vyas
Mr T Prabhudas
Shillong, Meghalaya
Shillong, Meghalaya
Shillong, Meghalaya
Shillong, Meghalaya
Los Angeles, USA
Hyderabad, Andhra Pradesh
Kolkata, West Bengal
Nadia, West Bengal
Medinipur, West Bengal
Hooghly, West Bengal
Malda, West Bengal
Jaynagar, West Bengal
Barabanki, Uttar Pradesh
Muzaffarnagar, Uttar Pradesh
Moradabad, Uttar Pradesh
Mumbai, Maharashtra
Chennai, Tamil Nadu
Belonia, Tripura
Shillong, Meghalaya
Shillong, Meghalaya
Champanar, Bihar
Nawada, Bihar
Patna, Bihar
Patna, Bihar
Supaul, Bihar
Hazaribagh, Jharkhand
Ranchi, Jharkhand
Accra, Ghana
Accra, Ghana
Pune, Maharashtra

Celebrating 25 years of
Preceptorship (4-8 weeks)
Dr Alexander Barash, New York, USA
Ms Sruti Chivukula, New Jersey, USA
Mr D Skiadopoulos Siemenis, Birmingham, UK
Ms Navroza Waiji, Birmingham, UK
Ms Marvam Mousavi, Birmingham, UK
Ms Reena Vaish, Birmingham, UK
Ms Jasmine Shah, Berne, Switzerland
Ms Hannah Guyatt, Carlton, Australia
Ms Hannah Peltzer, Kensington, Australia
Mr Thiiban Manugaran, New South Wales, Australia
Ms Bingjie Wang, New South Wales, Australia
Ms Sarah Grace Eglington, New South Wales, Australia
Ms Gayathri Kumaran, Melbourne, Australia
Ms Geetanjali Lamba, Melbourne, Australia
Ms Leah Meulendijew, Melbourne, Australia
Ms Courtney Epstein, Melbourne, Australia
Ms Pavani Kurra, Sydney, Australia
Mr Sandeep Bhaskar, Pune, Maharashtra
Mr Atul Igare, Satara, Maharashtra
Mr Rewat Kumar Garasiya, Pindwara, Rajasthan
Mr Md Nafees Alam, Jamshedpur, Jharkhand

Internship
Visakhapatnam
12 months
Mr Vivekanand, Mandu, Madhya Pradesh
Mr Rahul Khanna, Phagwara, Punjab
Mr Omar Chandrakant, Mumbai, Maharashtra
Ms Mamta Seepathi, Mumbai, Maharashtra
Mr Puneet Sahni, New Delhi
Ms Jutika Francis, Indiuki, Kerala
Mr Zeeshan Akhtar, Kanpur, Uttar Pradesh
Mr Sunik Ghosh, Burdwan, West Bengal
1 month
Mr Kiran Bera, Visakhapatnam, Andhra Pradesh
Ms Grandhi Sindirhu, Visakhapatnam, Andhra Pradesh

Contact Lens
3 months
Mr DSV Ram Kumar, Visakhapatnam, Andhra Pradesh

Diagnostics
1 month
Mr Shakti Om Makaju, Kathmandu, Nepal
Ms Rubina Shrestha, Kathmandu, Nepal

Low Vision & Rehabilitation
3 months
Mr K Ashwin Kumar Goud, Mahaboobnagar, Andhra Pradesh
Ms Yaragala Lalitha, Karamchedu, Andhra Pradesh
Mr Nizeyimana J Claude, Rubavu, Rwanda
1 month
Mr Mohd Halimi Zakaria, Putrajaya, Malaysia

Observership (1 month)
(Relevance Vision Express)
Mr Nausad Alam, Aharth Nagar, Uttar Pradesh
Mr Utpal Saxena, Sitapur, Uttar Pradesh
Mr Anuj Kumar Dubey, Kannauj, Uttar Pradesh
Mr Anil Kumar, Rohtas, Bihar
Mr Kiran Kumar, Hyderabad, Andhra Pradesh
Mr Vinay Kumar Diddi, Nagpur, Maharashtra
Mr K Bharath Kumar, Hyderabad, Andhra Pradesh
Mr Jetal R Parmar, Ahmedabad, Gujarat
Mr Rahul K Mishra, Ahmedabad, Gujarat
Ms Shobhana R Tiwari, Vadodara, Gujarat
Mr Abdus Salam, 24 Parganas, West Bengal
Ms Piyal Sarkar, 24 Parganas, West Bengal
Ms Pratibha Chatterjee, Uttar Pradesh
Mr Abdul Latif, Hooghly, West Bengal
Mr Nararl Alam, Birbhum, West Bengal
Mr Yogendra Kumar Patel, Seoni, Madhya Pradesh

Ophthalmic Nursing Assistants
12 months
Ms Srilatha G, Mahaboobnagar, Andhra Pradesh
Ms Rajitha PK, Mahaboobnagar, Andhra Pradesh
Ms K Anitha, Mahaboobnagar, Andhra Pradesh
Ms Srishaila, Mahaboobnagar, Andhra Pradesh
Ms Jyothi A, Hyderabad, Andhra Pradesh
Ms Sowjanya, Hyderabad, Andhra Pradesh
Ms Madhavi P, Hyderabad, Andhra Pradesh
Ms Farheen Begum, Hyderabad, Andhra Pradesh
Ms G Jayantha, Hyderabad, Andhra Pradesh
Ms Satyavathi, Hyderabad, Andhra Pradesh
Ms K Janski Rani, Hyderabad, Andhra Pradesh
Ms P Deepika, Hyderabad, Andhra Pradesh
Ms Renukri Sri, Hyderabad, Andhra Pradesh
Ms J Jayanthi, Hyderabad, Andhra Pradesh
Ms B Rohini, Hyderabad, Andhra Pradesh
Ms Shabana Begum, Hyderabad, Andhra Pradesh
Ms P Kaviya, Hyderabad, Andhra Pradesh
Ms K Bhavani, Hyderabad, Andhra Pradesh
Ms D Bhavani, Hyderabad, Andhra Pradesh
Ms M Ramya, Hyderabad, Andhra Pradesh
Ms P Balamani, Hyderabad, Andhra Pradesh
Ms J Anjanma, Hyderabad, Andhra Pradesh
Ms Kavya, Hyderabad, Andhra Pradesh
Ms M Rama, Hyderabad, Andhra Pradesh
Ms M Rekha, Hyderabad, Andhra Pradesh
Ms Mahalakshmi, Hyderabad, Andhra Pradesh
Ms P Lakshmi Tirupatamma, Hyderabad, Andhra Pradesh
Ms Jhansi Lakshmi, Hyderabad, Andhra Pradesh
Ms Bhavana Sri, Hyderabad, Andhra Pradesh
Ms K Swapna, Hyderabad, Andhra Pradesh
Ms N Vasanthi, Hyderabad, Andhra Pradesh
Ms Debi Prasad Sahu, Hyderabad, Andhra Pradesh
Ms Banabasini Naik, Hyderabad, Andhra Pradesh
Ms Sumitra Rout, Hyderabad, Andhra Pradesh
Ms Chinmayee Ojha, Hyderabad, Andhra Pradesh
Ms Bishnu Priya Das, Hyderabad, Andhra Pradesh

Other Training Programs
Celebrating 25 years of
Eye Bank Technicians
(3 months)
Ms Bhagya Lakshmi Kendrapada, Odisha
Ms Gayatri Sathapthy Kendrapada, Odisha
Ms Anupama Swain Kendrapada, Odisha
Ms Madhusmita Sahoo Kendrapada, Odisha
Ms Biswabandita Swain Cuttack, Odisha
Ms Pravathee Sethy Cuttack, Odisha
Ms Subhrajita Patra Cuttack, Odisha
Ms Pushpanjali Behra Bhubaneswar, Odisha
Ms Tapaswani Mohapatra Bhubaneswar, Odisha
Ms Dusmanta Naik Bhubaneswar, Odisha

Ms K Swarnalatha Srikakulam, Andhra Pradesh
Mr K V S Ganesh Kakinada, Andhra Pradesh
Mr Mangi Venkataswamy Toodukurthy, Andhra Pradesh
Mr M Veerababu Yanam, Andhra Pradesh
Mr Karchalla Krishna Hyderabad, Andhra Pradesh
Ms K Anuradha Proddutur, Andhra Pradesh
Mr Himanshu Jain Indore, Madhya Pradesh
Ms Maya Gyanchandani Bhopal, Madhya Pradesh
Mr Prasad Basara Mumbai, Maharashtra
Mr Satya Ranjan Rout Bhubaneswar, Odisha
Ms Gayatri Naik Bhubaneswar, Odisha
Mr C K Robin Angamaly, Kerala
Mr Rijo Rappai Angamaly, Kerala
Ms Manjula M Karadudari Hubli, Karnataka
Mr Matu Singh Jaipur, Rajasthan
Mr Jayveer Singh Jaipur, Rajasthan
Mr Md Misbahul Hoda Saudi Arabia

Mr Saurabh Biswas Seattle, WA, USA
Ms Mridhula Singh Seattle, WA, USA
Mr Yogesh Jadhav Seattle, WA, USA
Mr Derje Legassey Ethiopia
Ms Sujatha Ch Visakhapatnam, Andhra Pradesh
Mr Mangi Venkataswamy Visakhapatnam, Andhra Pradesh
Mr Karchalla Krishna Visakhapatnam, Andhra Pradesh
Ms K Anuradha Visakhapatnam, Andhra Pradesh
Mr Himanshu Jain Visakhapatnam, Andhra Pradesh
Ms Maya Gyanchandani Visakhapatnam, Andhra Pradesh
Mr Prasad Basara Visakhapatnam, Andhra Pradesh
Mr Satya Ranjan Rout Visakhapatnam, Andhra Pradesh
Ms Gayatri Naik Visakhapatnam, Andhra Pradesh
Mr C K Robin Visakhapatnam, Andhra Pradesh
Mr Rijo Rappai Visakhapatnam, Andhra Pradesh
Ms Manjula M Karadudari Visakhapatnam, Andhra Pradesh
Mr Matu Singh Visakhapatnam, Andhra Pradesh
Mr Jayveer Singh Visakhapatnam, Andhra Pradesh
Mr Md Misbahul Hoda Visakhapatnam, Andhra Pradesh

Mr Ranjeet Kumar Raman New Delhi
Mr Sombir New Delhi
Mr Anith Haldar New Delhi
Mr Anil Kumar Goure Indore, Madhya Pradesh
Mr Bijay Bal Bhubaneswar, Odisha
Mr Himadri Chakraborty Kolkata, West Bengal
Mr Matu Singh Jaipur, Rajasthan
Mr Vikram Singh Jaipur, Rajasthan
Mr Kuldip Singh Jaipur, Rajasthan
Ms Urmila Prabhune Pune, Maharashtra
Ms Neha Therwadhar Mumbai, Maharashtra
Ms Anila Thomas Angamaly, Kerala

Eye Banking
Ms Bhagya Lakshmi Kendrapada, Odisha
Ms Gayatri Sathapthy Kendrapada, Odisha
Ms Anupama Swain Kendrapada, Odisha
Ms Madhusmita Sahoo Kendrapada, Odisha
Ms Biswabandita Swain Cuttack, Odisha
Ms Pravathee Sethy Cuttack, Odisha
Ms Subhrajita Patra Cuttack, Odisha
Ms Pushpanjali Behra Bhubaneswar, Odisha
Ms Tapaswani Mohapatra Bhubaneswar, Odisha
Ms Dusmanta Naik Bhubaneswar, Odisha

Ms K Swarnalatha Srikakulam, Andhra Pradesh
Mr K V S Ganesh Kakinada, Andhra Pradesh
Mr Mangi Venkataswamy Toodukurthy, Andhra Pradesh
Mr M Veerababu Yanam, Andhra Pradesh
Mr Karchalla Krishna Hyderabad, Andhra Pradesh
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Mr Himanshu Jain Indore, Madhya Pradesh
Ms Maya Gyanchandani Bhopal, Madhya Pradesh
Mr Prasad Basara Mumbai, Maharashtra
Mr Satya Ranjan Rout Bhubaneswar, Odisha
Ms Gayatri Naik Bhubaneswar, Odisha
Mr C K Robin Angamaly, Kerala
Mr Rijo Rappai Angamaly, Kerala
Ms Manjula M Karadudari Hubli, Karnataka
Mr Matu Singh Jaipur, Rajasthan
Mr Jayveer Singh Jaipur, Rajasthan
Mr Md Misbahul Hoda Saudi Arabia

Mr Saurabh Biswas Seattle, WA, USA
Ms Mridhula Singh Seattle, WA, USA
Mr Yogesh Jadhav Seattle, WA, USA
Mr Derje Legassey Ethiopia
Ms Sujatha Ch Visakhapatnam, Andhra Pradesh
Mr Mangi Venkataswamy Visakhapatnam, Andhra Pradesh
Mr Karchalla Krishna Visakhapatnam, Andhra Pradesh
Ms K Anuradha Visakhapatnam, Andhra Pradesh
Mr Himanshu Jain Visakhapatnam, Andhra Pradesh
Ms Maya Gyanchandani Visakhapatnam, Andhra Pradesh
Mr Prasad Basara Visakhapatnam, Andhra Pradesh
Mr Satya Ranjan Rout Visakhapatnam, Andhra Pradesh
Ms Gayatri Naik Visakhapatnam, Andhra Pradesh
Mr C K Robin Visakhapatnam, Andhra Pradesh
Mr Rijo Rappai Visakhapatnam, Andhra Pradesh
Ms Manjula M Karadudari Visakhapatnam, Andhra Pradesh
Mr Matu Singh Visakhapatnam, Andhra Pradesh
Mr Jayveer Singh Visakhapatnam, Andhra Pradesh
Mr Md Misbahul Hoda Visakhapatnam, Andhra Pradesh

Mr Ranjeet Kumar Raman New Delhi
Mr Sombir New Delhi
Mr Anith Haldar New Delhi
Mr Anil Kumar Goure Indore, Madhya Pradesh
Mr Bijay Bal Bhubaneswar, Odisha
Mr Himadri Chakraborty Kolkata, West Bengal
Mr Matu Singh Jaipur, Rajasthan
Mr Vikram Singh Jaipur, Rajasthan
Mr Kuldip Singh Jaipur, Rajasthan
Ms Urmila Prabhune Pune, Maharashtra
Ms Neha Therwadhar Mumbai, Maharashtra
Ms Anila Thomas Angamaly, Kerala

Eye Bank Observers/Managers (1 week)
Ms Martha Haile Mariam Ethiopia
Ms Lem Lem Ayele Ethiopia
Dr Tran Thi Thu Ha Vietnam
Dr Vi Thi Tue Khanh Vietnam
Dr Parul Singh Haldwani, Uttarakhand
Dr N H Patel Ujjain, Madhya Pradesh
Dr Penumala Vishwamitra Visakhapatnam, Andhra Pradesh
Mr Hari Prasad Kurnool, Andhra Pradesh
Ms Vayduriam Kurnool, Andhra Pradesh
Ms Sreedevi Kurnool, Andhra Pradesh
Dr Sindu Suleka Kurnool, Andhra Pradesh
Dr V Sree Kumar Kurnool, Andhra Pradesh
Ms K Padma Kurnool, Andhra Pradesh
Ms Lalitha Warangal, Andhra Pradesh
Ms E Sridevi Warangal, Andhra Pradesh
Ms Rajalakshmi Warangal, Andhra Pradesh
Ms M Sailaja Vijayawada, Andhra Pradesh
Ms Shamivul Begum Vijayawada, Andhra Pradesh
Mr Chandra Sekhar Vijayawada, Andhra Pradesh
Ms Mani Vijayawada, Andhra Pradesh

Mr Ranjeet Kumar Raman New Delhi
Mr Sombir New Delhi
Mr Anith Haldar New Delhi
Mr Anil Kumar Goure Indore, Madhya Pradesh
Mr Bijay Bal Bhubaneswar, Odisha
Mr Himadri Chakraborty Kolkata, West Bengal
Mr Matu Singh Jaipur, Rajasthan
Mr Vikram Singh Jaipur, Rajasthan
Mr Kuldip Singh Jaipur, Rajasthan
Ms Urmila Prabhune Pune, Maharashtra
Ms Neha Therwadhar Mumbai, Maharashtra
Ms Anila Thomas Angamaly, Kerala

Eye Donation Counsellors (2½ weeks)
Mr Saurabh Biswas Seattle, WA, USA
Ms Mridhula Singh Seattle, WA, USA
Mr Yogesh Jadhav Seattle, WA, USA
Mr Derje Legassey Ethiopia
Ms Sujatha Ch Visakhapatnam, Andhra Pradesh
Mr Mangi Venkataswamy Visakhapatnam, Andhra Pradesh
Mr Karchalla Krishna Visakhapatnam, Andhra Pradesh
Ms K Anuradha Visakhapatnam, Andhra Pradesh
Mr Himanshu Jain Visakhapatnam, Andhra Pradesh
Ms Maya Gyanchandani Visakhapatnam, Andhra Pradesh
Mr Prasad Basara Visakhapatnam, Andhra Pradesh
Mr Satya Ranjan Rout Visakhapatnam, Andhra Pradesh
Ms Gayatri Naik Visakhapatnam, Andhra Pradesh
Mr C K Robin Visakhapatnam, Andhra Pradesh
Mr Rijo Rappai Visakhapatnam, Andhra Pradesh
Ms Manjula M Karadudari Visakhapatnam, Andhra Pradesh
Mr Matu Singh Visakhapatnam, Andhra Pradesh
Mr Jayveer Singh Visakhapatnam, Andhra Pradesh
Mr Md Misbahul Hoda Visakhapatnam, Andhra Pradesh

Mr Saurabh Biswas Seattle, WA, USA
Ms Mridhula Singh Seattle, WA, USA
Mr Yogesh Jadhav Seattle, WA, USA
Mr Derje Legassey Ethiopia
Ms Sujatha Ch Visakhapatnam, Andhra Pradesh
Mr Mangi Venkataswamy Visakhapatnam, Andhra Pradesh
Mr Karchalla Krishna Visakhapatnam, Andhra Pradesh
Ms K Anuradha Visakhapatnam, Andhra Pradesh
Mr Himanshu Jain Visakhapatnam, Andhra Pradesh
Ms Maya Gyanchandani Visakhapatnam, Andhra Pradesh
Mr Prasad Basara Visakhapatnam, Andhra Pradesh
Mr Satya Ranjan Rout Visakhapatnam, Andhra Pradesh
Ms Gayatri Naik Visakhapatnam, Andhra Pradesh
Mr C K Robin Visakhapatnam, Andhra Pradesh
Mr Rijo Rappai Visakhapatnam, Andhra Pradesh
Ms Manjula M Karadudari Visakhapatnam, Andhra Pradesh
Mr Matu Singh Visakhapatnam, Andhra Pradesh
Mr Jayveer Singh Visakhapatnam, Andhra Pradesh
Mr Md Misbahul Hoda Visakhapatnam, Andhra Pradesh

Mr Saurabh Biswas Seattle, WA, USA
Ms Mridhula Singh Seattle, WA, USA
Mr Yogesh Jadhav Seattle, WA, USA
Mr Derje Legassey Ethiopia
Ms Sujatha Ch Visakhapatnam, Andhra Pradesh
Mr Mangi Venkataswamy Visakhapatnam, Andhra Pradesh
Mr Karchalla Krishna Visakhapatnam, Andhra Pradesh
Ms K Anuradha Visakhapatnam, Andhra Pradesh
Mr Himanshu Jain Visakhapatnam, Andhra Pradesh
Ms Maya Gyanchandani Visakhapatnam, Andhra Pradesh
Mr Prasad Basara Visakhapatnam, Andhra Pradesh
Mr Satya Ranjan Rout Visakhapatnam, Andhra Pradesh
Ms Gayatri Naik Visakhapatnam, Andhra Pradesh
Mr C K Robin Visakhapatnam, Andhra Pradesh
Mr Rijo Rappai Visakhapatnam, Andhra Pradesh
Ms Manjula M Karadudari Visakhapatnam, Andhra Pradesh
Mr Matu Singh Visakhapatnam, Andhra Pradesh
Mr Jayveer Singh Visakhapatnam, Andhra Pradesh
Mr Md Misbahul Hoda Visakhapatnam, Andhra Pradesh

Ms Vayduriam Kurnool, Andhra Pradesh
Ms Sreedevi Kurnool, Andhra Pradesh
Dr Sindu Suleka Kurnool, Andhra Pradesh
Dr V Sree Kumar Kurnool, Andhra Pradesh
Ms K Padma Kurnool, Andhra Pradesh
Ms Lalitha Warangal, Andhra Pradesh
Ms E Sridevi Warangal, Andhra Pradesh
Ms Rajalakshmi Warangal, Andhra Pradesh
Ms M Sailaja Vijayawada, Andhra Pradesh
Ms Shamivul Begum Vijayawada, Andhra Pradesh
Mr Chandra Sekhar Vijayawada, Andhra Pradesh
Ms Mani Vijayawada, Andhra Pradesh
### Community Eye Health & Community Based Rehabilitation

#### Master's in Community Eye Health (1 year)
- **Mr Azuwan Bin Musa**
  - International Islamic University, Kuantan, Malaysia
- **Ms Fatma Jama Omar**
  - Ministry of Health, Zanzibar, Tanzania
- **Mr Narasimha Chary**
  - AP Right to Sight Society, Hyderabad, Andhra Pradesh
- **Mr Ramakrishna M**
  - AP Right to Sight Society, Hyderabad, Andhra Pradesh

#### Diploma in Eye Health Management (1 year)
- **Ms Swarna Prava Samal**
  - LVPEI, Bhubaneswar, Odisha
- **Ms Kirteemayee Roul**
  - LVPEI, Bhubaneswar, Odisha
- **Ms Shaik Shaheda**
  - Guntur, Andhra Pradesh
- **Ms Chaitanya Voleci**
  - Guntur, Andhra Pradesh
- **Ms Janeela Surampalli**
  - Khannam, Andhra Pradesh
- **Mr Ramesh Daggumati**
  - Prakasam, Andhra Pradesh

#### Diploma in Community Eye Health (6 months)
- **Mr Y Mahendra Chary**
  - Community Health Nutritional Office, Medak, Andhra Pradesh
- **Mr K Ramesh**
  - Community Health Nutritional Office, Medak, Andhra Pradesh
- **Mr K Raghunandan**
  - Community Health Nutritional Office, Nizamabad, Andhra Pradesh
- **Mr Ananta Kalita**
  - Chandra Prabha Eye Hospital, Jorhat, Assam
- **Mr Gourav Kumar Saxena**
  - C L Gupta Eye Institute, Moradabad, Uttar Pradesh
- **Ms Siva Krishna K**
  - West Godavari, Andhra Pradesh
- **Mr A Venkat Rao**
  - LVPEI, Hyderabad

#### Certificate Course in Program Management and Evaluation (2 weeks)
- **Mr M Ashwin Chaulagain**
  - Tilganga Eye Centre, Kathmandu, Nepal
- **Mr George Wesley**
  - Assumption Hospital, Kanjirappuzha, Kerala
- **Mr Navavraj Ballurkar**
  - Velemegna Good News Society, Bidar, Karnataka
- **Mr Vinod Kumar**
  - MDSD Rotary Eye Hospital, Kullu, Himachal Pradesh
- **Mr Kamal Dave**
  - Alak Nayan Mandir, Udaipur, Rajasthan
- **Mr Ravi Srivastava**
  - C L Gupta Eye Institute, Moradabad, Uttar Pradesh
- **Mr Jinson Thomas**
  - St Joseph’s Hospital, Kothamangalam, Kerala
- **Mr Pari Naidu Parashar**
  - Arogyavaram Eye Hospital, Sompeta, Srikakulam, Andhra Pradesh
- **Mr Avind Babu**
  - Operation Eyesight Universal, India
- **Mrs Retty George**
  - Operation Eyesight Universal, India

#### Internship in Public Health
- **Ms Alexandra Mcmanus**
  - McGill University, Canada
- **Ms Monica Townsend**
  - University of Notre Dame, USA
- **Ms Niharika Monala**
  - Birla Institute of Technology & Science, Pilani
- **Ms Vimala Raghavendran**
  - Wharton School of the University of Pennsylvania, USA
- **Ms Reed Van Garden**
  - Wharton School of the University of Pennsylvania, USA
- **Ms Vidya Vasudevan**
  - Stanford Graduate School of Business, USA
- **Mr Rohit Thummalapalli**
  - Yale University, USA
- **Ms Neela Chatla**
  - Stanford Graduate School of Business, USA

#### Community Based Rehabilitation Training Program (1 month)
- **Bhosle Gopal Rao Patel**
  - Patel Eye Centre, Mudhol, Adilabad district
- **Ms Rojarani Telagathoti**
  - Yaddanapudi
- **Ms Neela Chatla**
  - Navipet
- **Kuchukulla Ramachandra Reddy**
  - Reddy Eye Centre, Thodukurthy, Mahaboobnagar district
- **Ms Navya Kongari**
  - Yandabeta
- **Mr Venkataiah Komara**
  - Peddakothapally
- **Venkata Lakshmi**
  - Venkataiah Komara, Prakasam district
- **Ms Madhava Rao Chandalawada**
  - Chirala
Celebrating 25 years of Seshanna Chennawar Eye Centre, Adilabad, Adilabad district
Mr Santosh Meshram Jainath Mr Vilas Lokhande Gudhathnoor
Mr Rakesh Mukkera Jainath

Siloam Eye Centre, Madanapalle, Chittoor district
Mr B Subbanarsaiah Madanapalli

Swarna Bharat Eye Centre, Venkatachalam, Nellore district
Mr Chengaiah Nellore Mr Ramesh Vidavaluru Nellore

Sudhakar & Sreekanth Ravi Eye Centre, Markapuram, Prakasam district
Ms Sharadha Chitya Markapuram Mr Sayed Abdul Razack Markapuram
Ms Atchamma Dammu Markapuram Mr P Anjaneyulu Markapuram
Mr S Nagaraju Markapuram

Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam district
Mr Bhanuchandar Kommu Tangutur Ms Suvarna Manikyamma Kuraganti Singarayakonda
Ms Mudavali Jingli Kandukuru

Nava Bharat Eye Centre, Paloncha, Khammam district
Ms Sampayam Paloncha Ms Aruna Punyabaina Paloncha
Ms Sunila Gadasari Paloncha Ms S Suneetha Paloncha
Mr Ajay Nagendra Kumar T Kothagudem

Kode Venkatadri Chowdary Campus, Vijayawada
Ms Sunitha Penamaluru Mr Naga Nandswar Rao Gokapai Kankipadu
Mr Praiseen Kumar Golukonda Penamaluru Ms Shanti Maheswara Vijayawada

Secondary centre under construction, Bellary, Karnataka (6 months)
Mr K Shanmukha Bellary Mr Eranna B Kurnool
Mr Lakshmi Narayan Reddy TSiruguppa Mr Manikanta K Gangavathi

City Centre, Madhapur, Hyderabad (4 days)
Ms Malleshwari K Hyderabad Ms Dhana Lakshmi G Hyderabad
Ms Renuka K Hyderabad Ms Padma Kodapally Hyderabad

Hospital Team Training Program (1 year)
Tejpur Eye Hospital, Assam
Mr Mukul Borah Eye Care Manager
Mr Dibya Jyoti Kalita Maintenance & Bio-Medical Technician
Ms Renu Devi OT Nurse
Ms Krishna Borah OT Nurse
Mr Bapdhan Kalita OT Technician

Orientation Program for Field Staff (2 days)
(Sponsored by Luxottica India Eyewear Pvt Ltd, Gurgaon, Haryana)
Mr L Ramkrishna Ms Bharti Gupta Mr Supreet Singh Arora Mr Vishal S Limbuwala
Mr Yogesh Singh Mr Saurabh Gupta Ms Anjali Rai Mr Diwakar Joshi
Mr Shogy Anto K Mr Anil Agarwal Mr Shantamu Misra Mr Ajay Tuli
Mr Deepak Tiku Ms Mini Paul Mr Mukesh Sharma Mr Ganesh H Pawar
Mr Sachin Verma Mr Anil Dave Mr Ashuosh Sharma Mr Manoj Mohanty
Mr Rajan Handa Mr Jacob Joseph Kandathil Ms Smita Singla
Central Audio-Visual Unit

This year several national awards for videos produced by L V Prasad Eye Institute were won by our faculty and fellows. They were Dr Tarjani Dave, Dr Milind Naik, Dr Sirisha Senthil, Dr PM Fairooz, Dr Kruti Mody, Dr Santosh Honavar, Dr Pradeep Reddy, Dr A K Mandal, Dr Samir Mohapatra, Dr Suryasnata Rath, Dr Amit Gupta and Dr Muralidhar Ramappa.

The Bharat Petroleum Corporation Limited CSR grant for 2010-2012 was fully utilized by CAVU for picture books, coloring books and crayons for children with retinoblastoma, who received chemotherapy at Hyderabad campus.

(Details in Honors & Awards, pages 20-22)

Videos Edited (surgical) – 987; Videos Produced (with narration) – 35

- The differential diagnosis of Descemet's tears (Haab Striae) and surgical outcome of infantile glaucoma presented with acute corneal hydrops – Anil K Mandal, Pradeep Reddy
- Refractory congenital glaucomas – Sirisha Senthil, Chandrasekhar Garudadri
- Rectifying calibration error of the Goldmann application tonometer – Nikhil Chaudhari, Chandrasekhar Garudadri
- Congenital glaucoma: A learner's perspective – Aparna Rao
- Management of coloboma cataract – Sunita Chaurasia, Muralidhar Ramappa
- Infantile infectious keratitis: A systematic approach – Jatin Naresh Ashar, Muralidhar Ramappa
- Topical anaesthesia strabismus surgery – Ramesh Kakunna, Sumit Monga, Virennder Sachdeva, Amit Gupta
- Orbital decompression made simple – Tarjani Dave, Milind Naik
- Fat and facts: dermis fat graft, an autologous orbital implant – PM Fairooz, Santosh G Honavar
- Repair of an orbital floor fracture – bridge or wedge – PM Fairooz, Santosh G Honavar
- Descemet's Stripping Endothelial Keratoplasty (DSEK) in children – Muralidhar Ramappa, Jatin Ashar
- Management of sandwich LASIK free flap following a double pass of a microkeratome – C Jagadeesh Reddy, Pravin Krishna Vaddavalli
- Cell-based therapy for ocular surface reconstruction – C Jagadeesh Reddy, Sayan Basu, V S Sangwan
- The whole and soul of closing the hole: Managing corneal perforations – Merle Fernandes
- EX-PRESS implant assisted guarded filtration procedure – Sirisha Senthil, Paaraj Dave
- Eye donation – RIEB and BITS Pilani students, Raghav and Akhil
- Eye donation – CAVU
- Unplanned vitrectomy during cataract surgery: anticipating, identifying and strategizing for surprises – Archana Singh, Muralidhar Ramappa
- Surgical management of persistent fetal vasculature syndrome – Sumit Monga, Subhadra Jalali, Vivek Dave
- Pearls in the management of glaucoma in microspherophakia – Arpita Basia, Sirisha Senthil
- 23 gauge vitrectomy with chandelier illumination – Raja Narayanan, Chinmay Sahu, Mudit Tyagi
- Eye-PEP 2011 Icon Dr S S Badrinath – Padmaja Rani Kumari
- Eye-PEP 2011 Video: I have a dream – Santosh G Honavar, P M Fairooz
- Self-linking nasolacrimal duct stent in external dacryo-cystostorhinostomy – Javed Ali, Tarjani Dave
- Mullerectomy for the management of mild ptosis – Milind Naik, Tarjani Dave, Aditi Pujari
- Trabeculectomy in a uveitic eye – Nikhil Chaudhari
- Endoilluminator-assisted cataract surgery – Mukesh Taneja
- Doctor, why can’t my child see? Evaluation of the visually inattentive child – Sumit Monga
- Ligneous conjunctivitis in a child – Kruti Mody, Santosh G Honavar
- Management of strabismus in myopia – Niranjan Pehere
- Post-enucleation custom ocular prosthesis for retinoblastoma – Nusrat Changal, Javed Ali
- Surgical technique of ocular surface squamous neoplasia: Cut, freeze & paste! – Samir Mohapatra, Suryasnata Rath
- Eye care in glaucoma (Patient information video in English) – Sirisha Senthil
Eye Research

Prof Brien Holden Eye Research Centre

- Champalimaud Translational Centre for Eye Research
- Kallam Anji Reddy Molecular Genetics Laboratory
- Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory
- Jhaveri Microbiology Centre & Saroja A Rao Immunology Laboratory
- Biochemistry Laboratory
- Ophthalmic Pathology Laboratory
- Clinical Research
- Visual Optics and Psychophysics Laboratory

Hyderabad Eye Research Foundation (HERF) is the research arm of L V Prasad Eye Institute and a not-for-profit trust, recognized by the Department of Scientific and Industrial Research (DSIR) of the Government of India as a Scientific and Industrial Research Organization (SIRO). This allows it to compete for and obtain research grants from various Indian, as well as international, research agencies. Research at HERF encompasses a variety of themes, namely basic, translational, and clinical. In addition, it is engaged in research in the area of visual neurosciences, public health research with focus on epidemiology and health economics, and research into methods of empowering people with irreversible blindness, such as by providing low vision devices and imparting rehabilitation skills. It is also studying the microbiology of eye infections in ophthalmic pathology. In the area of translational biology, particular mention must be made of the use of stem cell technology to treat certain eye disorders, an area in which L V Prasad Eye Institute has taken remarkable leadership.

Developments during the year

While work has gone on smoothly, there have been some new developments during the course of the year. One of them has to do with the cross-modal sensitization of children who are born blind, both during their period of blindness and after they have been helped to recover their vision (particularly in the case of children with congenital cataract). This element of the plasticity of the brain and the visual system is of immense interest, given the fact that a large number of children in India are congenitally blind and could be offered some level of vision.
restoration. We have also continued to work in the area of the development of vision in infants – eye movements, coordination and binocular vision. Apart from Dr Shrikant Bharadwaj, we have also added Dr Naveen Challa, with particular interest in the electrophysiology of the visual system.

We have applied to the Department of Biotechnology to expand our existing program into a Centre of Excellence in eye care. This would allow us to initiate dream projects such as genetic epidemiology of eye diseases, gene therapy work, and stem cell therapy in chosen areas of retinal blindness.

Support and Recognition
HERF has been receiving competitive grants from the Department of Biotechnology (DBT), Department of Science and Technology (DST), Council of Scientific & Industrial Research (CSIR), and the Indian Council of Medical Research (ICMR) – all from India, and from the Champalimaud Foundation, Portugal, International Atomic Energy Agency (IAEA), Switzerland, as well as the National Eye Institute (NEI, National Institutes of Health), USA.

Likewise, collaborative research has been initiated with colleagues in Australia, Canada, Japan, Brazil and Tunisia through the DBT-sponsored bilateral Indo-Australian and Indo-Canadian programs and the DST-sponsored Indo-Japan, Indo-Tunisian and Indo-Brazilian programs. In addition, 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. Most recently, LVPEI has teamed up with Abbott Medical Optics, Netherlands, on a joint project to understand how well the peripheral retina can support vision in AMD patients.

The Institute is recognized as an external research centre by the University of Hyderabad – all from India, and from the Champalimaud Foundation, Portugal; the National Institute of Biomedical Genomics, Kalyani, West Bengal; the University of New South Wales, Sydney, Australia. This enables research scholars from LVPEI to register with, and obtain their PhD degrees from, these universities.

Collaborative research has also been forged with colleagues at the Centre for Cellular & Molecular Biology (CCMB), Centre for DNA Fingerprinting & Diagnostics (CDFD), and the University of Hyderabad – all in Hyderabad, at the Indian Institute of Science, Bengaluru, and the National Institute of Biomedical Genomics, Kalyani, West Bengal. These have allowed researchers at LVPEI to access state-of-the-art equipment and sophisticated facilities at these institutions.

Clinical Research
LVPEI’s multidisciplinary clinical research is of international standards and is sponsored by Indian funding agencies and multinational companies from USA and France. The group conducts not only intramural clinical research, but also participates in multicenter 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 Sousa 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 of translational research, through the establishment of the Champalimaud Translational Centre for Eye Research or C-TRACER.

Research at C-TRACER focuses on the following areas:

- Advanced molecular and functional genomics;
- Research and therapy through the utilisation of stem cells in vision-related illnesses;
- Translational research utilising existing and novel clinical methodologies for furthering the knowledge of vision in ways that can be readily applied to patients;
- Exchange programs involving scientists chosen by LVPEI and the Champalimaud Foundation;
- Introduction of capacity building programs for developing Lusophone countries such as Mozambique, Angola, Timor and others; and
- The organization of the Antonio Champalimaud Symposium on January 30th every year in which leaders in ophthalmology from across the world, as well as distinguished scientists from India, are invited to lecture.

Fifth Annual Champalimaud Research Symposium
The fifth Annual Champalimaud Research Symposium was held on 30th January 2012. Unlike the previous years, this was a full one-day symposium with about a dozen speakers. The keynote oration should have been given by Prof Clare Gilbert but, due to a last minute medical problem, she could not come. Invited lectures were presented by: Dr Alok Srivastava, Prof Jacob Pe'er, Prof Brigitte Roeder, Prof Jose Cunha-Vaz, Prof Clifton M Schor, Prof D Chatterji, Prof Shubha Tole, Prof R Belfort, Prof PP Majumder, Prof Joaquim Murta and Prof Jim Funderburgh. In addition, our own colleagues also updated the audience on all the developments during the course of the year.
Hyderabad Eye Research Foundation

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Research Projects

Program Support on translational research on eye diseases

Investigators: D Balasubramanian, Chitra Kannabiran, Geeta K Venuganti, Subhabrata Chakrabarti, Inderjeet Kaur
Support: Department of Biotechnology, India (Program Support Grant)

Of India’s 15 million blind people, 10 million are blind due to cataract, 1.2 million due to uncorrected refractive errors, and another 1.0 million due to eye infections. All these conditions are easily managed through effective national-level programs once ready and effective solutions are available, and no new research is needed. But the rest of the blindness burden is due to corneal dystrophies, glaucoma, retinal disorders and other inherited problems, where basic research and its application and translation are needed urgently. Fortunately, the status of research in these areas in India is of the same level and quality as anywhere else in the world, and the connection between basic researchers and clinicians is good and mutually productive, particularly in ophthalmology. We need to take advantage of this combination; hence, the need for translational research on eye diseases. Our R&D projects under the Program Support Grant are:

Focal Theme 1: Stem Cell Biology and Therapy
Project A: Establishment of a centre for translational research in stem cells

Focal Theme 2: Molecular genetics of ocular diseases
Project B: Translational research in the genetics of retinal diseases
Project C: Molecular genetic study of retinopathy of prematurity
Project D: Identifying candidate genes associated with raised intraocular pressure in primary open angle glaucoma
Project E: Molecular phenotyping of genetic mutations leading to eye disorders – functional studies on the disorder associated proteins

Based on our progress during the 5-year period of “Program Support”, DBT has asked us to enlarge our program and apply for a Centre of Excellence in Eye Research.

Kallam Anji Reddy Molecular Genetics Laboratory
Champalimaud Translational Centre for Eye Research (C-TRACER)

Genomics of retinopathy of prematurity (ROP) and familial exudative vitreoretinopathy (FEVR)

Investigators: Inderjeet Kaur, Ganeshwar Rao Musada, Sanika Rathi, Subhadra Jalali, Padmaja Rani, Subhabrata Chakrabarti
Support: Department of Biotechnology, India

Retinopathy of prematurity (ROP) is a complex disorder leading to blindness in premature children. In order to understand the underlying genetic etiology contributing to this complex disorder, a comprehensive genetic analysis of candidate genes involved in the development of early retinal vasculature and angiogenesis by customized genotyping and resequencing was done. The study revealed the association of some complement-mediated genes involved in angiogenesis with ROP susceptibility. Additionally, the vitreous humor levels of growth factors and angiogenesis-related genes were assessed by the multiplex bead array method to assess the concordance between the protein expression and genetic association data. Currently, the data is being checked in patients with different stages of ROP. Candidate gene screenings on cases of familial exudative vitreoretinopathy (FEVR) revealed some novel mutations and are currently being correlated with the disease presentation.

Genetic and phenotypic comparison of primary congenital glaucoma in India and Brazil

Investigators: Subhabrata Chakrabarti, Anil K Mandal, Ivan M Tavares,1 Jose P C Vasconcellos,2 Manica Mello3
Support: Department of Science and Technology, India (Indo-Brazil collaborative program)

Primary congenital glaucoma (PCG) results in irreversible blindness in children worldwide. While the estimates of mutation frequencies vary widely across populations, there are subtle commonalities with respect to the prevalent mutation among different populations that occurs on a uniform haplotype background. Based on this hypothesis, we analyzed the similarities and dissimilarities in the genetic basis of PCG patients and further deciphered the genotype-phenotype correlation for a given mutation in these populations.

Central India Eye and Medical Diseases Study

Investigators: Subhabrata Chakrabarti, Jonas Jost,2 Vinay Nangia,4 Kallu N Rao, Inderjeet Kaur, Meha Kabra
Support: University of Heidelberg, Germany

The Central India Eye and Medical Diseases Study (CIEMS) is a clinical and population genomic study in a rural central Indian region (Nagpur) on 5000 individuals over 40 years of age. It aims to dissect the underlying clinical and genetic mechanisms in various ocular and other systemic diseases in order to understand their prevalence and etiology. Recently, we have analyzed the genetic risk factors for early AMD in this cohort by direct sequencing and have identified the role of common variants in the disease. The clinical and genetic risk factors in other ocular traits are being characterized through next-generation sequencing, which will be followed up with genotype-phenotype correlation and gene-environment interactions to devise means for predictive testing.

Genetic comparison of primary congenital glaucoma in India and Tunisia – understanding the possible founder effects

Investigators: Subhabrata Chakrabarti, Anil K Mandal, Guemira Fethi1, E A Mhd Ali1, Douik Hayet1, G Abderraouf,2 Harzallah Latifa,2 Jihene Bouassida6
Support: Department of Science and Technology, India (Indo-Tunisia collaborative program)

Primary congenital glaucoma (PCG), attributed to mutations in the CYP1B1 gene, affects different populations worldwide.

1 Vision Institute, Federal University of Sao Paolo, Brazil 2 University of Heidelberg, Germany 3 University of Sao Paolo, Brazil 4 Service d'Ophthalmologie, Habib Thameur Hospital, Tunis, Tunisia 5 Service de Biologie Clinique, Institut Salah Azaiez, Tunis, Tunisia 6 Service de Biologie Clinique, Institut Salah Azaiez, Tunis, Tunisia
These mutations exhibit a strong geographical clustering, based on a uniform haplotype background, as evidenced from the mutation spectrum among PCG patients in Morocco, Saudi Arabia and India. So far, there are no reports on the genetics of PCG in Tunisia. In the present study, we have stipulated that a specific mutation G61E among Tunisian patients may have a strong founder effect, as seen in Saudi Arambientians. The current analysis addressed the similarities and dissimilarities in the genetic basis of PCG in Tunisia and India along with their origin and migration. We also established the founder effect for the G61E mutation and its genetic and clinical diversification worldwide.

A genome-wide association study in PCG

**Investigators:** Subhabrata Chakrabarti, Srirupa Ganguly, Inderjeet Kaur, Anil K Mandal, Partha P Majumder

**Support:** Indo-Australia Biotechnology Fund, Department of Biotechnology, India

In continuation of our ongoing genetics work in PCG, the present study was based on identifying the uncharacterized genes in PCG through GWAS, using the 1.8 million SNP Affymetrix array and delineating large regions of homozygosity, based on shared haplotypes. The cohort comprised PCG cases that did not harbour CYP1B1 and LTBP2 mutations and controls. The data obtained from GWAS, combined with the analysis of large regions of homozygosity, revealed a few novel genes that are currently being characterized by targeted sequencing to discover the causal mutations in PCG.

Functional genomics of primary open angle glaucoma (POAG)

**Investigators:** Subhabrata Chakrabarti, Kallu N Rao, Meha Kabra, Saika Siddiqui, Farheen Amman, 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

Based on the refutations of GWAS results in our POAG cohort, we have now based our analyses on two distinct pathways, as indicated through gene expression. Genes involved in the pathways of complement activation and extracellular matrix (ECM) regulations have been screened by customized genotyping microarray and further validated by resequencing. Analysis of aqueous humor from patients by ELISA with specific cations that did not harbour CYP1B1 and LTBP2 mutations and controls. The results show that optineurin is required for CYLD-dependent inhibition of TNFα-induced NF-κB activation. The mutant, H486R is defective in regulating NF-kB activity due to its altered interactions with Rab8 and transferrin receptor. Over-expression of E50K in RGC-5 induced cell death, mediated by oxidative stress. Over-expression of transferin receptor due to its alterations in its localization in the relevant human tissue. The gene-gene and protein-protein interactions are currently being carried out on these subjects and will be analyzed against the background of their responses to therapy.

Proteomics analysis of tissues fluids involved in ROP, POAG and AMD

**Investigators:** Inderjeet Kaur, Saika Siddiqui, Sonika Rathi, Subhadra Jalali, Anil K Mandal, Sirisha Senthil, Garudadri Chandra Sekhar, Muralidhara Ramappa, Virender S Sangwan, Rohit C Khanna, Subhabrata Chakrabarti

**Support:** Department of Biotechnology, India

In an effort to understand the underlying protein biology in ROP, POAG and AMD, tissue fluids such as aqueous and vitreous humor and plasma are being characterized for the presence of potential biomarkers in ROP, POAG and AMD. Our analysis of the associated candidate proteins by multiplex bead ELISA assay revealed the overexpression of certain proteins in these diseases that may have a pathological outcome. These results are currently being validated by another technique. Further work in this area will involve characterizing of novel proteins by 2D gelectrophoresis and MALDI and also through lipidomics.

**Genetic susceptibility to contact lens-related adverse events**

**Investigators:** Subhabrata Chakrabarti, Nagaraju Konda, Nerida Cole, Inderjeet Kaur, Mark Willcox

**Support:** Vision CRC, Australia

In order to understand the genetic susceptibility of the host to contact lens-related adverse events, specific immune regulatory genes comprising the interleukins, toll-like receptors and defensins are being analysed by customized genotyping microarray. The idea is to look for specific tag SNPs in the Indian cohort and determine the extent of genetic association. Further functional analysis would be carried out on subjects exhibiting the associated genotype/haplotype to determine the causal risk or protection conferred by these genes.

**Molecular mechanism of pathogenesis of glaucoma caused by mutation in optineurin**

**Investigators:** D Balasubramanian, Ghanashyam Swarup, Subhabrata Chakrabarti

**Support:** Department of Biotechnology, India

Optineurin is involved in vesicle trafficking, signal transduction and autophagy. Mutations in optineurin are associated with, inter alia, some forms of glaucoma. We examined here the functional defects generated by two common mutations, E50K and H468R. Plasmids expressing optineurin mutants were transfected in the rat retinal ganglion cell line RGC-5. Endocytic trafficking in cells was examined using fluorescently labeled transferrin. Optineurin interacting proteins were identified by yeast two-hybrid assay. Optineurin knockout was done by using shRNA. NF-κB activity was measured by using a luciferase reporter. We found that optineurin regulates endocytic trafficking of transferrin receptor to the recycling endosomes. But E50K causes defective endocytic recycling of transferrin receptor due to its altered interactions with Rab8 and transferrin receptor. Over-expression of E50K in RGC-5 induced cell death, mediated by oxidative stress. Over-expression of transferrin receptor, however, protected against E50K-induced cell death. We identified several novel optineurin-interacting proteins including CYLD, a deubiquitinase involved in signal transduction to the transcription factor NF-κB. Our results show that optineurin is required for CYLD-dependent inhibition of TNFα-induced NF-κB activation. The mutant, H468R is defective in regulating NF-kB activation due to its impaired interaction with CYLD. We concluded that the E50K mutant of optineurin causes defective endocytic recycling of transferrin receptor, which contributes to the death of retinal ganglion cells. The H468R mutant is defective in regulating signaling to NF-κB activation.

**Genetics of Lebers Congenital Amaurosis (LCA)**

**Investigators:** Chitra Kannabiran, Rachna Shukla, Subhadra Jalali

**Support:** Champalimaud Foundation, Portugal, Department of Biotechnology, India

Retinal dystrophies are degenerative disorders of the retinal photoreceptors, resulting in irreversible blindness. They are...
caused by single gene defects and are extremely heterogeneous in genetic causation. We are studying the genetics of different types of dystrophies, including congenital forms (LCA) and later-onset forms. Screening of LCA genes GUCY2D, RPE65 and RD3 has been done previously in >100 cases with LCA. Other novel LCA genes are being screened, at present. These studies have revealed novel pathogenic changes in patients. Further studies will help determine the frequency of known LCA gene mutations in Indian patient populations.

Identification of genes causing Retinitis Pigmentosa

Investigators: Chitra Kannabiran, Nishika Sahini, Subhadra Jalali, R Narayan
Support: Champalimaud Foundation, Portugal, Department of Biotechnology, India

Retinitis pigmentosa is one of the major forms of incurable blindness across the world. It is a genetic disorder that is inherited in different Mendelian, mitochondrial forms and is extremely heterogeneous genetically. We are using homozygosity screening to localize and identify genes responsible for recessive RP. Novel mutations have been identified in various genes that reveal the genetic causes of disease in various families. Further studies are in progress to identify genes for both dominant and recessive RP in Indian families.

Genetics of retinoblastoma

Investigators: Chitra Kannabiran, Vidya Latha Parsom, Md Javed Ali, Santosh Honavar, Geeta Vemuganti
Support: Champalimaud Foundation, Portugal

Retinoblastoma, an intraocular malignancy involving the retinal precursor cells, affects children below the age of 5 years. It is caused by mutations in the RB1 gene. We have developed an effective screening protocol for retinoblastoma, using the patients’ genomic DNA, that can potentially identify the oncogenic mutation in >80% of patients. We have also performed analysis of the RB1 mRNA in patients to further detect changes that were not detectable in the DNA analysis. Splicing defects were found to be caused by mutations at splice sites and by exonix substitutions.

Molecular analysis of cataract-causing mutants of connexin 50

Investigators: Ghanshyam Swarup, Madhavi Latha Chalasani, Madhavi Muppilala, Chitra Kannabiran, Surya Prakash G Ponnam
Support: Council of Scientific & Industrial Research, India, Hyderabad Eye Research Foundation

Congenital hereditary cataracts are a genetically heterogeneous group of disorders causing lens opacification and loss of vision in infants and young children. They are inherited as autosomal dominant and recessive forms. We have earlier carried out a molecular genetics study on several families and identified novel mutations in the connexin 50 gene, which encodes the gap junction protein connexin 50 (Cx50). To understand the effects of these mutations further, we cloned the Cx50 mutants into suitable plasmids for expression in cultured cells. Various markers corresponding to different organelles that form the protein transport pathway were immunostained in parallel to check localization of the Cx50 mutants. A frameshift mutant in Cx50, encoding a truncated protein, showed defective localization of the protein with retention within the endoplasmic reticulum. In addition, it appeared to cause disruption of the Golgi and ER exit sites. These observations explain the possible impact of the mutation in the lens.

Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory
Champalimaud Translational Centre for Eye Research (C-TRACER)

Development of a synthetic biodegradable cell carrier membrane for the transplantation of cultured cells or freshly excised autologous tissue (limbal segments or oral mucosa) for diseases of the cornea

Investigators: Virender S Sangwan, D Balasubramanian, Indumathi Maniappan, Sheila Macnell, Charanya Ramachandran
Support: Wellcome Trust, United Kingdom

When the outer epithelial layer of the cornea is damaged by chemical or fire burns, vision is compromised. In some cases, stem cell therapy can be used to generate a functional outer corneal layer to offer significant restoration of vision. The human amniotic membrane is currently the most commonly used substrate for culturing and transplanting limbal stem cells. While this procedure is successful, the study investigates whether it is possible to replace the amniotic membrane, so as to avoid viral contamination, shelf life degradation and other potential risks associated with the use of a biological material. A synthetic biodegradable polymer membrane developed by our collaborators at the University of Sheffield promises to be valuable. Our research thus far shows that the polymer scaffold, similar to the human amniotic membrane, supports sufficient cell growth and allows successful transfer of the cultured cells onto the wounded cornea. Our characterization studies point to the presence of a heterogenous population of cells in these cultures, which include stem cells. If successful, this technology will provide a safer, affordable, and more accessible alternative to the human amniotic membrane.

An advanced surface for the cell therapy of limbal epithelium for ocular surface disease: Proof of concept and clinical trials

Investigators: Virender Sangwan, Indumathi Mariappan
Support: Indo-Australian Biotechnology Fund, Department of Biotechnology, India

This project aims to produce surface modified therapeutic contact lenses for in vitro culture and delivery of limbal epithelial cells for the treatment of ocular surface diseases. The project also includes a ‘proof of concept’ clinical trial in order to establish the safety and efficacy of this technique, in comparison to the established technique of corneal epithelial transplantation using human amniotic membrane (hAM) as a culture substrate. Plasma polymer coating technique allows exact control over the film thickness and, with an appropriate chemistry, we anticipate that this technique would offer a better alternative to hAM for culturing limbal epithelial cells and their subsequent delivery onto the corneal surface. In vitro culture and preclinical studies in rabbit models have revealed that the acrylic acid-based plasma polymer coated surfaces of contact lenses could serve as good substrates for human corneal epithelial cell cultures. They also enabled satisfactory

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1University of Hyderabad, Hyderabad  • 2Centre for Cellular and Molecular Biology, Hyderabad  • 3University of Sheffield, UK
cell transfer onto the rabbit corneal surface. A small pilot study on LSCD patients using limbal cells cultured on plasma polymer coated lenses has been initiated.

**Generation of disease specific induced pluripotent stem cells from dermal fibroblasts of patients with retinal dystrophy**

**Investigators:** Indumathi Mariappan, Chitra Kannabiran, Subhadra Jalali, Milind Naik

**Support:** Department of Biotechnology, India

Retinal dystrophy is a genetic disorder and also an age related disease, resulting in gradual degeneration of the photoreceptors and the RPE cells. Cell replacement therapy offers great promise in treating such diseases. Since an adult human retina does not harbor any stem cells, scientists continue to search for suitable cell sources that can give rise to the retinal cells. Recently, it was shown that adult somatic cells can be reprogrammed to ES-like cells by ectopic expression of certain genes implicated in stemness and pluripotency. These cells were christened as induced pluripotent stem cells (iPSCs). Our group has initiated basic research towards exploring the feasibility of using iPSCs, generated from adult dermal fibroblasts, as the stem cell source for deriving retinal cells. We have derived and characterized four mouse iP lines and differentiated them to RPE cells. We have also successfully generated several RP patient-specific human iP lines and are in the process of characterizing them. We have developed a very robust protocol for the differentiation of human pluripotent stem cells into various neural and retinal cell types, including the photoreceptors and RPE cells.

**Derivation of retinal neurons from ciliary pigmented epithelium of the human eye**

**Investigators:** Indumathi Mariappan

**Support:** Department of Science & Technology, India

The ciliary margin zone is known to harbor retinal stem cells in lower vertebrates and plays an active role in the regeneration of the adult retina. Proliferating stem-like cells were also reported in the ciliary-pigmented epithelium (CPE) of higher mammals like the mouse and rat. These CPE cells were shown to differentiate into RPE cells and retinal neurons, including the photoreceptor cells. This study aims to culture and characterize the human ciliary-pigmented epithelium derived retinal stem cells (RSCs), using donor eyeballs collected from the eye bank (after the removal of the corneo-scleral discs for corneal transplantation), as the tissue source and to identify suitable culture conditions for the differentiation of RSCs into different retinal cell types. We have found that a subset of pigmented cells of the CPE layer has retinal progenitor properties and can proliferate in culture. We have established both adherent and sphere cultures of CPE cells and found that their native gene expression signature overlaps with that of the neuro-retina and RPE cells. Work is in progress towards their molecular characterization and differentiation into retinal cell types.

**Preservation and use of adult stem cells and the use of biomaterial scaffolds for clinical applications**

**Investigators:** Virender Sangwan, José Domingos dos Santos, D Balasubramanian, Indumathi Mariappan, Livia Santos, Ascensão Lopes, Ana Colette Mauricio

**Support:** Department of Science & Technology, India

The objectives of this project are: (a) isolation and cryopreservation of stem cells from the eye and bone marrow of patients in India using the methods developed at Biosckin, Portugal and (b) testing the suitability of biomaterials developed in Portugal (Bonelike®) as culture substrates to grow limbal stem cells in 3-dimensional culture conditions. The methods developed using the expertise of the two partners will hopefully provide a way to “bank” the stem cells and the tissues cultured from them for autologous reuse or for allogeneic transplantations.

**Cultivation and characterization of human lacrimal gland cells for potential clinical application for post radiotherapy xerophthalmia**

**Investigators:** Geeta K Vemuganti, Santosh G Honavar, Vijay Anand P Reddy

**Support:** International Atomic Energy Agency, Austria

A dry eye condition, due to the failure of or improper tear fluid secretion by the lacrimal glands, is a serious problem in patients undergoing radiotherapy for the treatment of ocular tumors. To offer cell therapy to treat lacrimal gland dysfunction, our group initiated work on culturing lacrimal gland cells, using tissues that were harvested from patients undergoing exenteration. This was a novel concept that required us to culture lacrimal gland tissues from live patients and also explore the presence of stem-like cells, which would enable us to explore the possibility of cell therapy in these patients. We have now successfully established in vitro lacrimal gland cultures that retain their tissue specific marker expression and the ability to synthesize, as well as secrete, vital tear proteins. We have also shown the presence of stem cells and duct like cells in our established cultures. Our results, which have been published in PLoS ONE, provide evidence that, after proper testing and experimentation, cell therapy for the treatment of dry eye post radiotherapy may be a promising treatment strategy.

**Evaluation and characterization of cancer stem cells in retinoblastoma tumor**

**Investigators:** Geeta K Vemuganti, Santosh G Honavar, Chitra Kannabiran

**Support:** Indian Council of Medical Research, India

Recent evidence points to the presence of putative cancer stem cell population in Retinoblastoma (Rb) that are characterized by the size and phenotype of cells, gene expression pattern, metastatic pathways and, to some extent, response to drugs. In continuation of our earlier study where we showed the CSC by flowcytometry, we now looked at gene expression specifically with respect to the role of the Nodal/Activin pathway in Rb, which is known to play a crucial role in the development, neural patterning and maintenance of the undifferentiated state of human embryonic stem cells (hESCs). In Rb tumors, of the 10,457 genes that were deregulated (p < 0.05 and fold change ≥ 1.5 folds), significant up-regulation of ACVR1C (2.23 fold) and its downstream effector, SMAD3 (2.43 fold) was observed. The ligands for this pathway such as NODAL and TGFB were found to be unregulated and the inhibitor, LEFTY, was unregulated in these tumors. ACVR1C showed higher expression in poorly differentiated tumors as compared to well differentiated tumors. Also, HMGA2 (48.6 fold) and its downstream regulator, LIN-28b (2.1 fold), were found to be highly up-regulated in primary tumors. This interim analysis highlights the deregulation of genes involved in nodal signalling such as ACVR1C, SMAD3, LEFTY, etc. This is in concordance with evidence of elevated nodal pathway in highly aggressive gliomas, ovarian, pancreatic tumors, etc. Further functional studies, specifically in the cancer stem cells population in Rb, would improve the understanding
of tumorigenesis and, possibly, pave the way for targeted therapy.

A study of unilateral retinoblastoma with and without histopathologic, high-risk features and the role of adjuvant chemotherapy – a groupwide phase 3 study

Investigators: Santosh G Honavar, Geeta K Vemuganti
Support: National Childhood Cancer Foundation, USA

The objectives of the study are:
- To prospectively determine the prevalence of high-risk, histopathologic features such as choroidal involvement, optic nerve invasion, scleral and anterior segment involvement in patients with unilateral retinoblastomas who have undergone enucleation;
- To demonstrate that patients without certain high-risk features can be successfully treated with enucleation alone by estimating the event-free survival (EFS) and overall survival (OS), where an event is defined as the occurrence of extraocular or metastatic disease;
- To estimate the event-free survival (EFS) and overall survival (OS) in patients with specific high-risk features who are uniformly treated with adjuvant chemotherapy, where an event is defined as the occurrence of extraocular or metastatic disease; and
- To estimate the incidence of toxicities associated with the proposed adjuvant chemotherapy.

Expected outcomes: The event-free survival and overall survival distributions will be estimated for patients with high-risk features (treated with adjuvant chemotherapy) and separately for subjects without high-risk features (treated with enucleation alone). Toxicities associated with the adjuvant therapy for patients with high-risk features will be descriptively summarized. The study is still in the active recruitment phase.

Indian Council of Medical Research National Retinoblastoma (ICMR) Registry

Support: Indian Council of Medical Research, India

The study aims to develop a reliable database on retinoblastoma, record the magnitude of the problem, assess the efficacy of the treatment protocol and remission status and study the mortality rate. The project is being done in a prospective fashion. All new patients of Indian nationality diagnosed with retinoblastoma from April 1, 2009, are being registered and their details recorded manually in a proforma designed by ICMR. A data entry operator enters the data in an Excel sheet, which is updated and edited periodically, and sent to the chief investigator at ICMR, Delhi.

Applied value of the project: It is a hospital-based special cancer registry project that will enable researchers and clinicians to understand retinoblastoma and its clinical presentation in the Indian scenario, which is different from that in western literature. The data collected at the end of (proposed) five years across the country will open up new avenues for research, while increasing awareness about any shortcomings in the diagnosis and management of retinoblastoma, thus helping in salvaging more eyes. It will also give an insight into existing referral patterns and survival analysis of retinoblastoma patients.

Visual Optics and Psychophysics Laboratory

Neural control of focusing and eye alignment in the human visual system

Investigators: Shrikant R Bharadwaj, Geeta Sravani
Support: Ramalingaswami Fellowship, Department of Biotechnology, Government of India

Simultaneous clear and single vision in the two eyes is a prerequisite for normal cortical visual development. Numerous animal models and clinical correlations have established that abnormal visual experience during development (e.g., chronic blurred vision or an eye-turn) causes irreversible deficiencies in fundamental visual functions, such as depth and localizing/navigating obstacles in a 3-D environment. Humans control their own postnatal visual experience through focusing and eye-alignment motor responses. The overall goal of this project is to understand how the neural control of these two motor responses is brought about in typically developing infants, children and adults. The questions addressed include the relative weighting of various sensory cues in driving these motor responses, the various neural strategies employed to optimize the performance of these responses, age-related differences in the characteristics of these responses and why these responses break-down in individuals with visual anomalies like lazy eye (amblyopia) and eye-turns (esotropia).

Focusing and eye-alignment responses will be stimulated by placing visual targets at several different distances before the eyes; the ensuing responses will be recorded using non-invasive photorefraction and eye-tracking techniques. The equipment is fully calibrated and a research paper has been submitted to the Investigative Ophthalmology and Visual Science (IOVS) journal for publication. The first set of experiments on understanding how the adult visual system handles differences in retinal image quality between the two eyes (anisometropia) has been completed and the manuscript is currently under review with the Journal Vision Research.

Development of a novel cell-phone based technique to measure refractive errors

Investigators: Shrikant R Bharadwaj, Veerendonath Pesala, Ramesh Raskar, Vitor Pamplona
Support: Ramalingaswami Fellowship, Department of Biotechnology, India

Uncorrected refractive errors are the largest cause of avoidable blindness in countries like India. The effectiveness of population-based vision screening programs will be significantly enhanced by employing a rapid, cost-effective and quantitative method for estimating these refractive errors. A novel cell-phone based technique (NETRA – Near Eye-Tool for Refractive Assessment) has been designed by the Camera Culture Group at MIT to meet this requirement and LVPEI is involved in its clinical testing and calibration for use as a screening tool in the community.

The optical set-up of NETRA consists primarily of a micro lens array that is retrofitted on a high-resolution cell-phone to display a spatially resolved pattern of red-green lines to the subject. Refractive error is estimated by the patient (with or without

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2Apollo Hospitals, Hyderabad
3MIT, Cambridge, MA, USA
the aid of a technician) by aligning the red-green patterns using a custom-designed user-interface on the cell-phone. The data gets stored on the cell-phone and can be retrieved using standard data transfer procedures. The results on 30 adults thus far show that the refractive errors estimated by NETRA are within +/- 0.5D of standard clinical refraction measurements, i.e., NETRA performs very closely to standard clinical procedures. This result was presented at the 2011 Association for Research in Vision and Ophthalmology (ARVO) meeting at Fort Lauderdale, Florida, USA. The key to NETRA’s success is three-fold: cost-effectiveness, type of cell-phone used and the ease of the user-interface. The projected cost of the optical set-up is a mere $2 (excluding the cell-phone). Currently, NETRA requires a high-end cell phone with good spatial resolution. The red-green patterns projected in the cell-phone should have a good resolution to support the precise measurement of refractive error. Efforts are under way to make NETRA usable on any regular cell-phone (currently it works only on smart phones with high-resolution displays). The instructions for user-interface are currently in English, hence, efforts are also under way to offer instructions in the local languages.

The impact of refractive surgery on retinal image quality and visual performance

Investigators: Shrikant R Bharadwaj, Samrat Sarkar, Pravin K Vaddavalli, Somasheela Murthy, Bhupesh Bagga
Support: Ramalingaswami Fellowship, Department of Biotechnology, India, Hyderabad Eye Research Foundation

LASER-Assisted In Situ Keratomileusis (LASIK) is a popular option for correcting high refractive errors as it offers freedom from spectacles and contact lenses wear. While the overall refractive power of the eye is effectively modified following surgery, a number of subtle structural changes occur in the eye – primarily cornea – following the surgery. One such change is in the magnitude of the higher-order optical aberrations (HOAs) of the eye. The pattern of change in optical aberrations of the eye after LASIK surgery has not been systematically studied, and the impact of HOAs on monocular and binocular visual performance also remains unknown. This project uses a combination of empirical data collection and computational optics to determine the retinal image quality of the eye. Longitudinal changes in the refractive error and HOAs of the eye will be mapped systematically after LASIK surgery and the corresponding changes in binocular and monocular visual performance will be assessed.

Determining the optimal refractive end-point of cataract surgery – should all astigmatism be corrected?

Investigators: Shrikant R Bharadwaj, Archana Singh, Veerendranath Pesola, Prashant Garg
Support: Ramalingaswami Fellowship, Department of Biotechnology, India, Hyderabad Eye Research Foundation

The refractive error of the pseudophakic eye can be precisely controlled after modern-day cataract surgery with monofocal intraocular lens (IOL) implantation. Given this ability, the refractive endpoint of cataract surgery could be optimized to suit the visual needs of the pseudophakic patient. Leaving myopic astigmatism uncorrected has been suggested in the past as a strategy for improving near acuity of pseudophakes with monofocal IOL implants. Questions of fundamental clinical importance, however, remain unanswered. Does uncorrected myopic astigmatism improve near acuity of pseudophakes with monofocal IOLs and, if so, what magnitude should be left uncorrected and at what axis? What compromise in distance acuity is to be expected? What is the role of pupils in determining the near-acuity improvement? This study addresses these questions comprehensively by determining the impact of induced astigmatism on the distance and near acuity of otherwise emmetropic pseudophakes. The study also computes retinal image quality with astigmatism and compares these trends to the changes in distance and near acuity.

The first phase of this study is completed and the results will be presented at the 2012 Association for Research in Vision and Ophthalmology (ARVO) meeting at Fort Lauderdale, Florida, USA. The second phase of the study involves understanding the strategy for correcting the fellow eye, if astigmatism has been left uncorrected in the first eye, to optimize near vision. The questions asked include: should the same magnitude and axis of astigmatism be left uncorrected in the fellow eye or should all refractive error be corrected in the fellow eye. If the former strategy is adopted, then how much leeway in the magnitude and axis of astigmatism can be tolerated before visual performance starts to deteriorate?

Ocular Microbiology Service, LVPEI, Bhubaneswar

Ocular infections caused by Staphylococcus species: Study of clinico-microbiologic features, virulence markers and genome profile

Investigators: Savitri Sharma, DV Singh
Support: Department of Science and Technology, India

Staphylococci are normal flora in the conjunctiva, which also cause a variety of eye infections. This project aims to determine the clinical profile of various ocular infections caused by different species of Staphylococcus by identifying Staphylococcus species causing ocular infections by phenotypic methods, determining the antibiotic susceptibility of the clinical isolates of staphylococci from ocular infections and normal eyes, determining the virulence factors of the clinical isolates of staphylococci from ocular infections and from normal eyes, performing genetic profiling of methicillin sensitive and resistant Staphylococcus species and comparing the clinical, phenotypic and genotypic features of methicillin sensitive and resistant Staphylococcus species. Sixty staphylococcal isolates from clinical samples and 35 isolates from normal individuals have been characterized phenotypically using the ATB system and their antibiotic susceptibility has been tested by minimum inhibitory concentration of a number of antibiotics. Currently, the isolates are being tested for the presence of meA gene that determines methicillin resistance.

Investigation of epidemic keratoconjunctivitis in Odisha and Andhra Pradesh: Epidemiological profile, clinical spectrum and molecular characterization of causative agents

Investigators: Savitri Sharma, Sujata Das, Srikant K Sahu, Somasheela Murthy, BNR Subudhi
Support: Department of Biotechnology, India

Epidemic keratoconjunctivitis (EKC) is a worldwide problem causing significant and, sometimes, lasting morbidity. Human adenoviruses (HAdVs) HAdV-D8, -D19, and -D37 are believed to...
to be the most common pathogens causing EKC. It is only recently that another organism has come to be associated with EKC. We observed a seasonal outbreak of Epidemic Keratoconjunctivitis (EKC) that clinically mimicked viral EKC, but was proven to be a microsporidial infection by laboratory investigations. Though EKC is usually caused by adenovirus type 8, 19 and 37, the association of microsporidia with EKC has not been studied so far. In this study, we plan to investigate the seasonal EKC that occurs in Odisha and other parts of the country year after year, and to characterize the adenovirus and microsporidia isolated from the environment as well as from patients with epidemic keratoconjunctivitis. The study will determine the clinical spectrum of the disease in patients and examine the interaction between the two organisms in the environment and in the patients, if any.

A multicentric masked randomized clinical study to assess the efficacy of 1% voriconazole eye drops compared to 5% natamycin eye drops in the treatment of mycotic keratitis

**Investigator:** Savitri Sharma, Sujata Das, Srikant K Sahu, Prashant Garg, Merle Fernandes

**Support:** Hyderabad Eye Research Foundation, India

Fungi are responsible for 20-44% of keratitis in India. Currently, fungal infections of the cornea are difficult to eradicate, as fungi often resist treatment. Amphotericin B and the azoles, ketoconazole and fluconazole are generally not very effective against Fusarium and Aspergillus. When available, natamycin is a good drug to treat fungal keratitis. However, treatment failures have been reported by several authors and the search for a better broadspectrum antifungal drug for the treatment of fungal keratitis is the need of the hour. In recent times, topical 1% voriconazole, with or without oral administration, has been shown to be effective in the treatment of refractory fungal keratitis caused by yeast as well as filamentous fungi. Current literature suggests a promising role of voriconazole in the treatment of fungal keratitis and given its better penetration this drug seems to emerge as a superior alternative to natamycin. However, a recently published clinical trial in 120 patients reported equal efficacy of 1% voriconazole (reconstituted from injection vial) and 5% natamycin eye drops in fungal keratitis in terms of visual acuity at 3 months, scar size and perforation of the cornea. The same study showed a trend towards 2-line improvement in visual acuity with voriconazole in patients whose baseline visual acuity was between 20/40 and 20/400. This study has several limitations such as the outcome measure of best spectacle corrected visual acuity, instead of healing of infiltrate, suboptimal frequency of dosing of the patients, failure to take prior treatment and depth of infiltrate to account for inclusion criteria, etc. The results of the study need validation, especially when 1% voriconazole eye drop is available in India. The purpose of this study is to compare the efficacy of 1% voriconazole eye drop to 5% natamycin eye drops, in a randomized, masked controlled trial for the treatment of small to medium sized fungal corneal ulcers.

**PhDs awarded in 2011**

Vidya Latha Parsam (Birla Institute of Technology & Science, Pilani, India)
Surya Prakash Goud Ponnam (University of Hyderabad, Hyderabad, India)
Srinivas Marmamula (University of New South Wales, Sydney, Australia)

**Research scholars at Prof Brien Holden Eye Research Centre**

**BASIC RESEARCH**

**Kallam Anji Reddy Molecular Genetics Laboratory**

**Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory**
Subhash Gaddipati, Murali Mohan Sagar, Shubha Tiwari, Vasundhara Vauhini, Mangalangi U, Savitri Maddileti

**Research Biochemistry Laboratory**
Venkata Pilla Rao

**Post-doctoral Research Associates**
Charanya Ramachandran, Rupa Koneni, Ramesh Babu K

**LVPEI, Bhubaneswar: Ocular Microbiology**
Sarita Kar, Praveen Kumar Balne

**CLINICAL RESEARCH**

**Study Optometrists**
Bidula Das, Rekha G, Anand K, Debasis Mohapatra, Veerendranath Pesala, Bikash Samal, Krushna Gopal Panda, Santanu Jana

**Clinical Research Coordinators**
Samuel Clement, Sateesh Kumar, Bikash Chandra Mohanta, Bibhutidas Mohanty, Savitha Narayan, Sridevi Rayasam, Preeti Semwal, Suman Thadishetti, Vishal Venu, Archana Digumarti, Kiran Kunaparaju

**Support staff**
Shobha Laxmi, Lokesh, Aparajita Mallick, Laxmipriya Pattanaik, Rupasree, Susant Kumar Sahoo, Preeti Tornal
### Basic Research Projects

<table>
<thead>
<tr>
<th>Name of the Project</th>
<th>Project Investigators</th>
<th>Supported by</th>
<th>Duration</th>
</tr>
</thead>
</table>
| Programme support on translational research on eye diseases | Project A: Dr Geeta K Vemuganti<sup>1</sup>  
Project B: Dr Chitra Kannabiran  
Project C: Dr Indereet Kaur  
Project D: Dr S Chakrabarti  
Project E: Prof D Balasubramanian | Department of Biotechnology, India | 2007-2012 |
| Cultivation and characterization of human lacrimal gland cells for potential clinical application for post radiotherapy xerophthalmia | Dr Geeta K Vemuganti<sup>1</sup>  
Dr Santosh G Honavar  
Dr Vijay Anand P Reddy<sup>2</sup>  
Dr Subhabrata Chakrabarti | International Atomic Energy Agency, Austria | 2008-2012 |
| Study of the role of vitreous liquefaction in age-related nuclear cataract | Prof D Balasubramanian  
Dr Pravin V Krishna | Department of Biotechnology, India | 2009-2011 |
| An advanced surface for the cell therapy of limbal epithelium for ocular surface disease: Proof of concept and clinical trials | Dr Virender S Sangwan  
Dr Indumathi Mariappan | Department of Biotechnology, India | 2008-2011 |
| Developing a global blueprint for zero PCG: Towards a complete understanding of the molecular basis of primary congenital glaucoma | Dr Partha P Majumder<sup>1</sup>  
Dr Luba Kalaydijeva<sup>1</sup>  
Dr Subhabrata Chakrabarti | Department of Biotechnology, India | 2008-2011 |
| Molecular characterization of nonsporulating filamentous fungi isolated from microbial keratitis | Dr G Ashok Kumar Reddy<sup>4</sup> | Council of Scientific & Industrial Research, India | 2009-2012 |
| Evaluation and characterization of cancer stem cells in retinoblastoma tumor | Dr Geeta K Vemuganti<sup>1</sup> | Indian Council of Medical Research, India | 2008-2011 |
| Genetic and phenotypic comparison of primary congenital glaucoma in India and Brazil | Dr Subhabrata Chakrabarti  
Dr Ivan M Tavares<sup>6</sup>  
Dr Monica Mello<sup>7</sup> | Department of Science & Technology, India | 2009-2012 |
| Central India Eye & Medical Study | Dr Subhabrata Chakrabarti  
Dr Jonas Jost<sup>2</sup>  
Dr Vinay Nangi<sup>2</sup> | University of Heidelberg, Germany | 2009 onwards |
| Genetic comparison of primary congenital glaucoma in India and Tunisia - understanding the possible founder effects | Dr Subhabrata Chakrabarti  
Prof G Fethi<sup>10</sup> | Department of Science & Technology, India | 2009-2011 |
| Generation of disease specific induced pluripotent stem cells from dermal fibroblasts of patients with retinal dystrophy | Dr Indumathi Mariappan  
Dr Chitra Kannabiran  
Dr Subhadra Jalali  
Dr Milind Naik | Department of Biotechnology, India | 2009-2011 |
| Molecular mechanism of pathogenesis of glaucoma caused by mutation in optineurin | Prof D Balasubramanian  
Dr Subhabrata Chakrabarti  
Dr Ghanshyam Swarup<sup>11</sup> | Department of Biotechnology, India | 2010-2013 |
| National Retinoblastoma Registry | Dr Santosh G Honavar  
Dr Himika Gupta | Indian Council of Medical Research, India | 2009-2012 |
| Development of a synthetic biodegradable cell carrier membrane for the transplantation of cultured cells or freshly excised autologous tissue (limbal segments or oral mucosa) for diseases of the cornea | Prof D Balasubramanian  
Dr Virender S Sangwan | Wellcome Trust, UK | 2010-2013 |
| Derivation of retinal neurons from ciliary pigmented epithelium of the human eye | Dr Indumathi Mariappan | Department of Science & Technology, India | 2010-2013 |
| Preservation and use of adult stem cells and the use of biomaterial scaffolds for clinical applications | Dr Virender S Sangwan  
Dr Jose D dos Santos<sup>12</sup> | Department of Science & Technology, India | 2011-2014 |
| Ocular infections caused by Staphylococcus species: Study of clinico-microbiologic features, virulence markers and genome profile | Dr Saviri Sharma  
Dr DV Singh<sup>13</sup> | Department of Science & Technology, India | 2009-2011 |
| Investigation of epidemic keratoconjunctivitis in Odisha and Andhra Pradesh: Epidemiological profile, clinical spectrum and molecular characterization of causative agents | Dr Saviri Sharma  
Dr G Ashok Kumar Reddy  
Dr BNR Subudhi<sup>14</sup> | Department of Biotechnology, India | 2010-2012 |
| Neural control of focusing and eye-alignment during visual development | Dr Shrikant Bharadwaj | Department of Biotechnology Ramalingaswami fellowship | 2010-2014 |

<sup>1</sup>University of Hyderabad, Hyderabad  
<sup>2</sup>Apollo Hospitals, Hyderabad  
<sup>3</sup>National Institute of Biomedical Genomics, Kalyani, West Bengal  
<sup>4</sup>University of Western Australia, Perth  
<sup>5</sup>GHR Micro Diagnostics, Hyderabad  
<sup>6</sup>University of Sao Paolo, Brazil  
<sup>7</sup>Campinas State University, Sao Paolo, Brazil  
<sup>8</sup>University of Heidelberg, Mannheim, Germany  
<sup>9</sup>Sura Eye Institute, Nagpur  
<sup>10</sup>Institut Salah Azaiz, Tunis, Tunisia  
<sup>11</sup>Centre for Cellular and Molecular Biology, Hyderabad  
<sup>12</sup>Biosckin-Rua Eng, Portugal  
<sup>13</sup>Institute of Life Sciences, Bhubaneswar  
<sup>14</sup>MKCG Medical College, Berhampur, Odisha
### Clinical Research Projects

<table>
<thead>
<tr>
<th>Name of the Project</th>
<th>Project Investigators</th>
<th>Supported by</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparative, randomized, open trial on the anti-inflammatory efficacy of diclofenac released from an intraocular lens versus administration of 0.1% diclofenac eye-drops in the prevention of post-operative inflammatory manifestations after cataract surgery. Ancillary study: One year follow-up of the safety</td>
<td>Dr Virender S Sangwan</td>
<td>IOL Tech Carl Zeiss MediTec, France</td>
<td>2006-2012</td>
</tr>
<tr>
<td>A double-masked, randomized, controlled phase III study of the efficacy, safety, and tolerability of repeated intravitreal administration of VEGF trap-eye in subjects with macular edema secondary to Central Retinal Vein Occlusion (CRVO)</td>
<td>Dr Raja Narayanan (Hyderabad) Dr Taraprasad Das (Bhubaneswar)</td>
<td>Regeneron Pharmaceuticals Inc., USA</td>
<td>2010-2012</td>
</tr>
<tr>
<td>MMT (Maximum available Medical Therapy) Study: A multicenter, open-label study to evaluate the safety and efficacy of twice-daily 0.01% Bimatoprost/0.15% Brimonidine/0.5% Timolol ophthalmic solution (triple combination) in patients in India, who have glaucoma or ocular hypertension with elevated IOP, and are on twice-daily 0.2% Brimonidine/0.5% Timolol ophthalmic solution (dual combination) therapy</td>
<td>Dr Vanita Pathak-Ray</td>
<td>Allergan, USA</td>
<td>2010-2011</td>
</tr>
<tr>
<td>A study of unilateral retinoblastoma with and without histopathologic high-risk features and the role of adjuvant chemotherapy – a groupwide phase III study</td>
<td>Dr Santosh G Honavar</td>
<td>National Childhood Cancer Foundation, USA</td>
<td>2009-2014</td>
</tr>
<tr>
<td>Pilot study in preparation for the Ganciclovir-Intravitreous versus Systemic-CytomegaloVirus Retinitis trial (Pilot GIVCyT)</td>
<td>Dr Annie Mathai</td>
<td>National Institutes of Health, USA</td>
<td>2010-2011</td>
</tr>
<tr>
<td>A phase II prospective, randomized, multi-centre, diabetic macular edema dose ranging, comparator study evaluating the efficacy and safety of PF-04523635 versus laser therapy (DEGAS)</td>
<td>Dr Soumyava Basu</td>
<td>Pfizer, USA</td>
<td>2010-2012</td>
</tr>
<tr>
<td>Sakura Uveitis Study: 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</td>
<td>Dr Somasheela Murthy (Hyderabad) Dr Soumyava Basu (Bhubaneswar)</td>
<td>Santen, USA</td>
<td>2012-2013</td>
</tr>
<tr>
<td>Laser Dazzler: Evaluate safety and efficacy of Laser Dazzler</td>
<td>Dr Subhadra Jalali</td>
<td>DRDO, New Delhi</td>
<td>2012 onwards</td>
</tr>
<tr>
<td>MK (Merck) 2452 glaucoma trial: A phase III, randomized, active comparator-controlled, four-week, double-masked clinical trial to compare the efficacy and safety of preservative-free MK-2452 (0.0015%) and preservative-free Timolol Maleate (0.5%) in patients with open-angle glaucoma or ocular hypertension in India</td>
<td>Dr Sirisha Senthil</td>
<td>MSD, USA</td>
<td>2012 onwards</td>
</tr>
<tr>
<td>Needling Study: Efficacy and safety of needling with adjunctive MMC injection of failing or failed blebs</td>
<td>Dr Vanita Pathak-Ray</td>
<td>Hyderabad Eye Research Foundation</td>
<td>June 2010 onwards</td>
</tr>
<tr>
<td>Voriconazole Study: Efficacy of 1% voriconazole compared to 5% Natamycin drops in the treatment of mycotic keratitis</td>
<td>Dr Savitri Sharma Dr Prashant Garg Dr Merle Fernandes</td>
<td>Aurkor, Aravind Eye Care System, Madurai, Hyderabad Eye Research Foundation</td>
<td>November 2010 onwards</td>
</tr>
<tr>
<td>UBM (Ultrasound Biomicroscopy) Study: Angle morphology by gonioscopy, anterior segment OCT (Visante) and ultrasound biomicroscopy (UBM) following laser peripheral iridotomy (LPI) in primary angle closure (PAC) in Indian eyes</td>
<td>Dr Vanita Pathak-Ray</td>
<td>Hyderabad Eye Research Foundation</td>
<td>2011-2012</td>
</tr>
<tr>
<td>RCT glaucoma trial</td>
<td>Dr Sirisha Senthil</td>
<td>Hyderabad Eye Research Foundation</td>
<td>2011-2012</td>
</tr>
<tr>
<td>BRANVO (Branch Retinal Vein Occlusion) Study: A randomized, double-masked, controlled study of the efficacy, safety, and tolerability of repeated intravitreal administration of Ranibizumab versus Bevacizumab in subjects with macular edema secondary to branch retinal vein occlusion</td>
<td>Dr Taraprasad Das</td>
<td>Hyderabad Eye Research Foundation</td>
<td>2012-2013</td>
</tr>
<tr>
<td>The L V Prasad Eye And Diabetes Study (LEADS) is a prospective evaluation of the eye and systemic conditions in self-reported diabetes in a tertiary eye care institute located in eastern India.</td>
<td>Dr Taraprasad Das</td>
<td>Hyderabad Eye Research Foundation</td>
<td>November - December 2011</td>
</tr>
</tbody>
</table>

*Operations Research on pages 60-61.*
Publications


123. Rao A. Isolated bilateral congenital iris spincter agenesis. Case Reports in Ophthalmol Medicine 2011; Article ID 479092


130. Rao HL, Babu JG, Addepalii UK, Senthil S, Garudadri CS. Retinal nerve fiber layer and macular inner retina measurements by spectral domain optical coherence tomography in Indian eyes with early glaucoma. Eye (Lond) 2012; 26: 133-9


136. Rathy VM, Vyas SP, Sangwan VS. Phototherapeutic keratectomy. Ind J Ophthalmol 2012; 60: 5-14


144. Sachdeva V. Nutritional and toxic optic neuropathies, in Postgraduate Ophthalmology ed by Zia Chaudhuri and M Vanathi. New Delhi, Jaypee, 2011


150. Sangwan VS, Jain V, Venuganti GK, Murthy SI. Vernal keratoconjunctivitis with limbal stem cell deficiency. Cornea 2011; 30: 491-6


Presentations

In addition to these presentations, our faculty participated in other international/national scientific and nonscientific forums during the year. Faculty members also organised and presented at LVPEI meetings and CME programs. At several meetings multiple presentations were made.

Mohammad Javed Ali
International Society of Dacryology and Dry Eyes (ISDDE) meeting, Manila, Philippines. November 30 – December 2, 2011 (Speaker)
Topics: Canalicular trephination: What’s old is new again!
Acute dacryocystitis: Management and outcomes
Capillary hemangioma: Management updates
Canaliculitis: Clinicobiological profiles & outcomes
SADO and facial trauma
Zhongshan Ophthalmic Center, Guangzhou, China. December 6-7, 2011 (Speaker)
Topics: Endonasal revision DCR: Challenging cases
Challenging cases in endonasal lacrimal surgeries
National University Hospital of Singapore (NUHS), Singapore. December 10, 2011 (Speaker, quizmaster)
Topic: Minimally invasive placement of bypass tubes
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Speaker)
Topics: Adult balloon DCP
Canaliculitis – workable solutions
Endoscopic CDCR
DCR: Cornerstone in the evolution of dacryology
National Cipla All India Web Conference, Hyderabad. August 2011 (Speaker)
Topic: Surgical manoeuvres in external DCR
International Association of Pathologists – India Division (IAP-ID) conference, Hyderabad. August 2, 2011 (Speaker)
Topic: Retinoblastoma for the pathologists
Vasan meet, Chennai. September 11-13, 2011 (Speaker)
Topics: Importance of nasal endoscopy for ophthalmologists
Endoscopic CDCR: No blocks acceptable
Sisler’s canalicular trephining
35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Speaker)
Topics: Self-linking stents in pediatric DCRs
CDCR-advancing frontiers
Endonasal revision DCRs
Imaging in ophthalmic plastics
Principles of chemotherapy and radiotherapy
Ophthalmic Plastics CME, Sankar Foundation Eye Hospital, Visakhapatnam. November 2011 (Speaker)
Topics: Congenital NLD obstruction, what you must know
Tips for a successful external DCR
70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Speaker)
Topic: Importance of nasal endoscopy
Canaliculitis – workable solutions
Revision endonasal DCRs
Endoscopic CDCR
RB1 gene mutations and clinical correlations
Lacrimal trauma

Bhupesh Bagga
National Annual meeting of Delhi Ophthalmological Society, Delhi. April 15-17, 2011 (Speaker)
Topic: Medical and surgical management of acanthamoeba keratitis
Haryana Ophthalmic Society meeting, Rohtak. November 2, 2011 (Faculty)
Topic: Deep lamellar keratoplasty in infectious keratitis
70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012
Free paper: Comparison of deep anterior lamellar keratoplasty and penetrating keratoplasty in acanthamoeba keratitis

Deepak Kumar Bagga
National 19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Quality of life associated with glaucoma
RetinAware 2011, national convention of Retina India, New Delhi. September 24-25, 2011 (Faculty)
Topic: Assistive technology – an update

Divya Balakrishna
International 6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Evolving trends of retinopathy of prematurity over a decade

D Balasubramanian
International Officers meeting of TWAS, the academy of sciences for the developing world, Paris, France. April 18-19, 2011 (Secretary General, Speaker)
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011 (Poster, advocacy group meetings, Indo-US bilateral program group, and ARVO Chapters)
1st Annual Coimbra Champalimaud Symposium, Coimbra, Portugal. June 16, 2011 (Speaker)
Portuguese Ophthalmic Society annual meeting, Coimbra, Portugal. June 17, 2011 (Speaker)
Topic: Optineurin
3rd Annual Stem Cells Asia & Regenerative Medicine Congress, International Society for Stem Cell Research, Singapore. October 11-13, 2011 (Speaker)
22nd General Meeting of TWAS, Trieste, Italy. November 21-23, 2011 (Attended)
Sayan Basu
International
17th annual meeting of International Ocular Surface Society (IOSS), Hollywood, FL, USA, April 30, 2011
Paper: Limbal stem cell deficiency in eyes with long-standing vernal keratoconjunctivitis

Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA, May 1-5, 2011
Posters: Correlation of angle morphology with progression of glaucoma in eyes with Boston Type 1 Keratoprosthesis Corneal allograft survival after penetrating keratoplasty and cultivated limbal epithelial transplantation

Soomyava Basu
International
Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI) in Goa. November 13-16, 2011 (Panelist, speaker)
Topic: Tubercular uveitis: New directions to an old disease

National
XII Plan Review of Tata Institute of Fundamental Research, Mumbai. February 11, 2012 (Attended)
Birla Institute of Technology & Science, Goa. February 15-17, 2012 (Prof Lakshminarayanan Centenary Oration)

Standing Committee on Promotions & Assessment, Indian Institute of Science, Bengaluru. March 11, 2012 (Attended)
Cell Biology Based Therapeutic Drug Evaluation Committee meeting, Drugs Controller General of India, New Delhi. March 12, 2012 (Attended)
Celebrating 25 years of
Shrikant Bharadwaj
International Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011 (Poster)
Topics: How is near vision optimized in the typically developing pediatric population?
How does anisometropia of various forms impact visual functions?

Subhabrata Chakrabarti
International Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011 (Speaker)
Topic: Genome-wide association study in primary congenital glaucoma

National
World Optometry Day program, University of Hyderabad, Hyderabad. March 27, 2012 (Speaker)
Topic: Bridging the gap between basic science and clinical research

Naveen Kumar Challa
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011 (Speaker)
Topic: Nature of L- and M-cone input to cone-opponent and non-opponent mechanisms as a function of retinal eccentricity
World Optometry Day celebrations, School of Medical Sciences, University of Hyderabad, Hyderabad. March 27-28, 2012 (Faculty)
Topic: Research opportunities in optometry

Deepa Chitta
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Functional and anatomical outcomes of surgical intervention in Zone III open globe injuries

Nikhil S Choudhari
International
115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011 Video: Repairing Goldmann applanation tonometer is easy!
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Speaker)
Topic: Pediatric benign intracranial hypertension

National
“Glaucoma Unplugged,” XXI annual meeting of Glaucoma Society of India, Mumbai. October 7-9, 2011 (Faculty)
Topic: Gene therapy and glaucoma: Implications of ongoing research
Annual Guha Research Conference, Khimsar, Rajasthan. December 1-5, 2011 (Speaker)
Topic: Genomics of primary congenital glaucoma: A global perspective

CME, Golden Jubilee celebrations of Sarojini Devi Eye Hospital, Hyderabad. July 17, 2011 (Faculty)
Topic: Evaluation of the optic disc
CME, Ganapati Netralaya, Jalna. July 24, 2011 (Speaker)
Topics: Trabeculectomy in difficult situations
Glucoma drainage devices
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011 Free paper: Repairing Goldmann applanation tonometer is easy!
“Glaucoma Unplugged”, XXI annual meeting of Glaucoma Society of India, Mumbai. October 7-9, 2011 Video: Repairing Goldmann applanation tonometer is easy!
Glaucma Workshop, Allergan, Chennai. January 22, 2012 (Faculty)
Topic: Misdiagnosis of glaucoma

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Faculty)
Topics: True versus pseudo optic disc edema
Avoiding errors in applanation tonometry
Management of choroidal detachment
Posters: Repairing Goldmann applanation tonometer is easy!
Outcomes of trabeculectomy in juvenile open angle glaucoma
Video: Repairing Goldmann applanation tonometer is easy!
CME, Chaitanya Eye Hospital and Research Institute, Thrivanathapuram. February 6, 2012 (Speaker)
Topic: Optic disc evaluation
Srikanth D
National
35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Faculty)
“Overview of contact lenses”, Continuing Professional Education program, Alcon, Bengaluru. November 19, 2011 (Speaker)
World Optometry Day Workshop on Contact Lenses, Ridley School of Optometry, Jorhat, Assam. March 2012 (Speaker)

Sujata Das
International
45th annual meeting of Ocular Microbiology and Immunology Group (OMIG), Orlando, USA. October 22-25, 2011 (Speaker)
Topic: Therapeutic keratoplasty and patch graft
Poster: Clinical outcomes of xeno-free allogenic cultivated limbal epithelial transplantation

National
International Academy of Pathology – Indian Division (IAP-ID) meeting, Hyderabad. August 1, 2011 (Faculty)
Topic: CPC of corneal infections

CME on “Tackling Infections in Ophthalmic Surgery”, Bhubaneswar. October 2, 2011 (Faculty)
Topic: Role of preoperative evaluation & prophylaxis in preventing infections

Winter meeting of the Indian Society of Cornea & Keratorefractive Surgeons (ISCKRS), New Delhi. December 3-4, 2011 (Speaker)
Topic: Management of recalcitrant keratitis

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Faculty)
Topic: Challenges and tips for management of corneal ulcer
Clinical evaluation of a case of corneal ulcer
My no. 1 pearl in cornea
Sclero corneal patch graft for tunnel infection

Taraprasad Das
International
Retina Sri Lanka meeting, Colombo, Sri Lanka. June 23-24, 2011 (Guest of Honor, faculty)
Topic: EVS & its current relevance in management of acute post-operative endophthalmitis

6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: CATT Impact

World Ophthalmology Congress, Middle East Africa Council of Ophthalmology and International Council of Ophthalmology, Abu Dhabi, UAE. February 16-20, 2012 (Speaker)
Topic: Pharmacotherapy in wet AMD

National
Indian AMD & Retina Congress, Alcon, Hyderabad. June 25 -26, 2011 (Faculty)
Topic: Safety issues in anti VEGF selection

VISION 2020 India, Kanpur. July 22-23, 2011 (Faculty)
Topic: How do we provide comprehensive eye care services through the Vision Centres – the LVPEI experience?

Vivek Dave
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Clinical profile and management of familial exudative vitreoretinopathy
A cause of late-onset vitreous haemorrhage in regressed ROP

Merle Fernandes
International
EuCornea meeting, Vienna, Austria. September 16, 2011
Free paper: Emergence of pan-drug resistant pseudomonas aeruginosa keratitis as a cause of microbial keratitis

European Society of Cataract & Refractive Surgeons meeting, Vienna, Austria. September 17-21, 2011 (Faculty)
Topics: Pediatric cataract: Hard facts about soft cataracts
Early outcome of diffractive multifocal IOL implantation in Indian population

National
CME, Visakhapatnam Steel Plant, Visakhapatnam. April 16, 2011 (Speaker)
Topic: Ocular emergencies

35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Faculty, invited speaker, judge)
Topics: All that itches is not allergy
Herpes simplex keratitis and fungal keratitis
Pediatric cataract surgery
Managing pediatric cataracts

CME on Eye Donation, World Sight Day, Visakhapatnam Steel Plant, Visakhapatnam. October 8, 2011 (Speaker)
CME: Kakinada Ophthalmic Association, Kakinada. January 14, 2012 (Faculty)
Topic: Diagnosis and management of microbial keratitis

Subhash Gaddipati
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Outcome of cultivated oral mucosal epithelial transplantations (COMET) for bilateral severe limbal stem cell deficiency

Prashant Garg
International
CAFE Advisory Board meeting, Alcon International, Singapore. June 16-18, 2011 (Attended)
Flying Eye Hospital program, ORBIS, Mongolia. June 19-23, 2011 (Volunteer faculty)
Investigators meeting under UK-India collaborative group, Scarborough, UK. July 25-29, 2011 (Invited participant)
MD Ophthalmology exams, University of Nairobi, Kenya. August 15-19, 2011 (Faculty)
Topics: Pediatric cataract: Hard facts about soft cataracts
Managing pediatric cataracts

MD Ophthalmology exams, University of Nairobi, Kenya. August 15-19, 2011 (Examiner)

41st Cambridge Ophthalmological Symposium, St. John’s College, Cambridge, UK. September 6-9, 2011 (Volunteer faculty)
MD Ophthalmology exams, University of Nairobi, Kenya. August 15-19, 2011 (Examiner)

41st Cambridge Ophthalmological Symposium, St. John’s College, Cambridge, UK. September 6-9, 2011 (Speaker)
Topic: Diagnosis and management of corneal infection: A case-based discussion
Poster co-author: Microbial keratitis following endothelial keratoplasty
“Corneal Symposium: Current Therapies, Novel Approaches, and Challenging Cases,” Taiwan National University, Taiwan. February 11, 2012 (Speaker)

Topic: Emerging challenges in corneal infections

National
Alcon Advisory Board Meeting, Agra. April 14, 2011 (Attended)
CME on recent advances in cornea transplantation, Lucknow Ophthalmic Society, Lucknow. April 22, 2011 (Speaker)
CME on the 50 years’ celebrations of Dr Thakorbhai Patel Eye Centre, Vadodara. April 23, 2011 (Speaker)
Cornea & Eye Banking CME, Little Flower Hospital, Angamaly, Kerala. July 17, 2011 (Speaker)

Topic: Emerging challenges in microbial keratitis management

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Speaker)
”Cornea Unplugged – The Way Forward”, LVPEI, Hyderabad. March 3-4, 2012 (Organizing Secretary)

Topic: Microbial keratitis management – one step forward one backward

Usha Gopinathan
International
50th annual meeting of Eye Bank Association of America (EBAA), Arizona, Tucson, USA, June 21-27, 2011 (Faculty)
CME, Islamia Eye Hospital and M A Ispahani Institute of Ophthalmology, Bangladesh. July 18-21, 2011 (Faculty)
Association of Eye Banks of Asia meeting, Colombo, Sri Lanka. September 29-30, 2011 (Faculty)
World Ophthalmology Congress, Middle East Africa Council of Ophthalmology and International Council of Ophthalmology, Abu Dhabi, UAE. February 16-20, 2012 (Faculty)

National
Eye Bank Association of India (EBAI) Accreditation Board meeting, New Delhi. May 11, 2011 (Faculty)
Senior Leadership Meeting, organised by SightLife (Seattle), Prova Eye Bank, Kolkata. September 22-24, 2011 (Faculty)
3rd national CME Workshop on Eye Banking & Cornea Trendz, Abhinav Drishti Eye Hospital and Eye Bank Association of India, Lucknow. November 26-27, 2011 (Faculty)
70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Faculty, EBAI session)

Subhadra Jalali
International
Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011 (Speaker)
Topics: Vitreoretinal surgical procedures in chronic uveitis
Anti-VEGF in inflammatory ocular neovascularization
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Chair, Local Organising Committee, speaker)

Topic: Clinical and electrophysiological correlation of hereditary retinal degenerations
Free papers: Supine spectral domain ocular coherence tomogram (SD-OCT) for pediatric patients examined under general anaesthesia
Complications of intravitreal Bevacizumab in retinopathy of prematurity

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Speaker)

Topic: Do’s and don’ts in ROP management

National
Launch of Lucentis for DME, Novartis, Mumbai. May 26, 2011 (Chair, panelist)
Topic: Lucentis in diabetic macular edema
Ozurdex review meet, Allergan, Kolkata. June 11, 2011 (Chief guest, speaker)
Topic: Preliminary experiences in use of Ozurdex implants and review of the use of Ozurdex in retinal vein occlusions

4th Indian ARMD meet, Novartis, Hyderabad. June 25-26, 2011 (Speaker)
Topics: Multifocal ERG: Technique and advantages
Degenerative diseases of retina: Clinical and electrophysiological considerations
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Complications of intravitreal Bevacizumab in retinopathy of prematurity: The Indian Twin Cities ROP Screening (ITCROPS) database report number 5
Retina Update, Round Table meeting, Novartis, Hyderabad. September 4, 2011 (Speaker)
Topic: Recent advances in ROP management
Goa Ophthalmological Society meeting, Goa. September 11, 2011 (Speaker)
Topic: Retinopathy of prematurity: Screening and management issues
Allergan Ozurdex Advisory Board meeting, New Delhi. September 18, 2011 (Speaker)
Topic: Evaluation and management of non-infectious uveitis
RetinAware 2011, national convention of Retina India, New Delhi. September 24-25, 2011 (Speaker)
Topics: Leber’s congenital amaurosis
Current management of retinitis pigmentosa
Indian Bionic Eye Initiative, Department of Science and Technology, New Delhi. September 26, 2011 (Panelist)
Topic: Surgeons’ perspective on the bionic eye
Critical Care Fetal Outcome Workshop, Fernandez Maternity Hospital, Hyderabad. October 8, 2011 (Speaker)
Topic: Neonatal retinal infections

Parthasarathi Kalaiselvan
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Management of post LASIK keratectasia

Chitra Kannabiran
International
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Chair, speaker)
National
Seminar on “Genetics of Hereditary Retinal Degeneration,” Centre for Human Genetics, Bengaluru. April 2011 (Speaker)
RetinAware 2011, a national consultation in retinal diseases, Retina India Foundation, New Delhi. September 24-25, 2011 (Speaker)
Topic: Genetics of retinal diseases

International symposium on “Genetics in Ophthalmology”, 70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Faculty)

UGC-SAP seminar on “Genomics of Complex Diseases”, Guru Nanak Dev University, Amritsar. March 2, 2012 (Speaker)
Topic: Genetics of corneal dystrophies

Inderjeet Kaur
International
Pfizer Ophthalmic Research Institute/Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. April 29-30, 2011 (Speaker)
Topic: Glaucoma genetics: Differences in ethnic groups (biomarkers for glaucoma)

Ramesh Kekunnaya
International
36th Indonesian Ophthalmologists Association annual meeting, Manado, Indonesia. September 30 – October 2, 2011 (Speaker, moderator, chair)
Topics: Management of superior oblique palsy
  Management of cranial nerve palsy
  Video based strabismus surgery
  IOL calculation formulae in children
  Pediatric cataract surgical tips
  Management of childhood nystagmus

115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011 (Speaker, faculty)
Topics: Do study design and methodology affect pediatric cataract surgery outcome?
  Strabismus surgery: A comprehensive approach
  What’s new in pediatric ophthalmology in 2011?

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Organizing Secretary)

World Ophthalmology Congress, Middle East Africa Council of Ophthalmology and International Council of Ophthalmology, Abu Dhabi, UAE. February 16-20, 2012 (Speaker)
Topics: Aniridia
  When to give up patching?
Free papers: Management of horizontal deviation in congenital superior oblique palsy
Secondary IOL in children: A decade long analysis
Video: Topical anesthesia strabismus surgery

Jakarta Eye Center International Meeting 2012, Jakarta. March 3-4, 2012 (Chair, symposium, speaker)
Topics: IOL calculations in children
  How studies affect pediatric cataract outcome?

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Organizing Secretary)

Rohit Khanna
International
International Agency for the Prevention of Blindness (IAPB) Council of Members meeting, Dubai. September 12-14, 2011 (Attended)
115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011
Poster: Risk factors for endophthalmitis at a tertiary care center in India: A matched case-control study

Manav Khera
International
Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011
Free paper: Amikacin and ceftazidime resistant gram negative post-operative bacterial endophthalmitis
Nageswara Rao Kollu
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Variations at the 7q31 locus harbouring CAVI and CAV2 are not associated with primary glaucomas in an Indian population
Panjab University, Chandigarh. March 3-5, 2012
Paper: Molecular genetic analysis of intraocular pressure (IOP) related glaucomas in Indian population

Pravin V Krishna
International
West Java Ophthalmic Society annual meeting, Bandung, Indonesia. March 30 – April 1, 2011 (Speaker)
American Society of Cataract and Refractive Surgery meeting, San Diego, USA. April 2011 (Speaker)
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011 (Presenter)
Meeting of Cornea External Diseases Association, Ft Lauderdale, FL, USA. May 2, 2011 (Speaker)
Bioptigen users meeting, Bioptigen Inc, Ft Lauderdale, FL, USA. May 5, 2011 (Speaker)
115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011 (Speaker, faculty)
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad.
February 12-14, 2012 (Chair, speaker)
World Ophthalmology Congress, Middle East Africa Council of Ophthalmology and International Council of Ophthalmology, Abu Dhabi, UAE. February 16-20, 2012 (Speaker, faculty)

National
35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011
Eyedu 2011, Eye Education Foundation, Mangalore.
October 1-2, 2011 (Speaker)
CME: What’s New in Ophthalmology, Maharashtra Institute of Medical Sciences and Research, Latur, Maharashtra. November 13-14, 2011 (Speaker)
Eyedu 2011, Eye Education Foundation, Faridabad/Gurgaon.
December 9-10, 2011 (Speaker)
Cataract and Refractive Surgery Update, Hyderabad Ophthalmology Association, Hyderabad. January 22, 2012 (Speaker)
Postgraduate update program, Guntur Medical College, Guntur.
January 28, 2012 (Speaker)
70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Speaker, faculty, poster)
Refractive Surgery Update, Laser Vision Eye Center, Hyderabad.
February 25, 2012 (Speaker)

Kshitij Kumar
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker, faculty)
Topic: Presentation of atypical ocular toxoplasmosis in a tertiary centre in southern India

Savitri Maddileti
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Plasma polymer coated therapeutic contact lenses for the expansion and delivery of limbal epithelial cells

Ajit Babu Majji
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Faculty, chair, sessions)
Poster: Disc pit with macular detachment

National
62nd annual conference of Delhi Ophthalmological Society.
Delhi. April 15-17, 2011 (Speaker, judge)
Topics: Diabetic retinopathy: Epidemiologic initiatives
Posurdx trial in patients with retinal vein occlusions
“Reticon,” a retina conference with live surgery, Agarwal Retina Foundation, Chennai. May 8, 2011 (Speaker)
Topics: Management of post-operative endophthalmitis
Management of retinal vein occlusions

5th annual AMD Conference, Novartis, Hyderabad.
June 25-26, 2011 (Speaker)
Topics: High resolution ultrasound, what more it offers?
Intraocular Implant & Refractive Society – India conference, Chennai. July 9-10, 2011 (Speaker, Co-convenor, session)
Topics: Diabetic retinopathy: Challenges ahead
Management of fungal endophthalmitis
Bombay Ophthalmological Conference, Bombay Ophthalmic Association, Mumbai. August 27-28, 2011 (Speaker, chair, session)
Topics: Diabetic retinopathy: Challenging cases
Fungal endophthalmitis: Clinical presentation and management

Orissa State Ophthalmological Society annual meeting, Berhampur, Odisha. November 12-13, 2011 (Speaker)
Topics: What to look for in a patient with diabetes
Management of fungal endophthalmitis
East Zone Ophthalmologic Conference and West Bengal State Ophthalmological Society meeting, Kolkata, November 26-27, 2011 (Judge, speaker, panelist)
Topic: Fungal endophthalmitis: Clinical presentation and management

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi, February 2-5, 2012 (Free papers, speaker, chair, sessions, judge, faculty)
Topics: Hydrophilic intraocular lens as a cause of an outbreak of post-cataract Pseudomonas endophthalmitis
How to publish interesting case presentations
Macular edemas
What would be an ideal screening program
CME, Rourkela Ophthalmic Association and Department of Ophthalmology of Rourkela Steel Plant, Rourkela, Odisha, February 19, 2012 (Speaker)
Topic: Role of anti-VEGF agents in age related macular degeneration
Conference on Glued Intraocular Lens, Agarwal Retina Foundation, Hyderabad: March 18, 2012 (Speaker)
Topic: Vitrectomy tips in posterior capsule rupture
Hyderabad Ophthalmic Association meeting, Hyderabad, March 25, 2012 (Speaker)
Topics: Surgery for post-operative endophthalmitis
Buckling combined with vitreous surgery! Do we still need to combine?
PDR: Surgical indications

Anil K Mandal
International
Pediatric Glaucoma Clinical Meeting, The College of Ophthalmologists of Sri Lanka, Colombo, Sri Lanka, June 5, 2011 (Faculty)
Topic: Management of congenital glaucoma

World Glaucoma Congress, Paris, France, June 29 – July 2, 2011 (Chair, sessions, faculty, videos)
Topics: Combined trabeculotomy-trabeculectomy – long term results and visual outcome
Videos: Twenty years of comprehensive care for children with congenital glaucoma
Surgical outcome of early onset glaucoma in children with Axenfeld Rieger anomaly
The differential diagnosis of Descemet’s tears (Haab’s Scler) and surgical outcome of infantile glaucoma presented with acute hydrops
Poster co-author: The clinical experience and surgical outcome in treating patients of phacomatosis pigmentovascularis with glaucoma at a tertiary eye care centre

Indo-Brazil Collaborative meeting, Centro de Oftalmologia Especializada, Rio, Brazil, July 4-7, 2011 (Faculty)
Topic: Twenty years experience on congenital glaucoma

Department of Ophthalmology, University of Campinas, Sao Paulo, Brazil, July 7, 2011 (Faculty)
Topic: Comprehensive care for children with developmental glaucoma

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad, February 12-14, 2012 (Faculty)
Topic: Overview of congenital glaucoma management
Videos: The differential diagnosis of Descemet’s tears (Haab’s Scler)
Surgical outcome of infantile glaucoma presented with acute corneal hydrops

National
30th annual CME program, Sarojini Devi Eye Hospital, Hyderabad, July 18, 2011 (Faculty)
Topic: Long-term management and follow-up of children with developmental glaucoma
CME program, Hyderabad Ophthalmic Association, Hyderabad, August 28, 2011 (Faculty)
Topic: Step by step trabeculectomy
Multidisciplinary consultative meeting (to develop operational guidelines for developmental screening and early intervention services – 0-3 years), Raichak, West Bengal, January 24-26, 2012 (Attended)
Topic: Newborn glaucoma

Preeji Mandathara
International
British Contact Lens Association meeting (BCLA), Manchester, UK, May 26-29, 2011
Poster: Corneal erosions with silicone hydrogel lens wear in India

National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad, July 30-31, 2011
Posters: Corneal erosions with silicone hydrogel lens wear in India
RGP contact lens fitting in keratoconus using Fitscan technology

35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore, September 23-25, 2011 (Faculty)
Topic: Spherical soft and soft toric contact lens fitting
Kerala Ophthalmic Surgeons’ meeting, Thrissur, Kerala, September 25, 2011 (Speaker)
Topic: Newer contact lenses for keratoconus

“Overview of contact lenses”, Continuing Professional Education program, Alcon, Bengaluru, November 19, 2011 (Speaker)

Indumathi Mariappan
International
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA, May 1-5, 2011
Poster: Characterization and differentiation of induced pluripotent stem cells (iPSCs) towards retinal lineages

Cell Symposia on Stem Cell Programming & Reprogramming, Cell Press meeting, Lisbon, Portugal, December 8-10, 2011
Poster: Derivation of retinal cell types from induced pluripotent stem cells (iPSCs)

BioSkin, Porto, Portugal, December 12, 2011 (Speaker)
Topic: Stem cells for ocular therapy

National
Winter Symposium, Centre for Stem Cell Research, Christian Medical College, Vellore, January 5-7, 2012 (Speaker)
Topic: IPS cells for understanding ocular disorders

Srinivas Marmamula
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad, July 30-31, 2011
Poster: Uncorrected refractive errors, presbyopia and spectacle coverage in Vijayawada region in south India

Eye teach workshop, India Vision Institute, Hyderabad, October 18-19, 2011 (Speaker)
Topic: Public eye health, the road less travelled
Topic: Epidemiology of uncorrected refractive errors & presbyopia

Annie Mathai
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: A systematic approach to the management of diabetic macular edema

National
Retina Update, Round Table meeting, Novartis, Hyderabad. September 4, 2011 (Speaker)
Topic: Current and future treatments of dry age related macular degeneration

Hyderabad Ophthalmic Association meeting, Hyderabad. March 25, 2012 (Speaker)
Topics: Autofluorescence and age related macular degeneration
Current management of macular edema secondary to retinal vein occlusions

Vaibhev Mittal
International
Free paper: Epidemiology and clinical presentation of esotropia
Case presentation: Avulsed muscles – unique case series

Ashik Mohamed
International
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011 (Poster)
Topic: Mechanical properties of human lens capsule assessed ex vivo in a lens stretcher

National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Paper: Ultrastructural features of nuclear cataracts with different morphologies

Thadikonda Seminar on “Recent Developments in Pharmaceutical Sciences”, LVPEI, Hyderabad. August 22, 2011 (Speaker)
Topic: Refilling the human eye lens with synthetic polymers

XXXIV All India Cell Biology Conference and Symposium on Membrane Dynamics & Disease, National Institute of Science, Education and Research, Bhubaneswar. December 16-18, 2011 (Poster)
Human age-related nuclear cataracts with different morphologies display distinctive ultrastructural features

Sumit Monga
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Surgical management in persistent fetal vasculature syndrome (PFVS)

Somasheila Murthy
International
ORBIS hospital-based training program, Phu To, Vietnam. May 16-21, 2011 (Volunteer/invited faculty)

Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011 (Organizing Committee member)

Annual meeting of International Society of Ocular Pharmacotherapeutics, Vienna, Austria. December 1-4, 2011 (Free paper, posters)

National
62nd annual meeting of Delhi Ophthalmological Society, Delhi. April 15-17, 2011 (Speaker)

CME on “Ocular Surface Disease”, K G Patel Children’s Hospital & Sameep Eye Hospital, Vadodara. July 9-10, 2011 (Speaker)

Annual postgraduate CME, Sarojini Devi Eye Hospital, Hyderabad. July 22, 2011 (Speaker)

Bombay Ophthalmologists Association annual meeting, Mumbai. August 28, 2011 (Speaker)

35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Speaker)

CME, EYE Education Foundation, Manipal and Mangalore. October 1-2, 2011 (Speaker)

Maharashtra Ophthalmological State Conference, Pune. October 22-23, 2011 (Speaker)

Allergan Uveitis Advisory Board meeting, Goa. November 12, 2011 (Attended)

CME, EYE Education Foundation, Gurgaon, and Postgraduate Institute of Ophthalmology, Chandigarh. December 9-10, 2011 (Speaker)

CME on newer refractive surgical procedures, Carl Zeiss Meditec, Mumbai. December 17, 2011 (Speaker)

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Free paper, poster, speaker)

“Cornea Unplugged – The Way Forward”, LVPEI, Hyderabad. March 3-4, 2012 (Organizing Committee member)

Cornea CME, Hyderabad Ophthalmology Association, Hyderabad. March 10, 2012 (Speaker)

Ganeswara Rao Musada
International
Poster: Molecular genetic analysis of Norrie Disease Pseudoglioma (NDP) gene and Tetraspanin 12 (TSPAN12) gene in Indian familial exudative vitreoretinopathy (FEVR) patients

National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Molecular genetic analysis of Norrie Disease Pseudoglioma (NDP) gene and Tetraspanin 12 (TSPAN12) gene in Indian familial exudative vitreoretinopathy (FEVR) patients

Jyotsna Myneni
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Electrophotogram changes in ocular ischemic syndrome
T Nagachandrika

National

19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011

Free paper: Is rod function normal in subjects with rod monochromatism?

Raja Narayanan

International

American Society of Retina Specialists annual meeting, Boston, USA. August 20-24, 2011 (Papers, posters)

Topics: Segmental buckle
Avastin in SRNVM secondary to macular telangiectasis
Vitrectomy with silicone oil injection in idiopathic macular hole
ERG changes after PASCAL and standard laser PRP in proliferative diabetic retinopathy
OCT features of CNVM secondary to CSR
Natural history of macular telangiectasia

6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Faculty)

Topics: Role of evaluation of macular pigment density in ARMD
Mysterious dots
Multidrug resistant endophthalmitis
Variable intraocular tamponade during vitreo retinal surgery

National

3rd RETNETMEET – India, Bengaluru. July 9-10, 2011 (Co-chair, moderator)

CME, Sudharshini Eye Hospital, Guntur. January 24, 2012 (Speaker)

Topic: Basics and advanced interpretation of SD OCT

Niranjan K Pehere

International

Expert Group Workshop on Childhood Cataract in Asia, organized by Child Sight Foundation and Dark and Light Blind Care (Netherlands), Dhaka, Bangladesh. August 1-4, 2011 (Invited participant)

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Faculty)

National

CME on Neuro-ophthalmology, Narayana Medical College, Nellore. October 22, 2011 (Faculty)

Round table meeting on Pediatric Cataract, Rotary Eye Hospital, Vuyyuru. November 4, 2011 (Speaker)

CME: What’s New in Ophthalmology, Maharashtra Institute of Medical Sciences, Latur, Maharashtra. November 13-14, 2011 (Speaker)

CME: Pediatric Ophthalmology for Pediatricians, LVPEI, Vijayawada. January 29, 2012 (Organizing Secretary)

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi, February 2-5, 2012

Paper: IOL opacification in children raises concern

Hubli-Dharwad Ophthalmic Association monthly meeting, Hubli, Karnataka. March 20, 2012 (Speaker)

Topic: Vision assessment, refraction and prescribing glasses in children

M M Joshi Eye Institute, Hubli, Karnataka. March 21, 2012 (Guest lecture)

Topic: How to read to know and to pass

Deva Prasad

International

6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)

Topic: Factors influencing presentation for ROP evaluation to a tertiary level screening centre
Charanya Ramachandran
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Synthetic polymer scaffold as an alternative for human amniotic membrane (hAM) in ocular surface reconstruction

Padmaja Kumari Rani
International
Posters: Prevalence and risk factors for DR in patients with non-arteritic anterior ischemic optic neuropathy
Bilateral exudative retinal detachment in young – diagnostic dilemma – case series
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Speaker)
Topic: Protocols for safe and effective ROP and non-ROP retinal screening and treatment (ITCROPS and Indian experience)

Harsha BL Rao
International
Topics: Effect of spectrum bias on the diagnostic accuracy of SD-OCT in glaucoma
Accuracy of short-term progression rates to predict long-term outcomes in glaucoma

National
Andhra Pradesh Ophthalmological Society, Warangal Chapter, Warangal. June 19, 2011 (Faculty)
Topic: Medical management of glaucoma

World Sight Day celebrations, University of Hyderabad, Hyderabad. October 14, 2011 (Speaker)
Topic: Eye health

World Sight Day celebrations, Railway Hospital, Hyderabad. October 16, 2011 (Speaker)
Topic: Diabetic retinopathy, retinopathy of prematurity

Gullapalli N Rao
International
Bascom Palmer Eye Institute, Massachusetts Eye & Ear Infirmary, Miami, USA. May 12, 2011 (Invited lecture)
Topic: Global blindness

Dedication Ceremony of Eugene and Marilyn Glick Eye Institute, Indiana University School of Medicine, Indianapolis, USA. August 19, 2011 (Invited lecture)
Topic: Global blindness

University of Kentucky, Lexington, Kentucky, USA. October 29, 2011 (Invited lectures)
Topics: Global blindness: Where do we stand?
Relevance of eye research to community health

Abbott Medical Optics, Santa Ana, California, USA. November 1, 2011 (Invited lecture)
Topic: The evolution of L V Prasad Eye Institute

Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Opening Address)

Annual meeting of Ophthalmic Society of Bangladesh, Dhaka, Bangladesh. February 28, 2012
Alim Memorial Lecture: Elimination of avoidable blindness

Annual meeting of Flaum Eye Institute, University of Rochester, Rochester, NY, USA. March 16-17, 2012
Snell lecture: Blindness and visual impairment: Can we control it globally?
Invited lecture: Epidemiology of corneal blindness and how do we tackle it?

National
Indian School of Business, Hyderabad. April 15, 2011 (Invited lecture)
Topic: LVPEI

Postgraduate Institute of Medical Education & Research, Chandigarh. August 7, 2011 (Invited lecture)
Topic: Global blindness

Aparna Rao
National
International Academy of Pathologists – India Division, Bhubaneswar. August 24, 2011 (Speaker)
Topic: Childhood glaucoma
“Glaucoma Unplugged,” XXI annual meeting of Glaucoma Society of India, Mumbai. October 7-9, 2011 (Faculty)
Glaucoma Update, CIPLA, Bhubaneswar. October 23, 2011 (Speaker)
Topic: Glaucoma update
Annual meeting of Orissa State Ophthalmological Society, Sambalpur. November 12-13, 2011 (Speaker)
Topic: Surgical tips for AGV in special situations
Suryasnata Rath
International
American Society of Plastic and Reconstructive Surgery meeting, Orlando, FL, USA. October 21, 2011
Poster: Does double (anterior-posterior) flap anastomosis enhance success in external dacryocystorhinostomy?

Sonika Rathi
International
Poster: Quantitative analysis of vitreous humor reveals distinct protein profiles in patients with retinopathy of prematurity

Varsha Rathi
International
Free paper: Scleral contact lens in pediatric patients

Nidhi Relhan
International
Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011
Free paper: Role of Quantiferon gold tuberculosis test (QFT) in the management of ocular tuberculosis

Virender Sachdeva
International
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Faculty, video, co-conductor)
Topics: Management of amblyopia
Non-surgical issues in pediatric cataract
Video: Topical anesthesia strabismus surgery

Nishika Sahini
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Identification of disease genes in Indian population with ARRP by homozygosity screening
**Virender S Sangwan**

**International**

7th Annual meeting of International Ocular Surface Society (IOSS), Hollywood, FL, USA. April 30, 2011 (Award Lecture)

**Topic:** Cell-based ocular surface reconstruction: Advance and gaps in knowledge

**Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011**

**Posters:**
- Fluid ventilated scleral contact lenses in pediatric patients: Challenges and outcome
- Effect of intraocular pressure and anisotropy on the optical properties of the cornea: An experimental study
- Long-term survival of corneal allografts after penetrating keratoplasty and autologous cultivated limbal epithelial transplantation
- Mechanical properties of human lens capsule assessed ex vivo in a lens stretcher

“Innovations in Vision Restoration” Lectures of The Louis J Fox joint program of UPME Eye Center & McGowan Institute for Regenerative Medicine, Pittsburgh, USA. May 26-27, 2011 (Speaker)

**Topic:** Long-term outcome of autologous cultivated limbal epithelium transplant

**Indo – UK Symposium, University of Sheffield, UK. July 24-28, 2011 (Speaker)**

**Topic:** Challenging problem in ophthalmic practice

27th Biennial Cornea Conference, Massachusetts Eye & Ear Infirmary & Schepens Eye Research Institute, Boston, USA. September 30 – October 1, 2011 (Speaker)

**Topic:** Cell-based therapy: long term outcome

115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011 (Speaker, faculty)

**Topics:**
- Cultivated limbal epithelial transplantation for the management of ocular surface disease
- Cell-based therapy for ocular surface reconstruction in limbal stem cell deficiency
- Clinical outcome of xeno-free autologous cultivated limbal epithelial transplantation
- Clinical outcome of xeno-free autologus cultivated limbal epithelial transplantation: A 10-year study

Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011 (Faculty)

**Topics:**
- Pathophysiology of uveitis: What we know in 2011
- Stem cell deficiency and surgical intervention in severe ocular allergies
- Surgical approaches in the management of posterior uveitis
- Clinical outcomes of limbal stem cell transplantation
- Outcomes of penetrating keratoplasty in Mooren’s ulcer

National

Bombay Ophthalmic Association annual meeting, Mumbai. August 28, 2011 (Faculty)

**Topics:**
- Management of end-stage corneal disease
- PUK: Clinical management

Cornea Update meeting, Ophthalmic Society of West Bengal, Kolkata. September 11, 2011 (Faculty)

**Topic:** The evolution of our understanding of OSD and its treatment

Shroff’s Charitable Eye Hospital, Mumbai. September 18, 2011

Dr Patnaik Oration: Cell-based therapy for ocular surface reconstruction

6th Global Knowledge Conference, Flame University, Pune. January 5-7, 2012 (Faculty)

**Topic:** Cloud computing of eye care models

Workshop of Indian Journal of Ophthalmology, Welingkar Institute of Management, Mumbai. January 8, 2012 (Faculty)

**Topic:** Research for practicing ophthalmologist

TEDx, National Institute of Technology, Calicut, Kerala. January 14-15, 2012 (Faculty)

**Topic:** Square peg in round hole – my story

Wellcome Trust Grants Committee meeting, Bengaluru. January 23-24, 2012 (Invited expert for grants application)


Dr R M Saboo Oration: Stem cell therapy – the promise and the potential

“Cornea Unplugged – The Way Forward”, LVPEI, Hyderabad. March 3-4, 2012 (Program Committee)

**Topic:** Cell based therapy for ocular surface reconstruction: Replacement versus regeneration

**Kunjal Sejpal**

**International**

Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011

**Poster:** Limbal epithelial transplantation in vernal keratoconjunctivitis with limbal stem cell deficiency


Free paper: Complications of collagen crosslinking procedure for progressive keratoconus and post LASIK keratectasia

**Poster:**
- Outcome of collagen crosslinking with ultraviolet-A and hypo-osmolar riboflavin solution in progressive keratoconus and keratectasia

National

35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Faculty)

**Topics:**
- All about international fellowships
- Cornea diagnostics made simple

Free paper: Outcome of collagen crosslinking with ultraviolet-A and hypo-osmolar riboflavin solution in progressive keratoconus and keratectasia

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Free papers, posters)

**Topics:**
- Outcome of cultivated limbal epithelial transplantation in VKC with limbal stem cell deficiency
- Microstructural changes in limbal stem cell deficiency using in vivo confocal microscopy
- Complications of collagen crosslinking procedure for progressive keratoconus and post LASIK keratectasia
- Outcome of Boston Keratoprosthesis in Stevens Johnson syndrome
“G Chandra Sekhar
International
Ophthalmological Society of Bangladesh meeting, Chittagong. April 2, 2011 (Speaker)
Topic: Diagnosis and management of primary glaucoma
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011
7th AIGS Information and Planning Exchange Meeting (Attended)
Consensus meeting, Glaucoma Societies and WGA Glaucoma Industry Members (Attended)
Posters: Do prostaglandin analogues reduce the intraocular pressure in the untreated fellow eye? Effect of age on normal choroidal thickness measurement by cirrus high definition optical coherence tomography (HD-OCT)
Whole genome expression and candidate gene analysis reveals the involvement of novel genes in primary open angle glaucoma
Relationship between intraocular pressure and rate of visual field progression in glaucoma
Networking symposium "HORIZON", Alcon, Bangkok. August 5-7, 2011 (Faculty)
The ORBIS International Symposium, European Society of Cataract & Refractive Surgeons, Vienna, Austria. September 17-21, 2011 (Speaker)
Topic: The pros and cons of manual small incision non-phaco cataract surgery (MSICS) in the developing world
Allergan Advisory Board Meeting, Singapore. November 12, 2011 (Attended)
Ocular Inflammation Congress, organised by the International Ocular Inflammation Society (IOIS) and the Uveitis Society of India (USI), Goa. November 13-16, 2011 (Speaker)
Topic: Treatment of glaucoma associated with uveitis
Alcon C-11-034 Investigators Meeting, Barcelona, Spain. February 9-13, 2012 (Attended)
World Ophthalmology Congress, Middle East Africa Council of Ophthalmology and International Council of Ophthalmology, Abu Dhabi, UAE. February 16-20, 2012 (Chair)
Topics: LVPEI Eye Health Pyramid as a model for glaucoma care in the developing countries
Patient centric management and EB clinical practice guidelines
Clinical disc evaluation and correlating with visual fields
“Blindness is Our Responsibility,” Cicendo Eye Hospital meeting organized by West Java Region, Bandung, Indonesia. March 30-31, 2012 (Faculty)
Topics: Glaucoma: Disc evaluation & gonioscopic examination
Principal management of POAG
Trabeculectomy: How to avoid/manage complications & advances in disc imaging
National
Sirisha Senthil
International
Posters: Rates of progression of visual field loss in perimetry open angle and angle closure glaucoma
Recurrence of malignant glaucoma post vitrectomy surgery
Videos: Refractory congenital glaucoma
Management of intraoperative and post-operative complications with Ahmed Valve implant
CO2 laser assisted deep sclerotomy in open angle glaucoma
2nd Annual National Conference of Bangladesh Glaucoma Society, Dhaka, Bangladesh. January 21, 2012 (Faculty)
Topics: Management of failing filtering blebs
Management of difficult glaucomas with aqueous drainage implants
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Faculty)
Topic: Shunt surgery for pediatric glaucoma
Video: Refractory congenital glaucoma
National
62nd annual conference of Delhi Ophthalmological Society, Delhi. April 15-17, 2011 (Faculty, convener, video)
Topic: Management of refractory developmental glaucoma
Pfizer symposium, keynote address: Compliance and persistence in the medical management of glaucoma
35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Faculty)
Videos: Refractory congenital glaucoma
Management of failing filtering blebs
“Glaucome Unplugged,” XXI annual meeting of Glaucome Society of India, Mumbai. October 7-9, 2011 (Keynote address)
Topic: Making therapeutic decisions: Linking target IOP, visual fields and data from imaging devices in the clinical management of glaucoma
“Save Sight Years to Protect Quality of Life,” Allergan International Glaucome Symposium, Chennai. January 21, 2012 (Expert Panel)
Mid-term Vidarbha Ophthalmic Society meeting, Nagpur. March 18, 2012 (SV Joshi Oration – Keynote lecture)
Topics: Angle closure glaucoma
Perspectives in glaucoma management
Pfizer Insight: A Symposium on Contemporary Glaucome Management, Ahmedabad. March 25, 2012 (Speaker)
Topics: Optic disc evaluation and imaging
Perspectives in glaucoma management
35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Guest of honor)
“Focus 2011: Focus on Glaucoma & Cataract,” annual meeting of Swarup Eye Centre, Hyderabad. December 4, 2011 (Faculty)
Topic: Implants in glaucoma

Mid-term Maharashtra Ophthalmic Conference of Vidarbha Ophthalmic Society, Nagpur. March 18, 2012 (Faculty)
Topics: Trabeculectomy – pearls for surgical success and management of early and late postoperative complications in trabeculectomy
Newer surgical techniques in glaucoma
Tube implants intractable glaucoma

Savitri Sharma
International
41st Cambridge Ophthalmological Symposium, St John’s College, Cambridge, UK. September 8, 2011 (Speaker)
Topic: Diagnosis of infectious diseases of the eye

45th annual meeting of the Ocular Microbiology and Immunology Group, Orlando, USA. October 21, 2011 (Faculty)
Free paper: Natamycin in the treatment of keratomycosis: Correlation of treatment outcome and in vitro susceptibility of fungal isolates

115th annual meeting of American Academy of Ophthalmology, Orlando, FL, USA. October 22-25, 2011 (Faculty)
Topic: Laboratory methods to establish diagnosis

National
CME on “Antimicrobial Resistance: No action today – No cure tomorrow,” Aravind Eye Hospital, Madurai. April 29, 2011 (Faculty)
Topic: Antimicrobial resistance of ocular isolates: LVPEI experience

Mid-year teaching program, International Academy of Pathologists – India Division, LVPEI, Hyderabad. August 1, 2011 (Faculty)
Topic: Ocular pathogens – A microbiologist’s perspective

59th annual meeting of Tamil Nadu Ophthalmic Association, Tirunelveli. August 6, 2011 (Speaker, keynote address)
Topic: Laboratory diagnosis of endophthalmitis and operating room surveillance

5th annual meeting of IAMM (Orissa Chapter), Hi Tech Medical College, Bhubaneswar. August 14, 2011 (Faculty)
Topic: Surveillance of nosocomial infections

Thadikonda Seminar on “Recent Developments in Pharmaceutical Sciences”, LVPEI, Hyderabad. August 22, 2011 (Speaker)
Topic: Fungal keratitis

70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012 (Faculty)
Topic: Microbiological work up – how and when?

9th National Conference of Society for Indian Human and Animal Mycologists (SIHAM-2012), Siliguri, West Bengal. February 10-12, 2012 (Speaker)
Topic: Diagnosis of ocular mycosis

S Sheeladevi
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011 (Speaker)
Free paper: Genetic screening of genes involved in Leber’s congenital amaurosis (LCA) in Indian patients

National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Genetic screening of genes involved in Leber’s congenital amaurosis (LCA) in Indian patients

Saika Siddiqui
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Genetic screening of genes involved in Leber’s congenital amaurosis (LCA) in Indian patients

Manish K Sinha
International
6th Asia-Pacific Vitreo-Retina Society and 20th Vitreo Retinal Society – India meeting, Hyderabad. December 1-3, 2011 (Speaker)
Topic: Outcomes of sclera buckling and pars plana vitrectomy in retinal detachment in albinism

National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Free paper: Delayed-onset endogenous Salmonella typhi endophthalmitis following typhoid: A case report and review of literature

Mukesh Taneja
International
Eurokeratoconus-II meeting, association keratocone, Bordeaux, France. September 23-24, 2011
Poster: Intraoperative pachymetry variation in C3R

National
62nd annual conference of Delhi Ophthalmological Society, Delhi. April 15-17, 2011 (Speaker)
Topics: Surgical techniques of DSEK
Topography: Current scenario
Limbal stem cell transplantation

Intraocular Implant & Refractive Society of India (IIRSI) annual conference, Delhi. August 13-14, 2011 (Speaker)
Topics: Femtosecond assisted anterior lamellar keratoplasty Advances in cataract surgery

3rd national CME Workshop on Eye Banking & Cornea Trendz, Abhinav Drishti Eye Hospital and Eye Bank Association of India, Lucknow. November 26-27, 2011 (Speaker)
Topics: Ocular complications of immune disease and corneal toxicity in long-term ocular medication Femtosecond laser and keratoplasty Flap related complications
70th annual meeting of All India Ophthalmological Conference (AIOS), Kochi. February 2-5, 2012
Free papers: Intra-op pachymetry variation in collagen cross linking (CXL) with isotonic and hypotonic riboflavin
Quest for an accommodating gel IOL with ex vivo accommodation simulator (EVAS) and phaco ersatz

Devjyoti Tripathy
International
Fusion 2012, International Masters’ Course in Pediatric Ophthalmology & Oculoplasty, LVPEI, Hyderabad. February 12-14, 2012 (Faculty)
Topics: Squamous cell carcinoma of eyelids
Overview of orbital infections

Nagachandrika Tumati
International
Free paper: Evisceration with primary orbital implant in endophthalmitis/panophthalmitis – should it be done?

Mangalangi Udayakumar
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Characterization of human ciliary pigmented epithelial (CPE) cells

M Uma
National
Dr E Vaithilingam Memorial Conference, Sankara Nethralaya, Chennai. March 18, 2012
Paper: Association of systemic risk factors in different stages of diabetic retinopathy
Poster: Inter observer and intra observer variability of choroidal thickness measurement in south Indian population using spectral domain optical coherence tomography and B-scan ultrasonography

PVKS Varma
National
Case presentation: Trabeculectomy with Mitomycin C in congenital glaucoma
Panel discussion on Glaucoma Management, 35th annual meeting of Andhra Pradesh Ophthalmological Society (APOS), Nellore. September 23-25, 2011 (Faculty)
Glaucoma Meet, Alcon, Visakhapatnam. November 19, 2011 (Attended)
Glaucoma CME, LVPEI, Visakhapatnam. November 27, 2011 (Organizing Secretary)
Topics: Natural history of glaucoma
Primary angle closure glaucoma
Trabeculectomy
Trabeculectomy+ICS+PC IOL

CME on Ophthalmology, Maharaja’s Institute of Medical Sciences, Nellimarla, Andhra Pradesh. December 4, 2011 (Speaker)
Topics: Natural course open angle glaucoma
Interpretation of Humphrey’s visual fields
Surgical glaucoma

Kakinada Ophthalmic Association meeting, Kakinada. December 8, 2012 (Speaker)
Topics: Diastolic ocular perfusion pressure
Case presentation on trabeculectomy with MMC in congenital glaucoma

Vasundhara Vauhini
National
19th annual meeting of Indian Eye Research Group (IERG), LVPEI, Hyderabad. July 30-31, 2011
Poster: Characterization and differentiation of induced pluripotent stem cells (iPSCs) towards retinal lineages

Pesala Veerendranath
International
Association for Research in Vision and Ophthalmology (ARVO) annual meeting, Ft Lauderdale, FL, USA. May 1-5, 2011
Poster: Comparison of a novel cell phone-based refraction technique (NETRA) with objective clinical retinoscopy

Kovai Vilas
International

Jachin David Williams
National
Camp on Eye Screening & Training girl children from Brighton, UK, St. Ann’s College, Hyderabad. May 7, 2011 (Speaker)
Topic: Early identification of visual impairment among children for early intervention
Partnership Workshop, Infosys/Dialogue in the Dark, Hyderabad. December 18, 2011 (Speaker)
Topic: Awareness on addressing common eye problems
CME, Gandhi Medical College, Hyderabad. March 4, 2012 (Speaker)
Topic: Community eye health services in developing nations
Our Support

In its Silver Jubilee Year, the L V Prasad Eye Institute Network reached out to close to 3 million people! What began as a modest eye hospital, a quarter century ago, is today a globally acclaimed Centre of Excellence with a presence in over 100 locations, offering high quality, comprehensive patient care, educating all levels of eye care professionals and pursuing cutting-edge research. It began with one person’s vision, but this milestone could not have been reached without the unstinting support of countless people and organisations, who shared the dream and made it a reality. We can never thank them enough!

The list of our benefactors, supporters, contributors and friends continues to grow. This year we take a look at some of the people who have joined us recently to strengthen our hands and concretize major new initiatives. Their generosity will help us to set up a larger patient care facility at our flagship Hyderabad campus and expand our educational and training initiatives. The donors for these projects come right from home, as well as from two other continents – a reflection of our large and varied support base.
Committed to a New Beginning

Mr V C Janardan Rao’s interest in eye care began many, many years ago, when he noticed his daughter, who was around 5 years old at that time, peering very closely at books, etc. On consulting an ophthalmologist he learnt that his child was highly myopic.

So, from a very young age, his daughter was wearing thick glasses. When she was in her 20s, he read an article in an international magazine about laser refractive surgical correction performed by an ophthalmologist in Chicago, USA. Those were early days for LASIK, as it is now called, but he decided to take his daughter to Chicago and meet the doctor. After a couple of consultations, they decided to go ahead with the procedure. The result was amazing and they were thrilled. Today she does not wear glasses and is very comfortable.

Mr Janardan Rao has grown over the years to become a successful industrialist in Hyderabad, pioneering the manufacture of fluid power equipment in the country. He now has two companies – Veljan Hydrair Ltd and Veljan Denison Ltd, manufacturing a wide range of pneumatic and hydraulic products, which have an excellent export market.

A committed philanthropist, Mr Janardan Rao has been supporting charitable educational institutions and hospitals in Hyderabad, in Eluru, and in his native village Kovvali, for many years. A mutual friend, Mr Vellanki Rao invited him to visit L V Prasad Eye Institute; he was given a detailed tour of the facilities, where he closely observed the various facets of eye care provided by the institute. Impressed by the commitment and dedication of all those associated with the Institute, he decided to contribute to the growth and progress of L V Prasad Eye Institute.

In recognition of Mr Janardan Rao’s generosity, the new building coming up at LVPEI’s Kallam Anji Reddy campus in Banjara Hills, Hyderabad, will be named after his mother, Smt Velamati Soubhagyavathamma.
Engineering Excellent Education for All

Mr S K Pathak is one of the early entrepreneurs who went from India to set up a business in Dubai. He is the founder, major shareholder and Chairman of ABM Group, Dubai, consisting of Al Basti and Mukhta LLC, Bilt Middle East LLC, Al Basti Inks Industry LLC and Ductfab LLC companies. The ABM Group has contributed to the rapidly changing face of Dubai and has earned a reputation of delivering high quality projects, ranking among the top engineering and construction establishments in the region.

Mr Pathak obtained his BA and MA in Economics from the University of Allahabad, Uttar Pradesh. He has been involved in ventures worldwide in areas as diverse as hotels, tea plantations, healthcare and publication, among others. He has also served on the Dubai Advisory Board of Coutts & Co, one of the world’s leading private banks.

In 2011, Mr Pathak received the highest honor bestowed by the Oxford University, UK. He was inducted by Lord Patten, Chancellor of Oxford University, into the prestigious Chancellor’s Court of Benefactors. This honor is reserved strictly for those whose philanthropic leadership has been exemplary.

Mr Pathak endowed a permanent scholarship fund and financed the redeveloped graduate accommodation, now known as ‘SKP House’ in Exeter College, Oxford University, UK. The scholarship fund supports outstanding Indian students, who wish to undertake graduate studies at Oxford University in subjects that are linked to the economic development of India.

Mr Pathak, accompanied by his wife Mrs Kokil Pathak, first visited L V Prasad Eye Institute, Hyderabad, on January 18, 2010, as a patient and was very impressed with the quality of eye care being offered to a large cross-section of the people. On subsequent visits, he saw all the activities of the institute, including the research work as well as the training programs for various levels of eye care professionals and administrators. He expressed a wish to support the educational programs of the institute, by setting up a fund for a “Pathak Centre for Eye Care Education” at the LVPEI campus in Bhubaneswar, Odisha, and another one in Visakhapatnam, Andhra Pradesh.

Governor of Andhra Pradesh, Mr E S L Narasimhan, laid the foundation stone for the Pathak Centre for Eye Care Education at the Visakhapatnam campus on July 20, 2011.

The Residence Hall, “Inspiration”, of the Pathak Centre for Eye Care Education (PACE) was inaugurated by Mrs Kokil and Mr Krishna Pathak at the Bhubaneswar campus on February 24, 2012.
A Firm Foundation for Education

Dr Krupakar Paul Thadikonda is the Executive Director of Thadikonda Research Foundation – a private, non-profit, charitable organization dedicated to making a positive difference in the lives of children, adolescents, and adults who are touched by rare disorders. The organization’s objectives are “To provide awareness, education and training facilities for children and families with special needs” and “To promote pharmaceutical and medical research and training in underdeveloped communities around the world” with specific reference to rare disorders such as cerebral palsy and autism.

Dr Thadikonda studied Pharmaceutical Sciences and began his career as a lecturer in Pharmacology in the Department of Pharmaceutical Sciences, Andhra University, India. He went to the United States in 1987 and completed his PhD in Neuropharmacology from St John’s University, New York, USA, in 1991.

He is the Founder and President/CEO of Maryland based EMINENT Services Corporation (1997), which provides investigational drug management and information technology services to the pharmaceutical/biotechnology industry and the Federal Government/contract research organizations. He has headed positions in Ogden BioServices and McKesson BioServices, holds several patents in drug product development and is technical consultant to several Federal Agencies in clinical drug product development.

Dr Thadikonda inaugurated the Prasanth Michael Thadikonda Bhavan at Andhra University on 14 April 2009, with modern infrastructure to house the College of Pharmaceutical Sciences, Administration, Teaching and Research in Pharmaceutical Sciences.

A few years ago, Dr Thadikonda met Dr Gullapalli N Rao and became interested in supporting LVPEI’s educational programs, as also the research work at the institute. In April 2011, Dr Thadikonda gave the institute a substantial grant to promote eye care education across all levels of eye care professionals. In acknowledgement, the institute’s training activities will now be coordinated by the “Mark Nathaniel Thadikonda and Vijayamma Nannepaga Centre for Eye Care Education.”

Dr Thadikonda said, “It is a great pleasure for our foundation to join hands with this world-famous institute.” Dr Rao said, “This grant boosts our education efforts significantly as we work towards enhancing the quality of eye care across the entire developing world, by offering high standard training to professionals from all over the globe.”
Our Support

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

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