Comprehensive eye care services, community screening for 500,000 population with screening and awareness programs, refraction and dispensing spectacles for 50,000 population (20-25 villages).

Centre of Excellence – superspecialty care, training of trainers and specialists, public health, research and advocacy.

Outpatient and surgical services, training and research for 5,000,000 population.

Monitoring eye health of the community 5000 population (2-3 villages).
L V Prasad Eye Institute

Committed to excellence and equity in eye care

Annual Activity Report
April 2008 – March 2009

World Health Organization
Collaborating Centre for Prevention of Blindness

L V Prasad Eye Institute is a not-for-profit charitable organization governed by two trusts, Hyderabad Eye Institute & Hyderabad Eye Research Foundation.
The year at a glance

The LVPEI pyramid of service delivery touches all levels of society, from the remote rural village to the busy urban centre. From primary eye care to advanced tertiary or quaternary centres, we have been able to provide eye care services to thousands of people, when they need it, where they need it, without compromising on quality. This year, we have been able to reach 1,928,720 adults and children through these various levels of care – 1,293,071 through our community programs and 635,649 through our primary, secondary and tertiary care facilities. Our circle of impact on people’s life and sight continues to grow.

Reaching the underserved – community eye health

<table>
<thead>
<tr>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Villages surveyed</td>
</tr>
<tr>
<td>Population covered by door to door surveys</td>
</tr>
<tr>
<td>Community screening programs</td>
</tr>
<tr>
<td>Population screened</td>
</tr>
<tr>
<td>Schools screened</td>
</tr>
<tr>
<td>Children screened</td>
</tr>
<tr>
<td>Total adults served</td>
</tr>
<tr>
<td>Total children screened</td>
</tr>
</tbody>
</table>

(through our community programs)

*Community programs are conducted entirely free of cost to the beneficiaries*

Eradicating blindness & visual impairment and referrals

**Primary eye care**

<table>
<thead>
<tr>
<th>Vision Centres (2.5-2.75 million population)</th>
<th>55*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits</td>
<td>90,877</td>
</tr>
</tbody>
</table>

*4 Vision Centres opened during March 27-31, 2009

**Secondary eye care**

<table>
<thead>
<tr>
<th>Service Centres (10-17 million population)</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits</td>
<td>225,712</td>
</tr>
<tr>
<td>Surgeries performed</td>
<td>26,364</td>
</tr>
<tr>
<td></td>
<td>98,459</td>
</tr>
<tr>
<td></td>
<td>17,991</td>
</tr>
</tbody>
</table>

**Completing the circle – tertiary eye care**

<table>
<thead>
<tr>
<th>Bhubaneswar</th>
<th>Visakhapatnam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits</td>
<td>57,382</td>
</tr>
<tr>
<td>Surgeries performed</td>
<td>5565</td>
</tr>
<tr>
<td></td>
<td>25,299</td>
</tr>
</tbody>
</table>

**Advanced tertiary (quaternary) care – Hyderabad**

| Outpatient visits | 213,066 |
| Surgeries performed | 27,924 |
| Total outpatient visits | 635,649 |
| Total surgeries     | 64,891 |

(at our primary, secondary and tertiary facilities)

*Services provided entirely free of cost*
Providing a better quality of life – rehabilitation

Vision rehabilitation centres 3
Sight enhancement client visits (low vision) 4185
Vision rehabilitation client visits 7209

Facilitating the Gift of Sight – eye banking

<table>
<thead>
<tr>
<th></th>
<th>Hyderabad</th>
<th>Bhubaneswar</th>
<th>Visakhapatnam</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corneas harvested</td>
<td>2959</td>
<td>83</td>
<td>250</td>
<td>3292</td>
</tr>
</tbody>
</table>

Enhancing skills for quality eye care – continuing education

Ophthalmologists 176
Other eye care professionals 466
Participants in CME and other programs 1497

Pushing the frontiers in eye care – research

Presentations
– International 205
– National 263
Publications 63
Honors and awards 47

# Numbers reflect activities across the LVPEI network
• Includes community eye banks on our campuses
L V Prasad Eye Institute, Kallam Anji Reddy campus,
Hyderabad

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

Clinical Services Centres
Cornea & Anterior Segment
Virender S Sangwan
Prashant Garg
Pravin V Krishna
R Muraleedhara
Somaseela Murthy
Varsha Rathi
Rishi Swarup
Mukesh Taneja

Bausch & Lomb Contact Lens Centre
Varsha Rathi
P Ruby Kala
M Vinod Kumar
Preeji Shyam Sunder
T Shyam Sunder
D Srikanth

Laser Refractive Surgery Centre
Pravin V Krishna
Prashant Garg
Somaseela Murthy
Varsha Rathi

VST Centre for Glaucoma Care
G Chandra Sekhar
BL Harsha
Anil K Mandal
Srishta Senthil

Smt Kanuri Santhamma Retina
Vitreous Centre
Subhadra Jalali
Ajit B Majji
Annie Mathai
Raja Narayan
Padma Kumari Rani
Rajeev K Reddy

Uveitis & Ocular Immunology
Virender S Sangwan
Rupesh V Agarwal
Annie Mathai
Somaseela Murthy
Raja Narayan
Rajeev K Reddy

Ophthalmic Plastic Surgery, Orbit,
Ocular Oncology and Ocular Prosthesis
Santosh G Honavar
Ramesh Murthy
Milind N Naik
Deepa Raizada
Kuldeep Raizada
Vijay Anand P Reddy

Strabismus/Neuro-ophtalmology
Ramesh Kekunnaya
Ramesh Murthy

Jasti V Ramanamma Children’s
Eye Care Centre
Asif K Mandal
Santosh G Honavar
Subhadra Jalali
Ramesh Kekunnaya
Pravin V Krishna
Ramesh Murthy
Padma Kumari Rani

Comprehensive Ophthalmology
Rahit Khanna
Rupesh V Agarwal

Aesthetic Facial Plastic Surgery
Milind N Naik
Niteen Dhepe

General Optometry
M Srinivas
Chandra Sekhar Azad
J Ganesh Babu
Shaik Bajibhi
Tamil Chakraborty
Priyanguh Chandra
Debarun Dutta
Waseem Fatima
Tanima Ghosh
Yaswant Goud
P Harish
P A Janitha
S Vijay Kiran
Hari Krishna
Anjul Kumar
Y Vijay Kumar
M Vinod Kumar
A Uday Kumar
Josef Mollah
Winston D Prakash
Lavanya Rekha
Satabdhi Sarkar
V Sumant
K Swathi
M Uma
P Veerendaranath

Internal Medicine
Archana Bhargava
Fazul Hassan

Anesthesia Services
C Jagadishwar
PG Kothy
MS Prasad
S Ravinder
CVM Reddy
P Sreedhar
P Siriramulu

Ramayamma International
Eye Bank
Usha Gopinathan
Prashant Garg

Meera & L B Deshpande Centre
for Sight Enhancement &
Dr PRK Prasad Centre for Rehabilitation
of Blind & Visually Impaired
Vijaya K Gottwal
Beula Christie
Hemaalatha Arunachalam
Deepak K Bagga
Rituparna Ghoshal
B Padhmavathi

Prof Brien Holden Eye Research Centre
Director and Distinguished Chair of Eye
Research
D Balasubramanian

Jhaveri Microbiology Centre
Savithi Sharma Das
Suma Nalambada
G Ashok Kumar Reddy

Saroja A Rao Immunology Laboratory
Savithi Sharma Das
Suma Nalambada
G Ashok Kumar Reddy

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

Ophthalmic Pathology
Geeta K Vermuganti
Goralak Parulkar

Sudhakar & Sreekanth Ravi Stem Cell
Biology Laboratory
Geeta K Vermuganti
Indumathi Marriappan
Virender S Sangwan

Education Centre
Director & Dr G Chandra Sekhar
Distinguished Chair of Education
Prashant Garg

LVP-Zeiss International Academy of
Advanced Ophthalmic Education
Srivalli Kaza

Bausch & Lomb School of Optometry
Coen GA de Jong

International Centre for Advancement of
Rural Eye care, Kismatpur campus
Rahit Khanna
Sayed Imtiaz Ahmed
S Bhattacharya
Sheela Devi
S Krishnaiah
Giridhar Pyda
V Rajashekar
Gullapalli N Rao
MS Nalambada

Heads of Services in italics, other names alphabetically
L V Prasad Eye Institute
Bhubaneswar

Director
Taraprasad Das

Cornea & Anterior Segment
Sujata Das
Srikant K Sahu

Glaucoma
Sanghamitra Dash

Ophthalmic Plastic Surgery, Orbit & Oncology
Suryasna Rath

Retina & Vitreous
Soumya Basu
Taraprasad Das
Tapas R Padhi

Miriam Hyman Children’s Eye Care Centre
Siddharth Kesarwani
Sanghamitra Dash
Reema Helen
Tapas R Padhi
Suryasna Rath

Contact Lens & Refractive Surgery
Sujata Das
Souvik Bhattacharya
Souvik Mandal
Srikant K Sahu
Mukesh K Singh

NTPC Centre for Diabetic Eye Disease
Taraprasad Das
Soumya Basu
Tapas R Padhi

NTPC Eye Trauma Centre
Suryasna Rath
Soumya Basu
Sujata Das
Tapas R Padhi

Optometry
Mukesh K Singh
Souvik Bhattacharya
Souvik Mandal

NTPC Centre for Sight Enhancement
Reema Helen
Jeevan Rao

Laboratory Services
Souvir Sharma Das
Sarita Kar

Anesthesia Services
Debendranath Das
drshhti daan Eye Bank*
Sujata Das
Srikant K Sahu

Administration
Bikash Chandra Mohanta
Prakash Das
Chhoton De
Sujata Mishra
Raghuram Sastry

L V Prasad Eye Institute
GMR Varalakshmi campus,
Visakhapatnam

Director
Merle Fernandes

Cornea & Anterior Segment
Merle Fernandes
Meena Lakshimipathy

Glaucoma
P V K S Varma

Retina Vitreous
Avinash Pathengay
A Srinivas

Contact Lens & Refractive Surgery
Merle Fernandes
Rekha Gunturu
Meena Lakshimipathy

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology
Roshni Gupta

Uveitis
Avinash Pathengay

Pediatric Ophthalmology and Strabismus
Virender Sachdeva

Neuro-ophthalmology
Virender Sachdeva
Avinash Pathengay

Optometry
P Anand
Rekha Gunturu
M Yugraj

Nimmagadda Prasad Children’s Eye Care Centre
Merle Fernandes
Roshni Gupta
Virender Sachdeva
P V K S Varma

Laboratory Services
Nagendra Kumar

Bob Ohlson Centre for Sight Enhancement
Rekha Gunturu

Mohsin Eye Bank*
Merle Fernandes
Meena Lakshimipathy

Anesthesia Services
Zohra Mehdi

Administration
Joji Prasad
D Ch Lakshmi
K Lokesh
B V S Mallikarjun Rao

* Community eye banks on our campus
Board Members

Hyderabad Eye Institute

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

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 Ramesh Prasad
Managing Director, Prasad Film Laboratories Ltd
Hyderabad

Dr Sangeeta Wagh
Dr Sandeep Wagh Eye Centre
Pune

Prof M Rammohan Rao
Indian School of Business
Hyderabad

Mr N Prasad
Chairman, VANPIC Ports Pvt. Ltd.
Hyderabad

Dr Ravindranath
Chairman, Global Hospitals
Hyderabad

Mr G Mallikarjuna Rao
Chairman, GMR Group
Bangalore

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
Vice Chancellor, University of Hyderabad
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

Hyderabad Eye Research Foundation

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

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

Dr Ch Mohan Rao
Deputy Director
Centre for Cellular and Molecular Biology
Hyderabad

Lt Gen D Raghunath
Principal Executive
Sir Dorabji Tata Centre for Research in Tropical Medicine Innovation Centre
Bangalore

Dr S P Vasireddy
Chairman & Managing Director
Vimta Labs
Hyderabad

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

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

Mr Ramesh Prasad
Managing Director, Prasad Film Laboratories Ltd
Hyderabad

Dr N Prasad
Chairman, VANPIC Ports Pvt. Ltd.
Hyderabad

Dr Ravindranath
Chairman, Global Hospitals
Hyderabad

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Chairman, GMR Group
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Director
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Hyderabad

Dr Taraprasad Das (Ex-officio)
Director
L V Prasad Eye Institute
Bhubaneswar
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<td>35</td>
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<tr>
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<td>51</td>
</tr>
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<td>71</td>
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<td>101</td>
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Foreword

The past year has been one of concentration on quality and systems improvement. Streamlining all our quality assurance systems, preparation for accreditation from the National Accreditation Board for Hospitals and Healthcare Providers (NABH) and Joint Commission International (JCI), aiming to attain Six Sigma status, all helping to achieve our strategic objectives for our Silver Jubilee year, christened ‘Vision 2012’. Meanwhile routine activities and our march along the growth path continued.

Among the highlights were the honours accorded to both the Institute and individuals. Getting short-listed as a finalist for the British Medical Journal (BMJ) Global Leadership award along with the likes of the Bill & Melinda Gates Foundation and the London School of Hygiene and Tropical Medicine was a distinct honour. The fellowship to our Research Director Prof. Balasubramanian (Balu) from the German Academy of Sciences – Leopoldina was another such distinction. Along with these were scores of other honours and awards all the way from the Hyderabad Rose Society for our gardens, to the honours from the American Academy of Ophthalmology for our doctors – a true reflection of the people and their work that make LVPEI what it is.

Hosting Asia-ARVO was indeed very special for us. As I said on that occasion, I never imagined that ARVO would come to India in my lifetime. It was a scientific feast for our young colleagues from India and the neighbouring countries. The participation of many youngsters and those with established clinical practice was beyond expectation and augurs well for the future of ophthalmic sciences in India.

The two new tertiary care and training centres have had a busy year and have added many new components. Both education and clinical research activities have commenced, which will lead to significant enhancement of our Institute’s overall capacity in these two areas.

The dream of creating a ‘District Model of Comprehensive Eye Health’ was realized with the inauguration of the third secondary Service Centre in Prakasam district. This district of over 3 million people now has 3 secondary Service Centres and 30 Vision Centres for primary care, a community eye screening and CBR (community based rehabilitation) program, a Children’s Eye Health Initiative and diabetes control program. This was achieved through the unique partnership between local NGOs, international NGOs, individual philanthropists and the government. We are optimistic that this ‘Sudhakar and Sreekanth Ravi District Comprehensive Eye Health Initiative’ will serve as an example worthy of emulation to take high quality eye care to the most underserved in the other parts of the world.
On the education front, after many years of consideration, we have started the residency training in ophthalmology affiliated with the National Board. Another new program is the Master’s in Community Eye Health (MCEH) program with affiliation from the University of New South Wales of Australia. Yet another innovative program, which is need-based, is the training program for opticians and vision technicians for the new Reliance Vision Express optical chain. This should act as a trendsetter to enhance standards of opticianry in India and a great example of partnership with the corporate sector. Also exciting is the ‘Global Leaders Lecture Series’ inaugurated this year, through which we have many global leaders in diverse areas of ophthalmology and eye care lecture to us in our three tertiary centres through video conferencing once a month. The inaugural lecture was given by Harry Quigley from the Wilmer Eye Institute of Johns Hopkins University. This was followed by talks by four other outstanding individuals. To all the speakers, we owe a debt of gratitude. Yet another novel development was the initiation of our ‘Visiting Professorship Program’. Professor William Bourne of Mayo Clinic was with us for 4 weeks and Prof Robert Biggar from the National Institutes of Health, USA, was here for 8 months.

In research, our Stem Cell and Molecular Genetics groups continue to be very productive with significant progress in their work. The collaboration with Jean Bennett’s group at the University of Pennsylvania to develop a gene therapy program is progressing well. The clinical research group is engaged in some exciting cutting edge work in the areas of cataract surgery, contact lenses and refractive surgery.

Our rehabilitation centres continued to be busy with their activities. Few of our clients excelled in school and passed with distinction. The integrated summer camp organized for the visually challenged children along with their sighted siblings was a great success as was the Fun Camp 2008. These events helped to boost the confidence levels of these children as well as their self-esteem. Our efforts to enhance awareness about low vision rehabilitation among eye care professionals have continued with good outcomes.

All these and many more goals were accomplished through the diligence and dedication of more than 1500 of our colleagues across our network, many consultants and hundreds of collaborators from around the world. The resource base was augmented significantly by the generosity of a number of our friends and well-wishers from around the world. To all these individuals and groups, we place on record our indebtedness.

Thus the ‘L V Prasad Eye Institute’s Global Family’ has had yet another productive year.

Gullapalli N Rao
Chair, Board of Trustees
The Village Vision Complex

In 1998, when the first secondary service centre was established by LVPEI in Mudhole (Adilabad district, northwestern Andhra Pradesh), it was in response to a definite need for high quality comprehensive eye care that would serve the needs of rural populations, as a replacement strategy for the temporary, makeshift operations like eye camps that had been the most common approach to rural eye care. As our engagement with rural populations grew through this and other service centres in small towns and district headquarters, we realized that it was necessary to take eye care even closer to the point of need – to the remotest villages across the state.

Thus was born the idea of the Vision Centre, a one-room clinic staffed by a para-medical worker, which would serve as the first point of care for people in villages and hamlets with no access to eye care or any sort of health care. The first Vision Centre was started in 2002 in the village of Chagallu. It was part of an evolving design that ultimately led to complete articulation as the LVPEI Eye Health Pyramid.

The last three levels of the Pyramid are crucial to the realization of LVPEI’s vision: to create excellent and equitable eye health systems that reach all in need. The first of these is the Service Centre, operating at the secondary level of care. Below this is the Vision Centre. And below this, to ensure that access is provided to every individual in the farthest of rural communities, is an active community-based intervention program that is carried out through door to door screening and home-based rehabilitation programs. This grouping of services is known as the Village Vision Complex.

The Vision Centres are planned to serve small clusters of villages, a population unit of roughly 50,000 people. Ten such Vision Centres, covering a population of around 500,000 are linked to the closest secondary service centre within a distance of 50 km.

Effectively, therefore, the Village Vision Complex comprises a Service Centre at the secondary level with ten vision centres linked to it, covering a rural area within a 50 km radius, roughly 15 – 20 villages. Each Vision Centre establishes community linkages in all the villages it serves, through screening, health awareness and education programs.

These Village Vision Complexes have two distinguishing features: local ownership and local staffing. Both the service centres and the Vision Centres are built with significant contributions from individuals in the community, and the para-medical workers who manage the Vision Centre are young people from the area and trained at LVPEI’s Hyderabad campuses for a year. Sustainability is achieved through a business model that combines cross subsidization and revenue generation from spectacle sales.

The flow of patients into these secondary and primary care clinics has grown steadily over the years; people are beginning to use eye care and understand what it takes to stay healthy, from the perspective of eye health. But this will, we expect, have a transformative effect on the populations of these areas, and also on the people who provide eye care. Young people with no hope of gainful employment have now found a livelihood and status in their home communities. These centres are also becoming a hub for other community development activities – through the window of eye care, we are opening a way for other services to reach underserved communities. The Community Linkage in Integration of Primary health (CLIP) attempts to educate and train community health workers in all aspects of primary care, from better nutrition to sanitation and preventive health care.

By March 2009, six such Village Vision Complexes were put in place, two in Adilabad, three in Prakasam and one in Mahboobnagar district. In the next three years, we will have another four such complexes in place, and a few more in different stages of completion. Over the year, 1,609,660 people in rural communities in Andhra Pradesh have had the benefit of comprehensive eye care services close to where they live.

People and ideas travel freely from the Village Vision Complex upwards to the tertiary and advanced tertiary levels of the Eye Health Pyramid. Those whose eye problem cannot be treated with primary or secondary level intervention are referred to the nearest tertiary centre and once they return, their follow up is managed through the Vision Centre. Similarly, consultants and eye care program managers at the tertiary centres learn from the experience at the base of the pyramid and feed this understanding into researching and developing new modes and models of care.
Looking back

How the annual report began
From a modest 1-page monthly report in 1988 into a 120-page tome in 2008!

By Vijaya L Ramam*

Ever since the Institute began seeing patients, staff meetings have been held unfailingly on the last working day of the month. Twenty years ago, the agenda was just 2-3 items long. The staff looked forward to the Best Employee of the Month announcements, as also the patient care numbers, to assess how our patient base was building up. Discussions focused on strategies for patient satisfaction, evolving new systems, policies and procedures, etc. Each department head spoke about their activities during the month. All this information was compiled. Some of our trustees, donors, and well-wishers were keen to follow the progress of the growing Institute; hence, formal 1-page reports were sent to them.

Gradually, our activities increased – we organized seminars and workshops, introduced more training programs, started new subspecialties, and launched eye banking services… and all of this found place in our documentation, adding depth and volume to our reports.

By 1992, we had an 8-10 page monthly report with patient care data, as well as information on guest lectures, seminars, research activities and presentations. We began acknowledging our donors each month, barely 10-15 then. Today our donor list runs into several pages – a testimony to the tremendous support we have received over the years. Many of our centres are named after their respective donors, and now almost every page of the Annual Activity Report is adorned with a donor name!

On the eve of our fifth anniversary, we brought out a special issue highlighting our achievements till then. This became the Institute brochure. The monthly reports began to look more interesting, with graphs and tables representing developments in every sphere, such as rehabilitation facilities, training programs and our budding outreach efforts. Little did we realize that our outreach programs would evolve into a comprehensive pyramidal model of eye care delivery, and gain acceptance across the world!

In 1993, our maiden annual report was printed and mailed to donors, collaborators and well wishers including interested patients. Since LVPEI has always avoided direct publicity/ advertisement, the annual activity report became a showcase for the Institute’s work.

By the year 1994, our medical and scientific faculty were beginning to receive recognition at national and international fora and these achievements were listed in a new section: Honors and Awards.

By 1995, eye donations to the Institute’s Ramayamma International Eye Bank began picking up. Names of the donors featured in our reports, and many families appreciated this gesture.

In June 1997, we completed a decade of service and published a colorful annual report with a new logo. Every year, the reports grew in volume, with information, high impact photographs and interesting case studies. These became too voluminous to compile on a monthly basis, so we switched to quarterly reports. Interestingly, we have come full circle now – compact monthly newsletters made a comeback in November 2008, replacing quarterly reports.

The new millennium demanded superfast communication through the electronic media. We launched our new website in 2004, offering an insight into the Institute’s activities, providing useful information on eye health, and an online patient appointment system. Last year, we added a virtual tour of our facilities. It was very gratifying to learn that a visit to our web site by a family in the United Kingdom piqued their interest enough to lead to an engagement that in July 2008 culminated in establishment of the ‘Miriam Hyman Children’s Eye Care Centre’ at LVPEI, Bhubaneswar.

* (former Head of Administration, currently Consultant, LVPEI)
The Year in Review

Across the network

Nimmagadda – LVPEI
Children’s Eye Health Initiative
The Nimmagadda – LVPEI Children’s Eye Health Initiative was launched on November 20, 2008, at LVPEI, Hyderabad. Nimmagadda Foundation has partnered with LVPEI to establish infrastructure for screening all children in Andhra Pradesh to eliminate avoidable blindness among children by the year 2020. The foundation is supporting all non-paying children’s screening, treatment and surgeries performed at LVPEI in Hyderabad and Visakhapatnam and its network of over 50 rural centers in the state. (See ICARE projects, page 48)

Miriam Hyman Children’s Eye Care Centre inaugurated
The Miriam Hyman Children’s Eye Care Centre was inaugurated by Chief Secretary of Orissa Mr Ajit Tripathy on July 3, 2008, during the second anniversary celebrations of LVPEI, Bhubaneswar campus. Miriam Hyman lost her life in the London terrorist bombings in July 2005; the children’s centre is a living tribute to her, by her parents John and Mavis and sister Esther. The centre will provide tertiary eye care to children from all socio-economic strata in Orissa, covering a population of about 50 million. It will also develop human resources in children’s eye care, with ongoing commitment from the Miriam Hyman Memorial Trust, UK. (See story ‘From tragedy springs hope for many’, page 102)

A growing network of eye care
The Institute’s 3rd secondary care Service Centre was inaugurated at Kandukuru in Prakasam district on February 1, 2009. The guests included local legislator Maheedhara Reddy, and distinguished LVPEI visiting faculty Profs William Bourne and Robert J Biggar. Remarking on the unique nature of LVPEI’s community eye health work, Mr Reddy said it was surprising to see the extent of the work done, with so much commitment and so little fanfare. The Sudhakar and Sreekantan Ravi Eye Centre will link to a full complement of 10 Vision Centres, serving a population of 500,000. This is the Institute’s 8th secondary service centre and the 2nd to be set up under the Sudhakar and Sreekantan Ravi District Eye Health Initiative in Prakasam district, supported by the Ravi brothers of USA.

Mr Nimmagadda Prasad launches the Children’s Eye Health Initiative

Esther Hyman at the inaugural

Prof Bourne and Prof Biggar at the Kandukuru inauguration
ICARE turns 10
The Institute’s rural outreach arm, the International Centre for Advancement of Rural Eye care (ICARE), celebrated its 10th anniversary of making world class eye care a reality for the rural people. The event was marked by a 2-day workshop (December 17-18) attended by eye health workers from around the country, with special sessions on leadership development and primary eye care with models for its integration with primary health care. LVPEI Chairman Dr Gullapalli N Rao dedicated the program to the late Mr Kothapalli Rama Rao, who partnered in our initial foray into rural eye care with the secondary eye care centre Smt Rajeshwari Ramakrishnan Lions Eye Hospital, Nidadvole. (See ICARE, page 36)

Govt adopts LVPEI’s Vision Centre model
The Government of India has adopted the LVPEI model of Vision Centres for rural areas and the eye banking system for implementation across the country and allocated funds for it under the National Programme for Control of Blindness (NPCB). The Institute has also received a grant from the Government to set up a tele-ophthalmology project to deliver eye care services, such as identification and treatment of eye diseases, and referral services through tele-ophthalmology in rural and tribal underserved populations.

Merck grant for vision technicians training
Merck Subsidiary Division, India, awarded a grant to LVPEI to fund the training of vision technicians and build a human resource base for delivery of eye care in rural areas. The vision technician program conducted by LVPEI’s International Centre for Advancement of Rural Eye care (ICARE) supports the pyramid model at the secondary and primary levels of service delivery.

Govt adopts LVPEI’s Vision Centre model

Asia ARVO a resounding success
LVPEI and the Indian Eye Research Group hosted the biennial Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, a major international forum showcasing cutting edge research in vision science (January 15-18, 2009). The conference looked at Asia as an eye research hub and the future of vision science research. This is the first time Asia ARVO was held in India. Over 1200 delegates attended, representing academic and research institutions from across 35 countries. (See Seminars & Workshops, page 55)

Second Champalimaud Research Symposium
The Second Champalimaud Research Symposium was held on January 30, 2009. The annual symposium is organized by the Champalimaud Translational Centre for Eye Research (C-TRACER), a collaborative effort between the Antonio Champalimaud Foundation of Portugal and LVPEI. The Second Champalimaud Lecture on ‘Evolution of primate color vision’ was delivered by Dr Jeremy Nathans, Professor of Molecular Biology and Genetics at the Johns Hopkins University School of Medicine, Baltimore, USA, as an online video presentation. Notable among the other distinguished speakers were Dr V S Chauhan, Director, International Centre for Genetic Engineering and Biotechnology, New Delhi; Dr William M Bourne from Mayo Medical Center, Rochester, USA; and Dr K Vijay Raghavan, Director of National Centre for Biological Sciences, Bangalore.
Excellence | Equity

Foundation Day – Turning 22

Awards for long service, prizes for sports and cultural activities, and live entertainment characterized LVPEI Hyderabad’s 22nd Foundation Day celebrations on October 17, 2008. The LVPEI network has grown larger and wider over the past two decades, and this was reflected in the spirit of participation from the entire staff. There was music, dance, poetry and mimicry, items showcasing the depth of talent that often lies buried and forgotten in the business of every day work. Staff members who have been with the Institute for well over a decade evoked nostalgia with their fond recollections about the early days.

Dr Abdul Kalam and Pandit Jasraj at the Institute

Former President of India Dr APJ Abdul Kalam was at the Institute for an eye surgery in December. An old friend of LVPEI he stayed with us for 3 days. Post surgery he went on an impromptu tour of some areas of the Institute, as always striking an instant rapport with everyone he spoke to. Classical music maestro Pandit Jasraj came to visit Dr Kalam, and gave a spontaneous recital at LVPEI’s Patodia Auditorium.

Visiting delegates

Canadian Deputy Minister of International Trade Ms Marie-Lucie Morin and High Commissioner designate Mr Joseph Caron headed a Canadian delegation to LVPEI on September 9, 2008. They discussed collaborative projects in the area of stem cells and regenerative medicine. Seen here with Dr Gullapalli N Rao, Chairman, LVPEI.

Australian Foreign Minister Mr Stephen Smith, Australian High Commissioner in New Delhi Mr John McCarthy, and other senior officers also visited LVPEI, looking at key areas for collaboration, such as healthcare, science and technology. The Australian government had earlier announced a package for development of eye care in the Western Pacific, utilizing the LVPEI model of eye care delivery as a key feature.

Dr APJ Abdul Kalam at the Sudhakar and Sreekanth Ravi Stem Cell Biology Laboratory and (right) listening to Pandit Jasraj
Dr Kalam at LVPEI Bhubaneswar

Dr APJ Abdul Kalam, former President of India, visited LVPEI, Bhubaneswar, on May 9, 2008. Dr Gullapalli N Rao, Chairman, and Dr Taraprasad Das, Director, LVPEI Bhubaneswar, received him. In his lecture ‘Light to see – a beautiful vision’ Dr Kalam spoke of the need to develop indigenous medical equipment. Advocating free school eye screening for all children, he urged every ophthalmologist and paramedical staff member to address the eye care needs of at least 20 people in rural areas, each year. “On this front LV Prasad Eye Institute, Bhubaneswar, scores 200 out of 100”, he quipped.

The Emami open-air theatre was inaugurated on the occasion by Ms Priti Sureka, Director, Emami Foundation. Valued donors such as Mrs Lalitha Raghuram, India Country Director, Operation Eyesight Universal, Mr M S Ramachandran, Chairman, Community Development, BHP Billiton, and Mr B D Sureka, Director, Hartex Rubber, shared the history of their partnership with the LVPEI family. Dr Abdul Kalam toured the Institute and visited the banyan tree that he had planted at the Institute’s inaugural in July 2006. He also interacted with the staff of other LVPEI campuses through video-conferencing.

Miriam Hyman Children’s Eye Care Centre

The Miriam Hyman Children’s Eye Care Centre (MHCECC) was inaugurated on July 3, 2008, amidst the second anniversary celebrations of LVPEI, Bhubaneswar campus. The Centre was inaugurated by Chief Secretary of Orissa Mr Ajit Tripathy, in the presence of Mrs Mona Sharma, Secretary for Women and Child Welfare, Mr Rod Pryde, Country Director for Cultural Affairs from the British council and Ms Esther Hyman, Trustee, Miriam Hyman Memorial Trust, UK. Later, Ms Esther Hyman and Mr Rod Pryde planted saplings.

Dr Gullapalli N Rao, Chairman, LVPEI group, stated the mission statement for MHCECC, “By 2012, no child in Orissa should be deprived of excellent eye care service irrespective of the ability to pay, and by 2020 no child in Orissa should be needlessly blind.”

Dr Taraprasad Das, Director, Bhubaneswar campus, said, “I dream that the Centre grows to an Institute of its own – the Miriam Hyman Children’s Eye Institute, in 5 years. It will be an institute where we create and practice new knowledge, an institute where we translate medicine from lab to clinic and from clinic to curbside.” (See also Across the network, page 12)
Excellence | Equity

Education

The Regional Sterrad Users meeting on May 17, 2008, helped institutions using Sterrad NX to share experiences and latest information on the instrument. There were 11 external participants from three hospitals – Ayush Hospital, Bhubaneswar; MCL, Talcher; and MCL, Ibpal, Sambalpur. Dr Savitri Sharma, Head, Laboratory Services, spoke on the Need for surveillance in OR. The program was supported by Johnson and Johnson.

Thirty-four final year nursing students from Kalinga School of Nursing, Bhubaneswar, came for an observation visit; they attended classes on sterilization procedures and aseptic measures, from May 23 to 24.

In our quest to achieve higher standards, the Champions training for Six Sigma was conducted on October 12, 2008. Consultants, executives and key persons from different departments attended the training program, which included presentations by Mr Anand from Svelte Informatics Pvt Ltd, Bangalore, group exercises and team-work.

An Eye Diabetic Public Forum was held on October 20, 2008. The speakers included Prof Pran N Nagpal from Retina Foundation, Ahmedabad, Dr J Kishore, and Dr Ambarish Padhee.

A Health Awareness program was conducted on November 16, 2008, where Mr M H Dalmia, President & CEO, OCL Limited, delivered a talk on ‘Naturopathy – the healthy way of life.’ Around 80 delegates participated in the seminar. Mr Dalmia toured the institute with Dr Taraprasad Das, Director, LVPEI, Bhubaneswar.

A training program on Basic Life Support was conducted on February 19, 2009, by a team from CARE Hospitals, Visakhapatnam and Bhubaneswar campuses. There were 29 participants including 7 from LVPEI Bhubaneswar.

On a wintry morning in November, 105 students of Sai International School, Bhubaneswar, made the most of the institute’s lush gardens, playing games and running around. They saw the fountain, open-air theatre, and garden. The staff enjoyed playing with the children.
Community Outreach

- A total of 380 schoolchildren between 6-15 years of age from Sai International School, Bhubaneswar; Bhairabi School for the Multiple Handicapped, Khurda; Louis Braille School for the Blind, Khurda; and Harsha Mission School for Deaf and Dumb, underwent eye check-ups. Of these 44 were identified with refractive errors and advised spectacles.

- The institute also trained 12 schoolteachers in screening students with eye problems in a classroom situation.

- As part of our community outreach programs, 211 people were screened for eye diseases and 43 people received surgical treatment.

An eye check-up program at Bada Machhapur village was organized on July 20, 2008, in association with an NGO, Bharat Vikash Parisad. A total of 66 patients came for eye check-ups. An eye screening program for residents of Maruti Villa was organized on July 27, 2008, in which 48 people underwent eye examinations. Those identified with eye problems were treated or operated upon.

On August 17, 2008, a diabetes screening program was organized, where 49 people underwent eye examination.

- During the year the institute trained 102 Anganwadi Supervisors sponsored by the Women and Child Welfare Department, Government of Orissa, and 41 community health workers from an NGO Sri Satya Sai on how to screen children and adults for eye diseases. The trained workers will help identify people with eye problems in their areas on an ongoing basis and refer them for treatment to LVPEI.

- On Children’s Day, November 14, 2008, an eye examination program for students of Harsha Mission School for Deaf and Dumb was organized.

Documentary on Children’s Centre

KTF films, San Francisco, USA, are producing a documentary film ‘Love, Hate, Love’ on three living memorials borne out of terrorist tragedies. One of them is the Miriam Hyman Children’s Eye Care Centre (MHCECC) at LVPEI Bhubaneswar, a tribute to Miriam Hyman who lost her life in the London bombings in July 2005. The team, Ms Dana Natchman and Mr Don Hardy, accompanied by Esther Hyman, came in March 2009. They shot footage focusing on pediatric OPD, rehabilitation and surgical services, and interviewed children and parents.

Best green campus

LVPEI Bhubaneswar campus received Nagar Bandhu Samman-2008 award for best green campus from Bhubaneswar Municipality Corporation. August 31, 2008
News from the GMR Varalakshmi campus, Visakhapatnam

Diabetic Retinopathy Awareness Program launched
The GMR Varalakshmi campus is leading a new public health initiative – the Diabetic Retinopathy Awareness Program, which was launched on 11th March 2009 by Dr APJ Abdul Kalam, former President of India.

The program, supported by individuals and corporate houses, will adopt a three-tiered approach: raising awareness levels through campaigns; targeting diabetic patients with education forums; and helping patients through one-on-one interactions with specialists and free eye check-ups. As the program gains momentum, diabetic patient volunteers will educate others, making it a community-owned program.

Donors’ Day
The Institute celebrated Donors’ Day the same day, with Dr Kalam felicitating our principal and founding donors: the GMR Group, Operation Eyesight Universal, Nimmagadda Foundation, Drs Madhavi and NV Shastry, Mr Appala Raju, Mr R Raghu, Mr Lalitesh Katragadda and Mr O Naresh. Dr Merle Fernandes, Director, LVPEI, Visakhapatnam, presented a campus update. Dr Gullapalli N Rao, Chairman, LVPEI group, acknowledged the donors’ generosity in sharing their “Three Ts – time, talent and treasure.”
Cutting Edge 2008: Oculoplasty and Ocular Oncology Update

The Oculoplasty and Ocular Oncology Update (Cutting Edge 2008), was held on November 30, 2008. The guest faculty included Dr Ashok Grover, Sir Gangaram Hospital, New Delhi, Dr E Ravindra Mohan, Sankara Nethralaya, Chennai, and Dr CP Venkatesh, Prabha Eye Clinic, Bangalore. The LVPEI faculty included Dr Santosh Honavar, Dr Milind Naik, Dr Ramesh Murthy, Dr Suryasnata Rath, Dr Roshmi Gupta, Dr Sima Das and Mr Kuldeep Raizada. Over 90 delegates attended, including fellows and doctors from LVPEI’s secondary centres and Hyderabad campus. The program combined didactic lectures, case discussions and video based presentations, and focused on issues most likely to benefit the general ophthalmologist.

Retina Congress

The Retina Congress held at GMR Varalakshmi campus (March 28-29, 2009) parted with convention and attempted a completely new format: the entire meeting was in the form of case presentations and videos, and evoked great interest among delegates and panelists alike. Most of the 114 delegates were regular practitioners from all over India. The panelists included Dr Lingam Gopal from Chennai, Dr Mahesh Shanmugham from Bangalore, Dr Manish Nagpal from Ahmedabad, and LVPEI faculty from the three campuses.

Many of the cases were presented by our own alumni in practice; the sessions were lively and informative. For each case delegates volunteered their own experiences and the panelists helped put the discussion in perspective. Dr Lingam Gopal commented to Dr Avinash Pathengay, Organising Secretary, that this was the best retina meeting he had attended anywhere in the world!

Sixty delegates participated in the Operation Eyesight Universal partners’ meeting held from February 12-14, 2009. The meeting focused on development, financial management and planning of community eye care programs, and was conducted by Ms Lynda Cherry, Vice-President of Overseas Programs (inset), and Ms Lalitha Raghuram.
Institute celebrates second anniversary
The Visakhapatnam campus celebrated its second anniversary on July 7, 2008, by organizing a free diabetic retinopathy screening camp (July 6-8, 2008). The camp was supported and inaugurated by Mr O Naresh, Chairman, Symbiosys Technologies. At the camp 342 diabetic patients underwent a complete eye examination including a fundus exam for diabetic retinopathy. The faculty made a patient education presentation on diabetic eye diseases.

The evening celebrations were marked by music, song and dance by the staff and patients of the Vision Rehabilitation Services. The spirited performances by physically challenged children amazed the audience. Prizes were awarded to the winners of the games and competitions held as a run up to the day, as well as Best Employee awards.

New facilities
PASCAL laser acquired
The PASCAL laser, one of the first in the country, was inaugurated by Mr P Janardhana Rao, Mayor of Visakhapatnam. The laser allows faster treatment of retinopathy, with greater convenience and less morbidity. The campus also acquired the technically advanced Infiniti phacoemulsification machine.

New examination rooms
Three examination rooms, fitted with all OPD instrumentation, were inaugurated for the Zeiss Academy educational initiative, by Dr Madhavi, one of our founding donors, Mr K Doora Babu, Deputy Mayor, Visakhapatnam and Mr G Ramesh Babu, Deputy Commissioner, Visakhapatnam. These rooms will be dedicated to training ophthalmologists in clinical skills.

Education
Six Sigma training
In our quest to achieve higher quality standards, the Champions training for Six Sigma and Lean was conducted at the GMR Varalakshmi campus on August 31, 2008. The program included exercises in team-work and problem solving. The staff participation was enthusiastic and spontaneous.
Endowment lectures

**Pushkarlalji Tibrewala Public Lecture**

The O P Tibrewala Foundation organized the Late Pushkarlalji Tibrewala Public Lecture 2008 and Award on August 25, 2008, coinciding with Eye Donation Fortnight. Guest speaker Dr M Srinivasan, Director and Head of Cornea Services at the Aravind Eye Care System, Madurai, and president of the Eye Bank Association of India, spoke on ‘Eye Banking in India: problems and solutions.’

The lecture series was initiated by industrialist Mr Om Prakash Tibrewala, former District Lion Governor and former president of the Federation of Andhra Pradesh Chambers of Commerce and Industry, series in memory of his father. He honored select persons for promoting eye donation: Mr Raghuram of Multi Organ Harvesting Aid Network (MOHAN) Foundation, Ln. Rajwant Singh Gulati, Ln. Dr A Divaker Rao of ADR Hospital, Mr Pankaj Sawla (Manav Mitra Samithi), Mr Kachhi Mitra Mandal and Mr Satish Modi, Dalera Foundation. He also felicitated the Ramayamma International Eye Bank team of LVPEI for the Hospital Cornea Retrieval Program, which has successfully eliminated the waiting list for corneal transplants at LVPEI, Hyderabad.

**Dr Rustom D Ranji Rotary Lecture**

The Dr Rustom D Ranji Rotary Award and Lecture on September 18, 2008, this year offered LVPEI and members of the Rotary Club of Hyderabad (District 3150) the opportunity to listen to Dr L Vijaya, Director, Glaucoma Services, Sankara Nethralaya, Chennai. In her talk entitled ‘From population to people – ophthalmic research and your eye’, Dr Vijaya spoke of the need for regular screening and early intervention for progressive eye diseases such as glaucoma, emphasizing the need for comprehensive eye examinations especially in the elderly and high-risk population. The Rotary Club of Hyderabad Dist 3150 had set up a corpus fund in 1997-98, and continues to sponsor an annual lecture in Dr Rustom D Ranji’s memory.

**Dr C Syamala Bhaskaran Endowment Lecture**

Dr Lingam Gopal, Chairman, Sankara Nethralaya, Chennai, delivered the 12th Dr C Syamala Bhaskaran Endowment Lecture on October 7, 2008. He spoke on ‘Retinopathy of Prematurity – Medical and Social Aspects’.
Alumni news

Alumni Day
On October 18, 2008, approximately 25 alumni from various parts of India and Hyderabad attended LVPEI’s annual alumni meeting and to visit their alma mater. Guest invitee Dr Mahesh Shanmugham, vitreo-retinal specialist from Chennai, spoke on ‘Innovations in medical and surgical retina’. Alumni and LVPEI faculty conducted CME sessions on retina, cornea, glaucoma, pediatric ophthalmology, oculeoplasty, oncology and ocular esthetics. The event culminated with a dinner on a boat excursion on Hussainsagar lake, where everyone danced the night away.

LVPEI alumnus creates history in Nigeria!
Dr Bade Ogundipe from Nigeria spent 15 months at LVPEI, Hyderabad, doing a fellowship in Cornea & Anterior Segment (January 2006 – March 2007). Back in Nigeria, he was in the news in September 2008, after performing the first corneal transplant in 36 years at the University College Hospital (UCH), Ibadan. Dr Bade led the team that transplanted the damaged cornea of four patients in collaboration with Sight Life Foundation, USA, who brought the corneas from Seattle, USA.

File photo: Dr Bade (right) at LVPEI during his fellowship with a patient Prof Shitu, also from Nigeria

Alumni highlights

• Newly graduated optometry fellow Mr Om Prakash Maurya launched a Low Vision Rehabilitation Centre at Amritsar Eye Clinic in Dehradun, Uttarakhal, in August 2008. Another participant of LVPEI’s Low vision Awareness Program, Mr Mohd Rafi, who is an LVPEI-trained vision technician, plans to initiate low vision rehabilitation services at a clinic in Haryana, owned by former ophthalmology alumni Dr Vikas Mittal.

• Ranjini Eye Hospital has been accredited by the National Accreditation Board for Hospitals & Healthcare Providers (NABH). It is the first small health care organization in the country to be accredited under this standards. LVPEI alumni Dr Biju Raju is Consultant Vitreoretinal Surgeon at Ranjini Eye Hospital, Kochi.

• Dr Vikas Mittal was awarded the best paper and Dr M C Luthra gold medal at the Uttarakhal Ophthalmic Society meet, October 10-12, 2008. Dr Mittal, a former cornea & anterior segment fellow at LVPEI, is based at Sanjivni Hospital, Ambala, Haryana.

• To commemorate Children’s Day Dr K V Ravi Kumar, former LVPEI fellow, conducted a free Eye Camp Week at Anasuya Rao Eye Clinic, Vijaywada (November 14-20). Schoolchildren were screened for eye problems and medicines distributed free. Vision testing charts were given to schoolteachers to enable them to screen students.
Patient Care Services

The core activity across the LVPEI network is patient care: bringing the best possible care to as many people as possible, in the most efficient manner. While retaining our attention to the most routine of surgeries and eye conditions that affect a majority of people – cataract, refractive error, the diseases of aging – we continue to seek ways of addressing the needs of special groups whose eye care requirements are increasingly urgent, and increasingly complex. Our new children’s eye care centre in Bhubaneswar and the Nimmagadda – LVPEI Children’s Eye Health Initiative across Andhra Pradesh represent one aspect of this, while our new community programs to detect diabetic eye disease in Visakhapatnam and Prakasam district form another. Also significant is our program on glaucoma in which we are critically appraising the issue of detection and care of glaucoma at the primary, secondary and tertiary levels using our pyramidal model.

The number of people who are touched in some way by our services increases by the day; this year, 319,060 people received outpatient care and 38,527 underwent surgery at our 3 tertiary and advanced tertiary centres. The vision rehabilitation services engage with communities as well as individuals in our service areas, making a difference to people’s work, education and social lives.
Hospital

Clinical Services at Hyderabad: Achievements

- The Cornea Services team crossed its earlier record of 1000 corneal transplants in a single year, with 1582 corneal transplants performed in 2008 through quality corneas provided by the Ramayamma International Eye Bank. Very few institutes in the world have achieved this milestone!
- In December 2008 the Retina Services at our Kallam Anji Reddy campus (Hyderabad) crossed the 500 mark, performing 554 retina surgeries in a month.

Patient care

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outpatient visits</th>
<th>Surgical procedures</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Paying</td>
<td>Non-paying</td>
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<tr>
<td>Kallam Anji Reddy Campus, Hyderabad</td>
<td>1,48,104</td>
<td>64,962</td>
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<tr>
<td>Bhubaneswar</td>
<td>44,276</td>
<td>13,106</td>
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<td>GMR Varalakshmi Campus, Visakhapatnam</td>
<td>36,419</td>
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<td>Total</td>
<td>2,28,799</td>
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Surgical procedures

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<tr>
<th>Surgeries</th>
<th>Kallam Anji Reddy Campus, Hyderabad</th>
<th>Bhubaneswar</th>
<th>GMR Varalakshmi Campus, Visakhapatnam</th>
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<tr>
<td>Cataract</td>
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<td>2324</td>
<td>2675</td>
<td>16,676</td>
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<td>Cornea</td>
<td>2701</td>
<td>273</td>
<td>377</td>
<td>3351</td>
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<tr>
<td>Corneal transplants</td>
<td>1082</td>
<td>78</td>
<td>134</td>
<td>1294</td>
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<tr>
<td>Glaucoma</td>
<td>962</td>
<td>147</td>
<td>109</td>
<td>1218</td>
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<tr>
<td>Retina Vitreous</td>
<td>5330</td>
<td>1738</td>
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<td>7648</td>
</tr>
<tr>
<td>Squint</td>
<td>931</td>
<td>65</td>
<td>47</td>
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<tr>
<td>Plastic</td>
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<td>689</td>
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<tr>
<td>LASIK</td>
<td>507</td>
<td>79</td>
<td>148</td>
<td>734</td>
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<tr>
<td>Others</td>
<td>958</td>
<td>172</td>
<td>568</td>
<td>1698</td>
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<tr>
<td>Total</td>
<td>27,924</td>
<td>5565</td>
<td>5038</td>
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<td>4162</td>
<td>126</td>
<td>224</td>
<td>4512</td>
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</table>

The total number of limbal stem cell transplantations during the year was 75 – of these 56 were paying patients and 19 non-paying patients.

College students show commitment

Students from Sri Sarada Degree College for Women, Hyderabad, along with their principal and lecturers, visited LVPEI on December 23, 2008. They distributed post-surgical medical kits to 10 non-paying patients, each containing a pair of sunglasses, eye drops, an eye shield and sterile cotton.

New laser for LVPEI

The Hyderabad, Bhubaneswar and Visakhapatnam campuses have acquired the PASCAL® (Pattern Scan Laser) photocoagulator – an advanced precision scanning laser system to treat retinal diseases using a single spot or a predetermined pattern array. It delivers short 532 nm laser pulses in a rapid predetermined sequence offering improved precision, safety, patient comfort, and reduced number of sessions.
### Children’s Eye Care Centres*

<table>
<thead>
<tr>
<th>Centre</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
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<td>33,468</td>
<td>2310</td>
<td>2127</td>
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<td>1767</td>
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<td>282</td>
<td>301</td>
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<tr>
<td>Nimmagadda Prasad Children’s Eye Care Centre, Visakhapatnam</td>
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<td>6071</td>
<td>299</td>
<td>275</td>
<td>574</td>
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<td><strong>Total</strong></td>
<td>32,675</td>
<td>14,111</td>
<td>46,786</td>
<td>2891</td>
<td>2703</td>
<td>5594</td>
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</table>

*These numbers are included in the patient care summary on the facing page

### Another first for LVPEI

LVPEI now offers a standardised neonatal electrophysiology recording service, the first ever in India, for both term and preterm newborns. This is an objective method of detailed functional testing in the eyes of newborns and infants, to monitor development and efficacy of treatment. The Espion Electrophysiology recording equipment and software were donated by Diagnosys, USA. Dr Anne Fulton and Ms Susan Eklund from the Department of Ophthalmology, Children’s Hospital, Harvard Medical School, Boston, helped standardise protocols and staff training.

### Ocular Oncology Service

In 2004, Dr Parin Vakharia set up a Corpus Fund for treatment of children with eye cancer, in memory of late Ms Olive Swoboda. The fund has helped provide quality tertiary cancer care to hundreds of underprivileged children free of charge. This year 2047 procedures were performed on children with retinoblastoma, of which 981 were treated absolutely free. The procedures performed included examination under anesthesia, laser transpupillary thermotherapy and cryotherapy, as well as hospital-based chemotherapy, and surgical procedures like enucleation with orbital implant and plaque brachytherapy.

### Retinopathy of Prematurity (ROP) program

LVPEI has set up a two-way screening and referral system to reduce delays in treating babies with Retinopathy of Prematurity (ROP). The Hyderabad campus provides tertiary care to babies undergoing ROP management at Priyamvada Birla Eye Hospital, Kolkata. This requires tremendous team effort due to the challenges of transportation, scheduling surgery and ascertaining fitness for general anesthesia in these very tiny babies.

<table>
<thead>
<tr>
<th>ROP program</th>
<th>Hyderabad</th>
<th>Bhubaneswar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Babies screened</td>
<td>904</td>
<td>103</td>
</tr>
<tr>
<td>(475 in NICUs*, 429 at LVPEI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser sessions</td>
<td>131 ( 21 in NICU)</td>
<td>8 (14 eyes)</td>
</tr>
<tr>
<td>Pediatric retina surgeries</td>
<td>490</td>
<td>14</td>
</tr>
<tr>
<td>ROP surgeries</td>
<td>38</td>
<td>1</td>
</tr>
</tbody>
</table>

The low number of ROP surgeries is a measure of the success of our screening and laser program.

*NICU – Neo-natal Intensive Care Unit
### Vision Rehabilitation Centres

#### Centres for Sight Enhancement

<table>
<thead>
<tr>
<th></th>
<th>New client visits</th>
<th>Follow-up clients</th>
<th>Total</th>
<th>Low vision devices prescribed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meera &amp; L B Deshpande Centre, Hyderabad</td>
<td>2149</td>
<td>1230</td>
<td>3379</td>
<td>2144</td>
</tr>
<tr>
<td>NTPC Centre, Bhubaneswar</td>
<td>225</td>
<td>20</td>
<td>245</td>
<td>962</td>
</tr>
<tr>
<td>Bob Ohlson Centre, Visakhapatnam</td>
<td>445</td>
<td>116</td>
<td>561</td>
<td>1035</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2819</strong></td>
<td><strong>1366</strong></td>
<td><strong>4185</strong></td>
<td><strong>4141</strong></td>
</tr>
</tbody>
</table>

#### Rehabilitation of the Blind & Visually Impaired

<table>
<thead>
<tr>
<th>Rehabilitation Services</th>
<th>Dr PRK Prasad Centre, Hyderabad</th>
<th>Bhubaneswar</th>
<th>Visakhapatnam</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New client visits</td>
<td>3246</td>
<td>538</td>
<td>814</td>
<td>4598</td>
</tr>
<tr>
<td>Follow-up clients</td>
<td>2100</td>
<td>92</td>
<td>268</td>
<td>2460</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Service Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Skills Training</td>
</tr>
<tr>
<td>Instruction in use of</td>
</tr>
<tr>
<td>– Assistive devices (computers)</td>
</tr>
<tr>
<td>– Low vision devices</td>
</tr>
<tr>
<td>Environmental modification</td>
</tr>
<tr>
<td>Educational guidance</td>
</tr>
<tr>
<td>Vocational guidance</td>
</tr>
<tr>
<td>Supportive guidance</td>
</tr>
<tr>
<td>Referral to other services</td>
</tr>
</tbody>
</table>

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

### Summer Camp

Summer camps at the Vision Rehabilitation Centres are not new. However, for the first time almost a month-long integrated summer camp for visually challenged children and their sighted siblings was organized (May 5-30, 2008) in which 59 children aged between 5 and 15 years participated enthusiastically. The activities included learning yoga and basic language skills, general knowledge, mobility, and Braille, as well as dance, music, games, arts and crafts, and field trips. The camp concluded with a joyous music and dance program, with children confidently performing on stage to show their talents. Several dedicated volunteers assisted the rehabilitation staff.

### Fun Camp for children

The annual 'Fun Camp' was held on December 2, 2008, at a water sports entertainment park, with almost 250 participants, including visually challenged children, their sighted siblings and family members. These camps offer children an opportunity to interact with their peer group in a relaxed environment. Group and individual competitions were held, such as blowing and bursting balloons, sorting balls, play acting, lemon and spoon race, and object identification. LVPEI's dedicated team of volunteers Mrs and Mr Akila Ravi, Mrs Shanthi Thirumalai, Mrs Neena Verghese, Mr Shesheshia, Mrs Praveena and Mrs Sujitha Reddy helped in coordinating the activities.
Dancing for a Difference
Ms Sowjanya Kilaru, who had volunteered at the rehabilitation centres in 2007, was felicitated along with her parents on February 28, 2009, for her remarkable commitment in raising funds for needy children through dance. “It was the children at the eye institute who inspired me to raise money,” she said. Her not-for-profit organization ‘Dancing for a Difference’ hosted a fundraiser in Springfield, MA, USA, in September 2008. The funds will help provide free eyeglasses and other sight enhancing devices for needy children, and support special programs at the Vision Rehabilitation Centres.

Forum on ‘Adapt to Vision Loss’
The Public Education Forum on ‘Adapt to Vision Loss’ was held on July 27, 2008. About 80 people attended; several of them came the following day to use the centres’ services.

Interactive program for adults
An interactive session on ‘Achieving independence in all aspects’ was organized for visually challenged adults on May 10, 2008. Nine clients and their family members discussed educational and employment opportunities in an open group discussion.

World Disabled Day
World Disabled Day was commemorated on December 9, 2008 in the urban slums of Hyderabad to create awareness about the needs, rights and potential of persons with disabilities. A vision-screening program was attended by 150 people; of these 15 were advised surgery and 32 were given free spectacles.

Self-help group meetings
Two self-help group meetings were conducted in Gandhinagar and Venkat Ramireddy nagar, in which many people with disability and their family members discussed issues such as independent skills training, employment avenues and advocacy.

Instructional training manual
The Job Access With Speech (JAWS) screen reading assistive software enables visually impaired persons to use computers independently. An instructional manual has been prepared to provide step-by-step training in the use of Microsoft Office programs (Word, Excel, and PowerPoint) and how to use the internet. The manual is available for all LVPEI clients.

Training
Drs Joy and Obiora from Nigeria completed the 3-month short-term fellowship program in low vision rehabilitation on September 30, 2008. They took back Low Vision Kits to initiate low vision rehabilitation services in their region.

From Visakhapatnam campus
Three interactive workshops for visually challenged adults on ‘Achieving independence in all aspects’ were organized in October, November and December 2008 at the Bob Ohlson Centre for Sight Enhancement. An average of 30 young adults participated in each workshop. Direct beneficiaries (visually challenged patients) led the workshop.

Rehab clients make us proud!
Sai Vindhya, Zeba Parveen and Venkatesh, clients of the Dr PRK Prasad Centre for Rehabilitation of Blind and Visually Impaired, excelled in the Class X Board examinations held this year. They have been regular visitors since childhood and have received counselling, guidance and training in special skills (Braille, Taylor Frame, Abacus, etc.) here. Their parents gratefully acknowledge the support of the centres as a significant factor in the success of their children.
Eye Banking

“We very much appreciate the services being rendered by RIEB & LVPEI. We are happy to be a part of your noble intentions and efforts to eliminate blindness. We lament his demise and wish he had lived longer. But we wanted someone to see the light of this world, so we donated his eyes. We feel satisfied that two blind persons can now see the world through the eyes of our beloved son.” — Expressions from a donor family

<table>
<thead>
<tr>
<th>affiliate centres*</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramayamma International Eye Bank, Hyderabad</td>
<td>2959</td>
</tr>
<tr>
<td>drushti daan Eye Bank, Bhubaneswar</td>
<td>83</td>
</tr>
<tr>
<td>Mohsin Eye Bank, Visakhapatnam</td>
<td>250</td>
</tr>
</tbody>
</table>

* Community eye banks on our campus
* RIEB affiliate centres at Suryapet, Nidadavole, Tanuku, Madanapalle and other eye banks

Corneas collected

| Ramayamma International Eye Bank, Hyderabad | 1109 | 536 | 1,314 | 2959 |
| drushti daan Eye Bank, Bhubaneswar | 63 | 20 | |
| Mohsin Eye Bank, Visakhapatnam | 204 | 46 | |

<table>
<thead>
<tr>
<th>Used for research</th>
<th>Provided to surgeons outside LVPEI</th>
<th>Provided to other LVPEI campuses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramayamma International Eye Bank, Hyderabad</td>
<td>1424</td>
<td>333</td>
<td>114</td>
</tr>
<tr>
<td>drushti daan Eye Bank, Bhubaneswar</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mohsin Eye Bank, Visakhapatnam</td>
<td>29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Our gratitude to all affiliates who helped us with donor corneas

The Khammam Eye Bank, Khammam (173); Smt. R R Lions Eye Hospital, Nidadavole (215); Mohsin Eye Bank, Visakhapatnam (2); Yana Old age Home, Yana (42); Shri KVB Reddy IRCs Eye bank, Kurnool (28); Lions Club of Suryapet, Suryapet (83); Regional Eye Hospital, Warangal (112); Lions Club of Janagong, Janagong (35); Lions Club of Karimnagar, Karimnagar (115); Lions Eye Hospital, Palakol (22); Chiranjeevi Eye & Blood Bank, Hyderabad (45); Sudarsani Eye Hospital, Guntur (37); Lions Club of Mahaboobabad, Mahaboobabad (30); Sadhuram Eye Hospital, Hyderabad (10); Rotary Eye Hospital, Vuyyur (12); Sioam Eye Centre, Madanapalle (4); Mullapudi Venkatayudu Eye Center, Tanuku (18); Badam Balakrishna Eye Bank, Kakinada (90); Lions Club of Siricilla, Siricilla (12); Rajiv Gandhi Super Sp. Hospital, Raichur (12); Mathroobhoomi Charitable Trust, Narsampet (2); District Hospital, Nandyal (6); Lions Club of Nizamabad, Nizamabad (8); District Blindness Control Society, Nalgonda (8); Dr. Akbar Eye Hospital, Anantpur (22); SVRR Govt. General Hospital, Tirupati (18); Sneha Seva Samithi, Proddutur (10); Lions Club of Cherial, Cherial (14); Adarsini Eye Centre, Nandyal (10); Megur Eye Care Centre, Bidar (2); Sri Sai Rupa Netralaya, Repalle (4); Lions Club of Mancherial, Mancherial (4); Madhav Neta Pedhi, Secunderabad (18); Lions Club of Thorrur, Thorurr (10); Govt. Regional Eye Hospital, Kurnool (8); Swapna Nursing home, Guntakal (8); K V Reddy Lions Eye Hospital, Nizamabad (2); Krishna Institute of Medical Sciences, Narketpally (20); Lions Eye Hospital, Bodhan (10); Paramahamsa Yogananda Netralaya, Vemagiri (4); Jnanananda Eye Bank, Bhimavaram (4); Lions Club of Ramagundam, Ramagundam (8); Dantavarti Eye Donatio Centre, Tenali (2); Lions Dundo Eye Bank, Secunderabad (3); Ram Reddy Lions Eye Hospital, Mahabubnagar (4); Govt. General Hospital, Anantapur (4); Pavani Eye Hospital, Jagityal (2); Govt. Hospital, Guntur (2).
Product Development

Mc Carey Kaufman’s medium for corneal preservation
The Ramayamma International Eye Bank, LVPEI, Hyderabad, produced 18,780 vials of the Mc Carey Kaufman (MK) medium during the year. The medium, developed by LVPEI with support from the Rotary Club of Hyderabad, helps preserve corneas for a period of four days. We supplied 16,621 vials of the MK medium to 217 national eye banks and 3 international eye banks.

National

International
Dhaka, Bangladesh; Nairobi, Kenya; Yongah, Myanmar

Software development
The number of trained personnel who can detect early changes in retina due to diabetes is limited. In order to meet this challenge, a software has been developed to identify persons with diabetic retinopathy. Developed by LVPEI in collaboration with the International Institute of Information Technology (IIIT), Hyderabad, the software can be operated by a technician with minimal training. It allows a technician to detect abnormalities, and offers suggestions about the urgency of referral and treatment required. Pilot testing has been completed and the final version will be available soon.

Vision stimulation
Vision stimulation material is used to stimulate the residual vision of children born with impaired vision, in conditions such as retinopathy of prematurity, congenital cataract, ocular albinism, optic nerve and retinal disease, and neurological abnormalities of the visual pathways and visual centers of the brain. Vision stimulation is a part of the early intervention approach used in children from birth to 5 years of age.

Vision stimulation remedial therapy helps improve a child’s eyesight, eye movements and coordination, focusing, depth perception, color and peripheral vision, and the ability to integrate this information with the other senses. These pattern charts have been developed by LVPEI for use in vision stimulation therapy.
Patientspeak

Numbers do mean a lot, and we are gratified when we note that we have been able to extend the arm of eye care to thousands of people, changing their lives in important ways. But it is the individual stories that warm the heart and reinforce our commitment, every day, every month, and every year. To know that our work has healed lives, by restoring vision or allowing people to see the finer details of colour and shape and texture, or facilitating a child’s education and an elder’s independence – ultimately, that is what makes it all worthwhile.
Mr. Johanssen Ros, known at the Institute as Jan Ros, is an industrialist from the Netherlands. He has a manufacturing facility for composite pipes used in oil, gas and water applications and lives near Amsterdam with his wife and son.

In 1995, Jan had an accident in his factory when a high pressure tube from the injection machine exploded in his face. The tube contained acid. Jan was not wearing any protective glasses. “It was like steam coming out of a pressure cooker. It happened so fast, before I could even react, and went right into my eyes,” Jan recalled. Acting very quickly, Jan started splashing water on his face and continued washing his face for over two hours. There was intense burning and pain in his eyes as the acid was not soluble in water. The Rotterdam Eye Hospital wanted Jan to be hospitalised but he felt the doctors were not very clear on how to treat him. So he did not stay.

Jan found he couldn’t drive any more. He could not bear bright light even with his eyes closed. This continued for 3 months; slowly his eyes felt more normal, though he remained sensitive to light. While his eyes were far from healthy, he was able to live with the condition.

Then in 2002, disaster struck again! A child accidentally stabbed Jan’s left eye with his finger. The fingernail damaged the cornea and it became totally white – his vision dropped to less than 10%. The eye became worse over the next three years. Jan was now desperate for a solution as both his eyes were severely compromised. Finally, late in 2005, he met a doctor in the UK, who was using stem cell therapy to repair damaged eyes. Jan was kept on a waiting list in the UK.

After waiting for over a year, Jan began looking for other hospitals on the internet. It was mid 2007. Looking at the LVPEI website, he could not believe what he read. He sent an email to the Head of Cornea Services Dr Virender Sangwan, presenting his case and asking for help. Dr Sangwan immediately replied asking for his file from the hospital in UK. It took over four months to get the file. Finally on July 21, 2008, Jan came to LVPEI from Amsterdam. The doctor was so optimistic that Jan agreed to have a biopsy of the stem cells. Jan flew back to Amsterdam with a prayer on his lips. He could not believe that the process had started so quickly.

A couple of weeks later the stem cell transplant surgery was performed – his vision improved, but the sensitivity to light remained. Back in Amsterdam, he visited an eye specialist in Rotterdam every fortnight, whom LVPEI doctors stayed in touch with through e-mail. Half way through the convalescence period Jan had severe pain in the eye – he was allergic to the eye drops administered by the Rotterdam hospital. Jan was advised to stop using the drops, but it was too late – now there was a white spot in the left eye.

The doctor in Rotterdam suggested a corneal transplant. “She said you are European, it would be better if you used a corneal tissue from a European donor,” Jan says. But donor tissues were limited and the average waiting period was 5-9 months. Jan decided to go back to Hyderabad. “When I saw the Ramayamma International Eye Bank at LVPEI, I was more than convinced.” The doctor in Rotterdam refused to monitor him post-surgery if he had the corneal transplant done in India. So Jan was referred to two other doctors for the follow-up, in UK and Germany.

A week after the surgery Jan was already seeing better. For over 12 years Jan’s mornings would begin in the dark, the curtains were always drawn in his bedroom. He would switch on a zero powered bulb, put on his dark glasses and then open the curtains bit by bit. Getting accustomed to the light gradually was a painful ritual that lasted an hour every day. “For the last 12 years, I have been wearing dark glasses. But today, I don’t need them, however bright it is,” Jan exults. “I am very impressed with how efficient the hospital’s systems are. I was really lucky to find out about LVPEI on the internet. It is difficult for Europeans to learn about LVPEI as most of them do not speak or read English. They think India is a third world country and have a different image of what is possible here. I have traveled across the world; after the success of my surgery I believe that at LVPEI anything is possible.”

Jan’s wife Ilsa and his toddler son Vincent, who always saw him in dark glasses, are also celebrating. “Sometimes I just close my right eye to enjoy the marvelous improvement in the left! I am very grateful that a stranger in India supported an unknown patient from the Netherlands. My life has changed after coming to India, thank you all!”

My life has changed!
Putting children first

The Miriam Hyman Children’s Eye Care Centre (MHCECC)* at Bhubaneswar is a world-class tertiary care pediatric centre, addressing a wide range of eye diseases in the state of Orissa (population: 40 million). Though in its infancy (set up on July 3, 2008), MHCECC has taken bold steps towards becoming a centre of excellence in pediatric eye care. It boasts of state-of-the-art equipment and offers multispecialty care to children from all sections of society, who would otherwise have no access to eye care. Plans are under way to set up an integrated pediatric eye cancer centre within MHCECC by the end of 2009, with multi-modal treatment and a fully functional pathology laboratory.

The Centre conducts school eye screening programs, partnering in a government project to screen children in schools for the visually impaired. The highly trained faculty of MHCECC participates in national and international conferences and contributes to peer reviewed journals. The Centre is working towards multipronged holistic pediatric eye care, taking eye care in eastern India to a whole new level. Here are a few stories of children who have undergone sight restoring surgery at the centre.

**Little Tulika** was brought to the centre when she was 53 days old. Her parents had noticed a protuberance over her left eye, which was increasing in size, and were extremely worried.

A detailed examination revealed that the little one had a large mass behind her left eye, which was pushing the eyeball forward. The size of the mass and its rapid progression constituted a threat to her vision. The child underwent surgery and the mass was removed. It was found to be a benign tumour (capillary hemangioma) known to respond to steroid injections. Tulika received several steroid injections into the tumour over the next couple of months and it gradually became smaller.

Tulika is now 14 months old and fast growing into a happy and playful little girl.

**Jaydeep** was brought to the centre with concerns of asymmetry of the face. His parents had noticed a gradual progressive upward displacement of his right eye. At the Institute, a complete medical examination including a comprehensive check up of the eye showed a mass involving the right sinus (maxillary sinus in the midface), which had invaded the orbit from below. At the Oncology Clinic the child was advised computed tomography, which was helpful in performing a biopsy from the mass. The final diagnosis was primary neuroectodermal tumour (PnET) – a rare malignancy that starts from primitive cells.

After a detailed discussion with his parents, Jaydeep was put on multi-modal therapy, involving chemotherapy, surgery and conformal stereotactic radiation therapy to achieve local and systemic control. Four months after the treatment Jaydeep resumed school and is now a healthy and active boy.

**Debabrata** was preparing for his class 10 examinations, but found it difficult to study as he was seeing everything double. He had visited several doctors but no one could guarantee single vision. Finally he came to LVPEI.

The doctors listened to Debabrata’s history carefully. He seemed to have developed this problem after he began using a new pair of glasses. An examination revealed that he was a hyperope, but had been using glasses with a myopic correction for over a year. This had led to excessive accommodation and, subsequently, to esotropia.

Doctors at MHCECC changed his prescription and put him on cycloplegics, hoping it would relax accommodation and restore single vision. But this did not work – he had used the wrong glasses for too long. Finally, after a normal CT scan, doctors decided to operate on him. There was no time for experimentation because exams were looming before Debabrata.

A bilateral medial rectus recession was performed with adjustable sutures; the sutures were adjusted the next day. The double vision disappeared! Debabrata was able to prepare for and take his exams.

Such complex strabismus surgeries are now commonplace at LVPEI, Bhubaneswar.

*names changed
Preventing vision loss at the back of the eye

The Retina Vitreous Services at LVPEI Hyderabad’s Kallam Anji Reddy campus started as a small one-man effort by Dr Taraprasad Das in 1990 in an environment heavily tilted towards anterior segment diseases. The first decade saw the setting up of basic services, initiating research in common eye problems, building training programs and planning towards future growth.

The service was named Smt Kanuri Santhamma Retina Vitreous Centre in the year 1993 after a generous donation from Smt Santhamma’s family. Today, after almost two decades, it has grown into a vibrant, nationally and internationally recognized care provider in all areas of posterior segment disorders. This includes retinal diseases in the tiniest premature babies to the oldest geriatric patients, from healthy adults to diabetics and HIV patients. State-of-the-art diagnostic and surgical facilities complement the clinical evaluation and treatment of these difficult disorders, which include genetic, inflammatory, traumatic, neonatal, age-related, infectious and developmental disorders.

Ten full-time trained faculty across the three campuses (Hyderabad, Bhubaneswar and Visakhapatnam) function as a team to take care of posterior segment diseases besides conducting research, publishing in peer reviewed scientific journals and books, and participating in international clinical trials. The team is also enthusiastically involved in continuing medical education and public education programs, while training national and international fellows in the art and science of the care of these challenging diseases.

Here are case stories of two patients with retinal disease treated at the GMR Varalakshmi Campus, Visakhapatnam.

For Mrs Garkina Daniyamma, the world was going dark at only 40 years of age, when she began losing sight in both eyes. She was referred to L V Prasad Eye Institute, Visakhapatnam, where she was diagnosed with retinal detachment in both eyes, and choroidal detachment in the right eye. The right eye vision was limited to perception of hand movement, and the left eye had inaccurate projection of light rays.

The left eye was judged to have a poor prognosis, and was best left alone, but the retinal surgeon decided to fight for the right eye to the utmost. However, even with a very successful surgery, there were recurring episodes of detachment in the retina. The long-standing detachment was difficult to treat, but since this was Daniyamma’s only seeing eye, the surgeon did not give up.

Ultimately, after four surgeries over a period of seven months, she stabilized. Daniyamma was prescribed spectacles and referred to the Bob Ohlson Centre for Sight Enhancement for consultation. She was trained in money identification and cleaning food grains – both activities that were important in her daily life.

On her last follow-up visit in early 2009, Daniyamma shared her delight on having reclaimed her position as a homemaker, well in charge of her world!

Mr D Chinna Venkata Ramana Rao is an intelligent and active man; even at 75 years of age, his life’s main pleasure is reading. He was naturally worried when he suddenly lost vision in his left eye in January 2009, and even more so when an ophthalmologist told him that he would need to travel to Chennai for appropriate treatment. Instead, he came to LVPEI’s GMRV campus at Visakhapatnam.

The retina consultant diagnosed him with acute retinal necrosis in the left eye, a highly virulent infection of the retina by the Herpes Zoster virus. His vision was by then reduced to counting fingers close to his face. Ramana Rao underwent repeated injections of ganciclovir in the left eye. Along with the injections, he was treated with a finely judged combination of oral antiviral medication and steroids over the next two weeks.

On his follow-up visit in February 2009, the vision in his left eye had improved to 20/40. “I didn’t need to go to Chennai – the treatment was available right here in Visakhapatnam!” he exulted when he started seeing with the eye which was nearly blind a few weeks earlier.
Community Eye Health & Outreach

The International Centre for Advancement of Rural Eye care (ICARE) completed ten years in the field. During the year, we served 1,609,660 people through our community programs, apart from adding to the human resource and infrastructure base for eye care. The year was characterized by a “moving out” of ICARE from the confines of a narrow medical perspective to a broader, community health approach. To approach vision care as the window to improved health of communities, particularly those in the most marginalized regions of the country and the world, is essential if we are to achieve health equity. While remaining sensitive to opportunities for better networking and collaboration across the health sector, ICARE continues to do what it does best – taking primary eye care to communities, and laying the foundations for a better understanding of the rural context and need for eye care, and monitoring the impact of interventions.
International Centre for Advancement of Rural Eye care (ICARE) News & Events

ICARE turns 10!

The International Centre for Advancement of Rural Eye care (ICARE) celebrated its 10th anniversary with a 2-day workshop (December 17-18), with special sessions on leadership development and primary eye care with models for its integration with primary health care. The program was dedicated to the late Mr Kothapalli Rama Rao, who helped set up LVPEI’s second rural affiliate eye care centre Smt Rajeshwari Ramakrishnan Lions Eye Hospital at Nidadvole (a partner hospital).

The guest speakers included Dr A S Rathore, Assistant Director General, Directorate General of Health Services, Government of India; Dr P Srinivasa Reddy of Andhra Pradesh Right to Sight Society; Ms Preethi Pradhan of Aravind Eye Care System; Ms Lalitha Raghuram of Operation Eyesight Universal; Mr Srinivas Sawant of Sight Savers International; Dr S Chandrashekar Shetty of Lions Club International Foundation; Dr Srinivas K Iyengar of Byrraju Foundation; Dr H Sudarshan of Karuna Trust & Vivekananda Girijana Kalyana Kendra; Dr Seetharam of Swami Vivekananda Youth Movement; Dr Gopa Kothari of Operation Eyesight Universal; and Dr Tanuja Joshi of Venu Eye Institute and Research Centre. Dr Rathore released a book on 10 years of ICARE’s achievements ‘Transformations – Taking Eye Care to Communities’.

Representation at IAPB General Assembly

ICARE – LVPEI had a major representation at the 8th General Assembly of the International Agency for Prevention of Blindness, Buenos Aires, Argentina (August 23-29, 2008). At the LVPEI stall the team distributed information material related to its activities and training programs. Meetings were held with various organizations during this time to discuss potential collaborations. Two oral papers and nine posters were presented by the LVPEI team, apart from the plenary and focus sessions on Primary Eye Care and Vision Centres at which Dr Gullapalli N Rao spoke, both in his capacity as outgoing Chair of IAPB and as architect of the LVPEI pyramidal model of eye care service delivery.

Comprehensive Eye Health Program

On October 3, 2008, ICARE, in collaboration with Fullerton India Credit Company Limited, launched a sustainable, comprehensive eye health care program in the slums of Hyderabad. Dr Vani Mohan, Additional Commissioner (IT) & Greater Hyderabad Municipal Corporation’s Asara senior citizens program, was the chief guest. The program will cover 100,000 people for a period of one year, creating a health care inclusive community in the initial phase. All levels of eye care services (primary, secondary and tertiary) will be offered through the LVPEI network.

During the year 6 community screening and 8 children’s screening programs were held. Regular training programs are also conducted for field health volunteers, teachers, and self-help groups.
National Eye Donation Fortnight
On its ninth anniversary on August 15, 2008, our secondary service centre in Madanapalle [Siloam Eye Centre (SEC)] inaugurated an Eye Donation Centre, registered under the Eye Bank Association of India. Present on the occasion were Mr B Siva Reddy, Sub-Collector, local doctors and government executives, women’s group members, philanthropists, and members of the press. SEC Director Dr K Shoba Naveen urged everyone to motivate family and friends to pledge their eyes to reduce preventable blindness.

During National Eye Donation Fortnight (August 25 – September 8, 2008), the SEC staff worked enthusiastically to create awareness about eye donation, displaying posters at 49 clinics and hospitals in and around Madanapalle, giving lectures to the staff and patients and talks in schools.

Mrs O R Lalithamma, 80-year-old former president of a women’s organization pledged her eyes, as she flagged off a rally in Madanapalle, in which prominent citizens, doctors, government officials, college students, women’s groups and NGOs participated. Pamphlets were distributed along the march and placards with slogans on eye donation held up. Messages on eye donation were broadcast on in local TV channels and roadside outlets set up to distribute pamphlets and pledge cards.

World Sight Day: LVPEI commemorated World Sight Day 2008 in partnership with Greater Hyderabad Municipal Corporation’s senior citizens program Aasara and Sharadanagar Residents Welfare Association on October 22, 2008. An eye health awareness meeting and community screening program was organized, where 336 people were screened. Mr Malla Reddy, MLA of Malakpet constituency, was the chief guest.

Children’s Health Carnival: On November 19, 173 children were screened for vision problems at the Children’s Health Carnival 2008 in Hyderabad. Of these 29 were referred for a detailed eye examination.

World Diabetes Day: As part of the ongoing diabetes prevention program in Prakasam district (Andhra Pradesh), World Diabetes Day was commemorated on November 14, 2008, at Ongole. A capacity building program was launched to address diabetes and diabetic retinopathy in the district, supported by World Diabetes Foundation. A scientific seminar was held for local practitioners on comprehensive diabetic care.

Diabetes awareness and vision screening program: A diabetes awareness and vision screening program for police personnel was conducted at the Armed Police Headquarters on October 30, 2008, in which 112 personnel were assessed for diabetes risk. Vision screening was done for 132 personnel.

USAID Transformative Family Eye Care Project: Under this project in rural Andhra Pradesh, a team from Vision Spring visited ICARE to discuss a training module for screening children, develop screening protocols, referral processes and other issues. On January 23, 2009, a one-day training program was organized, in which 50 Vision Entrepreneurs participated.
Community Linkage in Integration of Primary health (CLIP)
The Community Linkage in Integration of Primary health (CLIP) project was inaugurated on December 22, 2008. The inauguration was attended by Dr Rathore, Dean, Rajiv Gandhi Institute of Medical Sciences, Adilabad; Mr Jayant Thakur, Programme Manager, 108 Ambulance Service, Adilabad; and Dr Vaishali Zade, Mandal Officer, Jainath, Adilabad.

CLIP aims to enhance the scope of LVPEI’s pyramidal model by providing affordable, accessible and quality healthcare to the community in its service area. The eye care model effectively controls all diseases contributing to blindness, providing services with appropriate delivery structures, linkages and referrals. This well-developed network of infrastructure and manpower empowers LVPEI to play a larger role, facilitating the linkage of all public and private health services and government welfare schemes, such as the Rajiv Aarogya Sri scheme, EMRI and HMR services. Service delivery would be done through Village Health Volunteers, selected from the village and trained by LVPEI in preventive and promotive health care, early detection and referral of cases. Working closely with government machinery, they will ensure community participation in all activities, creating long-term sustainability.

In vision screening programs 500 villagers were screened for various diseases and free medicines dispensed at a general health camp. Training programs were held and information, education and communication material and volunteer kits distributed.

New grants for ICARE programs
- The Latter-day Saint Charities, USA, has approved funding for 30 more Vision Centres in Khammam, Krishna and Nellore districts of Andhra Pradesh over a 4-year period, 2009 to 2012.
- Merck Foundation will support the Vision Technician training program for one year, initially.
- The National Program for Control of Blindness has sanctioned a grant for implementation of the tele-ophthalmology project. This would be launched initially at the Markapuram Service Centre and the 2 Vision Centres attached to it.

Our ICARE programs are supported by
- Andhra Pradesh Right to Sight Society, India
- Fullerton India Credit Company Limited, India
- Lavelle Fund for the Blind, Inc., USA
- Nimmagadda Foundation, India
- Operation Eyesight Universal, Canada
- VISION 2020 INDIA Forum (Journal of Community Eye Health)
- Vision Cooperative Research Centres (Vision CRC), Australia
- World Diabetes Foundation, Denmark
- Fred Hollows Foundation, Australia
- Latter-day Saint Charities, USA
- Lions Club International Foundation, USA
- ORBIS International, USA
- Sudhakar & Sreekanth Ravi, USA

Details of programs supported in the coming pages.

ICARE screening help restore vision
LVPEI’s community eye care services helped light up a blind girl’s life!

In September 2008 LVPEI’s first satellite centre, Bhosle Gopal Rao Patel Eye Centre at Mudhol, conducted a routine community screening program in Yanampally village, Dichpally mandal in Nizamabad district. Swapna, 16, had congenital cataract and had lost most of her vision when she was eight, living a life of virtual blindness. She had visited many hospitals, but did not regain her vision.

After an eye examination Dr Manjunath Patel advised surgery with firm counseling. Her parents felt a glimmer of hope. Swapna’s left eye was operated upon free of cost on September 10, 2008. She regained some vision, which made her and her parents jubilant. She was now willing to undergo surgery on the right eye and was operated upon in October. The Mudhol staff are happy to have helped a blind girl see the world.
Village Vision

A. Primary Eye Care – 55 Vision Centres in Andhra Pradesh, India

13 New Vision Centres
This year 13 Vision Centres (VC) were inaugurated in Prakasam, Chittoor and Adilabad districts of Andhra Pradesh, bringing the total to 55 rural VCs. Ten VCs were set up in Prakasam, two in Chittoor and one in Adilabad.

Adilabad: A Vision Centre was established on June 14, 2008 in Medarpet village; it is linked to the Sheshanna Chennawar Eye Centre and is supported by the Latter-day Saint Charities, USA. Now Adilabad district has 19 VCs in place.

Prakasam: Five primary care Vision Centres were inaugurated during the quarter April – June 2008. Linked to the secondary care Sudhakar and Sreekanth Ravi Eye Centre at Markapuram, they are located at Giddalur, Thripuranthakam, Yerragondapalem, Dornala, and Bestavaripeta. Four VCs were established from March 27-31, 2009, in the geographical area of the new 8th satellite Sudhakar and Sreekanth Ravi Eye Centre at Kandukuru. They are located in Tanguturu, Kondepi, Lingasamudram and Chandrasekarapuram. Now Prakasam district has 23 Vision Centres. The 10 VCs are supported by the Lavelle Fund for the Blind, Inc., USA.

Chittoor: LVPEI’s 50th and 51st Vision Centres were inaugurated on September 27, 2008, at Nimmanapalle and B Kothakota village; four primary care Vision Centres were inaugurated during the quarter April – June 2008. Linked to the secondary care Sudhakar and Sreekanth Ravi Eye Centre at Markapuram, they are located at Giddalur, Thripuranthakam, Yerragondapalem, Dornala, and Bestavaripeta. Four VCs were established from March 27-31, 2009, in the geographical area of the new 8th satellite Sudhakar and Sreekanth Ravi Eye Centre at Kandukuru. They are located in Tanguturu, Kondepi, Lingasamudram and Chandrasekarapuram. Now Prakasam district has 23 Vision Centres. The 10 VCs are supported by the Lavelle Fund for the Blind, Inc., USA.

Local village heads, government officials, teachers and prominent village people attended the program.

LVPEI’s Network of Vision Centres and Service Centres in Andhra Pradesh
Primary Eye Care – Vision Centres

During the year 90,877 people were seen at our primary care Vision Centres.

<table>
<thead>
<tr>
<th>Performance</th>
<th>Screening</th>
<th>Spectacles prescribed#</th>
<th>Spectacles dispensed#</th>
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<td>1154</td>
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<td>Talamadugu</td>
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<td>Medarpeta* (July 2008)</td>
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<td>522</td>
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<td>Telapelly</td>
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<td>Epperpalem</td>
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<td>Vetapalem</td>
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<td>402</td>
<td>279</td>
<td>165</td>
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<tr>
<td><strong>Sudhakar &amp; Sreekantha Ravi Eye Centre, Markapuram</strong></td>
<td>580</td>
<td>204</td>
<td>176</td>
<td>201</td>
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<tr>
<td>Darshi</td>
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<td>298</td>
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<td>Karichedu</td>
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<td>570</td>
<td>386</td>
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<td>Podil</td>
<td>1720</td>
<td>727</td>
<td>455</td>
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<td>769</td>
<td>452</td>
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<td>Giddalur</td>
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<td>221</td>
<td>406</td>
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<td>Dornala</td>
<td>1704</td>
<td>806</td>
<td>519</td>
<td>537</td>
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<td>Bestavaripeta</td>
<td>256</td>
<td>82</td>
<td>44</td>
<td>97</td>
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<tr>
<td><strong>Siloam Eye Centre, Madanapalle</strong></td>
<td>335</td>
<td>109</td>
<td>52</td>
<td>113</td>
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<tr>
<td>B. Kothakota (Sept 2008)*</td>
<td>6383</td>
<td>2475</td>
<td>1679</td>
<td>930</td>
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<tr>
<td>Nirmannapalle (Sept 2008)*</td>
<td>1735</td>
<td>640</td>
<td>216</td>
<td>473</td>
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<tr>
<td><strong>Urban</strong></td>
<td>90,877</td>
<td>35,036</td>
<td>27,157</td>
<td>23,015</td>
</tr>
</tbody>
</table>

\* Data from month of inauguration
• April – July 2008
# Some spectacles sold to patients referred by Service Centres. Also includes non-prescription spectacles like sunglasses, photochromatic glasses, etc.
B. Secondary eye care – 17 Service Centres in Andhra Pradesh, India

8th satellite centre of LVPEI
The 3rd Service Centre in Prakasam district was inaugurated at Kandukuru on February 1, 2009. The guests included local MLA Maheedhara Reddy, distinguished LVPEI visiting faculty, as well as senior faculty, administrators, and ICARE staff. The inaugural was well attended by the local populace, one of whom spontaneously offered a space in his village for a Vision Centre, “…if LVPEI would find it suitable for the purpose”. The Sudhakar and Sreekanth Ravi Eye Centre will ultimately link to a full complement of 10 Vision Centres. This is the second centre under the Sudhakar and Sreekanth Ravi District Eye Health Initiative in Prakasam district, supported by the Ravi brothers of USA.

Anniversaries

- **Venkata Lakshmi Eye Centre**, Karamchedu, celebrated its 6th anniversary on June 7, 2008. Since its inception, the centre has screened around 50,000 outpatients and performed more than 7000 surgeries, 70% of them free of cost.

- **Seshanna Chennawar Eye Centre**, Adilabad, celebrated its 3rd anniversary on June 9, 2008. Since its inception, the centre has screened over 26,000 outpatients and performed over 3600 surgeries, 70% of them free of cost.

- **Swarna Bharat Eye Centre**, Nellore, celebrated its 1st anniversary on July 1, 2008. The center was set up in collaboration with the Swarna Bharat Trust of Nellore.

- On its 9th anniversary on August 15, 2008, **Siloam Eye Centre**, Madanapalle, organized eye donation awareness programs and inaugurated an eye donation centre.

- **Kuchakulla Ramachandra Reddy Eye Centre**, Thoodukurthy, celebrated its 10th anniversary on October 24, 2008. The centre was established with support from the Kuchakulla family, Sightsavers International and Christoffel Blindenmission. In 10 years, the centre has seen over 110,000 outpatients and performed more than 15,000 surgeries.

- The 12th anniversary celebrations of LVPEI’s first satellite centre **Bhosle Gopal Rao Patel Eye Centre**, Mudhol, were held on December 20, 2008. The centre was established with support from Mr Narayan Rao Patel’s family and national and international NGOs. In 12 years the centre has seen 160,000 outpatients and performed over 22,500 surgeries. It was set up with support from Sight Savers International and Christoffel Blindenmission.

- The 1st anniversary of **Sudhakar & Sreekanth Eye Centre**, Markapuram, was celebrated on 3rd January 2009.
Secondary Eye Care – Satellite and Partner Centres

During the year 2,25,712 people were seen at our secondary care centres.

<table>
<thead>
<tr>
<th>Rural satellite &amp; partner centres</th>
<th>Paying Outpatients</th>
<th>Paying Surgeries</th>
<th>Non-paying Outpatients</th>
<th>Non-paying Surgeries</th>
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</thead>
<tbody>
<tr>
<td><strong>Satellite Centres</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bhosle Gopal Rao Patel Eye Centre</td>
<td>12,362</td>
<td>1399</td>
<td>5870</td>
<td>1254</td>
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<tr>
<td>Mudhol, Adilabad District</td>
<td></td>
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<td></td>
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<tr>
<td>Kuchukulla Ramachandra Reddy Eye Centre</td>
<td>6906</td>
<td>676</td>
<td>3871</td>
<td>983</td>
</tr>
<tr>
<td>Thoodukurthy, Mahabubnagar District</td>
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<tr>
<td>Seshanna Chennawar Eye Centre</td>
<td>8137</td>
<td>533</td>
<td>4428</td>
<td>825</td>
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<td>National Highway Road, Adilabad</td>
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<td>Siloam Eye Centre</td>
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<td>415</td>
<td>1035</td>
<td>253</td>
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<td>Madanapalle, Chittoor District</td>
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<td>302</td>
<td>2964</td>
<td>566</td>
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<td>Karamchedu, Prakasam District</td>
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<tr>
<td>Swarna Bharat Eye Centre</td>
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<td>37</td>
<td>3469</td>
<td>406</td>
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<tr>
<td>Venkatachalam, Nellore</td>
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<td>Sudhakar &amp; Sreekanth Ravi Eye Centre</td>
<td>5749</td>
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<td>5536</td>
<td>875</td>
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<td>Markapuram, Prakasam District</td>
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<tr>
<td>Sudhakar &amp; Sreekanth Ravi Eye Centre (February 2009)*</td>
<td>193</td>
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<td>84</td>
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<td><strong>Partner Centres</strong></td>
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<td>Mullapudi Venkatrayudu Eye Centre</td>
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<td>Tanuku, West Godavari District</td>
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<tr>
<td>Smt. Rajeshwari Ramakrishnan Lions Eye Hospital, Nidadavole, West Godavari District</td>
<td>14,150</td>
<td>977</td>
<td>13,342</td>
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<td>St. Gregorious Balagram Eye Hospital</td>
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<td>Yacharam, Ranga Reddy District</td>
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<td>Lions Club of Suryapet Eye Hospital</td>
<td>4617</td>
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<td>14,603</td>
<td>893</td>
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<tr>
<td>Suryapet, Nalgonda District</td>
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<td>The Rotary Eye Hospital</td>
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<td>829</td>
<td>6236</td>
<td>1761</td>
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<td>Proddatur, Kadapa District</td>
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<tr>
<td>Paramahansa Yogananda Netralaya</td>
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<td>M S Reddy Lions Eye Hospital Moula Ali</td>
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<td>7431</td>
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<td>Moula Ali</td>
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<td>Kishore Chand Chordia Eye Centre</td>
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<td>12,765</td>
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<td>Begum Bazaar</td>
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<td>Balanagar Lions Eye Hospital</td>
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<td>Balanagar</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td>1,27,253</td>
<td>8373</td>
<td>98,459</td>
<td>17,991</td>
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</table>

**Total Outpatients:** 2,25,712  
**Total Surgeries:** 26,364

* Data from month of inauguration
C. Community Eye Care

Working our way into the hearts of communities with our screening and rehabilitation programs in rural as well as poor urban areas, we have been able to identify vision impairment and bring services to correct eye problems at the most basic level.

<table>
<thead>
<tr>
<th>Surveys</th>
<th>HOUSE</th>
<th>FICCL-LVPEI CEH</th>
<th>GHMC Aasara</th>
<th>FICCL-LVPEI ‘Save the Eye’ CSP</th>
<th>Satellites</th>
<th>Partners</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slums/Villages surveyed</td>
<td>3</td>
<td>6</td>
<td>–</td>
<td>–</td>
<td>520</td>
<td>11</td>
<td>540</td>
</tr>
<tr>
<td>Door to door surveys</td>
<td>12,125</td>
<td>14,969</td>
<td>–</td>
<td>–</td>
<td>280,215</td>
<td>11,820</td>
<td>319,129</td>
</tr>
<tr>
<td>People identified with eye ailments</td>
<td>2140</td>
<td>2295</td>
<td>–</td>
<td>–</td>
<td>52,354</td>
<td>780</td>
<td>57,569</td>
</tr>
</tbody>
</table>

**Community Screening Programs (CSP)**

- CSPs organized: 18
- People screened: 6,168
- Prescribed spectacles: 2,484
- Referred to base hospital: 1,467
- Within normal limits: 1,848

HOUSE: Hyderabad Outreach Urban Slums Eye-care Program
FICCL-LVPEI CEH: Fullerton India Credit Company Limited – LVPEI ‘Save the Eye’ Comprehensive Eye Health Program in Malkajgiri slums, Hyderabad
GHMC Aasara: LVPEI – Greater Hyderabad Municipal Corporation – Aasara Senior Citizens’ Eye Health Program
FICCL-LVPEI ‘Save the Eye’ CSP: Fullerton India Credit Company Limited – LVPEI ‘Save the Eye’ Community Screening Programs – AP
Satellites: Satellite Centre of LVPEI at Adilabad, Mahabubnagar, Prakasam, Nellore and Chittoor Districts
Partners: Partner Centres of LVPEI at Yacharam and Rajahmundry

**School Screening Programs**

<table>
<thead>
<tr>
<th>Teachers trained</th>
<th>LVPEI – Nimmagadda Children’s Eye Health Initiative</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>2184</td>
</tr>
<tr>
<td>14</td>
<td>238</td>
</tr>
<tr>
<td>5105</td>
<td>23,689</td>
</tr>
<tr>
<td>759</td>
<td>26,952</td>
</tr>
<tr>
<td>288</td>
<td>3504</td>
</tr>
<tr>
<td>–</td>
<td>3187</td>
</tr>
</tbody>
</table>

**Bhubaneswar**

School Screening
- Schoolchildren screened: 380
- Teachers trained: 12
- Spectacles prescribed: 44

Community Check-up
- Anganwadi workers trained: 102
- CBR volunteers trained: 41
- Community eye check-ups: 211
- Surgery: 43

Eye screening and rehabilitation services are made available at the people’s doorstep.
National Collaborating Centres

ICARE’s accompaniment program has helped assess needs, build capacity and catalyse sustainable structures in 88 eye hospitals around the country and other parts of the developing world.

India Partners: Tertiary Centres
- Suryodaya Eye Centre, Kolkata
- C L Gupta Eye Institute, Moradabad
- MGM Eye Institute, Raipur, Chattisgarh
- Alakh Nayan Mandir Eye Institute, Udaipur
- Lions Karnavati Shantaben Vishubhai Patel Eye Hospital, Ahmedabad
- Little Flower Eye Hospital, Angamaly

India Partners: Primary Centres
- Shri Sadguru Seva Sangh Trust, Chitrakoot
- Venu Charitable Society, Delhi
- Shroff Charitable Eye Hospital, Delhi
- Aravind Eye Hospital, Madurai

India Partners: Secondary Centres
- LVPEI – OEU Collaborating hospitals
- LVPEI – Rotary Partner hospitals
- Chandra Prabha Eye Hospital, Jorhat, Assam
- Bausch & Lomb Advanced Cataract Centre, Haldwani, Uttaranchal
- Bausch & Lomb Advanced Cataract Centre, Sri Ganga Nagar, Rajasthan

Total no. of Rotary Partner hospitals in the state/country in box.
i. Rotary Hospitals Project
The objectives of the 5-year (2005 – 2009) Rotary Hospitals program are: to perform 100,000 additional cataract surgeries; implement uniform protocols for cataract surgery (pre-operative evaluation, sterilization, management of complications and follow-up) and document all surgical outcomes. ICARE conducted a series of Rotary Project Workshops in 2005, in which 80 Rotary hospitals participated; all the hospitals send standardized surgery reports to LVPEI. This is a joint project of Rotary and Operation Eyesight Universal (OEU), who reimburse the costs of surgery.

Till date, 71,100 surgeries have been performed, of which 16,001 were done in 2008 – 2009.

ii. Operation Eyesight Universal (OEU)
LVPEI is assisting all the OEU partner hospitals in India through training and mentoring to represent the interests of their stakeholders more effectively and ensure greater impact in their areas of work. During the year clinical and non-clinical teams made regular developmental visits to all partner centers, along with the OEU team.

Partners development workshop: An all-India partners’ workshop was held from February 12-14, 2009, at GMR Varalakshmi campus, Visakhapatnam. The workshop focussed on financial and accounting management systems for the eye hospitals and on writing reports about donors and outcome of cataract surgeries.

Refresher course for paramedical ophthalmic personnel: A total of 18 mid-level ophthalmic personnel participated in the refresher program held at ICARE, November 6-8, 2008. The objective was to discuss and solve issues related to application of skills learnt during the vision technician course and in routine clinical practice and refresh the understanding of routinely used clinical techniques in eye care service delivery.

Workshop on communication skills: A two-day workshop on enhancing communication skills was conducted at Hyderabad campus, with 8 participants from OEU partner organizations.

Performance highlights
192% increase in revenue from 2005
41% increase in revenue from 2007
2.7% increase in number of patients screened from 2007
6.7% increase in surgical volumes from 2007

iii. Seeing is Believing
Under the Seeing is Believing program of Standard Chartered Bank, UK, 40 Vision Centres will be set up during 2008 – 2011, 10 each with Aravind Eye Hospital, Theni and Madurai (Tamil Nadu); Venu Charitable Society (Delhi); Shri Sadguru Seva Sangh Trust, Chitrakoot (Madhya Pradesh); and Shroff Charitable Eye Hospital, (Delhi). LVPEI will play the role of facilitator and technical expert in the project.

Through partnerships between NGOs and Standard Chartered Bank and among NGOs the Vision Centre (VC) project will be implemented in the underserved parts of India. The 40 VCs would cover a population of 2 million, while also providing employment to 40 Vision Technicians and other local youth involved in service delivery.

Representatives from the partner eye institutes have been familiarized with LVPEI’s pyramidal model through field trips to Vision Centres and Service Centres. On June 16-17, 2008, a Training of Trainers program for the human resource needs of Vision Centres was organized; training patterns and curriculum for the Vision Technicians’ course were also finalized.

Progress till date
• Aravind Eye Hospital: 5 VCs – Manamadurai, Usilampatti, Kodamalaigundu, Devathananpatti and Batlagundu (Tamilnadu)
• Shri Sadguru Seva Sangh Trust: 4 VCs – Semariya, Mau, Baberu and Tindwari (Uttar Pradesh & Madhya Pradesh)
• Venu Charitable Society: 5 VCs – Bhadurgarh, Jaspur, Samika, Jamo and Tappal (Haryana, Uttar Pradesh, Delhi – NCR, Uttar Pradesh)
• Shroff Charitable Eye Hospital: 4 VCs – Rampur, Chilkana, Punhana, Nagina (Uttar Pradesh and Haryana)
iv. Lions Karnavati Shantaben Vishubhai Patel Eye Hospital, Ahmedabad, Gujarat
Lions Karnavati has partnered with LVPEI to strengthen their existing hospital and replicate the pyramidal model in their region. A needs assessment of the project was carried out; infrastructure and staff development plans are being finalized.

v. Alakh Nayan Mandir Eye Institute, Udaipur, Rajasthan
The foundation stone for the construction of our partner eye institute, Alakh Nayan Mandir Eye Institute was laid on May 8, 2008, by Ms Vasundhara Raje, Chief Minister of Rajasthan.

vi. C L Gupta Eye Institute, Moradabad, Uttar Pradesh
A total of 31 staff (clinical and non-clinical) from C L Gupta Eye Institute were trained this year. The construction of the building is in progress; the institute is expected to begin functioning from July 1, 2009.

vii. Jhangxi Province, China
A feasibility report was prepared and submitted to the Fred Hollows Foundation to develop a first NGO hospital in Jhangxi Province, China.

Research and Special Projects

i. Impact Assessment Study

The study ‘Impact of correction of refractive errors among children aged 10 to 15 years on activity based performance and other vision based functions in the state of Andhra Pradesh’ provides information on the impact of refractive error correction on schoolchildren and utilization of spectacles. During the year the team completed data entry of school eye screenings, data cleaning of baseline and barrier study, and collection of academic progress reports of 310 subjects. Data analysis is in progress. This project is supported by the Vision Cooperative Research Centres (Vision CRC), Australia.

Highlights
- 159 persons underwent vision screening
- Impact study data being collected from subjects, teachers, parents and peers

ii. Sight for Kids
A collaborative child eye health program for primary schoolchildren in Greater Hyderabad, Sight for Kids is supported by Johnson & Johnson, Lions Club International Foundation (LCIF), and Lions Eye Hospitals of Greater Hyderabad. The planning meeting for the 4th phase of the program and a one-day orientation program on teachers training and vision screening for the partners’ ophthalmic personnel was held on July 2, 2008. Representatives from 8 partner hospitals and project office-bearers from LCIF participated. Teacher training and school screening programs were done in four mandals from two districts, Medak and Ranga Reddy.

School Screening
Teachers trained 188
Schools covered 188
Children screened 14,663
Identified with eye ailments 977
Prescribed spectacles 84
Referred to other centers 161
iii. Pediatric Ophthalmology Learning and Training Centre
To address the shortage of skilled human resources in pediatric ophthalmology, inadequate infrastructure and lack of good para-ophthalmic support in India and south-east Asia, ORBIS set up three Pediatric Ophthalmology Learning and Training Centres (POLTC); LVPEI, Hyderabad, was the third centre set up in October 2006. Under the program 5 pediatric eye care teams are being trained, comprising an ophthalmologist, anesthetist, optometrist, nurse, counselor, and an outreach coordinator. Two batches of trainees completed training by September 30, 2008; training of the third and fourth batches is continuing.

**Highlights**

<table>
<thead>
<tr>
<th></th>
<th>Annual</th>
<th>Cumulative</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children screened</td>
<td>24,732</td>
<td>79,955</td>
<td>55,000</td>
</tr>
<tr>
<td>Treated for other conditions</td>
<td>12,508</td>
<td>17,309</td>
<td>4000</td>
</tr>
<tr>
<td>Surgeries performed</td>
<td>3991</td>
<td>10,185</td>
<td>1800</td>
</tr>
</tbody>
</table>

iv. Diabetes Prevention Program

The diabetes prevention program in Prakasam district, supported by the World Diabetes Foundation, aims at developing a sustainable district level model to promote lifestyle changes in rural Andhra Pradesh using the child-to-family communication strategy. With an alarming increase in the prevalence of diabetes, there is an urgent need for interventions in lifestyle, to reduce the resultant incidence of retinal eye diseases. The project duration is from April 2006 to March 2011.

During the year the teams trained 46,091 children and 2434 teachers in 160 schools of 155 villages in 21 mandals of Prakasam district. The trained children, in turn, screened 197,165 families and 930,338 persons for diabetes up till March 31, 2009. Members of 66 NGOs and 39 Primary Health Centres were trained and 9581 self-help groups educated about diabetes; 47,721 persons at risk were screened for diabetes and 2752 identified with the disease. A refresher training program for vision technicians and field staff was conducted with support from Johnson and Johnson.

v. Sight First – 1141: Capacity development project for diabetic eye disease

The 3-year Lions – LVPEI capacity development project for management of diabetic eye disease in Andhra Pradesh was launched in August 2005, to address diabetic retinopathy (DR) through a capacity building program for 18 eye hospitals, with support from Lions Club International Foundation, USA. The project ended on July 31, 2008.

The Sight First – 1141 project generated awareness, offered comprehensive treatment, and helped build the capacity of partner hospitals through training of personnel at LVPEI. Though the project ended in July 2008, a national seminar was organized from October 4-5, 2008, to update practitioners about developments in the field and discuss all Lions supported DR projects in south India to summarize the findings. The resource team included international faculty Dr Wilson J Herriot and Lion Joshua Friedman, 15 national faculty and all Lion technical advisors from India. It was attended by over 140 participants.

**Highlights**

<table>
<thead>
<tr>
<th></th>
<th>April 2008 to July 2008</th>
<th>Cumulative 2005-2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screening programs</td>
<td>88</td>
<td>533</td>
</tr>
<tr>
<td>Diabetic patients screened</td>
<td>3771</td>
<td>10,487</td>
</tr>
<tr>
<td>Lasers performed</td>
<td>680</td>
<td>5448</td>
</tr>
<tr>
<td>Surgeries performed</td>
<td>211</td>
<td>1946</td>
</tr>
<tr>
<td>Referred for further services</td>
<td>280</td>
<td>2177</td>
</tr>
<tr>
<td>Diabetic retinopathy eyes identified</td>
<td>1711</td>
<td>17,828</td>
</tr>
</tbody>
</table>
vi. CHILD-to-CHILD and CHILD-to-Family communication

The CHILD to Child and CHILD to Family communication study (April 2006 – December 2008) focuses on the effectiveness of utilizing children for communicating eye health and eye care messages to other children and their families to favorably influence their attitudes and practices relating to eye health care. This study is being conducted under the aegis of the Vision Cooperative Research Centre (Vision CRC) of Australia.

The main study was conducted in four rural areas, which equally represent the geographical distribution of the state of Andhra Pradesh. Schoolchildren of grades 6-8 from 13 schools in rural Andhra Pradesh were given orientation in eye health care with the help of trained teachers. The children were trained to perform a basic vision test on their family members, neighbours and peers using a Snellen 6/12 opto-type ‘E’ chart and also to convey eye health messages. They were instructed to refer those suspected of having eye problems to the nearest Vision Centres. Field work for the study was completed in June and data entry is continuing. Within a week, 1087 children screened 12,956 people. Two months later, 40% of those screened people had visited a Vision Centre. The study showed that children can communicate eye health messages and function as collaborators in health promotion and educational activities.

vii. Nimmagadda Prasad – LVPEI Children’s Eye Health Initiative

A major initiative against childhood blindness was launched on July 7, 2007, so that “No child in Andhra Pradesh is needlessly blind or visually impaired by the year 2020”. The Nimmagadda – LVPEI Children’s Eye Health Initiative is supported by Nimmagadda Foundation.

Highlights

<table>
<thead>
<tr>
<th></th>
<th>April 2008 to March 2009</th>
<th>Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children screened as outpatients</td>
<td>23,689</td>
<td>42,234</td>
</tr>
<tr>
<td>Inpatients</td>
<td>3187</td>
<td>6252</td>
</tr>
<tr>
<td>Free spectacles distributed</td>
<td>3504</td>
<td>3504</td>
</tr>
<tr>
<td>Teachers trained in vision screening</td>
<td>2184</td>
<td>2184</td>
</tr>
<tr>
<td>Schoolchildren screened</td>
<td>56,294</td>
<td>56,294</td>
</tr>
<tr>
<td>Schools covered</td>
<td>239</td>
<td>239</td>
</tr>
</tbody>
</table>

viii. Capacity development program to address diabetic retinopathy

The World Diabetes Foundation supported project aims at strengthening existing infrastructure and capacity building to improve the quality of life of persons with diabetes. Launched in October 2008, the 5-year program uses a multidisciplinary approach (modification in lifestyle, care of feet, eyes, etc.) to build strong public and private partnerships among LVPEI, district health administration and private practitioners with effective community integration in Prakasam district, Andhra Pradesh. The objectives include:

- Developing a registry of persons with diabetes in the district and ensuring regular follow-up,
- Strengthening public health facilities and not-for-profit organizations at the district level to care for persons with diabetes and diabetic retinopathy,
- Establishing a network of specialists in public and private sector for specialties like cardiology, nephrology, care of feet and retina,
- Education and training of paramedics, general physicians, village volunteers, ophthalmologists and mid level ophthalmic assistants, and
- Facilitating annual comprehensive diabetic screening programs.

During the year 10,569 persons were registered under the project; overall, 125,000 persons with diabetes will be reached by 130 medical and 840 paramedical staff. The field team has been trained and manuals and data collection formats developed. A specialist team was constituted to provide expertise and training; Dr G S Raghava, diabetologist, Dr Keshav, cardiologist, Dr D Lokhanadhan, diabetic foot care expert, Ms Sunitha Sapur, nutritionist, and Dr Ajit B Majji, LVPEI retina specialist.

Screening for diabetes at the community level
ix. Rapid Assessment of Refractive Error survey
Uncorrected refractive errors (URE) are the leading cause of visual impairment in the developing world; in Andhra Pradesh 16% of blindness and 46% of visual impairment across all age groups is due to URE. Population-based cross-sectional studies, while reliable, are expensive and time-consuming, requiring expertise in epidemiology. A novel rapid assessment is used to provide baseline data to evaluate the impact of service delivery using simple, inexpensive equipment and within a limited time.

The Rapid Assessment of Refractive Errors (RARE) survey was conducted from February to May 2008 in accordance with ethical principles and adhered to the Declaration of Helsinki. A logMAR chart was used to assess unaided, aided and pinhole visual acuity from a distance of 4 meters. Near vision was assessed using the N notation chart at the subject’s customary working distance. A brief personal interview helped collect demographic information such as education level, occupation, use of spectacles (where applicable) and past utilization of eye care services. All people with visual acuity <6/12 in the better eye were referred to the nearest eye care facility for management. The survey can be used to monitor and evaluate the impact of service delivery in a given area. Due to the simple methodology, limited time and resources it can be repeated at regular intervals. The study was partly supported by the Vision Cooperative Research Centres (Vision CRC), Australia.

Other Training Programs
- A community eye care (CEC) and community based rehabilitation (CBR) field workers training program was conducted from June 23-28, 2008, in which 34 field staff from 7 satellite centres of LVPEI (Mudhole, Adilabad, Thoodukurthy, Karamchedu, Markapur, Nellore and Madanapalle) participated.

- The Andhra Pradesh Right to Sight Society, with support from ICARE – LVPEI, organized a workshop (July 12-13, 2008) on vision screening for children in the tribal areas of the state. A standardized protocol was developed for vision screening among primary schoolchildren under the AP Tribal Eye Care Project 2007-2010.

- A CEC workshop was conducted for administrators and CEC supervisors of LVPEI satellites on September 29, 2008. The workshop reviewed current practices in CEC and CBR across the Vision Centres network. CEC supervisors from Adilabad, Mahbubnagar, Nellore and Prakasam districts, along with administrators and coordinators, participated in the meeting.

Community Eye Health Journal
Four issues of the ‘Community Eye Health Journal’ with the Indian supplement were published under the aegis of the VISION 2020 India Forum, and distributed free of charge to approximately 5000 readers per issue all over India and the neighboring countries including Pakistan, Nepal, Sri Lanka, Zambia, Bangladesh, Malaysia, Tanzania, Nigeria, Ghana and the Sultanate of Oman. Most of its readers have no access to continuing training, libraries, or other information to improve their practice; the journal is their only means of keeping updated with progress in eye care. The readers include ophthalmologists, optometrists, nurses, ophthalmic nurses, ophthalmic assistants, general physicians, program planners, administrators and public health specialists.

Recognition
Initiative for senior citizens
ICARE – LVPEI awarded certificate for community eye care programs for senior citizens, conducted in collaboration with Greater Hyderabad Municipal Corporation’s Aasara program. August 30, 2008

The Rose Garden at Kismatpur campus
LVPEI Hyderabad won several prizes during the 33rd Hyderabad Rose Show, organized by Hyderabad Rose Society – First Prize for Best Institutional Rose Garden and 10 prizes for best blooms for different colours and varieties.
Education

Subspecialty and advanced ophthalmic skills training at LVPEI continued to draw young medical professionals from across India and other countries, to our Education Centre. Undoubtedly, one of the highlights of the year was the increase in the number of courses designed to strengthen the base and mid levels of the pyramid in terms of human resources for eye health. Young people from rural and peripheral urban communities were recruited to join programs in eye health management, support services and ophthalmic nursing assistance, among other paramedical courses.

Optometric education has expanded to include collaborative bachelor’s programs with the Indira Gandhi National Open University and the University of Hyderabad. 642 professionals and para-professionals were trained through short and long term programs during the year.
Education Day was held on October 17, 2008, with Prof Srinath Reddy, President, Public Health Foundation of India, as the Chief Guest. Prof Coen de Jong, Principal of LVPEI’s Bausch & Lomb School of Optometry (BLSO), introduced the 21 students of Batch 2004 who successfully completed the bachelor degree course in optometry. Prof Reddy emphasized the multifaceted role played by health professionals in the 21st century, noting that they needed to be not just clinicians, but educators and advocates as well. Six were placed in distinction, 11 in the first division and 4 in the second division. Best Outgoing Student Mr GR Viswanathan was awarded the Prize of Excellence, a glass artwork by Mr Sisir Sahana, LVPEI’s artist in residence.

Mr Ramachandra Bhatt, Marketing Manager, Medical Products Division, Carl Zeiss India, presented the Carl Zeiss scholarship to the first-ranked students of each batch: Ms Khuseeya Shareef, Ms Ritika Katari, Mr Labishetty Vivek and Ms MMM Samanmali Malavita.

Bachelor of Science in Optometry program
The Bausch & Lomb School of Optometry (BLSO) conducts the Birla Institute of Technology and Science (BITS), Pilani, off-campus BS in optometry program. The written exams and interviews for selection of students were held on July 13, 2008. The interview panel included Prof Coen de Jong (Chair), Dr Ramu, Coordinator, BITS, Mr BR Murthy, Coordinator, BITS, and Mr Y Vijay Kumar, optometry faculty, BLSO.

Of the 26 registered first-year students 22 are from Andhra Pradesh, 3 from Sri Lanka (sponsored by International Centre for Eyecare Education, Sydney, Australia) and 1 from Kerala. Eight students of the new batch are sponsored by LVPEI. Four were selected from among those who completed the Vision Technicians’ training at our Institute. LVPEI now offers full sponsorships to four promising students annually.
LVPEI now recognised as a center for residency training
Ophthalmology training at LVPEI moved into formal postgraduate medical training this year with the commencement of the DNB (Diplomate of the National Board) program in ophthalmology. The initiative allows the Institute to participate in the creation of high quality ophthalmic professionals through a recognized residency program. Candidates who have completed their MBBS and wish to specialize in ophthalmology are admitted after a rigorous selection process into a three-year program, while those with the additional qualification of DO go through a two-year program. Four candidates have been admitted in the session beginning in 2009.

Master’s program in Optometry & Vision Science
The University of Hyderabad called for applications for the integrated five-year master’s program in Optometry & Vision Science, being conducted in collaboration with LVPEI. The first batch of 20 students began classes in August.

Restructured Eye Health Management course
The restructured Diploma in Eye Health Management course was launched on August 1, 2008, at the Bausch and Lomb School of Optometry, Kismatpur campus. Guest of Honour Prof Ram Mohan Rao, Dean, Indian School of Business, presented certificates to the outgoing management trainees and those completing the 1-year community eye health management course. He spoke of the critical need for trained healthcare professionals and the opportunities available for the qualifying trainees.

Prof D Balasubramanian, Director of Research at LVPEI, welcomed the new batch and inaugurated the course. Mr J P Singh, Principal Consultant, LBW Consulting, deliberated on the challenges facing healthcare managers today. Ms Lalitha Raghuram, Country Director, Operation Eyesight Universal, India, and Mrs Vijaya L Ramam, Senior Consultant, LVPEI, recalled their experiences and the strong value system that continues to be the hallmark of the Institute. Dr Imtiaz Ahmed, course facilitator, gave the vote of thanks.

Bachelor’s in Optometry & Ophthalmic Techniques
Ten students joined the Indira Gandhi National Open university (IGNOU) B Sc Optometry & Ophthalmic Techniques distance learning program at LVPEI Bhubaneswar last year. Efforts are being made to launch the course at Visakhapatnam and Hyderabad campuses.

Scholarships for deserving students
Each academic year five students from each batch receive a scholarship. The scholarships in 2008 – 2009 went to:

**Batch 2005:** Ms Khuseeya Shareef, Ms C Rebecca Sumalini, Ms Naifa Amreen SA Ali, Ms Safiya Sultana and Ms Ekta J Thakkar

**Batch 2006:** Ms Ritika Kataria, Ms V Sri Latha, Ms Bodduluri Lakshmi, Ms Banu RSA (Sanjya) and Ms V Niroshia

**Batch 2007:** Mr Labishetty Vivek, Ms Vaishnavi Raghuram, Mr Mohd Shafee, Ms Baggam Vijaya Preeethi and Ms Kamalpreet Dhaliwal

**Batch 2008:** Ms MMM Samanmali Malavita, Ms Sunaina Mary Alex, Mr Marellapudi Ajay, Ms Manjusha Dharavath, Mr Avula

**Batch 2009:** Mr Giridhar, Ms D Gouthami, Ms Jennifer Jayaraj, Mr DGS Kelum Tissakumara, Mr N Vinay Kumar and Mr Pullaiah Gudimi
Vision Technicians course
The Vision Technicians course trains students to work in rural (secondary) hospitals and Vision Centres. About 60% of the students are absorbed in LVPEI’s community eye health programs. The rest are sponsored students from other states.

LVPEI to train Reliance personnel
On August 7, 2008, Reliance-Vision Express and LVPEI signed an agreement for training optometry personnel. LVPEI has designed an exclusive training program for various eye care service delivery cadres of Reliance-VisionExpress clinical and technical personnel at the state-of-the-art Bausch & Lomb School of Optometry. The program includes theoretical and practical clinical training for optometrists, vision technicians, spectacle dispensing technicians and lab technicians. LVPEI will also develop and implement clinical protocols, quality control and clinical audits, thus ensuring world-class clinical/technical eye care service delivery across the Reliance-Vision Express optical retailing network.

Support services training program
In January 2009, 22 young adults began a new program, aimed at developing a cadre of ancillary staff to fulfill the human resource need for eye care service delivery in support service areas like patient care, medical records, materials management, maintenance, biomedical, accounts and human resources. The six-month course is open to candidates who have completed high school and offers employment opportunities to underprivileged youth after training.

Eye screening camp
On November 14, 2008, the Thakur Hari Prasad Institute of Research and Rehabilitation for the Mentally Handicapped organised a Health Camp and invited students of BLSO to conduct eye screening. The third-year students have done this eye-screening.

BLSO students at the border
The third-year students from the 4-year Bachelor of Science in Optometry program took a break from classes and clinics and attended a national optometry conference in Amritsar to participate in discussions, presentations and a collegiate quiz. The students also took a trip to the Wagah checkpost to catch a slice of history!

Transitions Quiz: On September 25, 2008 Transitions Optical India Pvt Ltd organized an Optometry Quiz in Chennai. It was a pre-round for the national quiz in the Optometry Conference 2008 in Amritsar in November. Three of our students participated and were placed second.
Seminars & Workshops

LVPEI, Hyderabad
To increase awareness and sensitize the ophthalmology faculty towards low vision rehabilitation services, a Low vision Awareness Program (LAP) for ophthalmologists was conducted on April 13, 2008. The Vision Rehabilitation team spoke on Vision Rehabilitation Services and When and whom to refer. It was attended by 9 ophthalmology faculty and 40 ophthalmology fellows.

A three-day Low vision Awareness Program (LAP) was held from April 25-27, 2008. A total of 35 delegates from all over the country attended.

A three-day Postgraduate Education Program (Eye – PEP 2008) was conducted from May 9-11, 2008; 200 postgraduate students from all over India attended the program across LVPEI’s three campuses.

The 40th Indian Contact Lens Education Program (ICLEP) basic course was conducted from July 4-7, 2008; 115 delegates attended.

A CME on Pediatric Ophthalmology and Strabismus was held from September 13-14, 2008, with 85 participants and 7 faculty members. Dr Eugene Helveston, Director, Cyber Sight, ORBIS International, delivered a lecture through video conferencing on September 13, 2008.

The 20th Low vision Awareness Program (LAP) was held from September 19-21, 2008; there were 16 participants. Of these, two were from Nigeria.

The national Diabetic Retinopathy Symposium was held from October 4-5, 2008. About 120 persons attended the symposium, organized by Lions Clubs International Foundation and L V Prasad Eye Institute, Hyderabad.

The Asia ARVO
Hyderabad hosted the biennial Asia Association for Research in Vision and Ophthalmology (ARVO) meeting between January 15-18, 2009. A major international forum showcasing cutting edge research in vision science, the Asia ARVO was held in India for the first time. L V Prasad Eye Institute was a key organizer, along with the Indian Eye Research Group.

The conference featured 8 workshops and 72 symposia emphasizing clinical science and community eye health. There were 400 oral paper presentations and 440 poster displays on topics ranging from regenerative medicine to glaucoma and retinal dystrophies. Over 1200 delegates attended, representing academic and research institutions from 35 countries across the globe.

LVPEI’s pavilion in the trade exhibit attracted many visitors, who were introduced to LVPEI’s clinical, basic and operations research, as well as our training videos and low vision aids.

The 41st Indian Contact Lens Education Program (ICLEP) basic and advanced course was conducted from December 4 to 8, 2008; there were 93 delegates for the basic and 75 for the advanced program.

The Asia Cornea Society’s Cornea Day meeting on January 14, 2009, preceded Asia ARVO. The scientific program included 3 plenary sessions. Faculty from 9 countries spoke on lamellar keratoplasty and advances in the field of cornea.

The Cosmolase 2008 meeting dedicated to cosmetic dermatology, lasers and aesthetic surgery was held on November 2, 2008. Over 150 delegates, including dermatologists and plastic surgeons, attended this first dermatology meeting in an eye hospital. Prominent faculty from the field of dermatology delivered talks and performed live demos of skin lasers and fillers. The meeting was video conferenced with LVPEI’s Bhubaneswar and Visakhapatnam campuses.

Prof Debbie Sweeney, CEO, Vision CRC, Australia, and Prof Donald Tan, Associate Professor, Singapore National Eye Hospital, Singapore, at Asia Cornea Society meeting.

Prof Debby Sweeney, CEO, Vision CRC, Australia, and Prof Donald Tan, Associate Professor, Singapore National Eye Hospital, Singapore, at Asia Cornea Society meeting.
About 60 children, along with their parents/relatives, attended the 14th annual meeting of the Association of the Parents of Childhood Glaucoma (APCG) on November 24, 2008. The faculty and volunteers gave presentations in English, Hindi and Telugu. Several children performed on stage. Despite their visual disability most of the children are doing well at school after the successful management of their glaucoma.

Public Education Fora: As part of the Institute’s eye health initiatives, open house Public Education Fora are organized at LVPEI Hyderabad every month, where members of the public can obtain information on eye diseases and interact with eye specialists. The Public Education Fora held during the quarter focused on squint and amblyopia, dry eyes, cataract, low vision and rehabilitation, myopia, diabetic retinopathy, presbyopia, age-related macular degeneration, eye trauma, computer vision syndrome and glaucoma.
Guest Lectures

The wide network LVPEI has established with institutions and organisations worldwide enables it to draw on an international resource base of senior consultants and experts in every field of eye care. The eminent faculty who delivered lectures at LVPEI during the year were:

**The Global Lecture Series**

In keeping with our effort to engage in with learning and knowledge sharing on a global platform, and make opportunities for such engagements available to all those who are part of LVPEI, the Education Centre initiated the Global Lecture Series this year. The series brings the best minds in ophthalmology and vision sciences in interaction with the faculty, fellows and trainees at LVPEI’s three campuses (Hyderabad, Bhubaneswar and Visakhapatnam) through real-time videoconferencing. During the past year, we have been privileged to listen to lectures from, and hold discussions with, five eminent researchers and practitioners from across three continents.

**Prof Harry Quigley**, glaucoma clinician-scientist from John Hopkins University, Baltimore, USA, delivered the first of the Global Lecture Series, speaking on Glaucoma management – whom to treat and the approach to medical therapy. July 15, 2008, through video conference

**Dr Terrence P O’Brien** delivered the second lecture on Antibiotic susceptibility – developed and developing nations. September 2, 2008

**Dr Eugene M Helveston**, Director, Cyber Sight, ORBIS International, delivered the third lecture on Strabismus: Some things you may not know. October 17, 2008, through video conference (in picture)

**Prof C Stephen Foster**, Professor of Clinical Ophthalmology, Harvard Medical School, Boston, USA, spoke on Anterior segment inflammatory diseases. November 22, 2008, through video conference

**Dr Brenda L Gallie**, Professor, University of Toronto, Canada, delivered the fifth in the Global Lecture Series on Retinoblastoma: From discovery to health. February 26, 2009, through video conference

**LVPEI, Hyderabad**

**Prof Vinod Pavarala**, Dean, Sarojini Naidu School of Fine Arts, Performing Arts and Communications, University of Hyderabad, delivered a lecture on Media globalisation and alternative media. April 9, 2008

**Mr Mazher Hussain**, Executive Director, Coalition Of Voluntary Agencies (COVA), spoke on Indian foreign policy in the sub-continent: A people’s perspective. May 14, 2008

**Ms R Akhileswari**, senior correspondent, The Deccan Herald, Bengaluru, delivered a lecture on The media under attack. June 11, 2008

**Dr M Srinivasan**, Director and Head of Cornea Services at the Aravind Eye Care System, Madurai, and President, Eye Bank Association of India, delivered the Late Pushkarlalji Tibrewala Public Lecture 2008. He spoke on Eye banking in India: Problems and solutions. August 25, 2008

**Prof Sheela Prasad**, Head, Centre of Regional Studies, University of Hyderabad, delivered a talk on Reflections on population policy. September 10, 2008

**Prof Arthur Ho**, Chief Scientific Officer, Vision CRC, Sydney, Australia, delivered a talk on Accommodation – when will we get enough? September 16, 2008

**Dr L Vijaya**, from Sankara Nethralaya, Chennai, delivered the Dr Rustom D Ranji Rotary Award and Lecture on From population to people – ophthalmic research and your eye. September 18, 2008

**Prof J M Parel**, Research Associate Professor, Department of Ophthalmology, Bascom Palmer Eye Institute, University of Miami School of Medicine, Miami, Florida, USA, delivered a guest lecture on Four decades of ophthalmic product development. September 22, 2008

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**Efficiency**

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**Visiting Professorship Program**

This year LVPEI initiated a ‘Visiting Professorship Program’, with two distinguished professors spending time at the Institute. Professor William Bourne from the world renowned Mayo Clinic, Rochester, USA, was here for 4 weeks. He gave a series of lectures and also had significant interaction with our faculty with an interest in corneal problems.

During his 8 months’ stay, Professor Robert J Biggar, Senior Investigator, National Cancer Institute, National Institutes of Health, USA, worked in areas such as cancer biology, interacting with scientists and graduating students. He also ran a workshop on scientific writing.

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**Dr Lingam Gopal**, Chairman, Sankara Nethralaya, Chennai, delivered the 12th Dr C Syamala Bhaskaran Endowment Lecture on Retinopathy of prematurity — medical and social aspects. October 7, 2008

**Dr Ram Manohar Reddy**, Editor of political commentary, Economic & Political Weekly, delivered a lecture on The current global financial crisis. October 8, 2008

**Dr Robert J Biggar**, Senior Investigator, National Cancer Institute, National Institutes of Health, USA, spoke on Cancers with persons with HIV/AIDS: An epidemiologist’s approach. November 12, 2008

**Mrs Lalitha Raghuram**, India Country Director, Operation Eyesight Universal, spoke on The politics and practice of organ donation: What we need to know. December 10, 2008

**Dr Padmaja Kumari Rani**, Consultant, Shri Bhagwan Mahavir VitreoRetinal Services, Sankara Nethralaya, Chennai, delivered a lecture on Diabetic retinopathy. December 13, 2008

**Dr Robert J Biggar**, Senior Investigator, National Cancer Institute, National Institutes of Health, USA, spoke on Getting published – the politics and practice of scientific writing. January 8, 2009

**Dr Lea Hyvärinen**, pediatric ophthalmologist, Helsinki, Finland, spoke on Structure of assessment of visual functioning for early intervention, rehabilitation and special education. January 16, 2009

**Dr Earl Smith**, Dean, University of Houston College of Optometry, Houston, Texas, USA, spoke on Emmetropisation in myopia. January 17, 2009

**Prof Kevin Naidoo**, Director of Global Programmes, International Centre for Eyecare Education, and Regional Chair, IAPB, Africa, spoke on Global magnitude of refractive errors. January 17, 2009

**Dr K V Chalam**, Chairman and Tenured Professor, Department of Ophthalmology, University of Florida College of Medicine, Florida, USA, spoke on High definition OCT in retinal diseases. January 24, 2009

**Dr Manish Ahuja**, Residency Program Director and Director of Research, Cook Country Hospital, Chicago, USA, delivered a talk on Anti VEGF treatments in diabetic retinopathy. February 6, 2009

**Mr Robert Terry**, Chairman, Contact Lens Society of Australia, Sydney, Australia, delivered a talk on Orthokeratology. February 14, 2009

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LVPEI, Bhubaneswar

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**Dr Bikash R Pattnaik**, Kellogg Eye Center, University of Michigan, USA, delivered two lectures on ERG abnormality and Visual patho-physiology and Ion channel in epithelial transport. April 11 and 12, 2008

**Prof Pran N Nagpal**, Retina Foundation, Ahmedabad, delivered a lecture on Diabetic retinopathy. October 21, 2008

**Prof Steven E Feldon**, Director, University of Rochester Eye Institute, Rochester, New York, USA, delivered a lecture on Thyroid eye disease. January 13, 2009

**Dr Ken K Nischal**, FRC Ophth, Great Ormond Street Hospital for Children, London, delivered a lecture on Comprehensive management of congenital corneal opacity. January 14, 2009

**Prof Susanne Binder**, Department of Ophthalmology, Rudolf Foundation Clinic, Vienna, Austria, delivered a lecture on OCT in retinal disease. January 20, 2009 (pic 1)

**Prof William Bourne**, Mayo Foundation for Medical Education and Research, Rochester, USA, delivered a lecture on The effect of PRK and LASIK on cells, nerve and light scatter on cornea. January 21, 2009 (pic 2)

**Prof Jacob Pee’r**, Hadassah Medical Organization, Jerusalem, Israel, delivered a lecture on Intraocular lymphoma. January 27, 2009 (pic 3)
Training Programs

Trainees continue to come from across India and other parts of the world to L V Prasad Eye Institute’s Education Centre for a variety of training needs ranging from specialized surgical techniques to ophthalmic nursing assistance. This year we had participants from Afghanistan, Australia, Azerbaijan, Bangladesh, Canada, China, Ethiopia, Iraq, Israel, Jordan, Kenya, Mongolia, Nepal, Nigeria, Sri Lanka, United Kingdom, United States of America, Vietnam and Zambia.
# Ophthalmology Training Programs

## Cornea & Anterior Segment

<table>
<thead>
<tr>
<th>24 months</th>
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<tbody>
<tr>
<td>Dr Pham Nguyen Huan</td>
<td>Ho Chi Minh City, Vietnam</td>
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<tr>
<td>Dr Sayan Basu</td>
<td>Kolkata, West Bengal</td>
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<td>Dr Swapnali Sabhapandit</td>
<td>Guwahati, Assam</td>
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<td>Dr Vishram A Sangit</td>
<td>Thane, Maharashtra</td>
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<td>Dr Madhusmita Das</td>
<td>Rourkela, Orissa</td>
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<td>Dr Anurag Mathur</td>
<td>S ikar, Rajasthan</td>
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<td>Dr Jamil Hasnov</td>
<td>Dhaka, Bangladesh</td>
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<td>Dr Rajeeb Alam</td>
<td>Dhaka, Bangladesh</td>
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<td>Dr Abdul Quader</td>
<td>Dhaka, Bangladesh</td>
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<tr>
<td>Dr Krishna Kishor</td>
<td>Florida, USA</td>
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<tr>
<td>Dr Devi Iswarya Das</td>
<td>Cuttack, Orissa</td>
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## Glaucoma

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<tr>
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<tr>
<td>Dr Amer Muhsen</td>
<td>Jerusalem, Israel</td>
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<tr>
<td>Dr Syed Hussain Naqvi</td>
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<tr>
<td>Dr Daisy Pathania</td>
<td>Kota, Rajasthan</td>
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<tr>
<td>Dr Anil Kumar</td>
<td>Hyderabad, Andhra Pradesh</td>
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<tr>
<td>Dr Charushila Pawar</td>
<td>Hyderabad, Andhra Pradesh</td>
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<tr>
<td>Dr Lin Siyong</td>
<td>Tianjin, China</td>
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<td>Dr Arpita Reddy</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Dr Sun Wei</td>
<td>Yunnan, China</td>
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<td>Dr Abdul Hannah Miah</td>
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<td>Dr Boniface Ikenna Eze</td>
<td>Enugu, Nigeria</td>
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<td>Dr Jayanta Kuila</td>
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## Retina Vitreous

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<tbody>
<tr>
<td>Dr Divya Balakrishnan</td>
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<tbody>
<tr>
<td>Dr Zarifa Zeynalova</td>
<td>Baku, Azerbaijan</td>
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<td>Dr Mauricio Caraza Stoumen</td>
<td>Jerusalem, Israel</td>
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<td>Dr Kapil Bhatia</td>
<td>Fatehabad, Haryana</td>
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<td>Dr Kumar Sanbhav</td>
<td>New Delhi</td>
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<td>Dr Atul Kumar Sahu</td>
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## Comprehensive Ophthalmology

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<td>Dr Bhavin S Shah</td>
<td>Vadodara, Gujarat</td>
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<tr>
<td>Dr Arvind Roy</td>
<td>Kolkata, West Bengal</td>
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<tr>
<td>Dr Vaibhav Mittal</td>
<td>Visakhapatnam, Andhra Pradesh</td>
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<td>Dr Manav Khera</td>
<td>Visakhapatnam, Andhra Pradesh</td>
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<tr>
<td>Dr B Venu Gopal Reddy</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Dr Shaista Parveen</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Dr Padmavathi Hingolekar</td>
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<td>Dr Hasan Abdulmair</td>
<td>Baghdad, Iraq</td>
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<td>Dr Chen Xiaoling</td>
<td>Inner Mongolia, China</td>
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<td>Dr Snehal Thakre</td>
<td>Aurangabad, Maharashtra</td>
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<td>Dr Niranjan K Pehere</td>
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## Pediatric Ophthalmology

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<tr>
<td>Dr Md Javed Ali</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Dr Manju Meena</td>
<td>New Delhi</td>
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<tr>
<td>Dr Foluso Oluyemi</td>
<td>Kwara State, Nigeria</td>
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<td>Dr Naimatullah Shams</td>
<td>Kabul, Afghanistan</td>
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<td>Dr Nguyen Thi Thu Ha</td>
<td>Danang, Vietnam</td>
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<tr>
<td>Dr Shruti Tara</td>
<td>Palakkad, Kerala</td>
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## Ophthalmic Plastic Surgery, Orbit & Ocular Oncology

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<tr>
<td>Dr Ratnesh Sharma</td>
<td>Bharatpur, Rajasthan</td>
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<tr>
<td>Dr Neha Bharat</td>
<td>New Delhi</td>
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<td>Dr Rajyalkshmi R</td>
<td>Hyderabad, Andhra Pradesh</td>
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<tr>
<td>Dr Ujwala Hansaraj Baheti</td>
<td>New Delhi</td>
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## Manual Small Incision Cataract Surgery (2 months)

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<tr>
<td>Dr Saurabh Mundhada</td>
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<td>Dr Neelu Agrawal</td>
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<td>Dr Archana Goel</td>
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<td>Dr Chandana Kakati</td>
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<td>Dr Divya Bhatt</td>
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<td>Dr Diwakar Bhatnagar</td>
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<td>Dr Gulbir Singh Rekhi</td>
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<tr>
<td>Dr Shyamal K Saha</td>
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<td>Dr Shubhangi Deshmukh</td>
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<td>Dr Neelam Jauhari</td>
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<td>Dr Vani</td>
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<td>Dr K Joyoth</td>
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<td>Dr Naveen Y</td>
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## DNB (Ophthalmology)

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<td>Dr Brijesh Singh</td>
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**Excellence | Equity**
| Efficiency | 61 |

**Phacoemulsification (1 month)**

- Dr K Madhavilatha, Hyderabad, Andhra Pradesh
- Dr D Aparna, Hyderabad, Andhra Pradesh
- Dr Parvneet Khulsum, Hyderabad, Andhra Pradesh
- Dr Rasna Sharma, Hyderabad, Andhra Pradesh
- Dr Namita Dave, Hyderabad, Andhra Pradesh
- Dr Sreejith, Markapuram, Andhra Pradesh
- Dr D Ravi Kumar, Noida, Uttar Pradesh
- Dr Aparna Gaikwad, Nagpur, Maharashtra
- Dr Shivani Sule, Nagpur, Maharashtra
- Dr Shibha Kyal Singhal, Jaipur, Rajasthan
- Dr Raminder Bir Singh, Anandpur Sahib, Punjab
- Dr Ali Salman, Rochester, USA

**Retina Laser (1 month)**

- Dr Tian Liu, China
- Dr Chen Feng, China
- Dr Mugdha Ranade, Mumbai, Maharashtra
- Dr Debapriya Das, Pune, Maharashtra
- Dr Shailali Singla, New Delhi
- Dr Rinku Das, Cuttack, Orissa
- Dr Ashok Kumar Upadhyay, Cuttack, Orissa
- Dr Sonali Tripathy, Cuttack, Orissa
- Dr Arunima Chakraborty, Cuttack, Orissa
- Ms Mamtam Samal, Cuttack, Orissa
- Dr Sandip Kumar Sahu, Cuttack, Orissa
- Dr Bijjya Birajita Panda, Cuttack, Orissa
- Dr Avik Kumar Roy, Cuttack, Orissa
- Dr Shikha Dhatwani, Varanasi, Uttar Pradesh
- Dr Sanil Kumar Nigan, Allahabad, Uttar Pradesh
- Dr Abhishek Agarwal, Meerut, Uttar Pradesh
- Dr Pallavi Agarwal, Meerut, Uttar Pradesh
- Dr Madhulika, Meerut, Uttar Pradesh
- Dr Varsha Varshney, Meerut, Uttar Pradesh
- Dr Arun Kumar Gupta, Meerut, Uttar Pradesh
- Dr Umaiza Sultana, Lucknow, Uttar Pradesh
- Dr Manpreet Singh Sekhon, Dehradun, Uttarakhand
- Dr Shweta Choudhary, Dharbanga, Bihar
- Dr Kanhaiya Agrawal, Darbhanga, Bihar
- Dr Warkad V Uttamrao, Darbhanga, Bihar
- Dr Praveen K Sharma, Patna, Bihar

**Retinopathy of Prematurity (1 month)**

- Dr Chen Feng, China
- Dr Tian Liu, China
- Dr Debapriya Das, Pune, Maharashtra
- Dr Raeba Mathewa, Thiruvananthapuram, Kerala

**Visual Electrophysiology (1 month)**

- Dr Sarbani Hazra, Kolkata, West Bengal

**LVP – Zeiss Basic Course in Ophthalmic Diagnostics (1 month)**

- Dr A Sireesha, Columbus, USA
- Dr Samir Mahapatra, Bhubaneswar, Orissa
- Dr C K Deepa, Berhampur, Orissa
- Dr Smruti Mishra, Berhampur, Orissa
- Dr Viswanth, Berhampur, Orissa
- Dr Saroja Sekhar Rath, Berhampur, Orissa
- Dr Ankita Sengar, Berhampur, Orissa
- Dr Debasish Parida, Berhampur, Orissa
- Dr Sairamashru Prusty, Berhampur, Orissa
- Dr Rinku Das, Cuttack, Orissa
- Dr Ashok Kumar Upadhyay, Cuttack, Orissa
- Dr Sonali Tripathy, Cuttack, Orissa
- Dr Arunima Chakraborty, Cuttack, Orissa
- Ms Mamtam Samal, Cuttack, Orissa
- Dr Sandip Kumar Sahu, Cuttack, Orissa
- Dr Bijjya Birajita Panda, Cuttack, Orissa
- Dr Avik Kumar Roy, Cuttack, Orissa
- Dr Shikha Dhatwani, Varanasi, Uttar Pradesh
- Dr Sanil Kumar Nigan, Allahabad, Uttar Pradesh
- Dr Abhishek Agarwal, Meerut, Uttar Pradesh
- Dr Pallavi Agarwal, Meerut, Uttar Pradesh
- Dr Madhulika, Meerut, Uttar Pradesh
- Dr Varsha Varshney, Meerut, Uttar Pradesh
- Dr Arun Kumar Gupta, Meerut, Uttar Pradesh
- Dr Umaiza Sultana, Lucknow, Uttar Pradesh
- Dr Manpreet Singh Sekhon, Dehradun, Uttarakhand
- Dr Shweta Choudhary, Dharbanga, Bihar
- Dr Kanhaiya Agrawal, Darbhanga, Bihar
- Dr Warkad V Uttamrao, Darbhanga, Bihar
- Dr Praveen K Sharma, Patna, Bihar
- Dr Ulka A Mirajkar, Hyderabad, Andhra Pradesh
- Dr Deepa D Kandhare, Hyderabad, Andhra Pradesh
- Dr Kadverag S Vasudev, Hyderabad, Andhra Pradesh
- Dr Sameena Kauser, Hyderabad, Andhra Pradesh
- Dr Praneetha Mathayara, Hyderabad, Andhra Pradesh
- Dr B Venu Gopal Reddy, Secunderabad, Andhra Pradesh
- Dr Madhu Uddaraju, Bhimavaram, Andhra Pradesh
- Dr Sreelata V, Warangal, Andhra Pradesh
- Dr K Jyothi, Vemagiri, Andhra Pradesh
- Dr Krishna N, Dibrugarh, Assam
- Dr Bhumiika Deo, Guwahati, Assam
- Dr Pekila Lama, Guwahati, Assam
- Dr Shrabanali Katia, Guwahati, Assam
- Dr Subhajit Das, Guwahati, Assam
- Dr Sourav Ghosh, Guwahati, Assam
- Dr Bijit Borah, Guwahati, Assam
- Dr Kishore Paul, Guwahati, Assam
- Dr Raju Das, Guwahati, Assam
- Dr Ankit Maheshwari, Mumbai, Maharashtra
- Dr Manasa Gadjole, Pune, Maharashtra
- Dr Ajay Kumar Gupta, Wardha, Maharashtra
- Dr Chaya Devi Hj, Bijapur, Karnataka
- Dr Pooj Kishor, Tumkur, Karnataka
- Dr Ayush Singhal, Belgaum, Karnataka
- Dr Praveen Pare, Puttur, Karnataka
- Dr Nitesh Mahajan, Indore, Madhya Pradesh
- Dr Abhishek Bansal, Dehradun, Uttarakhand
- Dr Deepa Ajit Kumar, Bhiwadi, Chattisgarh
- Dr Biswajit Dey, Kolkata, West Bengal

**Medical Elective**

- Dr George Heriot, Melbourne, Australia

**Preceptorship**

- Ms Angelica LY, Sydney, Australia
- Ms Gladys Fung, Sydney, Australia
- Mr Joshua Clark, Sydney, Australia
- Mr Ali Salaam, Rochester, USA
- Mr Allistair Bruce, Melbourne, Australia
- Mr Aaron Martin, Melbourne, Australia
- Mr Martin Grey, Melbourne, Australia
- Ms Bao Nguyen, Melbourne, Australia
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Speciality</th>
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<tbody>
<tr>
<td>Dr Kunjal Sejpal</td>
<td>Mumbai, Maharashtra</td>
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<td>Dr Anuradha Rathod</td>
<td>Lucknow, Uttar Pradesh</td>
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<tr>
<td>Dr RK Chaurasia</td>
<td>New Delhi</td>
<td>Cornea (3 months)</td>
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<td>Dr Vinod K Aggarwal</td>
<td>New Delhi</td>
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<td>Dr Vishal S Kakandhhi</td>
<td>Belgaum, Karnataka</td>
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<td>Dr Abhishek Dagar</td>
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<td>Glaucma</td>
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<td>Dr Aziza Yaseen</td>
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<td>Dr Venugopal S Reddy</td>
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<td>Dr Leila Mohan</td>
<td>Kozhikode, Kerala</td>
<td>Congential Glaucma</td>
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<td>Mr Pritam C Naghmare</td>
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<td>Dr Rama Devi</td>
<td>Bangalore, Karnataka</td>
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<td>Dr N Ezhilvathani Ganapathi</td>
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<td>Dr Kanhaiya Ld Agarwal</td>
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<td>Dr Sanjeev Kumar Gupta</td>
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<td>Dr Vivekanand U Warad</td>
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<td>Dr Partho Bakshi</td>
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<td>Dr Reena Sethi</td>
<td>New Delhi</td>
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<td>Ms Hiba Ahmed</td>
<td>Omah, Nebraska, USA</td>
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<td>Dr Jessica Prasad Rao</td>
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<td>Dr Jenny Boone</td>
<td>Cardiff University, United Kingdom</td>
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<td>Mr Akash Peri</td>
<td>Vancouver, Canada</td>
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<tr>
<td>Ms Sujitha Sivarajah</td>
<td>Aston University, United Kingdom</td>
<td>Optometry</td>
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<td>Ms Reena Chandarana</td>
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<td>Ms Shivaru Kenth</td>
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<td>Ms Kiru Solanky</td>
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<td>Ms Misha Nakum</td>
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<td>Ms Amrita Soor</td>
<td>Coimbatore, Tamil Nadu</td>
<td>Eye Bank</td>
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<tr>
<td>Mr Vinod</td>
<td>Bhimavaram, Andhra Pradesh</td>
<td>Outreach Program</td>
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<td>Dr U Madhu</td>
<td>Miraj, Maharashtra</td>
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<td>Mr R S Wankreale</td>
<td>Moradabad, Uttar Pradesh</td>
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<td>Mr Anuj Kumar</td>
<td>Taipur, Punjab</td>
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<td>Dr Surbhi Joshi</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Ms Veena Sri</td>
<td>Sunnybank Hills, Australia</td>
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<td>Dr Cameron McLintock</td>
<td>Karak, Jordan</td>
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<td>Dr Areej R Somkuwar</td>
<td>Kabul, Afghanistan</td>
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<td>Dr Zarggiba Ganudui</td>
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<td>Mr R Srikanth</td>
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<td>Mr M Sreenu</td>
<td>Raipur, Chattigarh</td>
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<td>Mr Aasdev Nishad</td>
<td>Srikanulam, Andhra Pradesh</td>
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<td>Mr Ch Jagannatha Rao</td>
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Optometry Training Programs

Bachelor of Science in Optometry
(August 2008)

Ms Sunaina Mary Alex Bangalore, Karnataka
Ms Anaparthi Anusha Kakinada, Andhra Pradesh
Mr Pulliah Gudimi Kadapa, Andhra Pradesh
Mr Shaik Hamamedd Irfan Kurnool, Andhra Pradesh
Ms Nagamodi Jayalaxmi Nizamabad, Andhra Pradesh
Mr Shankar K Yadhagi Guda, Andhra Pradesh
Mr Bandela Praveen Kumar Yadagiri Guda, Andhra Pradesh
Ms Gouthami Mahabubnagar, Andhra Pradesh
Ms D Gouthami Mahabubnagar, Andhra Pradesh
Mr G Utham Adilabad, Andhra Pradesh
Ms Manjusha Dharavath Nalgonda, Andhra Pradesh
Mr Ravi Kumar Duguntla Nalgonda, Andhra Pradesh
Mr Y V Priyajanka Jayarathna Sri Lanka
Mr D G S Kelum Tissa Kumara Sri Lanka
Ms M M M Samanmali Malavita Sri Lanka
Mr Mohammed Salmanuddin Hyderabad, Andhra Pradesh
Ms Rajasudha VP Arakkonam, Tamil Nadu
Ms Pallavi A Agarkar Mumbai, Maharashtra
Ms Bhavna D Dedhia Mumbai, Maharashtra
Ms Priyanka Chhatrisa Mumbai, Maharashtra
Ms Madhulata Umesh Thane, Maharashtra
Ms Aditi J Joshi Sangli, Maharashtra
Ms Smriti Prakash New Delhi
Ms Rose Antony T Ernakulam, Kerala
Mr Arun MR Thrissur, Kerala
Mr Saurabh Sharma Mathura, Uttar Pradesh
Mr Akash Deep Rastogi Shahjahanpur, Uttar Pradesh
Mr R Senthil Murugan Chennai, Tamil Nadu

Fellowship in Optometry
13 months

Mr Santanu Jana Midnapur, West Bengal
Mr Kingshuk Biswas Nadia, West Bengal
Mr SK MD Ferdaws Hoogly, West Bengal
Ms Pamela Ghosh Hoogly, West Bengal
Mr Aritra Nayak Kolkata, West Bengal
Mr Preetam Kumar Kolkata, West Bengal
Mr Santanu Ray Parganas, West Bengal
Mr Saurabh Ghosh Nadia, West Bengal
Mr Samit Kundu Malda, West Bengal
Ms Bhaktiprada Sahoo Kolkata, West Bengal
Ms Mahasweta Chowdhury Kolkata, West Bengal
Ms Rajasudha VP Kolkata, West Bengal
Ms G Bhuvaneswari Tiruchurapalli, Tamil Nadu
Ms Alphonsa Sheril CK Coimbatore, Tamil Nadu
Mr Pallavi A Agarkar Mumbai, Maharashtra
Ms Bhavna D Dedhia Mumbai, Maharashtra
Ms Shabnam Y Chhatrisa Mumbai, Maharashtra
Ms Madhulata Umesh Thane, Maharashtra
Ms Aditi J Joshi Sangli, Maharashtra
Ms Smriti Prakash New Delhi
Ms Rose Antony T Ernakulam, Kerala
Mr Arun MR Thrissur, Kerala
Mr Saurabh Sharma Mathura, Uttar Pradesh
Mr Akash Deep Rastogi Shahjahanpur, Uttar Pradesh
Mr R Senthil Murugan Chennai, Tamil Nadu

External Interns

In the academic year 2007–2008 we had for the first time in the history of LVPEI / BLSO optometry interns from other colleges. Two students from BVP/Pune joined us in the academic year 2008–2009 and we had 19 external interns from various colleges.

School of Optometry, Bharati Vidyapeeth University, Pune, Maharashtra
Mr Abhik Bandyopadhyay Hoogly, West Bengal
Mr Japin Padmanabhan Charan Hoogly, West Bengal
Ms Neena Das Hoogly, West Bengal
Ms Moupali Ganguly Kolkata, West Bengal
Mr Bhawesh Kumar Joshi Ahmdabad, Gujarat
Ms Priyanka Kanaskar Jhansi, Uttar Pradesh
Mr Thukaram Kumbar Rangareddy, Andhra Pradesh
Ms G Vindhya Rani Hyderabad, Andhra Pradesh
Mr Rajendra Madhusudan Roy Dhule, Maharashtra
Mr Ramkrishna P Salunke Pune, Maharashtra
Mr Pankaj Verma Lucknow, Uttar Pradesh

Manipal College of Allied Health Sciences, Karnataka
Ms Priya Gupta Manipal, Karnataka
Ms Priyanka Manipal, Karnataka
Mr Syed Abbas Rizvi Manipal, Karnataka
Ms Tejpal Kaur Sohal Manipal, Karnataka
Ms Archana V Udupi, Karnataka

Padmashree Dr D Y Patil Institute of Optometry and Visual Sciences, Pune, Maharashtra
Ms Khetrimayum Ashokiran Devi Imphal, Manipur
Mr Vijay Kumar Patna, Bihar
Mr Raj Kumar Hathras, Uttar Pradesh
Other Eye Care Professional Training Programs

**Diploma in Community Eye Health – 2009 (6 months)**

- Mr Bir Singh Dhami  
  Geta Eye Hospital, Dhangadhi, Kailali, Nepal
- Ms Meenakshi Chundawat  
  Alakh Nayan Mandir Eye Institute, Udaipur, Rajasthan
- Mr Praveen Kumar B  
  Nawabpet, Ranga Reddy, Andhra Pradesh
- Mr Venkateshwarlu Badini  
  Varkatpally, Nalgonda, Andhra Pradesh
- Mr Srinivas Inumarthi  
  Pammare, East Godavari, Andhra Pradesh
- Mr Kamalakar Kukunuru  
  Hyderabad, Andhra Pradesh
- Mr Laxmi Narayana Murthy Landa  
  Vizianagaram, Andhra Pradesh
- Mr Guruswamy Pentapati  
  Chagallu, West Godavari, Andhra Pradesh
- Mr Srinivasa Rao Tirumareddi  
  Madhipalli, Vizianagaram, Andhra Pradesh

**Low Vision and Rehabilitation (3 months)**

- Dr Awa Joy  
  Abia State, Nigeria
- Dr Ogbonna  
  Abia State, Nigeria
- Ms Gurpreet Kaur  
  Chandigarh
- Ms D Lakshmi  
  Visakhapatnam, Andhra Pradesh
- Dr Pushpalatha Chaturvedi  
  Sheikh Sarai, New Delhi
- Ms Archana Tripathi  
  Bhopal, Madhya Pradesh
- Mr Vailhav More  
  Panvel, Maharashtra
- Ms Silba Zumba Mundambo  
  Lusaka, Zambia (1 year)

**Eye Bank Technicians (3 months)**

- Mr Mukesh Kumar Singh  
  Bhairahawa, Nepal
- Ms Baterdene Batmunkh  
  Clinical Hospital, Mangolia
- Mr Rishabh Dev Singh  
  Jaipur, Rajasthan
- Mr Sukhinder Singh  
  Sri Ganganagar, Rajasthan
- Mr Navneet Sharma  
  Jabalpur, Madhya Pradesh
- Mr K Kishore  
  Yanam, Puducherry
- Mr B Madhusudhana Reddy  
  Kadapa, Andhra Pradesh
- Mr P Jagdeeshwara Rao  
  Kakinada, Andhra Pradesh
- Mr T Raju  
  Hyderabad, Andhra Pradesh
- Mr Kumar Nath  
  Kurnool, Andhra Pradesh
- Mr M Sreenu  
  Nalgonda, Andhra Pradesh
- Mr Ch Jagannadh Rao  
  Srikakulam, Andhra Pradesh
- Mr Aasdev Nishad  
  Raipur, Chattisgarh

**Eye Donation Counsellors (1 month)**

- Mr Vijaya Karki  
  Bhairahawa, Nepal
- Ms Liya Tikabo  
  Ethiopia
- Mr B Srinivas  
  Yanam, Puducherry
- Mr Preetam Singh Waghmare  
  Pune, Maharashtra
- Ms Jayantee Sahoo  
  Bhubaneswar, Orissa

**Eye Bank Managers (1 week)**

- Mr S V G Subrahmaniam  
  Chennai, Tamil Nadu
- Mr Vinoth  
  Coimbatore, Tamil Nadu
- Mr Rakesh Khatri  
  Bharatpur, Rajasthan
- Mr Ghanshyam Pandey  
  Neemuch, Madhya Pradesh
- Mr S N Dixit  
  Neemuch, Madhya Pradesh
- Mr Muhammed Kunhi  
  Kerala

**Eye Bank Observers (Ophthalmologists) (1 week)**

- Dr Vamshidhar Maramganty  
  Salem, Tamil Nadu
- Dr Shirish Shiras  
  Ahmednagar, Gujarat
- Dr Rakesh Gupta  
  Bharatpur, Rajasthan
- Dr Hasanov Jamil Vagif  
  Hyderabad, Andhra Pradesh
- Dr Vishal M Shah  
  Hyderabad, Andhra Pradesh

**Reliance – Vision Express**

- Mr Lokesh B S  
  Kolkata
- Ms Karthika  
  Kolkata
- Ms Latha  
  Kolkata
- Ms Usha  
  Kolkata
- Mr Rangaswamy  
  Kolkata
- Mr Raghunath  
  Kolkata
- Mr Micheal  
  Kolkata
- Mr Rau  
  Kolkata
- Ms Vandana Soni  
  Kolkata
- Ms Priyanka Jaiswar  
  Kolkata
- Ms Nagma Kazi Khadare  
  Kolkata
- Ms Namrata Singh  
  Kolkata
- Mr Masoom Hassan  
  Kolkata
- Mr Rohit Konde  
  Kolkata
- Mr Sanjib Laha  
  Kolkata
- Mr Rakesh Kumar Verma  
  Kolkata

**Optometry Interns**

- Ms Soma Rao  
  Kolkata, West Bengal
- Ms Kanika Saha  
  Kolkata, West Bengal
- Ms Purbasha Roy  
  Kolkata, West Bengal
- Mr Raju Kumar  
  Kolkata, West Bengal

**Patient Care Facilitator**

- Mrs K Ramani  
  Visakhapatnam, Andhra Pradesh
## Vision Technicians

**Andhra Pradesh**

<table>
<thead>
<tr>
<th>City</th>
<th>Institution</th>
<th>Contact Person</th>
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<td>Visakhapatnam</td>
<td>LVPEI</td>
<td>Ms N Dharani Mr DSV Ram Kumar</td>
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<td></td>
<td>Mr P Bhima Shankaram Ms Yamuna</td>
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<td></td>
<td></td>
<td>Ms KV Nagalatha Mr A Durgaprasad</td>
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<td>Mr E Vishnu</td>
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<tr>
<td>Mudhol</td>
<td>ICARE</td>
<td>Ms Harzare Devika Ms P Sabitha</td>
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<td>Mr S K Khadar Bhsa Mr Ganji MalliahMr N Ranganjaneyulu</td>
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<td>Yacharam</td>
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<td>Mr V Nagaraju</td>
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<td>Mr M D Ateeq Ahamed Ms B Kalyani</td>
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<td>Mr K Naveen Kumar Mr M D Maqbul PashaMr S Thirupathaiah</td>
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<td>Lions Hospital</td>
<td>Ms R Vijaya Lakshmi</td>
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<td>Karamchedu</td>
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<td>Mr Anil Kumar</td>
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<td>Mr I Rajesh Kumar Mr D Nani</td>
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<td>Ms Debananda Padhy Mr Prabhakar</td>
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<td>Mr P Prabhakar Mr H Prashant Mr Venkata Ramaiah SMr Boja RameshMr R SainathMr Sainath Tatiwar</td>
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<td>Ms Bijayalaxmi Sahoo</td>
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<td>Mr Ritesh Vishwakarma Mr Swayamber SinghMs Huma NaazMr Kushal Pal Singh</td>
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## Diploma in Ophthalmic Techniques Program

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<td>Mahabubnagar</td>
<td>Andhra Pradesh</td>
<td>Mr C Raghava Chary Mr K Ashwin Kumar GoudMs N HelamathaMr G KrishnaiahMr Uganandh Reddy RMs ShahinMs G Sunita</td>
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<tr>
<td>Adilabad</td>
<td>Andhra Pradesh</td>
<td>Mr K Akshay Kumar Mr S NarsaiahMr A OmPrakashMr P PrabhakarMr H PrashantMr Venkata Ramaiah SMr Boja RameshMr R SainathMr Sainath Tatiwar</td>
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<td>West Godavari</td>
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<td>Mr Mandha Prem KumarMs Sana SreevaniMs Prabahadita NaikMs Mamata BarikMr Sandeep PalMr Subham KuchalMs Amit Kumar Giri</td>
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<td>Mr C Raghava Chary Mr K Ashwin Kumar GoudMs N HelamathaMr G KrishnaiahMr Uganandh Reddy RMs ShahinMs G Sunita</td>
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<td>Adilabad</td>
<td>Andhra Pradesh</td>
<td>Mr K Akshay Kumar Mr S NarsaiahMr A OmPrakashMr P PrabhakarMr H PrashantMr Venkata Ramaiah SMr Boja RameshMr R SainathMr Sainath Tatiwar</td>
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<td>West Godavari</td>
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<td>Mr Mandha Prem KumarMs Sana SreevaniMs Prabahadita NaikMs Mamata BarikMr Sandeep PalMr Subham KuchalMs Amit Kumar Giri</td>
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<td>Cameroon</td>
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<td>Mr Rawal Singh</td>
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<td>Moroccan</td>
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<td>Mr Ritesh Vishwakarma Mr Swayamber SinghMs Huma NaazMr Kushal Pal Singh</td>
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## Support Staff

### 12 months

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<th>City</th>
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**ICARE** – International Centre for Advancement of Rural Eye care; **RRLEH** – Ranga Reddy Lions Eye Hospital; **OEU** – Operation Eyeshirt Universal
Hospital Team Training Programs

Chaddami Lal Jagdish Saran Charitable Trust, Moradabad, Uttar Pradesh (3 months)
Mr Shakeel Ahmad Patient Counselor  Mr Anuj Kumar Bio-Medical & Maintenance
Mr Navneet Chauhan Patient Counselor  Mr Satvir Singh Bio-Medical & Maintenance
Ms Swati Saxena Patient Counselor  Mr Krishan Kant Tiwari Medical Record Assistant
Ms Monika Saxena Patient Counselor  Mr Sourabh Choudhary Purchase & Stores Assistant
Mr Vineet Kumar Information System Department

Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam district, Andhra Pradesh
Ms Srividya Kalichati Patient Counselor 4 months
Mr Govindamma Mareddy Ophthalmic Nurse 6 months

Ophthalmic Nursing Assistants

- 24 months
  - Ms P Sudha  Hyderabad, Andhra Pradesh
  - Ms N Anitha  Hyderabad, Andhra Pradesh
  - Ms Seetha Bai  Hyderabad, Andhra Pradesh
  - Ms Tirupathi Bai  Hyderabad, Andhra Pradesh
  - Ms Sarika Sirisha  Hyderabad, Andhra Pradesh
  - Ms Renuka  Mahabubnagar, Andhra Pradesh
  - Ms K Rohini  Kalvakurthy, Andhra Pradesh
  - Ms Anusha  Palakol, Andhra Pradesh
  - Ms Chinnari S  Visakhapatnam, Andhra Pradesh
  - Ms Tulasi Priyanka G Visakhapatnam, Andhra Pradesh
  - Ms Rukmini Kumari T  Visakhapatnam, Andhra Pradesh
  - Ms Santha Kumari  Visakhapatnam, Andhra Pradesh
  - Ms Revathi Y  Visakhapatnam, Andhra Pradesh
  - Ms Annapoornakorn  Visakhapatnam, Andhra Pradesh
  - Ms Jyothsna  Markapuram, Andhra Pradesh
  - Ms Bhagyamma  Markapuram, Andhra Pradesh
  - Ms Jyothi T  Markapuram, Andhra Pradesh
  - Ms Sugunanamma P  Markapuram, Andhra Pradesh
  - Ms Saindri Behera  Dhenkanal, Orissa
  - Ms Masum Mohanty  Bhubaneswar, Orissa
  - Ms Malati Lenka  Bhubaneswar, Orissa
  - Ms Priyambada Parida  Sukinda, Orissa

- 12 months
  - Ms T Rajyalakshmi  Visakhapatnam, Andhra Pradesh
  - Ms B Gowri  Visakhapatnam, Andhra Pradesh
  - Ms G Nandini  Markapuram, Andhra Pradesh
  - Ms T Anusha  Markapuram, Andhra Pradesh
  - Ms T Anusha  Palavancha, Andhra Pradesh
  - Ms Durga  Palavancha, Andhra Pradesh
  - Ms Divya Sree  Palavancha, Andhra Pradesh
  - Ms Rajini  Palavancha, Andhra Pradesh
  - Ms Krishna Kumari  Palavancha, Andhra Pradesh
  - Ms Sheela  Mudhole, Andhra Pradesh
  - Ms Pushpa Latha  Mudhole, Andhra Pradesh
  - Ms Anjum Sultana  Hyderabad, Andhra Pradesh
  - Ms Renuka  Hyderabad, Andhra Pradesh
  - Ms Krishna Veni  Hyderabad, Andhra Pradesh
  - Ms Jyothi Talupula  Inkolli, Andhra Pradesh
  - Ms Bharathi Kurapati  Epurupalem, Andhra Pradesh
  - Ms Manmeet Kaur  Moradabad, Uttar Pradesh
  - Ms Susan Yeolene John  Moradabad, Uttar Pradesh
  - Ms Charu Lamba  Moradabad, Uttar Pradesh
  - Ms Mona Bharti  Moradabad, Uttar Pradesh
  - Ms Mona Goud  Indore, Madhya Pradesh

- 3 months
  - Ms Barnali Mindi  Haldia, Uttar Pradesh
  - Ms Manjula  Hyderabad, Andhra Pradesh

Patient Counsellors

- Ms Mahiya Pradhan  Haldia, Uttar Pradesh
- Ms K Sreekanthi  Visakhapatnam, Andhra Pradesh

Institute of Health Management and Research, Jaipur, Rajasthan
Dr Sk. Fazlul Haque Krishnan Intern. Public Health 3 months

The Calcutta Medical Research Institute, Kolkata
Mr Tirthabas Ghosh Pathology Technician 2 weeks

Orientation workshop for Trainers for Vision Technician Course
Dr Sandeep Bhuttan Dr Shroff's Charity Eye Hospital, New Delhi
Mr A K Singh Dr Shroff's Charity Eye Hospital, New Delhi
Dr Abhishek B Dagar Venu Eye Institute, New Delhi
Dr Abbas Sinha Venu Eye Institute, New Delhi
Mr Balraj Kumar Singh Sadguru Netra Chikitsalaya, Chitrakut
Mr Jay Narayan Kushwaha Sadguru Netra Chikitsalaya, Chitrakut
Ms P Alees Mary LAICO, Madurai
Ms K Rajeswari Prince LAICO, Madurai
Community Eye Care & Community Based Rehabilitation

**Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad district**
- Mr Gadadhala Sayanna: Puspur, Lokeshwararam, Coordinator
- Ms Karuna Gaddam: Gangaramanda, Makloor, CEB Worker
- Ms Neela Chata: Navipet, Nizamabad, CEB Worker
- Mr Sonkamble Babu Rao: Mudhol, Adilabad, CEB Worker
- Mr Maggidi Sridhar: Puspur, Adilabad, CEB Worker
- Mr Rahul Gunderao: Biju, Bhanisa, CEB Worker
- Mr Ashok Pingle: Bhanisa, CEB Worker

**Kuchukulla Ramachandra Reddy Eye Centre, Thoodukurthy, Mahaboobnagar district**
- Mr Kothapally Raju: Indrakal, Nagarkurnool, Supervisor
- Ms Toom Sunitha: Polepally, Bijnapally, CEB Worker
- Mr Parashu Ramulu: Kavali, Nellore, CEB Worker
- Ms Rajitha Kasoju: Lingala, CEB Worker
- Ms Padma M: Ambabakula, Kothakota, CEB Worker
- Mr Komara Venkataiah: Vemcharla, Nagarkurnool, CEB Worker

**Venkata Lakshmi Eye Centre, Karamchedu, Prakasam district**
- Mr Y Venkateswarlu: Vittal Nagar, Chirala, Supervisor
- Ms Sarala Kumari Pallapau: Pallapag, Inkollu, CEB Worker
- Mr Srinivasa Rao G: Ravuripeta, Vetapalem, CEB Worker
- Mr Charles Gali: Nagandla, Inkollu, CEB Worker
- Ms Komara Venkataiah: Nagulapappadu, CEB Worker
- Mr Prabhu Das Nadedla: GV Palem, Chirala, CEB Worker
- Mr Ramesh Yeduri: Inkollu, CEB Worker

**Seshanna Chennawar Eye Centre, Adilabad, Adilabad district**
- Mr Krishnamachary Erroju: Ichoda, Adilabad, Coordinator
- Mr Sagar Pawan: Venkateswarlu, Jainooor, CEB Worker
- Mr Mukkera Rakesh: Mandagada, Jainath, CEB Worker
- Mr Ravi Penta: Dhanur, Boath, CEB Worker
- Ms Suvarna Manne: Darawaka, Dandepally, CEB Worker
- Mr Santosh Meshram: Jainur, Adilabad, CEB Worker

**Siloam Eye Centre, Madanapalle, Chittoor district**
- Mr D Anand: Madanapalle, Coordinator

**Swarna Bharat Eye Centre, Venkatachalam, Nellore district**
- Mr Chinnaiah Malabapu: Kasumuru, Venkatachalam, CEB Worker
- Mr Rajesh Voosi: Dargamitt, Nellore, CEB Worker
- Mr Venkataiah Kadiweti: Kasumuru, Venkatachalam, CEB Worker

**Sudhakar & Sreekanth Ravi Eye Centre, Markapuram, Prakasam district**
- Mr Shaik Abdul Suhel Basha: H Dudem, Cumbum, Supervisor
- Mr Shaik Hussain: Ardhaveedu, CEB Worker
- Mr Patchavali Dudekula: Bestavaripeta, CEB Worker

**LVPEI – VST Vision Screening Centre, Ramnagar, Hyderabad**
- Mr Surender Reddy Narra: Habsiguda, Tarnaka, CEB Worker
- Mr Shanker Mamilla: Darga, Kismathpur, CEB Worker
- Mr Veeru Matam: Shivarampally, Rajendranagar, CEB Worker

**SCOJO Training of Trainers of Vision Entrepreneurs on Integrated Community Eye Care**

**Hyderabad, Andhra Pradesh**
- Mr Ganjaeliya
- Mr K Krishna
- Mr S Raja Rao
- Mr K V S Maruti Ram
- Mr A Srinivasa Rao
- Mr Arunesh Singh
- Mr J Sudheer Kumar
- Mr D Sudhir Kumar
- Mr Ch Surya Prakash
- Mr M Prasad Raj
- Ms Anitha Gopalan
Ophthalmic Instrument Maintenance Technicians (6 months)
Mr John Wanjohi Muthike Nairobi, Kenya
Mr Joseph Rotich Barabara Nairobi, Kenya

Diploma in Eye Health Management Course (12 months)
Mr Vijay Konduru Guntur, Andhra Pradesh
Mr Bal Reddy Patlolla Medak, Andhra Pradesh
Ms Sukanya Erpani Hyderabad, Andhra Pradesh
Ms Pavithra Erpani Hyderabad, Andhra Pradesh
Mr Shankarappa S Mahabubnagar, Andhra Pradesh
Mr Harikrishna Sadige Adilabad, Andhra Pradesh
Mr Ayyappa Adapa East Godavari, Andhra Pradesh
Ms Manemma Ellendula Karimnagar, Andhra Pradesh

Paramedical Ophthalmic Assistants Refresher Course on Clinical Techniques
Supported by Andhra Pradesh Right to Sight Society
Mr Shiva Shankar Eeda Mahabubnagar, Andhra Pradesh
Mr Siva Kumar Voleti Venkata East Godavari, Andhra Pradesh
Mr Ajay Kumar Shilagani Karimnagar, Andhra Pradesh
Mr Krishnaiah Veerabrahmmam Ranga Reddy, Andhra Pradesh
Mr Narsimha Chary Veeravelli Ranga Reddy, Andhra Pradesh
Mr Ramachandra Rao Boyina Srikakulam, Andhra Pradesh
Mr Srinath Gomazam Karimnagar, Andhra Pradesh
Mr Mall Reddy Gade Warangal, Andhra Pradesh
Mr Harinath Nehru Anupolu Medak, Andhra Pradesh
Mr Ram Chander Velpula Khammam, Andhra Pradesh
Mr Krishna Rao Sappa Venkata Rama Vizianagaram, Andhra Pradesh
Mr V Bhujanga Reddy Nizamabad, Andhra Pradesh
Mr M V Nagananjeyulu Akurati Prakasam, Andhra Pradesh
Mr Bichanna Mahabubnagar, Andhra Pradesh
Ms Satyanarayana Sri Guntur, Andhra Pradesh

Supported by Operation Eyesight Universal
Ms Elizabeth Chacko Little Flower Eye Hospital, Angamaly Kerala
Ms Veena George Little Flower Eye Hospital, Angamaly, Kerala
Sr. Fidelis St. Joseph’s, Koathamangalam, Kerala
Sr. Sneha St. Joseph’s, Koathamangalam, Kerala
Mr Anup Chatterjee SGLEH, Siliguri, West Bengal
Mr Debashish Chatterjee TSSK, Malda, West Bengal
Mr Bikram Das TSSK, Malda, West Bengal
Ms S Packialakshmi GMEH, Mettupalayam, Tamil Nadu
Ms T Esther GMEH, Mettupalayam, Tamil Nadu
Mr Tentu Ravi Kumar OEU Hospital, Vizianagaram, Andhra Pradesh
Mr Ramesh Panda AVEH, Srikakulam, Andhra Pradesh
Mr M Kurma Rao AVEH, Srikakulam, Andhra Pradesh
Mr Ajay Verma MDSD, Kullu, Himachal Pradesh
Mr Arun Rai Chaudhri Child Eye Care, Dang, Gujarat
Mr Suresh Palakkal Mohanan St. Gregorious Balagram Eye Hospital, Vizianagaram, Andhra Pradesh
Mr Pawan Pancholi Indore Eye Hospital, Indore, Madhya Pradesh
Sr. Puspa Assumption, Kanhipuram, Kerala
Mr K R B Sukarbhain Child Eye Care, Dang, Gujarat

Training Program for Field Investigator
Refractive Error Impact Assessment Study
Ms E Surya Arunodaya Hyderabad, Andhra Pradesh
Mr Ediga Rupsen Hyderabad, Andhra Pradesh
Mr Prakash Jetekar Adilabad, Andhra Pradesh
Mr Laxman Chaketyy K Adilabad, Andhra Pradesh
Mr Bhasker Dasari Mahabubnagar, Andhra Pradesh
Mr Srivasa Gommoju Mahabubnagar, Andhra Pradesh
Mr Adinarayana Gani Prakasam, Andhra Pradesh
Mr Yellamma Gali Prakasam, Andhra Pradesh

SGLEH – Siliguri Greater Lions Eye Hospital; TSSK – Thakur Sitaram Seve Kendra; GMEH – Garnet Memorial Eye Hospital; AVEH – Arogyavaram Eye Hospital; MDSD – Maya Dass Shiv Dass Rotary Eye Hospital
Central Audio-Visual Unit

‘Don’t concede to eye cancer. Not in this age!’ a public service announcement (PSA) produced by the Central Audio-Visual Unit (CAVu) was one of 13 finalists at Reel Lives: The Cancer Chronicles, the first ever international documentary film competition on cancer. Reel Lives 2008 was conducted by the International Union against Cancer (UICC), which received over 250 entries from 40 countries.

The Central Audio Visual Unit now prepares interactive DVDs for conference delegates. Three DVDs were produced: Eye-PEP 2008, Cutting Edge 2008 and Squint CME and Workshop 2008. We also produced videos for competitions of the American Academy of Ophthalmology and All India Ophthalmological Society. Six videos were selected for inclusion in the Front Row View Series-3 DVD of the American Academy of Ophthalmology 2008.

We produced over 37 videos for competitions and for training. A video on slit lamp examination was completed; it will be used as a training tool. Over 800 video clips were provided to consultants and fellows for presentation at various conferences.

Videos Produced – 34

- Wonder of water – Blumenthal manual small incision cataract surgery in phacoemulsiﬁcation – Dr Srivalli Kaza, Dr Rohit Khanna
- Four musketeers to the rescue – use of iris hooks in small pupil phacoemulsiﬁcation surgery – Dr Srivalli Kaza, Dr Rohit Khanna
- Surgical management of a child with congenital glaucoma and fetal hydrocephalus – Dr Anil K Mandal, Dr Sunayana Hegde, Dr Vijaya Kumari Gothwal
- Full thickness donor scleral patch graft for hypotony maculopathy following glaucoma filtering surgery with Mitomycin C – Dr Anil K Mandal, Dr Rajat Maheshwari, Dr Sirisha Senthil, Dr Rasheena Bansal
- Classical surgical technique of Ahmed glaucoma valve implantation – Dr Anil K Mandal, Dr Rasheena Bansal, Dr Garudadri Chandra Sekhar, Dr Peter A Netland
- Pot-pourri of shocks & surprises – tackling the posterior capsule in a posterior polar cataract – Dr Srivalli Kaza, Dr Rohit Khanna
- Cultivated limbal stem cell transplantation – the surgical technique – Dr Virender S Sangwan, Dr Sanghamitra Burman
- Use of capsular tension ring in subluxated cataract surgery – Dr Rohit C Khanna, Dr Manish Shyamkul, Dr Gaurav Gupta, Dr Srivalli Kaza
- No bubble, no trouble: The groove & peel technique – a simpliﬁed approach to deep lamellar keratoplasty – Dr Rishi Swarup, Dr Azad Gaurav Bansal, Dr Virender S Sangwan
- Cataract surgery with primary posterior capsulotomy combined with silicone oil removal – Dr Raja Narayanan, Dr Rajeev Reddy, Dr Vinay A Shah
- Surgical reposition of late traumatic flap slippage and tear at the superior hinge after uneventful Laser in Situ Keratomileusis (LASIK) – Dr Pravin V Krishna, Dr R Muraleedhara, Dr Sunita Chaurasia
- Vertical lid split orbitotomy: A step by step approach – Dr Savari Desai, Dr Santosh G Honavar
- Interpretation of MRI in ophthalmological practice – Dr Kekunnaya Ramesh, Dr Virender Sachdeva, Dr Vijay Bhasker Nori, Dr Sunitha Lingareddy
- Celeb Udho Sahu Fund – Shobha Mocherla, Gangadhar Jalli
- Don’t concede to eye cancer. Not in this age! – Shobha Mocherla, Gangadhar Jalli (English – Versions 1, 2, 3; Telugu Version 1)
- Aankh mein chamak (Hindi – Version 1) – Shobha Mocherla
- Aankh mein chamak (Hindi – Version 2) – Shobha Mocherla, Gangadhar Jalli
- Twinkle, twinkle, little star (Public Service Announcement on Retinoblastoma, English, Versions 1, 2) – Gangadhar Jalli, Shobha Mocherla
- Leaking bleb – How to ﬁx it? – Dr Sirisha Senthil, Dr Anil K Mandal
- Fosters modiﬁcation of Knapps procedure for the management of double elevator palsy – Dr Ramesh Murthy, Dr Sunayana Hegde
- Loop myopexy for the management of Strabismus Fixus – Dr Ramesh Murthy, Dr Sunayana Hegde
- Ahmed glaucoma valve implant in refractory glaucomas – Dr Sirisha Senthil
- Techniques of trabeculectomy – Dr G Chandra Sekhar, Dr Sirisha Senthil
- Management of complicated cataract with bogged-down pupil – Dr Rupesh V Agarwal
- Salvaging the unsalvageable – Dr Rupesh V Agarwal
- Full thickness donor scleral patch graft for hypotony maculopathy glaucoma ﬁltering surgery with Mitomycin C – Dr A K Mandal, Dr Rajat Maheshwari
- 25 gauge limbal vitrectomy under topical anesthesia – Dr Raja Narayanan
- Squint CME and workshop 2008 (Interactive DVD) – Dr Ramesh Kekunnaya
- Diabetic screening day in VLPEI – Dr Avinash Pathengay
- My turn: Information for outpatients (Hindi) – Central Audio-Visual Unit
- The day of my surgery: Information for surgical patients (Hindi) – Central Audio-Visual Unit
- Cataract surgery and surgical packages – Dr Pravin V Krishna
- Fire exit plan for the basement, VLPEI, KAR campus – Surendra G
- Slitlamp examination made easy – MVinod Kumar
Eye Research

Understanding the causation and the living dynamics of eye health — at the social, individual and molecular level — is what drives research at LVPEI. Problems studied are not arcane; they derive from the experiences and problems of patients, and feed back into them in the form of treatment options and opportunities. Through the various laboratories and the foundations that make up the Prof Brien Holden Eye Research Centre, our scientists isolate disease risk factors and modifiers, look at the impact of different treatment options through clinical trials, study the nature-nurture dialectic, and understand how the pathology of disease plays out, all in close association with clinicians. Research at LVPEI is supported by grants from national and international sources and during the last year resulted in 63 publications and 468 conference presentations.
Prof Brien Holden Eye Research Centre

Research at L V Prasad Eye Institute is conducted through its constituent arm, the Hyderabad Eye Research Foundation (HERF), which is recognized by the Indian Government’s Department of Scientific and Industrial Research (DSIR) as a Scientific and Industrial Research Organization (SIRO). HERF continues to compete for and receive grants from all over the world to conduct cutting edge research on the eye. The Prof Brien Holden Eye Research Centre (BHERC) investigates the causes and treatment strategies through its various components, namely the Champalimaud Translational Centre (C-TRACER), the Jhaveri Microbiology Centre, the Saroja A Rao Immunology Laboratory, the Kallam Anji Reddy Molecular Genetics Laboratory, the Sudhakar and Sreeranath Ravi Stem Cell Biology Laboratory, the Ophthalmic Pathology Laboratory, and the clinical research laboratories. Each of these components has been named after its donor, in recognition of their generous support.

Support and recognition
Research at HERF is focused on:

a) the molecular and functional genetics of inherited and complex eye diseases,
b) devising molecular diagnostics for early detection and seeking targets where effective intervention can occur,
c) microbiology of eye infections,
d) biochemical features of cataract, and
e) stem cell technology applied to some eye disorders.

Support for these projects have come from competitive grants received 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, as well as the National Eye Institute (NEI, National Institutes of Health), USA. Thanks to the recently formalized US – India eye research collaboration, several joint research projects have been initiated at HERF, jointly with researchers in the US.

Likewise, collaborative research has been initiated with colleagues in Australia, Canada and Japan through the DBT-sponsored bilateral Indo-Australian and Indo-Canadian programs and the DST-sponsored India-Japan, India-Tunisia and India-Brazil programs. In addition, HERF is one of the four pillars of the multinational research and development group called Vision CRC (operating from Sydney, Australia), and conducts research on its behalf on a series of clinical studies such as antibacterial contact lenses and corneal onlays. The Institute is recognized as an external research centre by the university of Hyderabad, Hyderabad; Birla Institute of Technology & Science (BITS), Pilani; and the University of New South Wales, Sydney, Australia. This enables research scholars from LVPEI to register with, and obtain their Ph D 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), National Institute of Nutrition (NIN), and University of Hyderabad – all in Hyderabad, at the Indian Institute of Science, Bangalore, the National Brain Research Centre, Manesar; Haryana and Indian Statistical Institute (ISI), Kolkata. 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. Clinical research has also focused on the suitability of using extended wear contact lenses. This involves recruitment of volunteers and monitoring comfort levels and related factors upon the use of contact lenses over a period of time. Another area of study is the efficacy, pharmacodynamics and related features of ophthalmic drugs and antibiotics. Many of the studies are conducted in collaboration with leading pharmaceutical companies.

Champalimaud Translational Centre
The Champalimaud Translational Centre for Eye Research has been set up at LVPEI in January 2008. The Champalimaud Foundation, based in Lisbon, Portugal, was set up on the bequest of the late Portuguese entrepreneur and philanthropist, António de Sommer Champalimaud. The Foundation has a long-term commitment to support medical research, in particular neurology, oncology and 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 will focus on the following areas:

• Research and therapy through the utilisation of stem cells in vision-related illnesses;

• Translational research utilising existing and novel clinical methodologies with the objective of 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;
• Organize the Antonio Champalimaud Symposium on January 30th of every year, during which leaders in the area of ophthalmology from the world, as well as distinguished scientists from India, are invited to lecture.

On January 30, 2009, we had lectures by Dr Jeremy Nathans of Johns Hopkins University, Baltimore, MD, USA, (who won the Champalimaud Prize for Vision Research, 2008); Dr William M Bourne of Mayo Clinic, Rochester, MN, USA; Dr Virender S Chauhan of the International Centre for Genetic Engineering and Biotechnology, New Delhi; and Dr K VijayRaghavan of the National Centre for Biological Sciences, Bangalore. In addition, research updates were provided by colleagues of the LVP family.

With the creation of C-TRACER, the Champalimaud Foundation will try to work towards the prevention, treatment and eradication of vision-related illness in India and some other parts of the world.

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New stem cell initiatives to address retinal disorders

**Investigators:** Indumathi Mariappan, Chitra Kannabiran, D Balasubramanian, Geeta K Vemuganti, Virender S Sangwan, Subhadra Jalali, Annie Mathai, Raja Narayanan, Milind Naik  
**Support:** Hyderabad Eye Research Foundation (LVPEI)

Retinal dystrophy is a progressive genetic disorder resulting in degeneration of rod and cone photoreceptor cells causing night blindness and gradual loss of vision, progressing to complete blindness. The most untreatable form of blindness is caused by the loss of rod and cone photoreceptor cells and the adjacent retinal pigment epithelial cells. Treatment modalities including gene therapy slow down disease progression by preventing or delaying further cell death, but the photoreceptors once lost cannot be salvaged. Therefore, cell replacement therapy holds a great promise in treating such diseases. Many studies have shown that retina is amenable for cell replacement therapy, initiating a search into adult stem cells that can give rise to photoreceptor cells and retinal-pigmented epithelial (RPE) cells.

The ciliary-pigmented epithelium (CPE) of the human eye is known to harbor retinal stem cells, which can differentiate into RPE cells and the retinal neurons including photoreceptor cells. Limbal stem cells (LSC) are more plastic and can be induced to express neural stem cell markers when cultured in the presence of mitogens and inhibitors of BMP signaling pathway. It has also been shown that completely differentiated adult somatic cells, like skin fibroblasts can be reprogrammed to a more primitive ES-like state by ectopic expression of some of the genes implicated in stemness and pluripotency. These cells were christened as induced pluripotent stem cells (iPSCs) and they behave very much similar to ES cells in terms of stemness and pluripotency.

LVPEI has initiated basic research towards isolation, characterization and differentiation of both CPE and LSC towards retinal progenitor lineage for their possible use in cell replacement therapy. We have also initiated basic research towards the establishment of RP patient-specific iPS cells to check their potential to differentiate into retinal progenitors.
Research in molecular genetics

Novel causes of congenital hereditary cataract

Investigators: Chitra Kannabiran, Surya Prakash Ponnamp, Kekunaya Ramesh, Sushma Tejwani, BS Murthy, Jyoti Matala

Support: Council of Scientific and Industrial Research, India

Congenital cataract is a major cause of visual impairment in children. About one-third to one-fifth of all congenital cataract is hereditary. Hereditary cataracts are a group of clinically and genetically heterogeneous disorders caused by single gene mutations. These diseases run in families with autosomal dominant or recessive forms of inheritance. Several genes are known that give rise to hereditary cataracts when mutated. These genes encode various lens proteins including those that are structural proteins, lens membrane proteins, and proteins involved in lens development and metabolism.

A study carried out at LVPEI investigated the genetic cause of congenital autosomal dominant and recessive cataracts in 40 families – 30 with dominant and 10 with recessive cataract. Patients of these families were tested for mutations in 10 different genes known to be involved in congenital cataract. Such an analysis revealed novel disease-causing changes in the gap junction gene GJA8 encoding the gap junction (connexin) protein connexin-50. This protein forms intercellular channels called gap junctions, that are responsible for cell-cell communication within the lens. Mutations were found in 2 families in the GJA8 gene that caused autosomal recessive cataract. This was the first report of GJA8 mutations leading to recessive cataract since they were previously associated only with dominant cataract. These mutations are expected to cause loss of function of the connexin-50 protein, thereby resulting in lens opacity. We are further studying these mutations by expressing the mutant proteins in vitro in cultured cells to find out if and how they are altered with respect to the wild type connexin-50 protein.

Another novel finding was a mutation in the gene known as LIM2, encoding a lens membrane protein. The precise role of the LIM2 protein in the lens is not understood as yet. One family with a severe form of congenital cataract with autosomal recessive inheritance had a mutation resulting in an amino acid substitution in the LIM2 gene. This provides the first evidence of a mutation in this gene causing congenital cataract and demonstrates the importance of the LIM2 gene in the normal functioning of the lens.

Genetics of retinal degeneration

Investigators: Chitra Kannabiran, Hardeep Singh, Subhadra Jalali, Raja Narayanan

Support: Department of Biotechnology, India, and Champalimaud Foundation

Retinal degenerations or dystrophies are a major cause of blindness and are mostly untreatable at present. They occur due to gene mutations in one of several different genes, which result in the degeneration and death of the photoreceptor cells in the retina. Retinitis pigmentosa (RP) is one of the more common forms of retinal degeneration that is a progressive disease involving diminished vision and loss of visual fields often progressing to complete blindness. There are dominant recessive and X-linked forms of RP. Studies at LVPEI have focused on different forms of RP as well as other types of retinal dystrophy. Using a screening approach designed for autosomal recessive RP, we screened 23 different genes for involvement in the disease in over 30 affected families. Pathogenic mutations were found in a few different genes that include those known to cause recessive RP and are important for the functioning of the visual pathway in the retina. These results reveal novel causes of RP in Indian populations. Using separate approaches, we are also mapping the disease locus in large families with dominant or recessive RP. These studies indicate mapping of a new locus for dominant RP.

Genetic studies in eye diseases are directed at those that are caused partly or wholly by genetic alterations. The identification of the underlying altered (or mutated) disease-causing gene helps in understanding the mechanism of the disease. It also helps provide newer insights into the biological role of a specific gene or protein in the diseased tissue.

In some cases it can be useful to perform genetic tests on patients and family members to predict the risk for a particular disease even before it manifests. Studies carried out at the Kallam Anji Reddy Molecular Genetics Laboratory at LVPEI have resulted in the identification of novel genes underlying various inherited eye disorders and also characterizing the effect of gene mutations on the encoded proteins.

Pedigree drawings of families with recessive cataract and GJA8 gene mutation (top) or LIM2 mutation (bottom). Circles and squares represent females and males, respectively. The symbols shaded black represent those with cataract, while open unshaded symbols represent unaffected persons. A slash sign indicates a deceased individual. Couples connected by a double line indicate a consanguineous marriage.
Significant Projects

Jhaveri Microbiology Centre

**Loop mediated isothermal amplification (LAMP) method for the diagnosis of viral retinitis caused by Herpes Simplex (HSV), Varicella Zoster (VZV) and Cytomegalo Viruses (CMV)**

**Investigators:** G Ashok Kumar Reddy, B Praveen Kumar, Inderjeet Kaur, Rajeev Kumar Reddy, Annie Mathai

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

This project was undertaken to develop a novel nucleic acid amplification method called loop-mediated isothermal amplification (LAMP) for the diagnosis of viral retinitis, caused by Herpes Simplex, Varicella Zoster and Cytomegalo Viruses. The most significant advantage of LAMP is the ability to amplify specific sequences of DNA under isothermal conditions between 63 °C and 65 °C, thereby obviating the need for a thermal cycler. Moreover, this method can be carried out with simple systems and the LAMP reaction can be monitored in real-time through measurement of turbidity, which is correlated with the production of magnesium pyrophosphate, by means of an inexpensive photometer. Alternatively, by the addition of SYBER green dye the presence of amplification can also be detected just by a colour change without the use of any spectrophotometer. So far we have standardized LAMP for Herpes Simplex Virus.

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

**Involvement of FOXC1 in primary congenital glaucoma**

**Investigators:** Subhabrata Chakrabarti, Kiranpreet Kaur, Inderjeet Kaur, Kollu N Rao, Anil K Mandal, Rajul S Parikh, Ravi Thomas

**Support:** Program Support Grant, Department of Biotechnology, India

Primary congenital glaucoma (PCG) is an autosomal recessive disorder that has been linked to CYP1B1 mutations. Earlier we showed that a small proportion of PCG cases that did not harbor CYP1B1 mutations exhibited a heterozygous mutation in the myocilin gene (MYOC, OMIM 601652) that causes primary open angle glaucoma. We aimed to explore the role of FOXC1 (6p25), which is involved in anterior segment dysgenesis, in PCG. The FOXC1 protein is expressed in various ocular and non-ocular tissues and both the FOXC1 null (Foxc1-/-) and the heterozygote (Foxc1+/-) mice were found to have anterior segment abnormalities similar to human patients with anterior segment dysgenesis (ASD) and congenital glaucoma.

To the best of our knowledge, this is perhaps the first study to report the involvement of FOXC1 in large cohort of PCG cases. FOXC1 was screened in 210 PCG cases who were either heterozygous (41) or did not harbor any CYP1B1 mutation (169) along with ethnically matched normal controls (n=157) by resequencing the entire coding region. Two heterozygous missense (H128R and C135Y) and three frameshift mutations (g.1086delC, g.1155del9bp and g.1947dup25bp) were observed in FOXC1 in 5/210 (2.38%) cases. The missense mutations had a de novo origin in two sporadic cases, while the FOXC1 deletions were seen in two cases that were also heterozygous for the CYP1B1 allele (R368H). The involvement of the double heterozygous variants FOXC1 and CYP1B1 in two cases was interesting but their role in disease causation is yet to be established. Overall, the present study indicated a limited role of FOXC1 in PCG pathogenesis. More information in *Invest Ophthalmol Vis Sci* 2009; 50: 75-83.

**Genome-wide association study (GWAS) on age-related macular degeneration (AMD)**

**Investigators:** Subhabrata Chakrabarti, Inderjeet Kaur, Paul N Baird, Robyn H Guymer, Nazimul Hussain, Raja Narayanan, Rajeev K Reddy, Annie Mathai, Ajit B Majji, Andrea Richardson, Maria Schache, Ross Dunn

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

Genome-wide association studies (GWAS) are a powerful tool to delineate the underlying genetic mechanisms in complex disorders. Based on a joint Indo-Australian collaborative project with the Centre for Eye Research Australia (CERA), a whole genome scan was initiated on AMD cohorts in India and Australia. The Stage-I genotyping involved a discovery cohort of 100 cases and 100 controls that were genotyped on an Affymetrix microarray platform with 1.8 million SNPs (including genomic SNPs and copy number variations). The initial results indicated that 1162 SNPs were commonly associated across the Indian and Australian datasets under the Stage-II genotyping process.
Genetics of age related macular degeneration – an update

**Investigators:** Inderjeet Kaur, Subhabrata Chakrabarti, Santha Katra, Rajiv K Reddy, Raja Narayan, Annie Mathai, Ajit B Majji

**Support:** Indo Australian collaborative research grant and Fast Track grant from Department of Science and Technology, India

Age related macular degeneration (AMD) has been implicated to multiple variations in several complement factor genes. Association studies have demonstrated the involvement of a CFH polymorphism (Y402H) worldwide. Subsequent studies have proved that variations other than Y402H could also influence the risk of AMD. The present study aimed at identifying variations in chromosome 1 including the CFH gene and other genes involved in complement regulation; complement component 2, 3, 5 (C2, C3, C5) genes and factor B (Bf), in an Indian cohort. Factor B (CFB) and component C2 genes are located in the major histocompatibility complex class III region (6p21) and are found to be expressed in the neural retina, RPE and choroids. The tag SNPs in these genes were screened using the Illumina Golden Gate assay in the study cohort comprising of unrelated AMD patients (n=250) and ethnically matched normal controls (n=250) enrolled based on AREDS criteria. The results indicated a potential risk haplotype within an extended region of CFH (without Y402H) with AMD susceptibility in the Indian cohort. Also, SNPs in C2 and CFB gene confers a significant protective risk of AMD.

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

**Isolation and characterization of limbal stromal cells**

**Investigators:** Geeta K Vemuganti, Naresh Polisetty, Indumathy M, Shubha Tiwari, Soumya Savy, P Kondaiah (Indian Institute Science, Bangalore)

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

Epithelial and mesenchymal cells of the limbus and bone marrow were isolated and characterized for various epithelial and mesenchymal markers. The epithelial cells showed positive for K3, K14, ABCG2, E-cadherin, whereas the mesenchymal cells of the limbus and bone marrow showed positive for CD90, CD29, CD71, VCAM. Mesenchymal cells isolated from the bone marrow and limbus showed similar phenotypic characteristics by immunophenotyping and culture characteristics. The gene expression profile analysis, carried out using microarrays at the Indian Institute of Science, Bangalore, showed that the gene signature of epithelial and mesenchymal cells is different. It also revealed a crosstalk between these two cell types in the limbus. Microarray data was validated by real-time PCR and semi-quantitative RT-PCR for a dozen of markers.

Developing a global blueprint for zero PCG: Understanding the molecular basis of PCG

**Investigators:** Subhabrata Chakrabarti, Partha P Majumder, Luba Kalaydjieva, Inderjeet Kaur, Anil K Mandal, Rajul S Parikh, Ravi Thomas, K Narayanasamy, Jamie Craig, Ivailo Tournev, Silvia Choremkova

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

In continuation to the ongoing genetics work in PCG, the present study is based on identifying the uncharacterized genes in PCG through the model of human evolution. The premise is based on the background of the evolution and migration of gypsies from India. The cohort comprises an isolated population (gypsies) derived from an ancestral population (Indian), which was founded in the recent timescale of evolution, as a result of which it would have undergone a minimum number of genetic recombinations. Gypsy patients exhibit 20% involvement of CYP1B1 mutations in PCG, while it is around 40% for Indian patients. The study employs a GWAS in PCG cases and controls in both the cohorts using the 1.8 million SNP Affymetrix array. We plan to derive the regions of shared haplotypes across the genomes and identify the conserved regions between these two groups, which would harbor mutations in gene(s) causing PCG.

As the limbal stromal are HLA-DR negative and hypo immunogenic, attempts are being made to develop a stable cell line to use them as feeder cells for the in vitro culture and expansion of limbal stem cells.

**Phenotypic and genotypic characterization of limbal stem cells, cultivated limbal epithelial cells, and persistence of these characteristics after clinical transplantation**

**Investigators:** Virender S Sangwan, Geeta K Vemuganti, D Balasubramanian, Anees Fatima, Lakshmi Soundarya, Shubha Tiwari, Soumya Savy

**Support:** Department of Biotechnology, India

During the period April 2008 – March 2009, 86 patients underwent a limbal biopsy procedure. All the transplantations were autologous. The patient population was predominantly male (58 males, 28 females) ranging in age from 1 to 77, the mean age being about 22. All these patients presented with the primary etiology of chemical burns and were diagnosed for LSCD. All the cultures showed good growth after 10-14 days of ex-vivo culture, during or after transplantation of cultivated limbal epithelium.
Evaluation and characterization of cancer stem cells in retinoblastoma tumor

**Investigators:** Geeta K Vemuganti, Chitra Kannabiran, Santosh Honavar, Ramesh Murthy, Balla Sagar

**Support:** Indian Council of Medical Research

Retinoblastoma (Rb) is an intraocular tumor that grows rapidly, threatening sight and life. As in other tumors, there is increasing speculation that the Rb tumor also contains cancer-stem like cells, which could influence the prognosis and response to therapy. This study attempted to identify putative stem cells by characterizing different sub-populations in retinoblastoma based on light scatter properties and differential expression of markers. Freshly isolated tumor cells obtained from 7 unfixed eye specimens were analyzed for the presence of CD44, ABCG2, CXCR4, CD133, and CD90 using flow cytometry. Dead cells were excluded by appropriate gating. RT-PCR was performed to analyze the expression of human Syntaxin1A, PROX1, CD133 and NSE in the sorted sub-population of tumor cells.

Based on light scatter properties, we observed two different sub-populations of cells in 7 samples. The small cells, assigned FSClo/SSClo (Forward scatter low/Side scatter low, ranging from 1.7% to 17.7%), were characterized as positive for CD44 and negative for CD133, CXCR4 and CD90. The large cells were designated as FSChi/SSClo (Forward scatter high/Side scatter low, ranging from 2.7% to 35.1%) and characterized as positive for CD44, CD133, CXCR4 and CD90. Semi-quantitative RT-PCR analysis revealed that sorted cells of FSChi/SSClo sub-population expressed retinal progenitor cell markers PROX1 and Syntaxin1A. In contrast FSChi/SSClo sub-population has shown low expression of these markers. We conclude that retinoblastoma, on flow cytometric analysis, reveals two distinct sub-populations expressing variability in stem cell and retinal progenitor markers.

Clonal assay of the two different sub-populations and differentiation assays are under way.

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

**Investigators:** Geeta K Vemuganti, Gorakh Parulkar, Santosh Honavar, Vijay Anand P Reddy, Shubha Tiwari

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

After following due procedure, lacrimal glands and conjunctival tissues were harvested from patients undergoing exenteration. The harvested tissue was explanted on denuded human amniotic membrane and uncoated tissue culture dishes. Their growth potential on both the substrates was evaluated. Initial results with three samples show that the enzyme cocktail of collagenase and hyluronidase gives better viability of cells on isolation.

The lacrimal gland epithelial cells (LGEC) show better growth on denuded human amniotic membrane while on uncoated tissue culture dishes the growth of fibroblast cells is greater. We also observed mixed populations of epithelial and fibroblast cells in our cultures.

At present we are trying to optimize the culture condition to get a pure yield, growth and proliferation of lacrimal gland epithelial cells. These cells will then be characterized for the known epithelial and mesenchymal markers by confocal microscopy, FACS, IHC, RT-PCR methods. The secretory function of the LGEC will be done on the conditioned medium for the presence of IgA, lactoferrin and lysozyme by sandwich ELISA method.

**Cultivated oral mucosal epithelial cells for reconstructing the ocular surface in patients with severe ocular surface diseases**

**Investigators:** Geeta K Vemuganti, Virender S Sangwan, Santosh G Honavar, Soundarya Lakshmi

**Support:** Department of Biotechnology, India

During the year 21 eyes underwent cultivated oral mucosa transplantation (3 bilateral cases); the chief etiology was chemical injury. The other cases included gelatin drop like dystrophy. Of these, 1 was a child and 17 were adults (14 males, 4 females). The cultures were good and surgery went well. The patients are now on quarterly follow-up.

**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 the culture and delivery of corneal epithelial cells to treat blinding ocular surface diseases. The project also includes a ‘proof of concept’ clinical trial to establish the safety and efficacy of this technique in comparison to the established technique of corneal epithelium transplantation using amniotic membrane as a culture substrate. The plasma polymer coating technique allows exact control over the film thickness and has formed the basis for an established skin cell therapy in the treatment of chronic wounds and burns. By applying this technique to the cornea, we have the potential to develop a novel method for the culture and transplantation of corneal epithelium. As a part of initial standardizations and surface compatibility testing, we tried four different polymer chemistries for their suitability to promote corneal epithelial cell adhesion, proliferation and differentiation by using both explant and isolated single cell culture methods. Further investigations would help identify a suitable substrate for coating contact lens surfaces.
## Basic research projects – April 1, 2008 to March 31, 2009

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<th>Principal Investigators</th>
<th>Duration</th>
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<tr>
<td>Stem cell therapy for stroke in rat model</td>
<td>Department of Biotechnology</td>
<td>Dr Geeta K Vemuganti&lt;br&gt;Dr Prakash Babu (University of Hyderabad)</td>
<td>2005-2008</td>
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<td>Phenotypic &amp; genotypic characterization of limbal stem cells, cultivated limbal epithelial cells and persistence of these characteristics after clinical transplantation</td>
<td>Department of Biotechnology</td>
<td>Dr Geeta K Vemuganti&lt;br&gt;Dr V S Sangwan&lt;br&gt;Prof D Balasubramanian</td>
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<td>Genetic evaluation of factor B and complement component C2 in the susceptibility to age related macular degeneration</td>
<td>Department of Science &amp; Technology</td>
<td>Dr Inderjeet Kaur&lt;br&gt;Dr Santosh G Honavar&lt;br&gt;Dr V S Sangwan</td>
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<td>Characterization of cultivated oral mucosal epithelial cells and its application for reconstructing the ocular surface in patients with severe ocular surface disease</td>
<td>Department of Biotechnology</td>
<td>Dr Geeta K Vemuganti&lt;br&gt;Dr Santosh G Honavar&lt;br&gt;Dr V S Sangwan</td>
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<td>Program support on translational research on eye diseases</td>
<td>Department of Biotechnology</td>
<td>Project A: Dr Geeta K Vemuganti&lt;br&gt;Project B: Dr Chitra Kannabiran&lt;br&gt;Project C: Dr Inderjeet Kaur&lt;br&gt;Project D: Dr Subhabrata Chakrabarti&lt;br&gt;Project E: Prof D Balasubramanian</td>
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<td>Establishing a “Risk assessment chip” for the eye disease age related macular degeneration</td>
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<td>Dr Subhabrata Chakrabarti&lt;br&gt;Dr Inderjeet Kaur</td>
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<td>Molecular studies on hereditary cataracts</td>
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<td>Loop mediated isothermal amplification method for the diagnosis of viral retinitis caused by herpes simplex varicella zoster and cytomegalovirus</td>
<td>Department of Science &amp; Technology</td>
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<td>Cultivation and characterization of human lacrimal gland cells for potential clinical application for post radiotherapy xerophthalmia</td>
<td>International Atomic Energy Agency</td>
<td>Dr Geeta K Vemuganti&lt;br&gt;Dr Santosh G Honavar&lt;br&gt;Dr Vijay Anand P Reddy</td>
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<td>Study of the role of vitreous liquefaction in age-related nuclear cataract</td>
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<td>An advanced surface for the cell therapy of limbal epithelium for ocular surface disease: Proof of concept and clinical trials</td>
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<td>Dr Virender Sangwan&lt;br&gt;Dr M Indumathi</td>
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<td>Developing a global blueprint for zero PCG</td>
<td>Department of Biotechnology</td>
<td>Dr Subhabrata Chakrabarti&lt;br&gt;Prof Partha P Majumdar&lt;sup&gt;1&lt;/sup&gt;&lt;br&gt;Prof Luba Kalaydijeva&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>Molecular characterization of nonsporulating filamentous fungi isolated from microbial Keratitis</td>
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<sup>1</sup>Indian Statistical Institute, Kolkata  
<sup>2</sup>Western Australia University, Perth
Clinical research projects – April 1, 2008 to March 31, 2009

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<td>University of</td>
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<tr>
<td>Comparative study of the safety and effectiveness between OculusGenTM</td>
<td>OculusGen</td>
<td>Dr G Chandra Sekhar</td>
<td>2007-2009</td>
</tr>
<tr>
<td>Collagen Matrix implant and Mitomycin-C in glaucoma filtering surgery</td>
<td></td>
<td>Dr B L Harsha</td>
<td></td>
</tr>
<tr>
<td>Posurdex study for DME</td>
<td>Allergan</td>
<td>Dr Ajit Babu Maji</td>
<td>2006-2009</td>
</tr>
<tr>
<td>Posurdex study for RVO</td>
<td>Allergan</td>
<td>Dr Annie Mathai</td>
<td>2006-2009</td>
</tr>
<tr>
<td>Posurdex study for intermediate uveitis</td>
<td>Allergan</td>
<td>Dr Virender S Sangwan</td>
<td>2006-2009</td>
</tr>
<tr>
<td>LUMINATE uveitis study (LX211-01-UV)</td>
<td>LUX Biosciences</td>
<td>Dr Somasheela Murthy</td>
<td>2007-2009</td>
</tr>
<tr>
<td>LUMINATE active uveitis study (LX211-02-UV)</td>
<td>LUX Biosciences</td>
<td>Dr Somasheela Murthy</td>
<td>2007-2009</td>
</tr>
<tr>
<td>LUMINATE active uveitis study (LX211-03-UV)</td>
<td>LUX Biosciences</td>
<td>Dr Somasheela Murthy</td>
<td>2007-2009</td>
</tr>
<tr>
<td>A multicenter, placebo-controlled, randomized, parallel-group dose-</td>
<td>LUX Biosciences</td>
<td>Dr Virender S Sangwan</td>
<td>2008-2012</td>
</tr>
<tr>
<td>ranging study to assess the efficacy and safety of LX201 for prevention</td>
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<td>of corneal allograft rejection episodes and graft failure following</td>
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<tr>
<td>penetrating keratoplasty with LX201 implantation in subjects who are at</td>
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<td>increased immunological risk</td>
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<tr>
<td>A multicenter, placebo-controlled, randomized, parallel-group dose-</td>
<td>LUX Biosciences</td>
<td>Dr Virender S Sangwan</td>
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<tr>
<td>of corneal allograft rejection episodes and graft failure following</td>
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<tr>
<td>penetrating keratoplasty with LX201 implantation in subjects who have</td>
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<tr>
<td>experienced one or more rejection episodes following penetrating</td>
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<tr>
<td>keratoplasty</td>
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<td></td>
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<tr>
<td>A study of unilateral retinoblastoma with and without histopathologic</td>
<td>Children’s Oncology</td>
<td>Dr Santosh G Honavar</td>
<td>2009-2011</td>
</tr>
<tr>
<td>high-risk features and the role of adjuvant chemotherapy – A groupwide</td>
<td>Group</td>
<td></td>
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<tr>
<td>phase III study</td>
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<tr>
<td>A phase 3 prospective, randomized, double-masked, 12-week parallel</td>
<td>Pfizer</td>
<td>Dr Anil K Mandal</td>
<td>2009 (3 months study)</td>
</tr>
<tr>
<td>group study evaluating the efficacy and safety of Latanopropr and</td>
<td></td>
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<tr>
<td>Timolol in paediatric subjects with glaucoma</td>
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</tbody>
</table>
## Operations Research

**International Centre for Advancement of Rural Eye Care (ICARE)**

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Investigators</th>
<th>Supported by</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity building program for management of diabetic retinopathy in Andhra Pradesh</td>
<td>Dr Taraprasad Das, Dr Annie Mathai, Ms S Sheeladavi</td>
<td>Lions Club International Foundation, USA</td>
<td>August 2005 – July 2008</td>
</tr>
<tr>
<td>Comprehensive Eye Health program in Prakasam district, Andhra Pradesh</td>
<td>ICARE – LVPEI team</td>
<td>Ravi Brothers, USA</td>
<td>August 2005 – July 2010</td>
</tr>
<tr>
<td>Impact Assessment Study after refraction error correction among schoolgoing children</td>
<td>Mr Jachin D Williams</td>
<td>Vision CRC, Australia</td>
<td>September 2005 – December 2008</td>
</tr>
<tr>
<td>Sight for Kids</td>
<td>Mr Jachin D Williams</td>
<td>Lions Club International Foundation, Denmark</td>
<td>November 2005 – March 2009</td>
</tr>
<tr>
<td>Child to Child and Child to Family communication as a strategy to improve awareness and uptake of eye care services</td>
<td>Mr D Kiran</td>
<td>Vision CRC, Australia</td>
<td>April 2006 – December 2008</td>
</tr>
<tr>
<td>Diabetes prevention program through Child to Family Communication for change in lifestyle and health promotion in Prakasam district, Andhra Pradesh</td>
<td>Ms S Sheeladavi, Ms Jayanthi Sagar</td>
<td>World Diabetes Foundation, Denmark</td>
<td>August 2006 – March 2011</td>
</tr>
<tr>
<td>Pediatric Ophthalmology Learning and Training Centre</td>
<td>Dr Ramesh Murthy, Dr Giridhar Pyda</td>
<td>ORBIS International, USA</td>
<td>October 2006 – March 2010</td>
</tr>
<tr>
<td>Rapid assessment of cataract surgical services in Service Centre areas</td>
<td>Mr M Srinivas, Dr Gullapalli N Rao</td>
<td>LV Prasad Eye Institute</td>
<td>At regular intervals</td>
</tr>
<tr>
<td>Nimmagadda Prasad – LVPEI Children’s Eye Health Initiative</td>
<td>Mr S Bhattacharya, Ms S Sheeladavi</td>
<td>Nimmagadda Foundation, India</td>
<td>July 2007 – June 2020</td>
</tr>
<tr>
<td>Community Linkage for Integration of Primary Health</td>
<td>Dr Syed Imtiaz Ahmed, Mr S Bhattacharya</td>
<td>LV Prasad Eye Institute, India</td>
<td>August 2008 – December 2009</td>
</tr>
<tr>
<td>Capacity building program to address diabetes and diabetic retinopathy in Prakasam district, Andhra Pradesh</td>
<td>Dr Ajit Babu Majji, Ms S Sheeladavi</td>
<td>World Diabetes Foundation, Denmark</td>
<td>September 2008 – August 2013</td>
</tr>
<tr>
<td>Rapid Assessment of Refractive Errors</td>
<td>Mr M Srinivas, Dr Jill E Keeffe, Dr Gullapalli N Rao</td>
<td>LV Prasad Eye Institute, India and Vision CRC, Australia</td>
<td>At regular intervals</td>
</tr>
</tbody>
</table>

## Research scholars at Prof Brien Holden Eye Research Centre

**Kallam Anji Reddy Molecular Genetics Laboratory**

**Ophthalmic Pathology**
Guru Prasad Manderwad

**Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory**
Purushotham Reddy, Naresh Polisetti, Murali Mohan Sagar Balla, Shubha Tiwari, Subhash Gaddipati

**Biochemistry Laboratory**
Venu Talla, Venkata Pulla Rao, Madhavi Latha Chalsani, Ramya Rajagopal (Research Associate)
Honors & Awards

D Balasubramanian, Director, Prof Brien Holden Eye Research Centre, LVPEI, was elected to the German Academy of Sciences Leopoldina, the world’s oldest academy of scholars in the natural sciences. Very few Indians are part of this select group, he is the first vision scientist so honoured. The Academy, founded in 1652, elects scientists who have distinguished themselves.

Subhabrata Chakrabarti
Invited to be Member, Editorial Board, Journal of Glaucoma for a period of 3 years

Santosh Honavar
Invited to Chair the World Health Organization’s International Classification of Diseases (ICD) Work Group on Ophthalmic Plastic and Reconstructive Surgery set up to revise ICD Codes (Version 11)

Subhadra Jalali
American Academy of Ophthalmology Achievement Award 2008

Anil K Mandal
American Academy of Ophthalmology Senior Achievement Award 2008

Milind Naik
• Elected Secretary of Asia Pacific Society of Ophthalmic Plastic & Reconstructive Surgery (APSOPRS); the youngest office-bearer in APSOPRS, he will also serve as the Society’s web master
• American Academy of Ophthalmology Achievement Award 2008

Raja Narayanan
Lifelong Education of Ophthalmologist (LEO) Award from American Academy of Ophthalmology 2008

International

Subhabrata Chakrabarti
• Member, WGA Promulgation Committee, World Glaucoma Association
• Received second Indo-Australian grant on ‘Developing a global blueprint for zero PCG: Towards a complete understanding of the molecular basis of primary congenital glaucoma (PCG)’
• Member, WGA Award committee, World Glaucoma Association

Subhash Gaddipatti
Best poster award, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

BL Harsha
Best poster award, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

Santosh G Honavar
• Best Poster Award from American Academy of Ophthalmology, 2008
• Editor, Abstracts, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

Srivali Kaza
Best of Show for her video, American Academy of Ophthalmology, 2008

A K Mandal
• Best poster award from American Academy of Ophthalmology, 2008
• Best poster award in scientific session, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

Somasheila Murthy
Travel grant for 7th International symposium on Uveitis, IUSSG, Constance, Germany. September 2008

Avinash Pathengay
Best poster award from American Academy of Ophthalmology 2008

Naresh Polisetti
Best paper award, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

K Nageswara Rao
Best poster award, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009

Soumya Savy
Best poster award, Asia Association for Research in Vision and Ophthalmology (Asia ARVO) meeting, Hyderabad. January 15-18, 2009
Geeta K Vemuganti
Invited by International Atomic Energy Agency to attend the first Research Coordination Meeting (RCM) on improving outcomes in radiotherapy using novel biotechnologies: modification of tissue reactions and the use of stem cell therapeutics, IAEA Headquarters

Tele-ophthalmology program
A tele-ophthalmology program developed by Byrrapu Foundation and L V Prasad Eye Institute won First Place at the Consumer Health World Awards. Under the program ophthalmologists and trained vision technicians from LVPEI will diagnose and treat patients in remote locations by ‘virtually’ viewing their eyelids, conjunctivias, corneas, anterior chambers, irises, pupil reactions and lenses, thus providing eye care at their doorstep.

National

Madhusmita Das
Received Academic & Research Committee (ARC) Young Researcher Award 2009 from All India Ophthalmological Society, Jaipur. February 5-8, 2009

Taraprasad Das
Elected Secretary to VISION 2020 India for a 3-year period, September 2008 to November 2010

Santosh G Honavar
Professor Gopinatha Menon Memorial Oration, Kochi. August 2008

Chitra Kannabiran
Associate editor, Journal of Genetics (published by the Indian Academy of Sciences)

Virender S Sangwan
Stem cell therapy contribution ranked among the top 10 medical miracles in India Today’s 3rd commemorative issue

Geeta K Vemuganti
Stem cell therapy contribution ranked among the top 10 medical miracles in India Today’s 3rd commemorative issue

Ajit B Majji
Elected Honorary Secretary of Vitreo-Retina Society – India for second term. December 2008

Ramesh Murthy

Surya Prakash Goud Ponnam
Best poster award at Indian Eye Research Group meeting, Madurai. July 26-27, 2008

Virender Sachdeva
Expert on Neurophthalmology Panel, All India Ophthalmological Society mailing group. August to October 2008

Sirisha Senthil
• External peer reviewer for Ophthalmic Surgery and Lasers
• Awarded best free paper and best video, XVIII annual conference of Glaucoma Society of India, Chandigarh. October 31 – November 2, 2008

Hardeep Pal Singh
Travel fellowship for Indian Eye Research Group meeting, July 2008

Savitri Sharma
Elected President of Indian Association of Medical Microbiologists (IAMM), Pune, October 23-25, 2008. Awarded the presidential gold medal and will deliver presidential oration at the next conference. Received IAMM silver jubilee best paper gold medal in parasitology for her presentation
State

**Beula Christy**  
Recognised for outstanding performance for the welfare of disabled women and children by Thapana Charitable Trust, Thyagaraja Gana Sabha, Hyderabad.  
November 30, 2008

**Chitra Kannabiran**  
Andhra Pradesh Scientist Award 2008 in Medical Sciences from Andhra Pradesh State Council for Science and Technology

**Pravin V Krishna**  
CS Reshmi Endowment lecture, Sarojini Devi Eye Hospital, Hyderabad. October 2008

**G Chandra Sekhar**  
Special Appreciation Award as a deserving citizen for rendering exemplary public service. July 7, 2008

**Virender S Sangwan**  
H V Desai Award for best work in ocular surface disorders, H V Desai Eye Hospital, Pune. April 20, 2008

**Rishi Swarup**  
Appointed webmaster for Hyderabad Ophthalmic Association website

**Geeta K Vemuganti**  
Honored as Woman Achiever by Lions Club International at Mahila Utsav 2009, Hyderabad

Governor of Andhra Pradesh Mr N D Tiwari honors Dr G Chandra Sekhar, Director, LVPEI, Hyderabad
Publications


Letters to the Editor


Presentations

In addition to the following, our faculty participated in other international/national scientific and non-scientific forums during the year. At several meetings multiple presentations were made.

Rupesh Vijay Agarwal
International
Invited faculty/Free papers/Poster/Video presentation
International Society of Ocular Trauma meeting, Wurzburg, Germany. June 19-22, 2008

National
Invited faculty
Annual meeting, Tamil Nadu Ophthalmologists Association, Chennai. August 8-10, 2008

Invited speaker
Solapur Ophthalmologist Association meeting, Solapur. August 17, 2008

Invited faculty
Hyderabad Ophthalmologists Association meeting, Hyderabad. August 24, 2008


Sayed Imtiaz Ahmed
National
Faculty
Public Health Field Leader Fellowship Program, Public Health Management Institute (in collaboration with CDC, Atlanta), Hyderabad. September 27, 2008

Invited speaker

Hemalatha Arunachalam
National
Host faculty
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 25-27, 2008

20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

K Hari Babu
International
Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Deepak K Bagga
International
Invited speaker
Special Interest Group Symposium, 2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Host faculty
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 25-27, 2008

In-house faculty

20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

Diabetic Retinopathy Symposium, Lions Clubs International Foundation and LVPEI, Hyderabad. October 4-5, 2008

Invited speaker
Macula workshop, LVPEI, Hyderabad. October 19, 2008

D Balasubramanian
International
Participant
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Invited speaker

University of Pennsylvania & National Institutes of Health, Bethesda, Maryland, USA. June 3-15, 2008

Member

Invited speaker

International workshop on Science Journalism, Colombo. September 7-9, 2008


Annual congress of European Association for Vision & Eye Research, Portoroz, Slovenia. September 30 – October 5, 2008

Secretary General
Third World Academy of Sciences meeting and 25th anniversary celebrations, Mexico. November 7-16, 2008

Chair
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Secretary General
Third World Academy of Sciences meeting, Paris. February 24-26, 2009

National
President
Council Meeting, Indian Academy of Sciences, Bangalore. April 19-20, 2008

Invited speaker
Foundation Day lecture, Central Electrochemical Research Institute, Karaikudi, Tamil Nadu. July 25, 2008

Annual meeting, Indian Eye Research Group, Aravind Eye Hospital, Madurai. July 26-27, 2008
Chair
Stem Cell Task Force meeting, Department of Biotechnology, New Delhi. August 4-5, 2008

Member
Academic Council meeting, Tata Institute of Fundamental Research, Mumbai. August 8, 2008

Chair
Research Council meeting, National Chemical Laboratory, Pune. August 18, 2008

Invited speaker
Inauguration of Kamalnayan Bajaj Research Institute of Vision Sciences, Sankara Nethralaya, Chennai. September 5, 2008
Biotechnology Forum, Confederation of Indian Industry meeting, Hyderabad. September 16, 2008
John F Welch Technology Centre meeting, General Electric Corporation, Bangalore, September 22, 2008

Chair
2nd expert committee meeting on bioresource development and utilization, Department of Biotechnology, New Delhi. October 10, 2008

Invited speaker
Centenary celebrations of Birla Institute of Technology and Science, Pilani. October 11, 2008

President
Indian Academy of Sciences annual meeting, Indian Institute of Technology, Mumbai. October 31 – November 2, 2008

Invited speaker

President
Society of Biological Chemists of India meeting, Indian Institute of Technology, Chennai. December 18-20, 2008

Invited speaker

Chair
Task Force meeting, National Centre for Biological Sciences, Bangalore. January 27-28, 2009

Invited speaker
BioAsia, Hyderabad. February 4, 2009
Foundation Day lecture, Institute of Life Sciences, Bhubaneswar. February 11, 2009

Chair, Jury
Science & Technology workshop and Jury meeting, New Delhi. February 12-13, 2009

Member
Meeting of Academy Council of Homi Bhabha National Institute, Bhabha Atomic Research Centre, Mumbai. February 18, 2009

Invited speaker
International symposium on interface between chemistry and biology, National Centre for Biological Sciences, Bangalore. February 19, 2009
30th Prof K K Nair Commemoration Lecture, Osmania University, Hyderabad. February 21, 2009
3rd Prof Alladi Prabhakar Endowment Lecture, The Institution of Electronics & Telecommunication Engineers, Hyderabad. February 27, 2009
Prof K. Rangadharma Rao Memorial Lecture, Telugu University, Hyderabad. February 28, 2009

Chief Guest/Invited speaker

Chair
Institutional Biosafety Committee, Blue Peter Research Centre, Hyderabad. March 9, 2009

Invited speaker
Academy Lecture, Vivekananda College, Madurai. March 13, 2009

Keynote speaker
Dr MGR University, Chennai. March 26, 2009

Soumyava Basu
International
Poster presentation
7th International Symposium on Uveitis, International Uveitis Study Group, Constance, Germany. September 9-12, 2008

Paper presentation/Faculty, Special Interest Group
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty
Shared Clinical Experience Network (SCENE) meeting for Macugen users, Pfizer India, Kolkata. April 27, 2008

Invited speaker
Symposium on Systemic Diseases and the Eye, Kalinga Institute of Medical Sciences, Bhubaneswar. September 7, 2008

Invited faculty
Annual meeting of Uveitis Society of India, Hyderabad. January 18-19, 2009
Retina Congress, LVPEI, Visakhapatnam. March 28, 2009

Shubhrakanti Bhattacharya
International
Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Subhabrata Chakrabarti
International
Invited speaker
Centre for Eye Research, University of Melbourne, Melbourne, Australia. August 7, 2008
XVIII International Congress of Eye Research, Beijing, China. September 28, 2008
Jules Stein Eye Institute, University of California, LA, USA. December 12, 2008
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited speaker
International conference on nanomedicine, Sankara Nethralaya, Chennai. September 3-5, 2008
‘TCG-ISI Fogarty-NIH workshop on genetic dissection of complex traits’, Saha Institute of Nuclear Physics, Kolkata. February 27, 2009

Beula Christy
National
Host faculty
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 25-27, 2008
20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

External evaluator
Post intervention outcomes for community based rehabilitation project for persons with disabilities, Koraput, Orissa. February 18-22, 2009

Sujata Das
National
Faculty/Paper presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

ORBIS faculty
Evaluation of Cornea Fellowship Program at Islamia Eye Hospital, Dhaka. February 15-18, 2009

Poster presentation

National
Invited faculty

Paper/Poster presentation

Faculty
Cornea and Contact lens meeting, LVPEI, Bhubaneswar. August 15-17, 2008

Taraprasad Das
International
Poster presentation
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Invited speaker
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty
Guwahati Eye Institute, Guwahati, Assam. June 2008

Invited speaker

66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Visiting scientist
Postgraduate Institute of Medical Education and Research, Chandigarh. March 18, 2009

S Sheela Devi
International
Poster presentation

National
Invited speaker/Faculty

Merle Fernandes
International
Voluntary faculty
ORBIS Hospital Based Program, Enugu, Nigeria. July 14-18, 2008

Chief Instructor

Invited faculty/Session coordinator
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty

Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion's Eye Hospital, Nidadavole. May 25, 2008

Cornea & Contact Lens Program, LVPEI, Bhubaneswar. August 15-17, 2008

Invited speaker

Invited faculty
Subhash Gaddipati  
**International**  
**Paper/Poster presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Prashant Garg  
**International**  
**Invited speaker/Chair, symposium**  

**Invited faculty**  

**Invited speaker**  

**Invited faculty/speaker**  
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

**Special invitee/Invited speaker**  
Anniversary celebrations of Ophthalmology Department, University of Nairobi, Nairobi. November 22, 2008

Vijaya K Gothwal  
**National**  
**Host faculty**  
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 25-27, 2008

**In-house faculty**  
20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

Roshni Gupta  
**International**  
**Paper presentation**  
Fall Meeting, American Society of Ophthalmic Plastic and Reconstructive Surgery, Atlanta, USA. November 12-13, 2008

2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National  
**Invited faculty**  

Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion’s Eye Hospital, Nidadavole. May 25, 2008

Invited speaker, Meeting of Visakha Ophthalmic Association, Visakhapatnam. August 31, 2008

**Invited speaker/Session convener/Free paper presentation**  

**Organising secretary/Invited speaker**  
Cutting Edge 2008, Oculoplasty and Oncology Update, LVPEI, Visakhapatnam. November 30, 2008

**Invited speaker**  
Annual meeting of Oculoplasty Association of India, Gurgaon. December 4-7, 2008

BL Harsha  
**International**  
**Invited speaker/Paper/Poster presentations**  
South East Asia Glaucoma Interest Group SEAGIG annual meeting, Seoul, South Korea. September 25-27, 2008

**Poster/Paper presentation/Panelist**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Usha Gopinathan  
**International**  
**Participant**  

**Invited speaker**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Rituparna Ghoshal  
**National**  
**Host faculty**  
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 6, 2008

20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

Usha Gopinathan  
**International**  
**Participant**  

**Invited speaker**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Vijaya K Gothwal  
**National**  
**Host faculty**  
19th Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 25-27, 2008

**In-house faculty**  
20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

Roshni Gupta  
**International**  
**Paper presentation**  
Fall Meeting, American Society of Ophthalmic Plastic and Reconstructive Surgery, Atlanta, USA. November 12-13, 2008

2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National  
**Invited faculty**  

Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion’s Eye Hospital, Nidadavole. May 25, 2008

Invited speaker, Meeting of Visakha Ophthalmic Association, Visakhapatnam. August 31, 2008

**Invited speaker/Session convener/Free paper presentation**  

**Organising secretary/Invited speaker**  
Cutting Edge 2008, Oculoplasty and Oncology Update, LVPEI, Visakhapatnam. November 30, 2008

**Invited speaker**  
Annual meeting of Oculoplasty Association of India, Gurgaon. December 4-7, 2008

BL Harsha  
**International**  
**Invited speaker/Paper/Poster presentations**  
South East Asia Glaucoma Interest Group SEAGIG annual meeting, Seoul, South Korea. September 25-27, 2008

**Poster/Paper presentation/Panelist**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

**National**  
**Invited speaker**  
Pushpagiri Eye Institute, Hyderabad. April 6, 2008
Invited faculty

Invited speaker
Medical management of glaucoma, Alcon, Warangal. June 22, 2008

Posters presentation
XVIII Glaucoma Society of India 2008 meeting, Chandigarh. October 31 – November 2, 2008

Invited speaker
Glaucoma CME, World Glaucoma Day celebrations, LVPEI, Hyderabad. March 8, 2009
Hyderabad Ophthalmic Association meeting, Hyderabad, March 15, 2009

Santosh G Honavar
International
Invited speaker
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Organizing Secretary/Invited speaker
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited speaker/Chair, Session
Annual meeting of Delhi Ophthalmological Society, New Delhi. April 2008

Invited speaker
Annual meeting of Cochin Ophthalmic Club, Kochi. August 2008

Invited speaker/Chair, Session

Invited speaker
Cutting Edge 2008: Oculoplasty and Oncology Update, LVPEI, Visakhapatnam. November 30, 2008
Annual meeting of Oculoplasty Association of India, Gurgaon. December 4-7, 2008

Invited faculty
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Subhadra Jalali
International
Invited speaker
National R eVeal meeting, Alcon, Cairo. May 16-18, 2008

Chairperson/Program Committee Chair/Invited speaker

Invited chairperson/Speaker

Invited speaker/Poster presentation/Convenor, sessions
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Host faculty

Invited speaker
Workshop to develop manual and wall charts on Retinopathy of Prematurity, National Programme for Control of Blindness, New Delhi. October 22, 2008
Annual conference of Indian Academy of Paediatrics – Twin Cities Branch, Niloufer Hospital, Hyderabad. October 25-26, 2008

Invited speaker and panelist

Invited speaker
Ventilation workshop, Fernandez Maternity Hospital, Hyderabad. February 28, 2009

Korani Jyothi
National
Faculty

Invited speaker
National seminar on Rural Healthcare, Byrraju Foundation, Hyderabad. December 12, 2008

Chitra Kannabiran
International
Invited speaker
GRIP program, Indo-US collaborative program in eye research, Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Faculty
Special Interest Session on ’LVPEI – a nonprofit comprehensive center for community eye care in India’, annual congress of European Association for Vision & Eye Research, Portoroz, Slovenia. September 30 – October 5, 2008

Invited speaker
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited speaker
International conference on Genetic and Molecular Diagnosis in Modern Medicine, Kamineni Education Society, Hyderabad. February 13-15, 2009
Workshop on Clinical Dysmorphology and Advanced Clinical Cytogenetics, Centre for Human Genetics, Bangalore. March 4-6, 2009

Efficiency
Saritha Katta
International
Paper presentation
2nd Asia ARVo (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National

Inderjeet Kaur
International
Poster presentation
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008
Invited speaker
Centre for Eye Research, Melbourne, Australia. August 4, 2008
Paper presentation
Invited speaker/Moderator, session
AMD symposium, 2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty
Padmavati Mahila University, Tirupati. December 15-17, 2008

Srivalli Kaza
International
Poster/Video presentation
Annual Academy of Ophthalmology annual meeting, Atlanta, USA. November 8-11, 2008
Paper presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Ramesh Kekunnaya
International
Delegate
Poster/Video presentation
Poster presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008
Invited faculty/Strabismus Section Coordinator
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Faculty
Invited faculty
Invited faculty/Anchor, Panel Discussion
Organizing secretary
Strabismus: CME and national workshop, LVPEI, Hyderabad. September 13-14, 2008

Siddharth Kesarwani
International
Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
National
Video presentation
Interesting cases – an interactive session, annual conference of Orissa State Ophthalmic Society, Rourkela. October 18-19, 2008

Rohit Khanna
International
Paper/Poster presentations
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008
Posters/Video presentation
Session faculty/Poster presentation
Invited speaker
Annual congress of European Association for Vision & Eye Research, Portoroz, Slovenia. September 30 – October 5, 2008
Faculty/Video presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008
Invited speaker/Paper & Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
National
Host faculty

Invited speaker/Paper, Video & Poster presentations
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Pravin V Krishna
International
Video presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Invited speaker/Free paper presentation/Moderator
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Invited speaker
Cicendo Eye Hospital centenary celebrations, Bandung, Indonesia. January 22-24, 2009

National
Convener/Co-instructor

CS Reshmi endowment lecture
Endothelial Keratoplasty, Sarojini Devi Eye Hospital, Hyderabad. October 2008

Invited speaker

Organizing secretary/Invited speaker
Cornea Day, Asia Cornea Society, LVPEI, Hyderabad. January 14, 2009

Co-instructor/Invited speaker
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

S Krishnaiah
International
Poster presentation
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Meena Lakshmipathy
National
Invited faculty
Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion’s Eye Hospital, Nidavadole. May 25, 2008

Poster presentation
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Ajit B Majji
National
Invited speaker/Moderator, session

Invited speaker
Orissa State Ophthalmological Society Conference, Rourkela. October 18, 2008

Chair, session/Invited speaker
XVII Vitreo Retina Society of India meeting, Raichak. December 4-6, 2008

Chief instructor/Moderator, session
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Panelist, video sessions
Retina Congress, LVPEI, Visakhapatnam. March 28-29, 2009

Anil K Mandal
International
Faculty/Live surgical demonstration
Workshop on pediatric glaucoma, 30th anniversary of Eye Hospital of Ho Chi Minh City, Ho Chi Minh City, Vietnam. September 8-11, 2008

Invited speaker

Faculty/Poster presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Symposia moderator/Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty
Meeting of Karnataka Ophthalmological Society and Nethradhama, Bangalore. August 31, 2008

Invited speaker
13th R K Seth Memorial Symposium, Venu Eye Institute & Research Centre, New Delhi. October 2, 2008

Chair, plenary lecture/Invited faculty
XVIII annual conference of Glaucoma Society of India, Chandigarh. October 31 – November 2, 2008

Guru Prasad Manderwad
International
Poster/Paper presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Srinivas Marmamula
International
Poster presentation

2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Annie Mathai
International
Discussant, Scientific Paper Session
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
National
Invited speaker
Diabetic retinopathy symposium, Lions Clubs International Foundation & LVPEI, LVPEI, Hyderabad. October 4-5, 2008
8th annual meeting of Uveitis Society of India, Hyderabad. January 19, 2009
Panelist
Retina Congress, LVPEI, Visakhapatnam. March 28-29, 2009

Ramesh Murthy
International
Paper presentation
Invited speaker
Silver Jubilee Meeting, Chittagong Eye Infirmary and Training Complex, Chittagong, Bangladesh. October 25-26, 2008
Poster/Video presentation/Instruction
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008
Invited speaker/Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
National
Invited speaker
27th Annual CME, Sarojini Devi Eye Hospital and Regional Institute of Ophthalmology, Hyderabad. August 20, 2008
In-house faculty
Strabismus: CME and national workshop, LVPEI, Hyderabad. September 13-14, 2008
Invited speaker/Convenor, symposium
Invited speaker
National Programme for Control of Blindness, Vijayawada. September 28, 2008
Invited speaker/Convenor
Invited speaker/Paper presentation
Karnataka Ophthalmological Society conference, Shimoga. November 7-9, 2008
Moderator/Convenor
Invited speaker
Cutting Edge 2008: Oculoplasty and Oncology Update, LVPEI, Visakhapatnam. November 30, 2008
Poster/Video presentation/Instruction/Moderator
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Somasheila Murthy
International
Poster presentations
Volunteer faculty
ORBIS Flying Eye Hospital training program, Harbin, China. August 25-30, 2008
Invited speaker/Poster presentation/Faculty
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
Invited faculty/Poster presentation
6th international workshop on VKH disease and Sympathetic Ophthalmia and 2nd International workshop on Sarcoidosis, Singapore. February 27 – March 1, 2009
National
Invited speaker
CME on Uveitis, Karnataka Ophthalmological Society, Coorg. April 26-27, 2008
Faculty/Free paper presentation
Faculty
41st Indian Contact Lens Education Programme (Basic and Advanced course), LVPEI, Hyderabad. December 4-8, 2008
Organizing secretary/Faculty
8th annual meeting of Uveitis Society of India, Hyderabad. January 19, 2009
Invited speaker
60th annual meeting of Delhi Ophthalmological Society, New Delhi. March 20-22, 2009

Milind Naik
International
Invited faculty
2nd international symposium, International Speciality Eye Centre (ISEC), Kuala Lumpur. February 28 – March 1, 2009
National
Course director/Faculty
CosmoLase 2008, LVPEI, Hyderabad, India. November 2, 2008
Invited faculty
Cutting Edge 2008: Oculoplasty and Oncology Update, LVPEI, Visakhapatnam. November 30, 2008
Invited faculty/Scientific Committee member
International Master Course on Aging Skin (IMCAS) Group, Agra. December 1-2, 2008
Invited faculty
19th annual meeting of Oculoplasty Association of India, Gurgaon, New Delhi. December 5-7, 2008
Raja Narayanan

**International**

**Poster presentation**
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

**Invited speaker/Discussant**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

**National**

**Host faculty**

**Invited speaker**
Investigators Forum, Novartis, Mumbai. June 2008

Tapas Ranjan Padhi

**National**

**Invited faculty**

**Invited speaker**
Shared Clinical Experience Network (SCENE) meeting for Macugen users, Pfizer India, New Delhi. September 7, 2008

**Invited faculty**
Diabetic retinopathy symposium, LVPEI, Hyderabad. October 4-5, 2008

**Annual conference of Orissa State Ophthalmic Society, Rourkela. November 11-12, 2008**

**Paper presentation**
XVII annual conference of Vitreo Retinal Society of India, Raichek. December 4-6, 2008

**Invited speaker**

**XIII Retina Congress, LVPEI, Visakhapatnam. March 28-29, 2009**

B Padhmavathi

**National**

**In-house faculty**
20th Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 19-21, 2008

Vidy Parsam

**International**

**Poster presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

**National**

**Paper presentation**
K V Rao Scientific Society, Centre for Cellular and Molecular Biology, Hyderabad. March 28, 2009

Avinash Pathengay

**International**

**Poster presentation**
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

**Invited speaker/Poster presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

**National**

**Invited faculty**

**Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion’s Eye Hospital, Nidadavole. May 25, 2008**

Visaka Ophthalmic Association Meeting, Visakhapatnam. June 8, 2008

**Invited speaker**

**XVII Vitreo Retina Society of India meeting, Raichak. December 4-6, 2008**

**Organising secretary**
XIII Retina Congress, LVPEI, Visakhapatnam. March 28-29, 2009

Naresh Polisetti

**International**

**Paper presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Surya Prakash G Ponnam

**International**

**Poster presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Giridhar Pyda

**International**

**Poster presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Deepa Raizada

**International**

**Poster/oral presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Usha Raman

**International**

**Free paper presentation**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
Gullapalli N Rao

**National**

**Facility**
Public Health Fellowship Program, Administrative Staff College of India and Centers for Disease Control, Hyderabad.

May 26-31, 2008

**Invited panelist**
Expert Programme Committee, Postgraduate diploma course in science communication, Indira Gandhi National Open University, New Delhi. September 13-14, 2008

**Gullapalli N Rao**

**International**

**Invited speaker**

Session: The impact of VISION 2020: The Right to Sight in responding to the challenges of globalisation and public health

Topic: Delivering VISION 2020

**Keynote lecture**

Topic: Global blindness and its prevention

Session: Partnership in ophthalmology

Topic: The idea of partnership in ophthalmology

**Invited speaker**

Session: Luncheon for Ophthalmologic Society advocates

Topic: International initiatives: IAPB, WHO and VISION 2020

**Chair, Session**
Programme – VISION 2020

Session: WHO Collaborating Centres: Role in education

Keynote Introductory Lecture: WHO Collaborating Centres – The role in education

**Chair, Session**
Programme – World forum of non-profit organisations in vision and prevention of blindness

Session: Building sustainable programmes for prevention of blindness in developing countries

Topic: Sustainable eye care programmes: LVPEI model

Programme: VISION 2020

Session: Fund raising for blindness prevention

Topic: Self-financing (sustainable models)

Programme: Low vision

Session: Vision rehabilitation in Asia: A report on the state of low vision – efforts and achievements

Topic: Community ophthalmology in India

**Invited speaker**
“Extraordinary Ophthalmology”, University of Wisconsin, School of Medicine and Public Health, Madison, WI, USA.

July 11-12, 2008

Session: Global and public health ophthalmology

Topic: Can we eliminate avoidable blindness globally? VISION 2020 and others

**Presidential Address**
Opening session, 8th General Assembly, International Agency for Prevention of Blindness, Buenos Aires, Argentina.

August 23-29, 2008

President Address

Session: Course on Vision Centres

Topic: Vision Centres – Concept & Origin

**Instructor/Resource Person**
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Course: Development of a comprehensive, high quality, sustainable, rural eye care model in developing countries

Topic: Issues affecting delivery of sustainable eye care

**Other meetings attended**
• ONE network meeting
• Meeting with NGO Representatives: Human Resource Programme Committee of IAPB

**Visiting Professor**
Duke Centre for Global Health and Duke Eye Centre, Duke University, Durham, USA

Session: The State of Vision Research in Asia.

November 12-14, 2008

Topic: Role of research in developing countries – eye health problems

**Chairman’s Guest Lecture**
Topic: Eye care delivery model for developing countries

**Keynote Lecture**
Global Eye Health Symposium, Duke Centre for Global Health

Symposium: ‘Global blindness: Integrated approaches to cure’


**Invited lecture**
Topic: L V Prasad Eye Institute eye research model – US-India eye research collaboration

**Lecture to ophthalmology residents and students**
Topic: Corneal blindness: Strategies for control

**Chair, Plenary Session**
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Topic: Gazing at the crystal ball: Ophthalmology in 2020

**Chair**
Session: Sustainable models in community-based eye care delivery

Session: Keynote Session 2

**Invited lecture**
Session: VISION 2020 – strategies and action

Topic: VISION 2020 – progress and future

**National**

**Invited speaker**
2nd Dr R K Seth Memorial Lecture, 13th Dr R K Seth Memorial Symposium, Venu Eye Institute & Research Centre, New Delhi.

October 2, 2008

Topic: Challenges of blindness – Can we make VISION 2020 work?

National Consultation Meeting, National Programme for Control of Blindness, New Delhi. November 5, 2008

Topic: An alternative way of approaching blindness problem in India

Workshop on community eye health: Challenges and Opportunities, 10th anniversary of International Centre for Advancement of Rural Eye Care (ICARE), LVPEI, Hyderabad. December 17-18, 2008

Topic: 10 years of ICARE: Challenges for VISION 2020 and beyond


Topic: Corneal blindness: challenges and possible solutions
K Nageswara Rao  
**International**  
**Poster presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Suryasnata Rath  
**International**  
**Poster presentation**  
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008  
**Invited speaker/Free paper presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National  
**Invited faculty**  
Cutting Edge, LVPEI, Visakhapatnam. November 30, 2008

Varsha Rathi  
**International**  
**Invited speaker/Moderator/Poster/Paper presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National  
**Invited speaker**  
Cornea and Contact Lens meeting, LVPEI, Bhubaneswar. August 15-17, 2008

Faculty  
41st Indian Contact Lens Education Programme (Basic and Advanced course), LVPEI, Hyderabad. December 4-8, 2008

Rajeev K Reddy  
**International**  
**Poster presentations**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National  
**Poster presentation**  
8th annual meeting of Uveitis Society of India, Hyderabad. January 19, 2009

G Ashok Kumar Reddy  
**International**  
**Invited speaker**  
42nd annual meeting of Ocular Microbiology and Immunology Group, Atlanta, USA. November 7, 2008

**Poster presentation**  
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008  
**Invited speaker**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

B Murali Mohan Sagar  
**International**  
**Paper presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Srikant Kumar Sahu  
**International**  
**Paper presentation**  
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008  
**Poster presentation**  
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009
National

Poster presentation

Invited speaker
CME, Orissa State Ophthalmic Society meeting, Puri. September 14, 2008
Orissa State Ophthalmic Society meeting, Rourkela. November 11-12, 2008
CME, Orissa State Ophthalmic Society meeting, Cuttack. November 11, 2008

Virender S Sangwan

International

Invited faculty
Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008
Uveitis subspeciality day during annual meeting of American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008
BJO editorial meeting during annual meeting of American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Invited speaker
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National

Chief faculty
Eye India 08 – 4th community ophthalmology conference for cornea symposium, H V Desai Eye Hospital, Pune. April 13, 2008

Invited speaker
Jodhpur Ophthalmic Society meeting, Tarabai Desai Eye Hospital, Jodhpur. September 14, 2008

Soumya Savy

International

Poster presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

G Chandra Sekhar

International

Free paper presentation
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Invited participant/Presentation
World Glaucoma Association meeting, World Ophthalmologist Congress, Hong Kong June 27 – July 2, 2008

Chair, Scientific Session/Invited speaker

Invited speaker/Chair, sessions
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Invited speaker
100th anniversary of Cicendo Eye Hospital, Bandung, Indonesia. January 23-24, 2009

Co-chair, Scientific session/Invited speaker

National

Invited speaker
Zonal meet of Glaucoma Society of India, Bhopal Divisional Ophthalmic Society, Bhopal. April 13, 2008

Dr RHP Sinha oration
Mid-term conference, Glaucoma scientific program under the ages of Glaucoma Society of India, Bihar Ophthalmological Society, Patna. May 25, 2008

Invited speaker
Glaucoma meet, Rajan Eye Care, Chennai. August 31, 2008

Chair, Siva Reddy Oration/Invited speaker

Panel member
Sustainability in eye care meeting, Aravind Eye Hospital, Pondicherry. October 12-13, 2008

Invited speaker/Chair, sessions
XVIII Glaucoma Society of India 2008 meeting, Chandigarh. October 31 – November 2, 2008

Chair, session/Faculty/Free paper
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Endowment lecture
Guntur Medical Association meeting in memory of Dr C Sambasiva Rao, Guntur. February 15, 2009

Sirisha Senthil

International

Poster presentation
Association for Research in Vision and Ophthalmology (ARVO) 2008 meeting, Fort Lauderdale, Florida, USA. April 27 – May 1, 2008

Paper presentation/Moderator, session
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National

Invited speaker
CME Program, Update on Medical Management of Glaucoma, Central Hospital, South Central Railway, Hyderabad. July 19-20, 2008
27th CME for postgraduate students, Sarojini Devi Eye Hospital, Hyderabad. August 24, 2008

Chair, Scientific Session/Invited speaker
XVIII annual conference of Glaucoma Society of India, Chandigarh. October 31 – November 2, 2008
Faculty/Poster/Video/Free paper presentation
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Faculty
Glaucoma Update, LVPEI, Visakhapatnam. March 8, 2009

Invited speaker
Hyderabad Ophthalmic Association meeting, Hyderabad. March 13, 2009

Savitri Sharma
International
Invited faculty

Faculty/Free paper presentation
Annual meeting of the American Academy of Ophthalmology, Atlanta, USA. November 7-11, 2008

Faculty
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited faculty
Sterrad Users’ State Chapter meeting, LVPEI, Bhubaneswar. May 17, 2008
National Update on Cornea, Bhopal Divisional Ophthalmic Society, Bhopal. September 7, 2008
Workshop on ‘Diagnostic techniques in Ocular parasitology: Microsporidia and Acanthamoeba’, Department of Microbiology, Bhopal Memorial Hospital and Research Centre (for IAMM – MP Chapter), Bhopal. September 7, 2008

Paper presentation
32nd annual meeting of Indian Association of Medical Microbiologists, Armed Forces Medical College, Pune. October 21-25, 2008

Invited faculty
2nd annual meeting of Indian Academy of Tropical Parasitology, All India Institute of Medical Sciences, New Delhi. October 31, 2008
3rd annual meet, Indian Association of Ophthalmic Pathologists meet, Hyderabad. January 20, 2009
66th annual meeting, All India Ophthalmological Society, Jaipur. February 5-9, 2009

Invited speaker
CME, KMC International Centre, Kasturba Medical College, Manipal. March 1, 2009

Hardeep Pal Singh
International
Poster/Paper presentation
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Paper presentation

Rishi Swarup
International
Poster/Video presentation

National
Presentation/Quiz/OSCE organizer

Mukesh Taneja
International
Poster presentation/Discussant
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National
Invited speaker
41st Indian Contact Lens Education Programme (Basic and Advanced course), LVPEI, Hyderabad. December 4-8, 2008

PVKS Varma
National
Invited faculty
Challenging Situations in Daily Ophthalmology, Smt Rajeshwari Ramakrishnan Lion’s Eye Hospital, Nidadavole. May 25, 2008

Program faculty
Glaucoma Update, LVPEI, Visakhapatnam. March 8, 2009

Geeta K Vemuganti
International
Invited speaker/Chairperson, Award Paper session
5th World Congress On Tissue Banking, 12th International Conference of Asia Pacific Association of Surgical Tissue Banks, Minister of Health (MOH), Minister of Science, Technology and Innovation (MOSTI), Minister of Higher Education (MOHE), Kuala Lumpur, Malaysia. June 4-5, 2008

Invited speaker
Symposium on oculur stem cells, National Institute for Cellular Biotechnology, Dublin City University, Dublin, Ireland. October 15-17, 2008
1st Research Coordination Meeting, IAEA Headquarters (Vienna International Centre), Vienna, Austria. December 1-3, 2008

Invited speaker/Chair & Moderator, session
2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

Efficiency
National

Invited speaker
PSG Institute of Medical Science and Research, Peelamedu, Coimbatore. June 14, 2008


17th annual meeting of Indian Eye Research Group, Aravind Eye Hospital, Madurai. July 27-28, 2008

Ophthalmic Pathology seminar, Bhopal Divisional Ophthalmic Society, Bhopal. September 6-7, 2008

External examiner
Ph D Viva, BITS, Pilani. September 10, 2008

Invited speaker
Inauguration of BD-NCBS Centre of Excellence in Cytometry, National Centre for Biological Sciences, Bangalore. September 19, 2008

Annual meeting, A P State Ophthalmological Society, Vijayawada. September 26, 2008


Department of Science and Technology workshop, Kochi. December 14-15, 2008

4th hands-on Advanced Training in Genetic Diagnosis and Counseling, Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Hyderabad. January 23, 2009

Sree Chitra Trunal Institute for Medical Sciences and Technology, Tiruvananthapuram. January 27, 2009


TRANSRAPCoN 2009 – State Conference of Pathology and Transfusion Medicine, Govt. Medical College, Kota. February 21-22, 2009

Kovai Vilas

International

Poster presentation

2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National

Coordinator
Workshop on Training of Trainers for Seeing is Believing – Vision Centre Project (supported by Standard Chartered Bank), ICARE – LVPEI, Kismatpur, Hyderabad. July 2008

Jachin David Williams

International

Poster presentation

2nd Asia ARVO (Association for Research in Vision and Ophthalmology) meeting, LVPEI and Indian Eye Research Group, Hyderabad. January 15-18, 2009

National

Invited speaker
National seminar on Rural Healthcare, Byrraju Foundation, Hyderabad. December 12, 2008

Our Support

When a family decides to rise above personal grief to make sight possible for hundreds of children, when a philanthropist’s vision pushes the edge of knowledge in search of answers that will bring vision to others, when sensible collaboration results in a widening of the network of care for the disadvantaged, and when financial success is shared in a way that spreads good fortune… then our network of vision too grows, and we are able to do more, and help more people. While acknowledging all the generosity that we have benefited from, we present here a few of the stories of giving…

L V Prasad Eye Institute is managed by two trusts: Hyderabad Eye Institute and Hyderabad Eye Research Foundation. All donations made to Hyderabad Eye Research Foundation are 125% exempt under section 35 (i) (ii) and donations made to Hyderabad Eye Institute are 50% exempt under section 80G of the Income Tax Act.
It was in early November 2007 that Mavis and John Hyman from London contacted Dr Gullapalli N Rao (Chairman, LVPEI Group) about the possibility of a private donation. They had in mind a grant for a pediatric unit. It was just 16 months since the L V Prasad Eye Institute at Bhubaneswar had been set up. The children’s eye care centre had yet to take off – the Institute was in search of a philanthropic offer. The enquiry was a godsend.

John and Mavis Hyman, both in their 70s, had two daughters – Esther and Miriam. In July 2005, Miriam, just 32, was killed in the London bombings of 7/7. Warm-hearted, generous, and talented, Miriam had touched many hearts in her short life. Seeking to do something meaningful in her name, the Hyman family set up a restricted fund within ORBIS, UK, and with the help of friends, organized a series of fund-raising events (www.miriam-hyman.com).

As an artist Miriam was profoundly aware of the value of the sense of sight. One of her favourite pastimes was walking in the countryside, and with the aid of spectacles for distance, she was able to enjoy the environment she loved and respected. Hence the family decided to support a vision charity. The Trustees of the Miriam Hyman Memorial Trust thought that their funds could best be used directly by service providers in a developing country, and money from the Miriam Hyman Memorial Fund, together with compensation received from the Mayor of London’s London Bombings Fund, was transferred to LVPEI.

The Miriam Hyman Children’s Eye Care Centre (MHCESC) on LVPEI’s Bhubaneswar campus was inaugurated on July 3, 2008, coinciding with the campuses’ second anniversary. The Centre is a comprehensive children’s eye care unit, reaches out to all children from across the state of Orissa regardless of the ability to pay, covering a population of about 50 million. The vision is to build capacity until the Centre becomes a dedicated children’s institute. An education centre is also planned to develop human resources in eye care service provision in India and the developing world.

At the inauguration ceremony in Bhubaneswar, Esther said, “It’s difficult to express our feelings when it was suggested that the children’s Eye care Centre would be named after Miriam. Miriam was a positive person and we had to honour the way she lived. In her lifetime she sowed seeds of caring and generosity, and it is our duty to help those seeds flourish. With this partnership between LVPEI, the Miriam Hyman Memorial Trust and the newly-created Miriam Hyman Children’s Eye Care Centre we feel that we are fulfilling that destiny.”

“Miriam would support the fact that treatment is available to patients irrespective of the ability to pay, so that any child who presents with any eye care issue will be treated. This also reflects how Miriam was; she had a way of making every person feel valued, wanted and loved, and we hope that this will continue through the work of the Miriam Hyman Children’s Eye Care Centre. We would like to pledge the ongoing support of the Miriam Hyman Memorial Trust to the Centre.”

Dr Rao’s vision is that every child in Orissa who needs any form of eye care should have access to the highest quality of eye care through the Miriam Hyman Children’s Eye Care Centre. “The donation coming from a middle-class retired couple is an inspiring tale of generosity. We are fortunate to be recipients of such help as we evolve more to undertake greater responsibilities for the elimination of needless visual impairment,” he declared.
Champalimaud Foundation

On January 30, 2008, the Champalimaud Translational Centre of Eye Research (C-TRACER) was inaugurated at L V Prasad Eye Institute, Hyderabad. A world class translational research facility for the analysis, management and treatment of selected eye disorders, C-TRACER symbolizes the partnership between Champalimaud Foundation and LVPEI. LVPEI has been conducting vision related translational research and has utilised stem cells for the treatment of eye diseases. The agreement with Champalimaud Foundation formalized a link between the scientific communities of Portugal, Africa and Asia, allowing for the creation of programs specific to the Lusophone countries of Africa, allowing Portuguese scientists to participate in research activities at LVPEI, Hyderabad.

The Champalimaud Foundation, based in Lisbon, Portugal, was created on the bequest of the late Portuguese industrialist and entrepreneur, António de Sommer Champalimaud. The Foundation has a long-term commitment to support medical research, particularly in the fields of neuroscience, cancer and vision sciences.

The inaugural ceremony in January 2008 was attended by a host of dignitaries from Portugal, including Dr Leonor Beleza, President of the Champalimaud Foundation and the Ambassador of Portugal to India Mr Luís Filipe de Castro Mendes. A translational research symposium marked the event, with Prof N K Ganguly, UNESCO Centre for Translational Research and Training, New Delhi, delivering the First Champalimaud Lecture on ‘Translational Research: Scenario and Opportunities in India’. Other distinguished speakers included Prof Robert Folberg of the University of Illinois Chicago campus, Chicago, USA; Prof Jost Jonas from the University of Heidelberg, Germany; Dr Miguel Castelo-Branco from Coimbra, Portugal; and Prof Brien Holden, CEO, Institute of Eye Research, Australia.

The success of the symposium led to a decision to hold Annual Champalimaud Symposia on January 30th every year. The Second Champalimaud Symposium was held on January 30, 2009. Dr Jeremy Nathans, Professor of Molecular Biology and Genetics at the Johns Hopkins University School of Medicine, Baltimore, USA, delivered the keynote lecture on ‘Evolution of primate color vision’ as an online video presentation. (More in Seminars & Workshops pages 56)

The Champalimaud Foundation and L V Prasad Eye Institute share a common vision: a world free of preventable or treatable blindness. In common with LVPEI, the Champalimaud Foundation also believes that the bench-to-bedside approach of translational research is one of the most effective ways to find novel solutions to vision disorders. To this end, the Foundation and LVPEI have joined together to create a partnership that will ultimately benefit the lives of people throughout the world.
Mr L B Deshpande retired from Osmania University in 1972 as its Registrar, continuing to work as Registrar of the Central Institute of English and Foreign Languages, Hyderabad. Later, he volunteered his services to Hyderabad Public School and as the Honorary Secretary of the Andhra Mahila Sabha’s colleges for women. During his 40 years as an administrator in higher education, he earned a reputation of a hard working executive who strived to cut the red tape. He always conveyed a tremendous sense of optimism and energy and had a great sense of humour. His wife Mrs. Meera Deshpande meanwhile built a network of social and family relationships with her signature kindness and smiling face.

LVPEI Hyderabad’s Meera and L B Deshpande centre for Sight Enhancement was set up with the support of their surviving children Vinay, Rewati, Sanjay, and the late Suneeti, in memory of their parents. Mr Vinay Deshpande founded five IT companies and is currently chairman and CEO of Encore Software Ltd, in Bangalore (India) and retains a substantial financial interest in two others, while his wife Chhanda (Meghna) is the Executive Director of Encore. Mrs Rewati works for a bank in London (UK) while her husband Dr Madan Maha retired after over 20 years as an eye specialist in the UK National Health Service. Mr Sanjay Deshpande is Vice President of Aerospace and Defense at EnerSys in Wyomissing, Pennsylvania (USA), while his wife Smita teaches psychology in a local college.

Here, in their words, is the story of how the Centre came about…

We chose to support LVPEI because our father, the late Shri L B Deshpande, had a soft corner for it. He had been treated there, and had an extremely high regard and admiration for Dr G N Rao and his commitment and dedication to bringing state-of-the-art eye care to India. Of course, all of us had also seen this and therefore felt, when our father passed away in 1993, that one of the best ways of honouring our parents’ memory would be to support LVPEI. Rewa’s husband, UK-based ophthalmologist Dr Madan Maha naturally helped reinforce our decision.

Our parents imbibed in us the value of hard work, honesty and helpfulness, by example. Whenever relatives, friends or the staff (household as well as those at the University) approached them for help, they rarely said “no”. Looking back, we see how their helping hand was instrumental in
changing the direction of so many lives for the better. The selfless manner in which they reached out to others was inspirational. We saw in LVPEI the opportunity to continue the natural goal of their existence — making a difference in someone’s life by thinking beyond yourself. Constantly striving for excellence, this institution embodied our parents’ core belief — ultimately it is not all about “one’s own excellence” but how that excellence can make a difference to people’s lives. We donated our parents’ home to LVPEI, because it practiced the values they practiced and was based in their home city, Hyderabad.

We wanted LVPEI to create a state-of-the-art centre for any discipline in eye care that needed greater attention and would provide eye care regardless of the economic level of the patient(s), thus helping to perpetuate the memory of our parents. We believe the Meera and L B Deshpande Centre for Sight Enhancement at LVPEI has met all the three objectives.

Vinay at the children’s rehabilitation centre at LVPEI on a recent visit

Vinay and Chhanda

“We have great respect for Dr G N Rao, and tremendous admiration for what he has achieved. LVPEI is a household name in Hyderabad, and probably all over Andhra Pradesh. His commitment to raising the standard of eye care in India to international levels, and bringing state-of-the-art techniques in eye care to the common man, is remarkable. We wish that LVPEI will embark on new technologies in eye care, and lead the world in frontier areas. We hope we will continue to be involved in more partnerships that are both meaningful and make an impact.”

Rewati and Madan

“We visited the Centre for Sight Enhancement several times; these visits are a pilgrimage for us and our way of paying respect to the memory of our parents. In 2004, both of us with our daughter, Ankita participated in the opening of a tertiary eye care centre in Nizamabad (where our mother grew up), and then visited the secondary eye care centre in Basar, Maharashtra. We were, and continue to be, very impressed with the LVPEI pyramid model for delivering eye care service to the rural population. In fact, Ankita included LVPEI in her undergraduate thesis at Wharton School, which focused on the cost-benefit analysis of rural medical care delivery. For several years we contributed to the provision of free eye care services at LVPEI on four days a year (the anniversaries of our parents’ birth and passing). LVPEI and the Centre for Sight Enhancement continue to embody and practice our parents’ values (hard work, honesty, helpfulness, and striving for excellence), and are thus honouring their memory in an extraordinary way.

The outstanding manner in which the Institute was designed, operated and maintained is exemplary. It has earned a remarkable reputation for its research and richness and breadth of its clinical and surgical experience and expertise. As the Institute marches forward conquering many more frontiers of knowledge and technology, we are confident it will always remain focused on the true goal of every medical endeavour — to alleviate human suffering.”

Sanjay and Smita

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Eyesight International

Partnering for sight for all

Eyesight International (Canada) is dedicated to eliminating blindness and bringing self-sustaining eye care to rural communities in the developing world. Founded in 1994 by cornea specialist Dr Paul Dubord, Eyesight International (ESI) works with partners in Canada and internationally, introducing initiatives and building resources and skills through locally sustainable programs, for effective long-term solutions to blindness and visual impairment.

How did the partnership between ESI and LVPEI begin? Looking back Dr Paul Dubord, Clinical Professor, Department of Ophthalmology and Visual Sciences, University of British Columbia, says, “The adventure began in 1989, in Karachi, Pakistan, when Dr Nag Rao from the L V Prasad Eye Institute asked me if I would work with him to establish an eye banking and corneal transplantation program in India. From the humble beginnings of this partnership, with 25 transplants performed at LVPEI in the early 1990s, a great program has emerged.”

The Ramayamma International Eye Bank (RIEB) was set up at LVPEI in 1989 and is currently the largest world-class eye bank in the developing world. Right from its inception, it has received technical support and guidance in policy making, development of standards and training programs from ESI. In 2001, RIEB formally evolved as the International Training and Resource Centre for Eye Banking and Corneal Transplantation in collaboration with ESI.

To address the shortage of eye banking personnel at all levels, ESI supports training programs at institutions in the developing world with a proven ability to provide high quality training. Not only is this more cost effective than training in the West, the trainees are more likely to remain in the community. With ESI’s support RIEB continues to offer structured training programs for eye banking technicians, eye donation counselors, and eye bank managers. Several trainees come from the developing world; they return home to set up eye banking systems that benefit the local populace.

ESI has also facilitated ongoing skill upgradation and training programs for RIEB faculty and personnel at LVPEI, Hyderabad, and ESI, Canada. It continues to support the cornea fellowship program at LVPEI through various training modules on clinical and surgical practices.

In 1992, the Hospital-based Corneal Retrieval Program (HCRP) was launched at LVPEI, Hyderabad – the first in the developing world, where trained grief counselors placed in hospitals counsel families on eye donation. This program, with guidance from ESI, yields a significant number of corneas, eliminating the waiting list of patients awaiting a corneal transplant at LVPEI. ESI has also facilitated quality improvement of procedures and techniques, including the McCarey Kaufman medium used for storage and preservation of corneas.

ESI (Canada) and SightLife (USA) supported the setting up of eye banks at LVPEI’s two new tertiary centres – drushti daan Eye Bank in Bhubaneswar and Mohsin Eye Bank in Visakhapatnam.

In 2001, ESI and LVPEI created a self-insurance pilot project never before attempted in the developing world. The objective of this Community Assisted and Financed Eye care project (CAFE) was to build an affordable self-sustaining comprehensive eye care system funded by the communities it serves.

“This partnership is flourishing beyond our expectations and currently we look forward to eliminating corneal blindness in the developing world,” says Dr Dubord.
Your support makes it possible for all to see...

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**Efficiency**
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Mrs Pushpa S Raju, India
Mrs Vanki Sri Rakesh, India
Mr M Raman, India
Dr Usha Raman, India
Mr D B Ramchandargi, India
Mrs Kothari Rangachari, India
Mrs & Late Mr Rustom D Ranji, India
Mr Ayyanna Rao, India
Mr Kuchi Bhaskara Rao, India
Mr T Vasu Deva Rao, India
Mr B R Gopal Rao, India
Mr B K Rao, India
Mr K Chenna Kesava Rao, India
Mr S Malleswara Rao, India
Mr Mallikarjuna Rao, India
Mr Mohan Rao, India
Mr Muralidhar Rao, India
Mr C Shankar Rao, India
Mrs D Saraswathi & Mr D M Rao, India
Mr G V Ramana Rao, India
Mr B Chandra Sekhar Rao, India
Mrs Sharmila & Mr M Srinivasa Rao, India
Mr Gannabattula Subba Rao, India
Mr Y Sundar Rao, India
Ms Swarna Rao, India
Mrs Vaishali Rao, India
Mr N Ramnath, India
Dr S Ravinder, India
Dr C Achuth Reddy, India
Mrs & Mr Damodar Reddy, India
Mr G Dharwa Reddy, India
Dr N Krishna Reddy, India
Mrs G Madhavi Reddy, India
Mr S Satyanarayana Reddy, India
Mr C Shashidhar Reddy, India
Dr C Vijay Mohan Reddy, India
Mr Babulal Roongta, India
Mrs Shivani & Mr S K Roy, India
Mr Sukumar Roy, India
Mr Piratai Saibaba, India
Mr Shakти Sagara, India
Mr Acma Raj Ben D Sanghavi, India
Mr Mahesh P Sanghavi, India
Dr Virendra S Sanghavi, India
Mr B R Sethna, India
Mrs V Saraswathi, India
Mr K R Sarma, India
Mr V V Chalapaty Sarma, India
Mr Mayvi Bhai Savla, India
Mr Capt Surya Prasad Seethapathi, India
Mr Subrata Sen, India
Mr Ramaswamy Sheshadri, India
Mr B R Sethna, India
Mr S Satyanarayana Setty, India
Mrs & Dr D R C Shah, USA
Mr Jainesh H Shah, India
Mrs Rukhmmani Gardi &
Mr Vandana J Shah, India
Dr M Shalini, India
Mrs Usha & Dr Shamanna, India
Dr Padma Shanka Reddy, Australia
B Sharma, India
Dr Savithri Sharma, India
Mrs Lakshmi Shinde, India
Dr Ashok C Shroff, India
Mr Rajiv Shroff, India
Mrs Meenakshi Singh, India
Ms Ritu Singh, India
Dr Sunil Kumar Singh, India
Mr Vinod Singh, India
Mr Kishan Singh, India
Mrs & Mr Radhey Shyam Singhal, India
Dr J Snehalatha, India
Mr Jai Kishan Somani, India
Mrs Kuchakulilla Sowbhagya, India
Dr P Sridhar, India
Mr Varanasi Srikantha, India
Mr B Srinivas, India
Dr P Srinivasula, India
Dr P Srimulu, India
Mr Sadanan Shyam, India
Dr C Subbarayudu, India
Mr T G Subramaniam, India
Dr Nirmala Subramaniam, India
Mrs Sugandham, India
Mr M Sukumar, India
Dr Sham Sunder, India
Mr Subhash Surana, India
Mr Y Suryanarayana, India
Ms T Swarna, India
Late Mr Deepak Taneja, India
Drs Kamla & L N Taneja, India
Dr Mukesh Taneja, India
Dr S Telgaonkar, USA
Mrs Savitaben D Thakker, India
Drs Jainala & Kishen Thanik, USA
Mrs & Dr Nalini Toila, India
Mrs Vana & Mr Nalini J Unakar, USA
Dr Musta M Vagh, India
Ms A Vanathi, India
Mr Brian Valentine, India
Mr Raghavan Varadarajan, India
Mr P V K K Varma, India
Mr Rao S Varanoni, South Africa
Ms P Achchayamma Veerawamy, India
Mr Nandlal I Verma, India
Dr Prateep Vyas, India
Dr Saradani Vyas, India
Dr Sangeta Vagh, India
American Cancer Society, USA
Apuroopa Builders, India
Ariziz Kohbala Memorial Trust, India
Arudra Engineers Pvt Ltd, India
Banjara Hills Ladies Group, India
C S Construction Company, India
Century Fiber Plates Pvt Ltd, India
Choice Marketing Company, India
Cooke & Kelwy (Delhi) Pvt. Ltd, India
Denis Chem Lab Limited, India
Dr N Venkatasastry Cheppa Charitable
Trust, India
E John Kuruvilla Memorial Charitable
Trust, India
Enkay Texfab Pvt Ltd, India
Eon Designers, India
Essky Shipping Pvt. Ltd, India
G P Associates, India
Harvin Scientific Optics Pvt Ltd, India
Hirlekar Precision Engg Pvt Ltd, India
Indo American Optics Ltd, India
Jain Housing, India
K B J Enterprises, India
K S Rao Exports Pvt. Ltd, India
K V R Projects Pvt Ltd, India
Karodimal Bansal & Sons, India
Kedia Agrotech Pvt Ltd, India
Khan Bahadur Babubhak Foundation, India
Khilani Constructions Pvt Ltd, India
Khurana Engineering Pvt Ltd, India
Kumar Raja Projects Pvt Ltd, India
Lawrence & Mayo (Opticals), India
M M Consultants, India
Margaradari Chit Fund Ltd, India
Meda Charitable Foundation, India
Metrobico Caeiro, India
Microsoft India Pvt Ltd, India
Modi Nagar Enterprises, India
Naveen Paper Stores, India
Pack & Prik Pvt Ltd, India
Parekh Distributors, India
Pinnamaneni Poly clinic, India
Quick Builders, Engineers &
Contractors, India
Raja Bahadur Motilal Bansi Charitable
Trust Fund, India
Raveela Doors & Decor, India
Ravi Associates, India
S K A A Vilas, India
S K R Kumath & Co, India
S V C Projects Pvt Ltd, India
Seth Chiranjilal Khaitan Trust, India
Seth Construction, India
Shalimar Chemical Charitable Trust, India
Shanti Devi Mansighka Trust, India
Shree Annai Coirs, India
Shree Automobiles Pvt Ltd, India
Shriram Chits Pvt Ltd, India
Sita Cement Limited, India
Siva Traders, India
Smt Zaverbai Kantilal Thakkar
Trust, India
Sree Venkateswara Coir Works, India
Sree Krishna Constructions, India
Sree Venkatateswar Coir Works, India
Sridharan Narayana Rao
Charitable Trust, India
State Bank of Hyderabad, India
Strategic Insurance Services Pvt Ltd, India
Tamer Consulting Associates, India
Vikash Solunext Ltd, India
Vishal Rubber Industries, India

| Efficiency |
Support during the year

Mumbai
- Mr Bala Deshpande
- Mr Sachi Kale
- Ms Elizabeth Kurien
- Ms Seetha Lakshmi
- Mr Hastimal U Mehta
- Mr A V M A Parekh
- Mr Ami Parekh
- Mr Behram R Sethna
- Mr Saroj Rajnikant Vora
- Arjun Gokhale Charitable Trust
- Enkoy Textlab Pvt Ltd

Vijayawada
- Mr K Lakshminarayana
- Ms S Radhika
- Mr C Nageswara Rao
- Mr Puvvada Thikkana Somayaji

Bangalore
- Allergan India Pvt Ltd
- BIOCON Foundation
- Fowler Westrup (India) Pvt Limited

Visakhapatnam
- Mr G Sarath Babu
- Mr M Chakravardthy
- Ms P Msurya Chandra
- Mr Guntur Chiranjeevi
- Mr S V Choudhary
- Ms P Deepshikha
- Ms P Rohini Devi
- Ms Glenda Hallemlane
- Ms Priya Haragopal
- Mr Samant Kakarla
- Mr V Keyura
- Ms B Meghana
- Mr O S R Murthy
- Mr O Naresh
- Mr Venkat R Nekkanti
- Mr Aditi Pathengay
- Mr Pokala Raghu
- Mr Aditya Raju
- Dr R Kishore Raju
- Mr G Venkateswara Rao
- Ms Venkata Rattanma
- Mr Raghu Rayala
- Mr V L P Reddy
- Ms B Samitha
- Mr Roop Saran
- Ms R Shrushti
- Mr V Srikrishna
- Ms R Suma
- Mr Rana Uppalapati
- Mr N Kalyan Varma
- Mr B Vinod
- Bh S R Highway Service Station
- Esskay Shipping Pvt Ltd
- Fullerton India Credit Co Ltd
- Highway Petroleum Centre
- Kardhikeya Enterprises
- Simhadri Agencies
- Srinivasa Agencies
- S V C Projects Pvt Ltd
- Symbiosys
- Talwalkers
- Vaibhav Empire Pvt Ltd

Chennai
- Dr N Venkataswamy Chetty Charitable Trust
- RMP Infotech Private Limited

International

Australia
- Ms Kavita Nampalli

Canada
- Mr Zaheed Habib Manji

Kenya
- Mr Girma Makonnen

Malaysia
- Mr Mohan Prabhakar

Netherlands
- Mr Jan Ros

Portugal
- Mr M S Prabhudas Bhimjee

UAE
- Dr Kamini & Prashant Bhatia

United Kingdom
- Ms Jayshri and Mr Ankur Shah

United States of America
- Ms Niharika and Mr T Anand
- Dr Adilakshmi
- Mr Vamsi Krishna Cherukuri
- Ms Sowjanya Kilaru
- Ms Mahita Kollu
- Mr Jayant Ramakrishnan
- Latter-day Saint Charities
Our International & National Linkages

International

• Alcon, USA • Allergan, USA • Bartineus, The Netherlands • Bausch & Lomb, USA • Bristol Eye Bank, Bristol Eye Hospital, Bristol, UK • Cambridge University, UK • Carl Zeiss, Germany • Centre for Eye Research Australia, Melbourne, Australia • Centre for Eye Research & Technology, Australia • Centre of Excellence in Molecular Biology, Lahore, Pakistan • Champalimaud Foundation, Portugal • Children’s Hospital of Philadelphia, University of Pennsylvania, USA • Children’s Hospital of Florida, USA • Christoffel Blindenmission, Germany • Cornea & Contact Lens Research Unit, Australia • Combat Blindness Foundation, USA • Duke University, Durham, USA • Eye Sight International, Vancouver, Canada • Fred Hollows Foundation, Australia • Fund Incorporated, Duke University, Durham, North Carolina, USA • Florida, USA • Christoffel Blindenmission, Germany • Cornea & Contact Lens Research Unit, Australia • Centre for Eye Research Australia, Melbourne, Australia • Huntington Eye Foundation, USA • Johns Hopkins university, Baltimore, USA • Johns Hopkins University, Baltimore, USA • Jules Stein Eye Institute, University of California, Los Angeles, USA • Lighthouse International, New York, USA • Lions International, USA • London School of Tropical Hygiene & Medicine, UK • Massachusetts Eye and Ear Infirmary, Boston, USA • Moorfields Eye Hospital, London, UK • National Institutes of Health, Bethesda, MD, USA • National Institute of Sensory Organs, Tokyo, Japan • Northwest Lions Eye Bank, Seattle, USA • Northwestern University, Evanston, IL, USA • Ohio State University, Columbus, USA • Operation Eye Sight Universal, Canada • ORBIS International, New York, USA • Pharmacia & Lipjohn, Sweden • Queensland University of Technology, Brisbane, Australia • Rotary International, USA • SUNY School of Optometry, New York, USA • Santen Inc., USA • Service de Biologie Clinique Institut Salah Azaiz, Tunisie • Sight Savers International, UK • State University of Rochester, USA • Tel Aviv University, Israel • The Hadley School for the Blind, Illinois, USA • The Tun Hussein On National Eye Hospital and the Malaysian Association for the Blind, Kuala Lumpur, Malaysia • Tubero, Sendai University, Japan • Tufts University of Medicine, Boston, MA, USA • The Cooperative Research Center for Eye Research & Technology, Australia • University of Aberdeen, Scotland, UK • University of Florida, Gainesville, FL, USA • University of Heidelberg, Germany • University of London, UK • University of Melbourne, Melbourne, Australia • University of Nottingham, Nottingham, UK • University of New South Wales, Australia • University of Ottawa, Canada • University of Rochester, School of Medicine and Dentistry, Rochester, USA • University of South Carolina, USA • University of Tennessee, Memphis, Tennessee, USA • University of Rochester Eye Institute, University of Rochester, New York, USA • University of Waterloo, Canada • Vanderbilt University, USA • Vision CRC, Australia • Wills Eye Hospital, USA • World Health Organization, Switzerland • William Beaumont Hospital, Michigan, USA • Yayasan Penyatuan Wiyata Guna, Indonesia.Council for Medical Research, New Delhi • Indian Institute.

National

Action on Disability and Development India, Bangalore • Ali Yavar Jung National Institute for the Hearing Handicapped, Secunderabad • Anthropological Survey of India, Hyderabad • Aravind Eye Hospital System, Madurai • Benares Hindu University, Varanasi • Bhabha Atomic Research Centre, Mumbai • Bio-Medix Optootech & Devices Pvt. Ltd., Bangalore • Birla Institute of Technology and Science, Pilani Blind Peoples Association, Ahmedabad • Calcutta University, Kolkata • CBR Forum, Bangalore • Centre for Cellular and Molecular Biology, Hyderabad • Centre for DNA Fingerprinting and Diagnostics, Hyderabad • Centre for Human Genetics, Bangalore • Consolidated Products Corporation Pvt. Ltd., New Delhi • Council for Advancement of People’s Action, New Delhi • Council of Scientific & Industrial Research, Government of India, New Delhi • Department of Biotechnology, Government of India, New Delhi • Department of Science & Technology, Government of India, New Delhi • Eye Bank Association of India, Hyderabad • Guru Nanak Dev University, Amritsar • Holy Cross College, Tiruchirappalli • Indian Council for Medical Research, New Delhi • Indian Institute of Chemical Biology, Kolkata • Indian Statistical Institute, Kolkata • International Human Resource Development Centre, Coimbatore • Indian Institute of Information Technology, Hyderabad • Indian Institute of Science, Bangalore • Indian Institute of Technology, Chennai • Indian Orthocone Surgicals, Chennai • Jammu University, Jammu • Milmet Laboratories Pvt. Ltd., Ahmedabad • Micro Vision, Ahmedabad • National Association for the Blind, Mumbai • National Brain Research Centre, Gurgaon • National Institute for Mentally Handicapped, Secunderabad • National Institute for the Visually Handicapped, Dehradun • National Institute of Mental Health, Hyderabad • National Institute of Mental Health and Neuro Sciences, Bangalore • National Institute of Nutrition, Hyderabad • Sankara Nethralaya, Chennai • Sir Ratan Tata Trust, Mumbai • Thakur Hari Prasad Institute for Research and Rehabilitation of Mentally Handicapped, Hyderabad • The Helen Keller Institute for Deaf and Deafblind, Mumbai • University of Hyderabad, Hyderabad • VIMTA Laboratories, Hyderabad • Vision Research Foundation, Chennai.