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Hyderabad, (Ex-officio member)

Dr G Chandra Sekhar
Director, L V Prasad Eye Institute
Hyderabad, (Ex-officio member)
Eradicating blindness & visual impairment and referrals

**Primary Eye Care**
- Vision Centres: 32
- No. of people served: 57,439

**Secondary Eye Care**
- Service Centres: 15
- Patients seen: 2,62,868
- Surgeries performed: 24,052

Completing the circle – LVPEI Tertiary eye care

**Bhubaneswar and Visakhapatnam** – (Newly inaugurated)
- Patients seen (8 months): 30,799
- Surgeries performed (4 months): 1,967

**Advanced Tertiary Care – Hyderabad**
- Patients seen: 1,84,676
- Surgeries performed: 22,856

Providing a better quality of life

**Vision Rehabilitation Centres**
- Sight Enhancement beneficiaries (Low vision): 2,131
- Vision Rehabilitation beneficiaries: 4,580

Enhancing skills for quality eye care

**Education**
- Ophthalmologists: 191
- Other eye care professionals: 304
- Participants in CME programs: 432

Pushing the frontiers in eye care

**Research**
- Presentations
  - International: 97
  - National: 227
- Publications: 98
- Honors and Awards: 27

Facilitating the Gift of Sight

**Eye Bank**
- Corneal tissues harvested: 3,007
- Corneal transplants at LVPEI: 881
- Corneas distributed outside LVPEI: 523

*Ramayamma International Eye Bank, LVPEI, Hyderabad

Reaching the underserved

**Community Eye Health**
- Population covered: 51,316
- Schools screened: 77

The LVPEI network of tertiary, secondary and primary eye care spans the state of Andhra Pradesh with 15 secondary care service centres and 32 primary care Vision Centres. The network continues to grow with the proposed addition of a Service Centre at Nellore and Vision Centres in other underserved areas of the state. Collaborations and partnerships in other parts of the country are also being actively pursued in cities like New Delhi, Kolkata, Mumbai, Jorhat, Bilaspur, Haldwani, Sri Ganganagar, Raipur, Indore and Rajahmundry.
Our Mission

The mission of L V Prasad Eye Institute is to be a centre of excellence in eye care services, basic and clinical research into eye diseases and vision-threatening conditions, training, product development, and rehabilitation for those with incurable visual disability, with a focus on extending equitable and efficient eye care services to underserved populations in the developing world.

International Eye Centres

Our international network extends to many countries including Kenya, Ghana, Zambia, S. Africa, Ethiopia, Rawanda, Nigeria and Paraguay, adding to our involvement in countries like Bangladesh, Sri Lanka, Indonesia, Malaysia, China, Vietnam, Fiji and East Timor. In addition, our education and research collaborations extend to many countries in the United States, Europe, Asia and Australia.

Our Vision

To create excellent and equitable eye care systems that reach all those in need
L V Prasad Eye Institute
Committed to excellence and equity in eye care

Annual Activity Report
April 2006 - March 2007

L V Prasad Eye Institute is a not-for-profit charitable organization
governed by two trusts, Hyderabad Eye Institute & Hyderabad Eye Research Foundation.
L V Prasad Eye Institute, Hyderabad
Director & Dr Kallam Anji Reddy Distinguished Chair of Ophthalmology
G Chandrasekhar

Cornea & Anterior Segment
Virender S Sangwan
Prashant Garg
Pravin V Krishna
Somaseilia Murthy
B S Ramamurthy
Gullapalli N Rao
Rishi Swarup
Varsha Rathi

Bausch & Lomb Contact Lens Centre
Pravin V Krishna
Varsha Rathi
P Ruby Kaia
Preeji Shyamsunder
M Vinod Kumar

Laser Refractive Surgery Centre
Prashant Garg
Pravin V Krishna
Somaseilia Murthy
B S Ramamurthy
Varsha Rathi

VST Centre for Glaucoma Care
G Chandra Sekhar
Anil K Mandal
Rajul Parikh

Smt Kanuri Santhamma
Retina Vitreous Centre
Ajit B Majji
Anjali Hussain
Nazimul Hussain
Subhadra Jalali
Annie Mathai
Raja Narayan
Rajeev K Reddy
L S Mohan Ram
Sumarsi Mohan Ram

Uveitis & Ocular Immunology
Virender S Sangwan
Somaseilia Murthy

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

Strabismus
Kekunnaya Ramesh
Ramesh Murthy

Neuro-ophthalmology
Kekunnaya Ramesh
Ramesh Murthy

Jasti V Ramanamma Children's Eye Care Centre
Anil K Mandal
Santosh G Honavar
Subhadra Jalali
Kekunnaya Ramesh
Ramesh Murthy
B S Ramamurthy
Sushma Tejwani

Comprehensive Ophthalmology
Rohit Khanna
Rahul Kumar Ali
Sushma Tejwani

VISION REHABILITATION CENTRES
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Vijaya K Gothwal
Beula Christy
Manjula Marella
B Padmavathi
Hema Mohan

RAMAYAMMA INTERNATIONAL EYE BANK
Usha Gopinathan
Prashant Garg

Internal Medicine
Archana Bhargav
Fazal Hussain

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
M Srinivas

Prof BRIEN HOLDEN EYE RESEARCH CENTRE Director and Distinguished Chair of Eye Research
D Balasubramanian

Jhaveri Microbiology Centre
Usha Gopinathan

Saroja A Rao Immunology Laboratory
Usha Gopinathan

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

Ophthalmic Pathology
Geeta K Vemuganti
Somaseilia Murthy

Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory
Geeta K Vemuganti
Virender S Sangwan
Yashoda Ghanekar

INTERNATIONAL CENTRE FOR ADVANCEMENT OF RURAL EYE CARE (ICARE)
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S Bhattacharya
Sheela Devi
Rohit Khanna
S Krishnaiah
Girdhar Pyda
V Rajashekar
N Rishita
B R Shamanna
Kovai Vilas
Jachin David Williams

Distinguished Chair of Eye Health
Gullapalli N Rao

Administration
Sam Balasundaram
Ghanshyam Singh Mirdha

L V Prasad Eye Institute Bhubaneswar
Director
Taraprasad Das

Cornea & Anterior Segment
Sujata Das
Srikant Sahu

Glaucoma
Sanghamitra Dash

Ophthalmic Plastic Surgery, Orbit and Ocular Oncology
Suryasnata Rath

Retina Vitreous
Soumyavaya Basu
Taraprasad Das

Laboratory Services
Savitri Sharma

Administration
Bikash Mahapatra

L V Prasad Eye Institute Visakhapatnam
Director
P V K S Varma

Cornea & Anterior Segment
Merle Fernandes
Meena Lakshmipathy

Glaucoma
P V K S Varma

Retina Vitreous
Avinash Pathengay

Administration
Joji Prasad

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L V Prasad Eye Institute
Annual Activity Report - April 2006 to March 2007

CONTENTS

Foreword 6

A Year of Achievements 8

Alumni News 13

Patient Care 15
  LVPEI, Bhubaneswar
  LVPEI, Visakhapatnam
  LVPEI, Hyderabad

Vision Rehabilitation Centres 21

Community Eye Health and Outreach 23

Patient Speak 39

Education Centre 45

Eye Research 65

Product Development 88

Our Support 89

Our International & National Linkages 99

Our Board of Trustees 101
The year 2006-2007 is significant to us in more ways than one. We have completed our ‘teens’ and moved into the 21st year of dedicated service with the mission of achieving excellence with equity. We have expanded our services to northern Andhra Pradesh and Orissa with the inauguration of the Bhubaneswar and Visakhapatnam L V Prasad Eye Institutes. On the other hand, our pyramidal eye care model has seen the addition of more Vision Centres and Service Centres.

The expansion of L V Prasad’s umbrella of eye care has necessitated a reorganization of our structure. A group of Directors (8 in number) formed the core management team, assisted by a larger group of administrators. Together we have been able to make substantial progress on a wide array of fronts.

In our continuing pursuit of excellence, many clinical facilities have been upgraded with additions and renovations of space, acquisition of state-of-the-art equipment and through adaptation of diagnostic and treatment modalities, which are evidence based.

The Education Centre continues to cater to the needs of our own extended activities as well as those of our National and Global partners. During this year, we had 31 international trainees in ophthalmology alone from 10 different countries.

On the research front, work in our stem cell, molecular genetics, and molecular biology laboratories as well as clinical research continues at a high pace. The number of publications in highly respected journals, grants and laurels awarded to many of us bears testimony to this.

In community eye health, 12 new Vision Centres for primary eye care and one new Secondary Satellite Centre have been added. Our Vision Centre network makes us proud through it’s high quality primary eye care services in underserved remote rural areas. Research exploring new avenues as well to understand the impact of past interventions is continuing.

The mission of L V Prasad Eye Institute is to provide excellent eye care with equity. We believe that the second component of our mission, equity, is
measurable and we have done well all these years. Excellence, on the other hand, is a continuous path and we constantly strive to tread firmly along it as we improve ourselves. Excellence in patient care is not merely excellence in clinical outcomes, but total patient satisfaction. This necessarily means that all employees involved in patient care understand the importance of the role played by them, and have a sense of ownership and pride. As an organization grows in size and scale, these core values can become somewhat blurred. With the support of our newly restructured leadership, we are working towards improving total quality in our patient care services.

Overall, we are at an exciting point in the growth of L V Prasad Eye Institute. We seek your continuing guidance and support to help our patients achieve better vision.
A year of achievements

This was a very eventful year with two tertiary care institutes of L V Prasad Eye Institute being inaugurated in July 2006. LVPEI’s vision has always included reaching out to underserved areas and filling in the existing gaps. The development of tertiary care and training institutes in Bhubaneswar (capital of the State of Orissa) and Visakhapatnam (the second biggest city of Andhra Pradesh) is to fill the void in high quality tertiary care along the eastern sea board of India, north of Chennai. In addition, Bhubaneswar will be the resource centre for developing high quality eye care services in Orissa, a State with great needs. Both these institutes will eventually evolve into Centres of Excellence (as per our definition).

L V Prasad Eye Institute, Bhubaneswar

The President of India His Excellency Dr A P J Abdul Kalam inaugurated the Bhubaneswar L V Prasad Eye Institute on July 3, 2006. Also present at the inauguration were Chief Minister of Orissa Mr Naveen Patnaik, Governor of Orissa Mr Rameshwar Thakur, Union Power Minister Mr Sushil Kumar Shinde, State Health Minister Mr Duryodhan Majhi, Ms Pat Ferguson, CEO of Operation Eyesight Universal (OEU), Canada, as well as major donors and friends of LVPEI from Hyderabad and elsewhere.

Dr Gullapalli N Rao, Chairman of LVPEI Board, welcomed the guests and introduced the operational philosophy of LVPEI and its network of institutes. Ms Pat Ferguson explained OEU’s focus on implementing sustainable eye care systems in the developing world. Operation Eyesight Universal is the primary donor for the Bhubaneswar Institute.

The staff were excited to exchange a few words with the President, who took pains to interact with people at various levels. Another highlight of the evening was the release by the President of a book of poems by Dr Taraprasad Das, Director, LVPEI, Bhubaneswar.

The Orissa state government provided land at a concessional rate for the Institute and extended all other possible help. The major donors were Operation Eyesight Universal (Canada), BHP Billiton (Australia), National Thermal Power Corporation (New Delhi), Nava Bharat Ferro Alloys (Hyderabad), Harteck Rubber (Kolkata) and Infosys Foundation (Bangalore).

The Bhubaneswar Institute offers services in all subspecialties of ophthalmology, as well as rehabilitative and low vision care. The Institute will also develop community eye health, education and research activities over the next three years.

His Excellency President of India Shri A P J Abdul Kalam, Mr Rameshwar Thakur (Governor), Mr Sushil K Shinde (Central Minister) and Mr Naveen Patnaik (Chief Minister) at the inauguration
L V Prasad Eye Institute, Visakhapatnam

It all started when two young men from Visakhapatnam, Mr R Appalraju and Mr O Naresh Kumar, came to L V Prasad Eye Institute, Hyderabad, for treatment. Seeing LVPEI, they were keen to help develop a similar facility at Visakhapatnam.

This was followed by a discussion with Dr Gullapalli N Rao, Chairman, LVPEI, and officers of Operation Eyesight Universal (OEU), an NGO based in Canada, about the possibility of starting a tertiary care and training institute in Visakhapatnam. It was an opportune moment for Dr Rao to merge the enthusiasm of the two young men with the interest of OEU. Thus L V Prasad Eye Institute, Visakhapatnam, was conceptualized on a 5-acre site at Hanumanthawaka Junction, a picturesque spot in the foothills of Kailasgiri Hills, Visakhapatnam.

The L V Prasad Eye Institute threw open its doors to patients in Visakhapatnam on July 7, 2006. Chief Minister of Andhra Pradesh Dr Y S Rajasekhar Reddy had laid the foundation stone for LVPEI Visakhapatnam on May 10, 2005. This facility will be part of Visakhapatnam’s ‘Medicity’, the Health City planned by the AP State Government.

The dignitaries present at the launch were Ms Pat Ferguson of OEU, who led a delegation of supporters from Canada to launch the clinics. Another major supporter Mr Rob Ohlson inaugurated the Rob Ohlson Centre for Sight Enhancement. A group of philanthropists from Vizag who had contributed to the building of Visakhapatnam L V Prasad Eye Institute were also present on this momentous occasion. They are Mr O Naresh Kumar, CEO of Symbiosis Technologies; Dr Lalitesh Katragadda of Google; Mr R Appalraju, stock broker; Mr R Raghu Rayalu of RVR Constructions; and Dr N V Sastry and Dr N Madhavi.

The Visakhapatnam Institute offers services in all subspecialties of ophthalmology as well as rehabilitative and low vision care, linking up with our secondary care network in northern coastal Andhra Pradesh. The Institute will also develop community eye health, education and research activities over the next three years.
Champalimaud Research Centre at LVPEI
The Antonio Champalimaud Foundation of Portugal awarded a 1.04 million Euro grant to develop a Translational Research Centre as part of our Prof Brien Holden Eye Research Centre. The Champalimaud Translational Centre of Eye Research (C-TRACER) will enable L V Prasad Eye Institute to set up a world-class translational research facility devoted to the analysis, management and treatment of selected eye disorders.

The focus of C-TRACER will be twofold: stem cell research and therapy for corneal and retinal disorders, and molecular genetic and biological studies of the causation of certain eye diseases and approaches to their treatment. Research will be driven by disorders seen at the clinic, studying the basic biology of the disorders in the laboratory, and translating the results into possible therapy, i.e., bedside to bench and back to bedside. A team of 7 scientists and 20 research fellows and associates will work with over 20 ophthalmologists in this five-year long program.

20th Foundation Day celebrations
As L V Prasad Eye Institute celebrated the 20th anniversary of its Foundation Day on the evening of October 17, 2006, memories were revived about its inception and steady growth to become a globally acclaimed Centre of Excellence today. The speakers for the evening included Mrs Lalitha Raghuram, one of the first employees; Dr G Chandrasekhar, first faculty and now Director, LVPEI; Dr K Anji Reddy, Chairman of Dr Reddy's Laboratories and a major supporter; Mr Ramesh Prasad, son of Mr L V Prasad; Dr Umang Mathur, LVPEI alumnus and head, Shroff's Charitable Eye Hospital, New Delhi; and Dr F C Kohli, chairman, Hyderabad Eye Research Foundation. The celebrations ended with a sitar recital by Mr Raja Angara.

Education Day
Later in the day, LVPEI celebrated its third Education Day. Bachelor of Science degree certificates were presented to 13 students by Guest of Honour Prof Palle Rama Rao, Distinguished Professor, International Advanced Research Centre for Powder Metallurgy & New Materials, Hyderabad. Delivering the Education Day address Prof Rama Rao stressed on the great employment opportunities for today’s youth, urging the graduating students to make full use of their training and education.

Mr A Bahadur Ali of Nepal was selected for the Best Outstanding Student Award and Excellence Award. Awards were also presented to P Sandeep Reddy for best Optometry Fellow and B Naga Lakshmi for best Ophthalmic Nursing Assistant Trainee. The Dr G N Rao Award for Best Outgoing Fellow was presented to Dr Nitin Dua.

Staff celebrations of Foundation Day
Staff celebrations for the Foundation Day were held on October 16, 2006. The staff and their families enjoyed an evening of dance, fun and festivities. Certificates were presented to employees who had completed 5, 10, and 15 years of service. The Best Employee of the Year awards went to Mr G Srinivas (Eye Bank) and Mr S Jagadesh Kumar (Purchase Department). In a lead-up to the event several cultural and sports events were held in which the entire staff participated.
**First secondary care satellite centre celebrates 10th anniversary**

While our rural extension started with our two affiliates in Nidadavole and Tanuku 14 years ago, our own satellite (Bhosle Gopal Rao Patell Eye Centre - BGRPEC) in Mudhol (a small village of 3000 people) of Adilabad district (one of the least developed districts of the state) was inaugurated on December 20, 1996. This was LVPEI’s first rural Satellite Service Centre set up to provide secondary eye care to a population of 5,00,000 in Adilabad district of Andhra Pradesh, India. We celebrated the 10th anniversary of BGRPEC in December 2006. The chief guest for the program was Dr R S Arole, Director, Comprehensive Rural Health Project (Jamkhed, Ahmednagar district, Maharashtra) and a legend in primary health care and rural community development. The Guests of Honor included Mr P G Michael, formerly Head - India, Christoffel Blindenmission, and Mr D Nagarajan, former country director of Sight Savers International, UK.

![10th anniversary of BGRPEC: Dr Arole and Mr Michael address the gathering, the cultural program](image)

**LVPEI sets up Macula Centre**

LVPEI, Hyderabad, set up another dedicated facility on April 8, 2006, with the inauguration of a Macula Centre, offering advanced diagnostic and surgical facilities. The Centre was inaugurated by Prof Ravi Thomas, former Director, LVPEI. Mr Mukul Bagga, Business Unit Head, Novartis Ophthalmics, was the guest of honor. The Centre is supported by Novartis India Limited.

Age-related macular degeneration (AMD) is the leading cause of irreversible blindness among people above 50 years of age. In addition to AMD, the Centre will treat other macular diseases like diabetic macular edema, chronic central serous chorioretinopathy, hereditary macular dystrophies, macular holes and other vitreomacular interface abnormalities. The Centre will also focus on research, training and management of macular disorders.

**Indian Eye Research Group annual meeting**

The 15th annual meeting of the Indian Eye Research Group (IERG) was held on 29th and 30th July 2006 at LVPEI, with around 100 delegates from different institutions across the country attending. Over 50 free papers and 3 invited talks were presented in various areas of eye research including biochemistry, cell biology, genetics, molecular biology, pharmacology, optometry and ophthalmology. Dr Shomi Bhattacharya from the Institute of Ophthalmology, London, delivered the Bireswar Chakrabarti Memorial oration on ‘Retinitis pigmentosa – light at the end of the tunnel?’ The Amjad Rahi prizes for best papers were awarded to Mr Sumit Kumar from the Bausch & Lomb School of Optometry, LVPEI, and Sudha Balasubramanian from Sankara Nethralaya, Chennai.

![The Indian Eye Research Group annual meeting participants](image)

**Public Education Fora at LVPEI**

The Institute continues to hold monthly Public Education Fora, each focusing on an eye disease or an aspect of management/treatment, to increase awareness of eye care and eye health. The forums are also aimed at dispelling misconceptions and creating a better understanding about the risks and benefits of various treatment strategies. The forums held during the year focused on corneal transplantation and eye banking, contact lenses, diabetic retinopathy, cataract, age related macular degeneration, low vision, retinopathy of prematurity, squint, LASIK, and glaucoma, among others.
Memorial lectures

Nawab Arastu Yar Jung Bahadur Memorial Lecture
The first Nawab Arastu Yar Jung Bahadur Memorial Lecture was held on December 21, 2006. Dr Abdul Husain was conferred the title of Nawab Arastu Yar Jung Bahadur, when he was appointed personal physician to the sixth Nizam of Hyderabad. The lecture was instituted in Dr Abdul Husain’s memory by his grandson Dr Sajid Ali, who also instituted the Nawab Arastu Yar Jung Fellowship for a cornea and anterior segment fellowship program at LVPEI. The inaugural fellowship was awarded to Dr Sunita Chaurasia, cornea and anterior segment fellow. The inaugural lecture on ‘Diabetes and the Eye’ was delivered by Mr R D Thulasiraj, Executive Director, Aravind Eye System, Madurai.

Rustom D Ranji Rotary Award and Lecture
L V Prasad Eye Institute, in association with the Rotary Club of Hyderabad District 3150, held the Dr Rustam D Ranji Rotary Award and Lecture 2006 on November 4, 2006. The lecture was delivered by Dr Tarun Sharma, Director of Shri Bhagwan Mahavir Vitreoretinal Services, Sankara Nethralaya, Chennai.

LVPEI commemorates World Sight Day
L V Prasad Eye Institute commemorated World Sight Day 2006 by conducting an exhibition and free vision screening program during October 12-14, 2006, at PRASADS IMAX theatre complex, Hyderabad. Mr Ramesh Prasad, Managing Director of PRASADS, said he was pleased to be part of this public service initiative of LVPEI, the institution named in honor of his father. The program was inaugurated by Padma Bhushan Shri Akkineni Nageshwara Rao, doyen of the Telugu film industry. The activities included a poster gallery and mass distribution of awareness leaflets; free vision screening for all visitors; information desks and interactive displays on vision rehabilitation and eye donation. Students from LVPEI’s Bausch & Lomb School of Optometry gave visitors information about various eye conditions and treatment strategies. Over 6000 people visited the exhibition.

A schoolgirl trained in preliminary vision screening checks the eyes of a volunteer

Begum Bilquis presents a plaque to Mr R D Thulasiraj, guest speaker

Dr G N Rao with the family of Nawab Arastu Yar Jung Bahadur and Dr Sunita Chaurasia

Shri A Nageshwara Rao inaugurates the World Sight Day events

Felicitations for Mr Ramesh Prasad
Milestones

- **Ekta Moda** (former comprehensive fellow) presented two posters and two videos at the Asia Pacific Academy of Ophthalmology Congress 2006 at Singapore, June 10-14, 2006. The two posters were *Atypical OSSN presentations* (Moda, Santosh Honavar, Geeta K Vemuganti) and *How effective is the gold weight trial before eyelid loading?* (Moda, Milind Naik). The videos were *Management of posterior lenticulon with cataract* (Moda) and *Giant Epibulbar Dermoids in newborn: How far can we go?* (Moda, Milind Naik).

- Former retina vitreous fellow **Vinay A Shah**, MD, University of Missouri, Kansas City, received the Honor Award for 2005 from the American Society of Retina Specialists. He was selected for outstanding service to the Society's scientific and educational programs.

- **Ashu Agarwal**, former cornea fellow, has moved from the Venu Eye Institute & Research Centre, New Delhi. He is now heading the Cornea and Anterior Segment Service at the Centre for Sight at Safdarjung Enclave, New Delhi.

- **Dr Rakesh Gupta**, former comprehensive fellow, has cleared his FRCS Glasgow Part 2 examination. He has also setup his own clinic, Shreya Eye And Laser Clinic in New Delhi.

All former long-term fellows of LVPEI are welcome to join the Alumni Association. Alumni news for inclusion in Quarterly and Annual Reports may be sent to alumni@lvpei.org
Awards and Honors

American Academy and ARVO honors for Dr G N Rao
Dr Gullapalli N Rao, Chairman, L V Prasad Eye Institute, received the 2006 ‘International Prevention of Blindness Award’ from the American Academy of Ophthalmology on November 12, 2006, at its annual meeting in Las Vegas, USA. This is in recognition of his contribution to prevention of blindness efforts globally.

Dr Rao was also honored by the Association for Research in Vision and Ophthalmology (ARVO) as one of the two keynote speakers at its annual meeting in Fort Lauderdale, Florida, from April 30 – May 4, 2006. The other keynote speaker was Dr Paul Sieving, Director of National Eye Institute of National Institutes of Health, USA.

Shanti Swaroop Bhatnagar award for Dr Sangwan
Dr Virender S Sangwan, Head, Cornea and Anterior Segment Services, was awarded the prestigious Shanti Swaroop Bhatnagar Award for 2006 for his “outstanding contribution to the application of limbal stem cell biology to restore vision to victims of corneal injury”. The prizes are awarded by the Council of Scientific and Industrial Research annually to young scientists for outstanding scientific contributions. Dr Sangwan received the award from Prime Minister Shri Manmohan Singh at a ceremony held at Vigyan Bhavan, New Delhi, on September 26, 2006.

Dr Sangwan is the second ophthalmologist ever to receive this award (the first one being Dr Anil K Mandal, Director of our Children’s Eye Care Centre).

Finalist for India NGO Award
L V Prasad Eye Institute was selected as Regional Winner from the South for the India NGO Awards 2006. The awards were presented by Union Panchayat Raj Minister Mr Mani Shankar Aiyer in New Delhi on March 1, 2007. The India NGO Award is awarded by the Resource Alliance, in partnership with The Nand & Jeet Khemka Foundation, and focuses on capacity building of not-for-profit organizations.

Dr Das takes over as President of AIOS
Dr Taraprasad Das, Director, L V Prasad Eye Institute, Bhubaneswar, assumed charge as President of the All India Ophthalmological Society at its 65th annual conference, Hyderabad, February 1-4, 2007.
The real measure of everything we do is its impact on patients’ lives. Medical and surgical interventions here are based on the latest know-how tempered with compassion and a concern for the real contexts that patients come from and must go back to. Whether it is helping a student realize his ambitions or taking a family from despair to hope, or making a young man feel good about himself again, our clinicians are clear about one thing — they do not treat eyes, they treat people.

Patient care is the focal point of LVPEI’s activities and we continue to get patients from all over India and many other countries. The number of patients from abroad has increased, especially from the Middle East (Oman, UAE, Madagascar) and the African continent. Our tiered payment structure cross-subsidizes eye care costs for people of all levels, while we continue to provide quality eye care at no cost to the less privileged.

While striving to serve the needs of the especially vulnerable sections – children, the elderly, and the rural poor — we proactively develop new and better approaches for treatment and management of eye diseases. Similarly each of our subspecialty areas kept pace with global advances through continual upgradation of knowledge, skills and infrastructure and our investments for these always go hand in hand. Large volumes of Corneal Transplants, Comprehensive Ocular Oncology Services, an extensive network of ROP (retinopathy of prematurity) care, increasing demands for all subspecialties characterized the year.

The Ramayamma International Eye Bank addresses the problem of corneal blindness by enhancing the country’s eye banking systems through training, research, capacity building and advocacy, while continuing to act as a national monitor for all eye banks.
School eye screening
Seventeen teachers and two pharmacists from the School of Kalinga Institute of Social Sciences (KISS), Bhubaneswar, were trained for the school eye screening program. The training was conducted by the staff of B-LVPEI, who included Mr Bikash Chandra Mohanta, Dr Sanghamitra Dash, Dr Srikanth Sahu, Mr Mukesh Singh, Mr A Jeevan Rao, Mr Shyam Sundar Nayak and Ms Sujata Mishra.

Community screening program
At the behest of Mr A K Bhandari, Zonal Manager, Bank of India, Bhubaneswar, the first community eye screening program was organized by B-LVPEI on March 18, 2007. A total of 100 patients were examined, of which 14 were counseled for further check-up, 10 were prescribed medication, 25 were advised to change their spectacles, 23 were advised to continue using their spectacles, and 19 were advised to use spectacles.

Bhubaneswar Eye Meet
The Bhubaneswar Eye Meet was held at Bhubaneswar LVPEI under the aegis of the Orissa State Ophthalmological Society on January 13-14, 2007. It was attended by 89 ophthalmologists from various parts of Orissa. Dr Suryasnata Rath was the organizing secretary and the meeting covered various subspecialties of ophthalmology. The guest faculty included Dr G Chandrasekhar and Dr Virender S Sangwan from LVPEI, Hyderabad; Dr J Biswas from Sankara Nethralaya, Chennai; and Dr Kim Ramasamy and Dr Usha Kim from Aravind Eye Hospital, Madurai.

Events

L V Prasad Eye Institute, Bhubaneswar
The Bhubaneswar L V Prasad Eye Institute began functioning the very next day after its inauguration on July 4, 2006. On the first day over 50 patients registered and underwent detailed eye examinations. The operating rooms opened for surgeries in the month of October after a rigorous critical inspection. LVPEI will serve as a tertiary care center for the state of Orissa and the neighboring states in eastern India.

Performance Statistics

<table>
<thead>
<tr>
<th>Services</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits (8 months)</td>
<td>12,412</td>
<td>4,181</td>
<td>16,593</td>
</tr>
<tr>
<td>Surgical procedures (4 months)</td>
<td>796</td>
<td>469</td>
<td>1265</td>
</tr>
</tbody>
</table>

Analysis of surgical procedures (%)

- Cataract Surgery: 477
- Retina Surgery: 447
- Corneal procedures: 88
- Plastic Surgery: 196
- Glaucoma Surgery: 57

In addition, 62 children were examined and treated under anesthesia (EUA).
Note: The no. of surgical procedures (1355) is greater than the no. of eyes (1327) as multiple procedures were done on some eyes.
L V Prasad Eye Institute, Visakhapatnam

The L V Prasad Eye Institute, Visakhapatnam commenced patient care activities on July 7th 2006. On the first day over 100 patients registered and underwent detailed eye examinations. The operating room complex was operational from the month of November after a rigorous inspection. LVPEI, Visakhapatnam, serves as a tertiary care center for the northern part of Andhra Pradesh state and the neighboring areas in eastern India.

Performance Statistics

<table>
<thead>
<tr>
<th>Services</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits (8 months)</td>
<td>9,977</td>
<td>4,229</td>
<td>14,206</td>
</tr>
<tr>
<td>Surgical procedures (4 months)</td>
<td>431</td>
<td>271</td>
<td>702</td>
</tr>
</tbody>
</table>

Analysis of surgical procedures (%)

- Cataract Surgery: 386
- Corneal procedures: 88
- Retina Surgery: 103
- Glaucoma Surgery: 14
- IOAB*: 111

*IOAB: Intra Ocular Antibiotic Injection.

In addition, 45 children were examined and treated under anesthesia (EUA).

Note: The no. of surgical procedures (1096) is greater than the no. of eyes (728) as multiple procedures were done on some eyes.

Rob Ohlson Centre for Sight Enhancement & Rehabilitation for the Blind

October 2006 – March 2007

Low vision care during the year

<table>
<thead>
<tr>
<th>Services</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New patients</td>
<td>38</td>
<td></td>
<td>38</td>
</tr>
<tr>
<td>Follow-up patients</td>
<td>8</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Total</td>
<td>46</td>
<td></td>
<td>46</td>
</tr>
</tbody>
</table>

Age-wise Analysis of Patients (%)

- Birth to 15 yrs: 25
- 16 to 45 yrs: 25
- 46 to 60 yrs: 5
- 61 & above: 6

Rehabilitation Services

- Counseling: 118
- *Special skills training: 27
- Optical Devices Prescribed
  - Spectacles: 8
  - Bifocals: 12
  - Magnifiers: 11
  - Telescopes: 17

Non-optical Devices Prescribed

- Reading stand: 9
- Reading lamp: 13
- Typo scope: 2
- Approach magnification: 38
- Light control devices: 12
- Closed circuit television: 1
L V Prasad Eye Institute, Hyderabad

Hospital

Performance Statistics

<table>
<thead>
<tr>
<th>Services</th>
<th>Paying</th>
<th>Non-paying</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient visits</td>
<td>129,665</td>
<td>55,011</td>
<td>184,676</td>
</tr>
<tr>
<td>Surgical procedures</td>
<td>12,753</td>
<td>10,103</td>
<td>22,856</td>
</tr>
</tbody>
</table>

Patients from all over the world and across India

Analysis of surgical procedures (%)

- Cataract: 10,879
- Corneal transplants: 882
- Glaucoma surgeries: 879
- Plastic surgeries: 2,028
- Squint surgeries: 585
- Retina vitreous: 3669
- Lasers: 251
- Corneal surgeries: 2946
- Other surgeries: 737

In addition, 2724 children were examined and treated under anesthesia (EUA).
Jasti V Ramanamma Children’s Eye Care Centre

Performance Statistics

Retinopathy of Prematurity (ROP) Program
Since 1998, L V Prasad Eye Institute’s ROP screening program has helped identify and treat ROP in scores of pre-term babies. The low rate of ROP surgeries and higher number of prophylactic lasers reflects the success of the screening program.

- Babies screened: 989 (676 in NICU*)
- Laser sessions: 159 (23 in NICUs)
- Pediatric retinal surgeries: 489
- ROP surgeries: 18
- RetCam evaluations: 22

*NICU – Neo-natal intensive care units

ROP Public Education Forum: A Public Education Forum on ROP was held on October 14, 2006, to increase awareness about retinopathy of prematurity. The program was held with support from Mr Ramesh Prasad, CEO, PRASADS IMAX.

Appraisal and audit: Sight Savers International, UK, conducted an evaluation of our Sight Savers funded ROP treatment and training grant project in November 2006. Experience gained from this project will be utilized to plan ROP training programs in India and other countries, especially in the context of the VISION 2020: The Right to Sight initiative, which has identified ROP as an important cause of preventable blindness among children.

Children with eye cancer
In 2004, Dr Parin Vakharia set up a Corpus Fund for treatment of children with eye cancer, in memory of late Olive Swoboda. The fund enables L V Prasad Eye Institute to provide quality tertiary cancer care to children from underprivileged families free of charge. The total number of procedures performed on children with retinoblastoma this year was 1427. Of these 659 children were treated absolutely free of charge. 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.

A child being examined under anesthesia
"My grandmother lived a long and happy life, and it seemed right to help someone else have the opportunity to have a similarly fulfilled life by donating her eyes. We were aware that due to her advanced age (96) the corneas may not be of graft quality, but at least they could be used for research, which too was an important cause to support."

Expression of a donor family

<table>
<thead>
<tr>
<th>Corneas collected (local &amp; other eye banks)</th>
<th>Corneal transplants performed at LVPEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975+1032=3007</td>
<td>881</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corneas given to ophthalmologists outside the Institute</th>
<th>Corneal tissues used for research &amp; training</th>
</tr>
</thead>
<tbody>
<tr>
<td>523</td>
<td>1603</td>
</tr>
</tbody>
</table>

Community Eye Banking Program
RIEB provided 523 donor corneas to corneal surgeons outside LVPEI — within and outside Andhra Pradesh.

Tissues received from RIEB affiliate centres

Programs under the ORBIS-ESI-LVPEI project
Under the ORBIS-ESI-LVPEI project, training was provided to 11 eye bank technicians, 2 eye donation counsellors, 14 ophthalmologists and 2 eye bank managers.

The 8th zonal workshop on eye banking was held in collaboration with Sri Sankaradeva Nethralaya, Guwahati, on May 6, 2006; there were 72 participants including the faculty. The 9th zonal workshop was held at Lions NAB Eye Hospital, Miraj, Sangli, on July 22, 2006, in collaboration with Lions Parasmal Kocheta Eye Bank—there were 153 participants, including the faculty.

RIEB is conducting a study in collaboration with Bristol Eye Bank, UK, and Eye Sight International, Canada, under the ORBIS-ESI-LVPEI project to explore the possibility of increasing the donor pool. In the study, the issue of safety of corneas received from septicemic and ventilator dependent donors for transplantation will be scientifically addressed, employing the organ culture technique. Corneas procured from 62 donors were investigated.

Eye Donation Fortnight: The 21st National Eye Donation Fortnight (EDF) was observed from August 25–September 8, 2006. Posters and publicity material was placed and distributed at various hospitals in Hyderabad; slides were also screened at cinema theatres to spread the message of eye donation.

Record eye donations: Mr A Raghu, eye donation counsellor, motivated 32 people for eye donation between January 26 and February 25, 2007. This was the highest number of eye donations received through counseling by an individual in one month in Andhra Pradesh.

Our gratitude to all affiliates who helped us with donor corneas: Khammam Eye Bank(242); Smt. R R Lions Eye Hospital, Nidadavole (149); Lions Club, Suryapet (99); Ongole Eye Bank (83); Regional Eye Hospital, Warangal (76); Lions Club, Karimnagar (46); Sadhuram Eye Hospital, Hyderabad (36); Lions Club, Jangaon (36); Modern Hospital, Nellore (32); Lions Eye Hospital, Palakol (28); Sudarsani Eye Hospital, Guntur (24); Lions Club, Kamareddy (22); Mulpapudi Venkatrayudu Eye Center, Tenakula (20); Shri KVB Reddy IRCs Eye Bank, Kurnool (17); Vasavi Club of Bibipet, Bibipet (16); Chiranjeevi Eye & Blood Bank, Hyderabad (16); SVRR Govt. General Hospital, Tirupati (16); District Hospital, Nandyal (12); Lions Club, Nizamabad (8); Lions Club, Palvancha (8); Sukhabhogi Seva Samiti, Mancherla (8); Rotary Eye Hospital, Vuyyur (6); Sri Sai Rupa Nethralaya, Repalle (6); Lions Club, Kothagudem (4); Dr Akbar Eye Hospital, Anantapur (4); Lions Dundo Eye Institute, Secunderabad (4); Ramakrishna Hospital, Macherla (2); Anjani Putra Praja Seva Samiti, Adilabad (2); Lions Club, Mahaboobabad (2); District Blindness Control Society, Nalgonda (2); Lions Club, Mahaboobabad (2); Rajiv Gandhi Super Sp. Hospital, Raichur (2); Supraja Seva Samiti, Karimnagar (2)
Vision Rehabilitation Centres

The Rehabilitation Centres at L V Prasad Eye Institute, apart from providing low vision and rehabilitative services through hospital and community based programs, are engaged in research aimed at identifying barriers to the provision and uptake of low vision services, and designing new products and processes that enhance service delivery to persons with severe vision impairment. The two rehabilitation centres are the Meera & L B Deshpande Centre for Sight Enhancement and the Dr P R K Prasad Centre for Rehabilitation of Blind and Visually Impaired, both of which work together to develop a comprehensive rehabilitation plan for persons with vision impairment.

During the year 101 ophthalmologists and optometrists participated in the Low Vision Awareness program, conducted by LVPEI, and 8 optometrists underwent a short-term (3 month) course in low vision care. Overall the Centres have trained 415 ophthalmologists, optometrists, and special educators through the Low Vision Awareness program and 46 optometrists in the short-term course. (Details in Education Centre trainees list)

Meera & L B Deshpande Centre for Sight Enhancement

| New patients | 1467 |
| Follow-up patients | 618 |
| **Total** | **2085** |

| Spectacles | 312 |
| Bifocals | 139 |
| Magnifiers | 401 |
| Telescopes | 127 |

Age-wise analysis of patients (%)

| Birth-15 years | 587 |
| 16-45 years | 450 |
| 46-60 years | 254 |
| 61 and above | 176 |

Non-optical devices prescribed

| Reading stand | 70 |
| Reading lamp | 65 |
| Typoscope | -- |
| Approach magnification | 1398 |
| Light control devices | 85 |
| Closed-circuit television | -- |

Dr PRK Prasad Centre for Rehabilitation of Blind and Visually Impaired

| Children's Centre | 1461 |
| Adults Centre | 2374 |

Rehabilitation Services

| Counseling | 3768 |
| Special Skills Training | 869 |

Instruction in use of

- Assistive devices (computers) | 208 |
- Low vision devices | 784 |
- Environmental modification | 2260 |
- Educational guidance | 1034 |
- Vocational guidance | 317 |
- Supportive services | 3316 |
- Referral to other services | 280 |
- Follow-up | 1404 |
News and Events
Highlights for the year included successful conducting of two Low Vision Awareness Programs (LAP) for ophthalmologists, optometrists and rehabilitation professionals in March and August 2006, which were attended by 51 eye care professionals from all over the country.

The Rehabilitation Centres set up a stall at the World Sight Day programs organized by LVPEI at PRASADS IMAX complex in Hyderabad in October 2006. A range of optical, non-optical and assistive devices (useful for people with visual impairment) was displayed, with information being disseminated in English and Telugu.

An awareness campaign on eye donation and rights of the disabled was conducted to create awareness among industrialists, corporate leaders and the general public at Zoroastrian Club, Secunderabad, between October 13-15, 2006; the program was supported by UTI Bank, Secunderabad.

A Fun Camp for visually challenged children was conducted on November 26, 2006 at Jalagam Vengala Rao Park, Hyderabad, with 54 visually challenged children, along with their sighted siblings (50), parents and family members (70). Group and individual sports and games were organized and prizes awarded to the winners. All the children received a special gift.

The Public Education Forum Living with Low Vision conducted by the Vision Rehabilitation Centres on September 24, 2006, drew a full house with 192 participants from all walks of life. The VRC volunteer base turned up in full force to support the VRC team. In the summer of 2006, volunteers held spoken English classes for schoolgoing visually challenged children, to enhance their confidence and communications skills, enabling them to access e-books and specialized software.

World Disabled Day was commemorated in the Secunderabad slums on December 3, 2006, with several programs including a rally, games and competitions. Several self-help group meetings and awareness programs were conducted in the community during the year and field visits organized for community rehabilitation leaders and staff members.
Community Eye Health & Outreach
International Centre for Advancement of Rural Eye Care (ICARE)

Taking eye care to communities in need, tackling the most important causes of avoidable blindness at the primary level, building human resources to carry out preventive, proactive eye screening at the village level, and evaluating the efficacy of these programs... all this and more is part of the day’s work at LVPEI’s International Centre for Advancement of Rural Eye care, located in Kismatpur on the outskirts of Hyderabad. This year, ICARE continued its engagement with schools and other community hubs, took its expertise to developing countries, and helped create infrastructure at the primary and secondary levels.

Creating sustainable models of eye care for the developing world

- Centres of Excellence
- Tertiary Eye Care
- Secondary Eye Care
- Primary Eye Care
- Community Eye Care

LV Prasad Eye Institute
Training Centres – 5 million population (Eye Hospitals/Departments of Ophthalmology)
Service Centres 500,000 – 1 million population
Vision Centres 50,000 population
Vision guardians 5000 population
A. Service Delivery

1. Secondary eye care in Andhra Pradesh

The growing LVPEI network of rural and urban eye care spans the state of Andhra Pradesh with 15 secondary care Service Centres and 32 primary care Vision Centres. The 15th Service Centre, Siloam Eye Centre in Madanapalli, Chittoor district, was inaugurated on March 11, 2007, by Ms Pat Ferguson, CEO, Operation Eyesight Universal. A service centre in Nellore town (Nellore district), supported by the Swarna Bharat Trust, will become operational by June/July 2007. The 17th Service Centre at Markapur in Prakasam district will follow later in the year. Recruitment and training of staff for these centres is under way at LVPEI, Hyderabad.
## Secondary eye care — Service Centres Performance

<table>
<thead>
<tr>
<th>Satellite and Partner Centres</th>
<th>Paying Outpatients</th>
<th>Paying Surgeries</th>
<th>Non-paying Outpatients</th>
<th>Non-paying Surgeries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhosle Gopal Rao Patel Eye Centre</td>
<td>9,201</td>
<td>788</td>
<td>6,881</td>
<td>1,424</td>
</tr>
<tr>
<td>Mudhol, Adilabad District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kuchukulla Ramachandra Reddy Eye Centre</td>
<td>6,422</td>
<td>346</td>
<td>4,309</td>
<td>1,130</td>
</tr>
<tr>
<td>Thoodukurthy, Mahabubnagar District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Venkata Lakshmi Eye Centre</td>
<td>4,007</td>
<td>274</td>
<td>4,805</td>
<td>1,041</td>
</tr>
<tr>
<td>Karamchedu, Prakasam District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seshanna Chennawar Eye Centre</td>
<td>5,273</td>
<td>223</td>
<td>3,370</td>
<td>815</td>
</tr>
<tr>
<td>National Highway Road, Adilabad District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siloam Eye Centre</td>
<td>12,194</td>
<td>417</td>
<td>2,612</td>
<td>308</td>
</tr>
<tr>
<td>Madanapalli, Chittoor District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arogyavaram Eye Hospital &amp; Contact Lens Clinic</td>
<td>30,092</td>
<td>2,022</td>
<td>1,166</td>
<td>280</td>
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<tr>
<td>Sompeta, Srikakulam District</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mullapudi Venkatayudu Eye Centre</td>
<td>9,285</td>
<td>665</td>
<td>2,147</td>
<td>301</td>
</tr>
<tr>
<td>Tanuku, West Godavari District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smt. Rajeshwari Ramakrishnan Lions Eye Hospital</td>
<td>11,405</td>
<td>897</td>
<td>17,500</td>
<td>4,721</td>
</tr>
<tr>
<td>Nidadavole, West Godavari District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St. Gregorius Balagram Eye Hospital</td>
<td>3,563</td>
<td>211</td>
<td>2,218</td>
<td>912</td>
</tr>
<tr>
<td>Yacharam, Ranga Reddy District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lions Club of Suryapet Eye Hospital</td>
<td>3,807</td>
<td>236</td>
<td>22,855</td>
<td>1,672</td>
</tr>
<tr>
<td>Suryapet, Nalgonda District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Rotary Eye Hospital</td>
<td>5,133</td>
<td>243</td>
<td>8,250</td>
<td>1,968</td>
</tr>
<tr>
<td>Proddatur, Kadapa District</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hyderabad Urban Centres

| Lions Club of Suryapet Eye Hospital                              | 7,856              | 396              | 5,918                  | 1,161                |
| Moula Ali, Hyderabad                                             |
| Kishore Chand Chordia Eye Centre                                 | 4,006              | 148              | 9,739                  | 901                  |
| Begum Bazar, Hyderabad                                           |
| Balanagar Lions Eye Hospital                                     | 10,196             | 160              | 2,937                  | 333                  |
| Balanagar, Hyderabad                                             |
| LVP-VST Vision Screening Centre                                  | –                  | –                | 4,978                  | 59                   |
| Ramnagar, Hyderabad                                              |

**Total** 1,71,949 7026 1,00,204,17,026

<table>
<thead>
<tr>
<th>Total Outpatients</th>
<th>2,72,153</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Surgeries</td>
<td>24,052</td>
</tr>
</tbody>
</table>

---

**Lions Eye Hospitals network in Andhra Pradesh**

- Lions Eye Hospital, Karimnagar
- Lions Eye Hospital, Medak
- R R Lions Eye Hospital, Palakol
- Bollineni Eye hospital & Research Center, Nellore
- Dr Ranga Reddy Lions Hospital, Hyderabad
- Lions Dundoo Eye Hospital, Hyderabad
- M Ram Reddy Lions Eye Hospital, Mahboobnagar
- Operation Eyesight Universal, Shreeramnagar
- Sadhuram Eye Hospital (Charitable Trust) & Post Graduate Institute of Ophthalmology, Hyderabad
- Shankara Nethralaya Eye Hospital, Hyderabad
- Lions Eye Hospital, Bodhan
- Lions Eye Hospital, Dhamavaram
- M S Reddy Lions Eye Hospital, Moula Ali
- Lions OEU Eye Hospital, Vizianagaram
- Lions Club of Suryapet Eye Hospital, Suryapet

*Centres marked on the Andhra Pradesh map on the opposite page*
2. Primary Eye Care – Vision Centres in Andhra Pradesh

Integrated eye care – primary care Vision Centres working in conjunction with secondary care Service Centres – is fully operational in the three backward districts of Andhra Pradesh – Mahaboobnagar, Adilabad and Prakasam.

The rationale behind the Vision Centre concept is that a significant proportion of eye problems can be detected – and corrected or managed – at the primary level, with substantial savings to the individual and community. The Vision Centres (VC) offer quality eye care to the underserved at their doorstep. The VCs are equipped with permanent infrastructure and cater to a population unit of 50,000, living in 10–15 villages. Ten Vision Centres are attached to one Service Centre. The VCs are part of the primary health care network horizontally and are attached to the secondary level centre vertically.

a. Developments during the year

LVPEI's International Centre for the Advancement of Rural Eye care inaugurated 12 new Vision Centres during the year. Two of these Vision Centres are linked to the Kuchukulla Ramachandra Reddy Eye Centre situated in a remote village Thoodukurthy in Mahaboobnagar district, Andhra Pradesh. The remaining 10 VCs are linked to the Venkata Lakshmi Eye Centre in Karamchedu, Prakasam district.

All these Vision Centres were developed with a capital grant from the Lavelle Fund for the Blind, Inc., of New York. The local communities in Prakasam district provided the space free of cost for setting up 10 Vision Centres. While four were located in the village secretariat premises, six were set up in buildings supported by local philanthropists. This is an excellent example of community partnership and ownership of each centre.

Before a Vision Centre is inaugurated, a coordinator and field worker visits the target villages to create awareness and invite people for the program. The local community also participates by organizing awareness meetings. The Vision Centres’ locations are carefully selected so that they are situated within 50 km from the Service Centre.
b. Other developments

The **Lavellle Fund for the Blind, Inc.**, New York, USA, has committed to support 20 more Vision Centres during 2007 – 2009 in Prakasam district. The planning for 10 Vision Centres during 2007 – 2008 is under way.

The **Latter-day Saint Charities (LDSC)**, Salt Lake City, USA, has committed to support 8 Vision Centres attached to the Sheshanna Chennawar Eye Centre, Adilabad. The first VC was inaugurated in June 2007, the other seven will be set up during 2007 – 2008.

Till date, LVPEI has established 33 Vision Centres and 39 more are in the pipeline. We expect this number to increase in future so as to cover the other districts of Andhra Pradesh. As we progress, we try to address two important challenges while developing a primary eye care system:

- Linkages with referral networks — both vertically with secondary Service Centres and horizontally with other health care and community services.
- Linkages with other community development programs.

### c. Primary eye care — Vision Centres

<table>
<thead>
<tr>
<th>Performance Centre</th>
<th>Screening</th>
<th>Prescriptions</th>
<th>Given Spectacles</th>
<th>Visual Impairment</th>
<th>Referral to Service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mahaboobnagar district</strong>&lt;br&gt;<strong>Kuchukulla Ramachandra Reddy Eye Centre, Toodukurthy</strong>&lt;br&gt;Wanaparthy</td>
<td>3273</td>
<td>1395</td>
<td>909</td>
<td>720</td>
<td>1244</td>
</tr>
<tr>
<td>Achampet</td>
<td>2685</td>
<td>709</td>
<td>355</td>
<td>255</td>
<td>717</td>
</tr>
<tr>
<td>Nagarkurnool</td>
<td>3715</td>
<td>1304</td>
<td>1091</td>
<td>251</td>
<td>1286</td>
</tr>
<tr>
<td>Kottakota</td>
<td>2127</td>
<td>580</td>
<td>388</td>
<td>240</td>
<td>704</td>
</tr>
<tr>
<td>Kollapur</td>
<td>1005</td>
<td>416</td>
<td>162</td>
<td>15</td>
<td>275</td>
</tr>
<tr>
<td>Amangal</td>
<td>1498</td>
<td>365</td>
<td>278</td>
<td>116</td>
<td>388</td>
</tr>
<tr>
<td>Ghanapuram</td>
<td>452</td>
<td>166</td>
<td>95</td>
<td>3</td>
<td>114</td>
</tr>
<tr>
<td>Bizinepally</td>
<td>1432</td>
<td>495</td>
<td>347</td>
<td>137</td>
<td>430</td>
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<tr>
<td>Telkapally</td>
<td>1144</td>
<td>485</td>
<td>364</td>
<td>46</td>
<td>297</td>
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<tr>
<td>Kalwakurthy</td>
<td>1351</td>
<td>536</td>
<td>300</td>
<td>71</td>
<td>323</td>
</tr>
<tr>
<td>Lingala</td>
<td>1399</td>
<td>511</td>
<td>291</td>
<td>142</td>
<td>371</td>
</tr>
<tr>
<td><strong>Adilabad district</strong>&lt;br&gt;<strong>Bhosle Gopal Rao Patel Eye Centre, Mudhol</strong>&lt;br&gt;Bhainsa</td>
<td>7572</td>
<td>1470</td>
<td>1604</td>
<td>424</td>
<td>1345</td>
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<tr>
<td>Kubeer</td>
<td>2242</td>
<td>490</td>
<td>464</td>
<td>0</td>
<td>317</td>
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<tr>
<td>Nandipet</td>
<td>1762</td>
<td>479</td>
<td>363</td>
<td>10</td>
<td>568</td>
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<tr>
<td>Naveepet</td>
<td>2350</td>
<td>637</td>
<td>532</td>
<td>0</td>
<td>893</td>
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<tr>
<td>Kallur</td>
<td>1158</td>
<td>439</td>
<td>297</td>
<td>7</td>
<td>151</td>
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<tr>
<td>Lokeswaram</td>
<td>1519</td>
<td>518</td>
<td>485</td>
<td>385</td>
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</tr>
<tr>
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<td>2114</td>
<td>578</td>
<td>545</td>
<td>0</td>
<td>620</td>
</tr>
<tr>
<td>Ichoda</td>
<td>2765</td>
<td>963</td>
<td>1006</td>
<td>345</td>
<td>621</td>
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<tr>
<td>Indervelli</td>
<td>1144</td>
<td>444</td>
<td>338</td>
<td>74</td>
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<td>Boath</td>
<td>831</td>
<td>291</td>
<td>301</td>
<td>4</td>
<td>148</td>
</tr>
<tr>
<td>Utnoor</td>
<td>1232</td>
<td>557</td>
<td>377</td>
<td>43</td>
<td>224</td>
</tr>
<tr>
<td><strong>Prakasam district</strong>&lt;br&gt;<strong>Venkata Lakshmi Eye Centre, Karamchedu</strong>&lt;br&gt;Parchurru</td>
<td>3787</td>
<td>1227</td>
<td>552</td>
<td>529</td>
<td>1026</td>
</tr>
<tr>
<td>Panguluru</td>
<td>2323</td>
<td>771</td>
<td>264</td>
<td>207</td>
<td>645</td>
</tr>
<tr>
<td>Ballikuruva</td>
<td>1249</td>
<td>396</td>
<td>119</td>
<td>226</td>
<td>543</td>
</tr>
<tr>
<td>Chinnaganjam</td>
<td>1708</td>
<td>427</td>
<td>169</td>
<td>812</td>
<td>468</td>
</tr>
<tr>
<td>Yudannapudi</td>
<td>1671</td>
<td>491</td>
<td>134</td>
<td>466</td>
<td>598</td>
</tr>
<tr>
<td>Naguluppalapadu</td>
<td>458</td>
<td>131</td>
<td>90</td>
<td>252</td>
<td>93</td>
</tr>
<tr>
<td>Epurupalem</td>
<td>474</td>
<td>228</td>
<td>75</td>
<td>385</td>
<td>151</td>
</tr>
<tr>
<td>Martur</td>
<td>430</td>
<td>173</td>
<td>53</td>
<td>28</td>
<td>48</td>
</tr>
<tr>
<td>Vetapalem</td>
<td>203</td>
<td>64</td>
<td>23</td>
<td>142</td>
<td>80</td>
</tr>
<tr>
<td>Peddanandipadu</td>
<td>454</td>
<td>173</td>
<td>106</td>
<td>39</td>
<td>162</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>57527</strong></td>
<td><strong>17909</strong></td>
<td><strong>12478</strong></td>
<td><strong>6374</strong></td>
<td><strong>15760</strong></td>
</tr>
</tbody>
</table>
3. Community Eye Care through LVPEI service centres

a. Village Vision

<table>
<thead>
<tr>
<th>Survey</th>
<th>Satellites</th>
<th>Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Villages/slums surveyed</td>
<td>352</td>
<td>11</td>
</tr>
<tr>
<td>Population surveyed</td>
<td>96,926</td>
<td>4,069</td>
</tr>
<tr>
<td>People identified with eye ailments and referred</td>
<td>17,020</td>
<td>408</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Community Screening Programs</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CSPs organised</td>
<td>191</td>
<td>36</td>
</tr>
<tr>
<td>People screened</td>
<td>10,834</td>
<td>2,490</td>
</tr>
<tr>
<td>Treated at venue</td>
<td>1,271</td>
<td>467</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>4,485</td>
<td>981</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>4,582</td>
<td>463</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Services offered at base hospital</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>People treated</td>
<td>902</td>
<td>799</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>507</td>
<td>33</td>
</tr>
<tr>
<td>Treated for other conditions</td>
<td>767</td>
<td>30</td>
</tr>
<tr>
<td>Surgeries performed</td>
<td>484</td>
<td>604</td>
</tr>
<tr>
<td>Diagnosed as irreversibly visually impaired/blind</td>
<td>47</td>
<td>Nil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School Screening Programs (SSP)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of schools screened</td>
<td>110</td>
<td>3</td>
</tr>
<tr>
<td>No. of children screened</td>
<td>12,581</td>
<td>219</td>
</tr>
<tr>
<td>Identified with eye ailments</td>
<td>1,063</td>
<td>11</td>
</tr>
<tr>
<td>Treated for other conditions</td>
<td>1,773</td>
<td>Nil</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>625</td>
<td>7</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>1,328</td>
<td>2</td>
</tr>
<tr>
<td>Surgeries</td>
<td>251</td>
<td>Nil</td>
</tr>
</tbody>
</table>

* More SSPs on page 29 and 34 (under Sight for Kids project)

Scenes from a Vision Centre inauguration
### b. Hyderabad Outreach Urban Slums Eye-care (HOUSE) program

#### Surveys

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slums surveyed</td>
<td>4</td>
</tr>
<tr>
<td>Population covered through door to door survey</td>
<td>6,947</td>
</tr>
<tr>
<td>People identified with eye ailments and referred for eye examination</td>
<td>1,743</td>
</tr>
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</table>

#### Community Screening Programs

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSPs organized</td>
<td>42</td>
</tr>
<tr>
<td>People screened</td>
<td>5,701</td>
</tr>
<tr>
<td>Treated at venue</td>
<td>1,519</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>1,835</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>1,561</td>
</tr>
<tr>
<td>Within normal limits</td>
<td>786</td>
</tr>
</tbody>
</table>

#### Referral Services at LVPEI-VST Screening Centre

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>People treated at vision centre</td>
<td>4,136</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>2,048</td>
</tr>
<tr>
<td>Treated for other conditions</td>
<td>430</td>
</tr>
<tr>
<td>Cataract &amp; other surgeries</td>
<td>60</td>
</tr>
<tr>
<td>Referred to secondary and tertiary care facilities</td>
<td>1,235</td>
</tr>
<tr>
<td>Within normal limits</td>
<td>363</td>
</tr>
</tbody>
</table>

#### LVPEI & Lakshmi Charitable Clinic Community Eye Care Program, Narsingi Village, Ranga Reddy district

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>People screened</td>
<td>898</td>
</tr>
<tr>
<td>Treated at venue</td>
<td>243</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>75</td>
</tr>
<tr>
<td>Cataract</td>
<td>38</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>323</td>
</tr>
<tr>
<td>Within normal limits</td>
<td>219</td>
</tr>
</tbody>
</table>

#### Kismatpur Vision Screening Centre, Kismatpur, Hyderabad

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>People screened</td>
<td>1,153</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>398</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>169</td>
</tr>
<tr>
<td>Cataract surgeries</td>
<td>2</td>
</tr>
<tr>
<td>Others/Within normal limits</td>
<td>584</td>
</tr>
</tbody>
</table>

#### School Screening Programs (SSP)

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of schools covered</td>
<td>12</td>
</tr>
<tr>
<td>No. of children screened</td>
<td>3,936</td>
</tr>
<tr>
<td>Identified with eye ailments</td>
<td>730</td>
</tr>
<tr>
<td>Treated for other conditions</td>
<td>195</td>
</tr>
<tr>
<td>Prescribed spectacles</td>
<td>143</td>
</tr>
<tr>
<td>Referred to base hospital</td>
<td>376</td>
</tr>
<tr>
<td>Social and educational rehabilitation</td>
<td>16</td>
</tr>
</tbody>
</table>
c. Providing Eye Care through Empowered People (PEEP) program

This project uses existing community based organizations and institutions for eye health financing activities. Under this self-financed eye care model anyone can register by paying a nominal fee of Re. 1 per month. Local self help groups (SHG) and community volunteers, called Vision Guardians, administer the scheme. With support from ORBIS International, India country office, and technical input by Andhra Pradesh Mahila Abhivruddhi Society (APMAS), Hyderabad, along with our partner in Sargur, Swami Vivekananda Youth Movement (SVYM), the project is being implemented in and around four mandals surrounding LVPEI’s first satellite facility, Bhojle Gopal Rao Patel Eye Centre, Mudhol in Adilabad district. Vision guardians attached to the project also conduct community surveys and facilitate service delivery.

An MoU was signed between LVPEI and Thanur Mandal Samakya (TMS) of Velugu; LVPEI has trained 24 community activists of TMS as vision guardians.

The PEEP project completed its second year and has been well received in the rural communities in Mudhol, Thanur, Bhainsa and Kuber mandals of Adilabad district, Andhra Pradesh. A strong partnership has developed with local self help groups (SHG), who are involved in the project’s implementation. The focus is on training SHG members on handling project funds and training one member from each group to work as a vision guardian.

The service cost recovery for the project has been 91% through payment by the community members. The project was launched on October 14, 2004.

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PERFORMANCE

| People registered | 10,484 | 28,363 |
| Households screened | 2,475 | 6,740 |
| Amount collected through registration and renewal (in Rs.) | 200,640.00 | 415,188.00 |
| Outpatients treated | 2,439 | 3,794 |
| Surgeries performed at Service Centre | 216 | 399 |
| Renewals for 2nd year | 3,738 | 4,757 |
| Households renewed for 2nd year | 848 | 1,110 |
| Renewals for 2nd and 3rd years | 1,318 | 1,377 |
| Households renewed for 2nd and 3rd years | 319 | 335 |
| Glasses sold through Vision Centres | 266 | 277 |
| Glasses sold through vision guardians | 378 | 521 |
| Patients referred from Vision Centres who visited the service centre | 162 | 203 |
| Vision guardians trained | 55 | 75 |
| SHG members trained | 96 | 119 |
| Teachers trained | 78 | 103 |

Survey being conducted at the village level
4. Tertiary Collaborating Centres — India

India Partners

- LVPEI - OEU Collaborating hospitals
- LVPEI - Rotary Partner hospitals
- Suryodaya Eye Centre, Kolkata
- Chandra Prabha Eye Hospital, Jorhat, Assam
- C L Gupta Eye Institute, Moradabad, Uttar Pradesh
- MGM Eye Institute, Raipur, Chattisgarh
- Bausch & Lomb Advanced Cataract Centres, Haldwani & Sri Ganga Nagar

Rotary Hospitals selected as Partners

- Dr. Shroff’s Charity Eye Hospital, New Delhi
- City Hospital & Eye Care Centre, Gurgaon, Haryana
- KLSM Rotary Eye Hospital, Udampur, Jammu & Kashmir
- Herbertpur Christian Hospital, Dehradun, Uttarakhand
- Tulasi Eye Hospital, Nasik, Maharashtra
- Rotary Charitable Hospital, Sirsi, Karnataka
- Ganga Mata Charitable Eye Hospital & Research Institute, Hardwar, Uttarakhand
- Vivekananda Memorial Hospital, Mysore, Karnataka
- Rotary Service Centre, Purulia, West Bengal

(Apart from the 10 partner hospitals, Rotary also has 70 other hospitals situated all over India).

LVPEI - OEU Collaborating hospitals

- Little Flower Eye Hospital, Angamaly, Kerala
- Koonamavu Annex Eye Hospital, Koonamavu, Kerala
- Assumption Eye Unit, Kanniporupuzha, Kerala
- St. Joseph’s Eye Hospital, Kothamangalam, Kerala
- Garnett Memorial Eye Hospital, Mettupalayam, Tamil Nadu
- Webster Memorial Eye Hospital, Gudulur, Tamil Nadu
- OEU Lions Eye Hospital, Shreeramnagar, Andhra Pradesh
- Arogyavaram Eye Hospital, Sompeta, Andhra Pradesh
- St. Gregorius Balagram Eye Hospital, Yacharam
- Indore Eye Hospital, Indore, Madhya Pradesh
- Siliguri Lions Eye Hospital, Siliguri, West Bengal
- Thakur Sitaram Seva Kendra, Malda, West Bengal
- Rotary Sunderlal Eye Hospital, Chadusi, Uttar Pradesh
- Mayadass Shivdass Rotary Eye Hospital, Kulu, Himachal Pradesh
- Dang Tribal Centre, Gujarat
a. Operation Eyesight Universal
L V Prasad Eye Institute is a global resource centre for Operational Eyesight Universal, Canada, and is working closely with 15 hospitals across India in developing infrastructure and human resources and implementing standard operating protocols to provide high quality and sustainable services to all sections of the community, irrespective of their ability to pay.

Performance during the year
- 49,963 outpatients screened at partner hospitals, 45,898 surgeries performed.
- 1,498 community and school screenings with 244,443 patients screened.
- Three partner hospitals achieved full ‘Operational Sustainability’.
- Rs 230 lakh revenue generated from optical shops and pharmacies at partner hospitals.
- Overall partner hospital revenues increased by 36%.
- Half of all hospital programs achieved 80% or better financial sustainability.

LVPEI initiatives with OEU support
OEU supported the setting up of two advanced tertiary centers L V Prasad Eye Institute, Bhubaneswar, Orissa and Visakhapatnam, Andhra Pradesh. The operation theatre complex and inpatient private rooms were renovated at the OEU Arogyavaram Eye Hospital, Sompeta. Vision Centres were opened in the Dang tribal area, they are run by Child Eye Care Charitable Trust.

Eye care professionals trained with support from OEU included Vision Technicians, OR Technicians, Eye Care Managers, Counselors, Medical Records Technicians, OR Nurses and Ophthalmologists.

b. Rotary Hospitals program
The year 2005 was a sentinel year for the Rotarians; they resolved to do 100,000 more cataract surgeries, in addition to what they were doing. They wanted all their hospitals to have uniform protocols for performing cataract surgery (pre-operative evaluation, sterilization, management of complications and follow-up) and monitoring and reporting of outcomes. Towards this objective ICARE – LVPEI conducted a series of Rotary Project Workshops in 2005, in which 80 Rotary hospitals from all over the country participated. In October 2006, 10 of these hospitals were selected as LVPEI’s working partners.

All Rotary hospitals continue to send reports of cataract surgeries to LVPEI. This being a joint project of Rotary and Operation Eyesight Universal (OEU), the costs of surgery are reimbursed once the outcome report is verified. A team from OEU/LVPEI randomly visited hospitals for quality control checks and evaluation during the year. The project ends in October 2007.

After the completing of this project, a capacity building exercise will be taken up for the tertiary collaborating centres partner 10 Rotary hospitals as mentioned above.

c. Suryodaya Eye Centre, Kolkata, West Bengal
L V Prasad Eye Institute is a global resource centre for Operational EyeSight Universal, Canada, and is working closely with 15 hospitals across India in developing infrastructure and human resources and implementing standard operating protocols to provide high quality and sustainable services to all section of the community, irrespective of their ability to pay.

d. Chandra Prabha Eye Hospital, Jorhat, Assam
L V Prasad Eye Institute is also involved in the capacity building of another modern tertiary care facility – the Chandraprabha Eye Hospital at Jorhat, Assam, providing comprehensive and quality eye care services to upper and northern Assam.

e. C L Gupta Eye Institute, Moradabad, Uttar Pradesh
L V Prasad Eye Institute has signed a Memorandum of Understanding
with C L Gupta Eye Foundation for capacity building for the C L Gupta Eye Institute, a modern tertiary eye care facility for western Uttar Pradesh. This institute is being promoted by C L Gupta & Sons, a leading brass exporter of the country. It is expected to become functional by mid 2008.

f. Bausch & Lomb advanced cataract care centres, North India
LVPEI is also involved in developing the Bausch & Lomb Advanced Cataract Centres in the underserved areas of northern India as a pilot project. The aim of the project is to provide high quality cataract care on a self-sustainable model. Two centres are functional now – at Haldwani, Nainital district, Uttarakhand, and at Sriganganagar in Rajasthan.

g. MGM Eye Institute, Raipur, Chattisgarh
LVPEI is involved in developing an eye health resource centre at Raipur for the state of Chattisgarh. The Institute has provided technical assistance to the Mikki Memorial Trust for developing the MGM Eye Institute in Raipur, which is a state-of-the-art tertiary eye care institute providing comprehensive and high quality eye care services to all sections of society, irrespective of economic status.

LVPEI's technical inputs were in the areas of design of the facility, human resource development for all cadres and implementing standard operational systems. At present the MGM Eye Institute provides cornea, glaucoma, retina, ocularplasty, and comprehensive ophthalmology services.

B. Research and Special Projects
1. Impact of Cataract Surgery on Quality of Life - A Qualitative Study in Andhra Pradesh, India

A pilot impact assessment study was conducted in 2004-2005 using the case study approach to understand the significant, long-term impact of cataract surgery on the quality of patients’ lives. This report presents the results of the study. The study was conducted in two phases: pre-surgery (baseline) and post-cataract surgery (Phase 1) on 50 men and women from two LVPEI rural service centres in Mahabubnagar and Adilabad districts, Andhra Pradesh, India. The study tools included an in-depth questionnaire for speaking one-on-one to participants and mini focus group discussions with family members and neighbors.

Of the 50 subjects interviewed at the baseline, 30 were operated upon. Of these, 16 had low vision (low vision range <6/18), 5 were blind (<3/60) in the better eye, and 9 subjects were normal in the better eye. Of the group, 17 were women and 20 were 60 years of age or older.

After surgery half of the subjects said their vision was less than maximum, as the second eye remained blurred. Yet they did not want to undergo surgery on the second eye. The other half said they would like to have surgery in the second eye in the hope of seeing better, improving their productivity and helping their family. One family member commented, “Having vision in one eye is like being able to walk on one foot!”

Pentaiah* is a 66-year-old widower who lives alone. His surgery outcome was poor, the visual acuity in the operated eye improved to 6/60. But the vision in the second eye had diminished from 3/60 to counting fingers. However, he felt that his overall vision had increased and was 3/4th of normal vision (the 1/4th reduction was attributed to the unoperated eye). He was happy and said he could now identify people from afar even without spectacles. Most importantly, he was able to resume working.

The reasons for indicating less than perfect vision included the blurred second eye (50% patients) and watering, itching or pain in the operated eye (1/3rd patients). Only four of the patients were dissatisfied with their vision after surgery.

Narayana*, a 70-year-old widower, lives with his son, daughter-in-law and three grandsons. His wife had died and his younger son had left the village in search of work. Narayana was depressed due to his blurred vision, which made him dependent on others. He became extra sensitive, feeling ignored and lonely. He had lost his self-confidence. Then Narayana’s son arranged for a cataract surgery. Post surgery, Narayana was more cheerful and said he did not feel depressed or isolated. Being able to function again on his own brought him peace of mind.

Narayana’s story shows how cataract surgery can make a positive and direct impact on daily living activities. All but one of the female subjects reported significant improvement in their ability to perform household tasks. Interestingly, half of the males were also excited about household activities. One man who lived alone started cooking after his vision improved.

The impact of surgery and the ability to work were closely tied to the economic situation of the family and the patient’s general health. Most patients were under pressure to contribute to the family.
Venkataramana*, 65, had a real estate business. His work involved a lot of travel and interaction with customers. After his vision diminished, he sold his motorbike. But he also missed buses because he could not read the numbers. He worried about how to start earning again. After surgery he says excitedly, “I can interact again with customers, recognize them and call them by name. I can manage my daily activities on my own.” Venkataramana works 30 days a month; he has bought a two-wheeler again and travels 25 kilometres a day. “Now I can support my family easily. My wife saves part of our income in a women’s saving group.”

The impact of improved vision on interpersonal relationships is clear. The ability to recognize people meant patients could interact confidently with family and friends. Even patients who did not report lower interaction earlier, now said they mingled more easily with others after surgery. They could also enjoy their leisure time by watching TV, etc.

Ramamma* is 70, a widow, and lives with her son’s family. She could not recognize people and objects from a distance, everything looked blurred. People often chided her for not addressing them properly; she felt hesitant to attend marriages and visit relatives and friends. She wanted to look after her granddaughter who was mentally challenged. After surgery she could recognize people and address them properly. She became more active, going to the tea stall, attending social events and prayer meetings and visiting relatives. She could help her grandchildren get ready for school. Her daughter-in-law said, “Now she can watch TV and also looks after my children. Though we are ready to help her, actually she does not need any help.”

Cataract surgery, and consequent better vision, can also have an impact on the patient’s spiritual life. For some, the ability to read holy books again (post surgery) while worshipping at home is important. Others prefer to attend religious events outside home or go on pilgrimages, which are important social commitments for them. What is clear, however, is that improvement in vision has a positive impact on spiritual life.

The study suggests that cataract definitely worsens the level of difficulty perceived in performing activities of daily living and the overall quality of life of an individual, while cataract surgery offers improvement in both areas. The impact of cataract surgery and the ability to work are also closely linked to timeliness of surgery, vision in the second eye, the family’s economic situation, and the patient’s general health.

(*Names changed)
2. CHILD to Child and CHILD to Family study

The CHILD to Child and CHILD to Family communication study focuses on the effectiveness of utilizing children for communicating eye health and eye care messages to other children and their families to influence their attitudes and practices on eye health care. The study is one of the projects under the Vision Cooperative Research Centre (Vision CRC) of Australia.

The pilot study was launched at a high school in the urban area of Ramnagar in Hyderabad. A total of 145 children were trained in basic vision screening and eye-health awareness communication skills, such as talking about health issues, making posters, and composing and singing songs on eye health. The children screened 2210 adults and children, identified 617 with eye ailments and referred them to the nearest Vision Centre. This was part of an ‘Eye Health Festival’, a component of the study.

The Knowledge, Attitudes and Practices questionnaire has been simplified and the manual of operations modified for teacher training. The main phase of the study will begin in June 2007 in selected districts of Andhra Pradesh.

3. Sight for Kids

The Sight for Kids Project is a collaborative initiative between Johnson and Johnson & Lions International. The project comprises teacher training, screening by trained teachers, and provision of refraction and referral services to primary and upper primary school children (5-9 years age group) in government schools in the Greater Hyderabad area. Eye health promotion and educational programs are also conducted in these schools. The project has 8 partner eye care facilities that are Lions or Lions affiliated hospitals. Technical support through training and standard screening protocol will initially be provided by ICARE. The second phase of the Sight for Kids study was completed on March 15, 2007.

The Sight for Kids project performance reports for 2005 – 2006 were presented to Ms Rebecca, Divisional Manager, and Mr Jimmy Ross, President, Lions Clubs International Foundation (LCIF), during December 2-4, 2006.

<table>
<thead>
<tr>
<th>Sight For Kids Phase II – June 2006 to March 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools covered</td>
</tr>
<tr>
<td>Teachers trained</td>
</tr>
<tr>
<td>Children screened by trained teachers</td>
</tr>
<tr>
<td>Persons screened by school screening teams</td>
</tr>
<tr>
<td>Identified with eye ailments</td>
</tr>
<tr>
<td>Found within normal limits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive error</td>
</tr>
<tr>
<td>Referred to Service Centres for treatment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectacles prescribed</td>
</tr>
<tr>
<td>Advised to continue with same spectacles</td>
</tr>
<tr>
<td>Referred to ophthalmologists</td>
</tr>
<tr>
<td>Vitamin A deficiency</td>
</tr>
<tr>
<td>Blepharitis</td>
</tr>
</tbody>
</table>

Note: This table refers only to school screenings under the Sight for Kids project. More SSPs on pages 28 & 29.
4. Diabetes Prevention Program in Prakasam district

The project, launched in May 2006, aims to provide health education regarding diabetes in Prakasam district (Andhra Pradesh) through a child-to-family communication strategy. The first term target for the project had been achieved by the end of February 2007.

During the first term the project trained 16,795 children and 974 teachers in 284 schools of 191 villages in 10 mandals of Prakasam district. The trained children created awareness about diabetes and screened 69,705 families and 279,363 persons till March 15, 2007. Members of 14 NGOs and 5,695 self help groups were also educated about diabetes. Eight primary health staff (physicians) from 6 primary health centres and urban health posts were trained and 23,606 persons at risk for diabetes were screened for blood and urine sugar; of these 3,546 were suspected to have diabetes during the project implementation period.

The review meeting and monitoring visit continued during the period. In March 2007 a two-day refresher training course was organized for field investigators of the project. Two invited guest lectures were given by Ms Sunitha Sapoor of Akshaya Foundation and Dr Sanjay Paul of Mohan’s Diabetic Foundation, on nutrition and diabetic counseling, respectively. The strategy to achieve the World Diabetes Foundation (WDF) targets were also revised. The project is supported by the World Diabetes Foundation.

5. Lions – LVP Capacity Building Project for diabetic eye disease

Diabetes-related blindness is a major public health problem in India since about two-thirds of the people with diabetes are likely to suffer from vision loss. In order to tackle diabetic retinopathy in Andhra Pradesh, L V Prasad Eye Institute has developed a capacity building program for 18 eye hospitals with support from Lions Club International over a 3-year period.

The project began in August 2005, and was formally launched by His Excellency Dr APJ Abdul Kalam on October 13, 2005.

<table>
<thead>
<tr>
<th>Screening Programs</th>
<th>193</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetic patients screened (hospital and outreach)</td>
<td>11,521</td>
</tr>
<tr>
<td>Patients identified with diabetic retinopathy</td>
<td>10,982</td>
</tr>
<tr>
<td>Patients treated</td>
<td>2,933</td>
</tr>
<tr>
<td>Patients referred for treatment</td>
<td>734</td>
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</table>

<table>
<thead>
<tr>
<th>Training Programs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-term fellows trained</td>
<td>6</td>
</tr>
<tr>
<td>Mid level ophthalmic assistants trained</td>
<td>7</td>
</tr>
<tr>
<td>Long-term fellows under training</td>
<td>1</td>
</tr>
<tr>
<td>Guest lectures</td>
<td>4</td>
</tr>
</tbody>
</table>

**Project Hospitals**

Lions Eye Hospital, Karimnagar; Lions Eye Hospital, Medak; R R Lions Eye Hospital, Palakol; Bollineni Eye hospital & Research Center, Nellore; Dr Ranga Reddy Lions Hospital, Hyderabad; Lions Dundoo Eye Hospital, Hyderabad; M Ram Reddy Lions Eye Hospital, Mahboobnagar; Operation Eyesight Universal, Shreeramnagar; Sadhuram Eye Hospital (Charitable Trust) & Post Graduate Institute of Ophthalmology, Hyderabad; Shankara Nethralaya Eye Hospital, Hyderabad; Lions Eye Hospital, Bodhan; Lions Eye Hospital, Dharmavaram; M S Reddy Lions Eye Hospital, Meerpet; Lions OEU Eye Hospital, Vizianagaram; Lions Club of Suryapet Eye Hospital, Suryapet
6. Impact assessment study of refractive error correction in children

The study focuses on the impact of refractive error correction on the life of children and on the utilization of spectacles in the existing system. The first two pilot phases of the study have been completed with focus group discussions; the main study is now under way. The study is supported by Vision CRC, Australia.

The baseline data and data on barriers to usage of spectacle has been compiled. Based on the barriers, 260 out of 276 subjects were provided spectacles; the others bought spectacles themselves. The study protocols were presented during the Vision CRC Workshop on February 4, 2007.

**PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Study Area</th>
<th>Schools Screened</th>
<th>Teachers Trained</th>
<th>Children Screened</th>
<th>Subjects</th>
<th>Peers</th>
<th>Parents</th>
<th>Teachers</th>
<th>Barriers</th>
<th>Total</th>
<th>Spectacles purchased</th>
<th>Spectacles given</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karamchedu</td>
<td>15</td>
<td>40</td>
<td>2197</td>
<td>70</td>
<td>210</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>490</td>
<td>1</td>
<td>69</td>
</tr>
<tr>
<td>Thoodukurthy</td>
<td>7</td>
<td>25</td>
<td>2410</td>
<td>74</td>
<td>222</td>
<td>74</td>
<td>74</td>
<td>74</td>
<td>518</td>
<td>8</td>
<td>66</td>
</tr>
<tr>
<td>Mudhol</td>
<td>6</td>
<td>20</td>
<td>1350</td>
<td>77</td>
<td>231</td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>539</td>
<td>1</td>
<td>76</td>
</tr>
<tr>
<td>Hyderabad</td>
<td>2</td>
<td>20</td>
<td>610</td>
<td>55</td>
<td>165</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>385</td>
<td>6</td>
<td>49</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
<td>105</td>
<td>6567</td>
<td>276</td>
<td>828</td>
<td>276</td>
<td>276</td>
<td>276</td>
<td>1932</td>
<td>16</td>
<td>260</td>
</tr>
</tbody>
</table>

7. Other Research Studies

A qualitative study at Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad district — **impact assessment of the services of a secondary level eye care facility** in a rural underserved area of Andhra Pradesh — has commenced. Field investigators have been trained as interviewers; the field work and data collection has been completed. A total of 600 subjects were interviewed and 20 Focus Group Discussions conducted. The data is being processed.

**A Rapid Assessment of Refractive Error study** (RARE) was completed in Mudhol. The study will provide a simple methodology for performing rapid assessment of refractive error in a population in the age group of 15-49 years.

C. Capacity Building

In order to address the issues related to childhood blindness in India and South-East Asia, ORBIS International has launched the third **Pediatric Ophthalmology Learning and Training Centers (POLTC)** program at LVPEI. The main objective of the 3½-year project (starting October 2006) is to train 5 Pediatric Eye Care Teams across India. Other objectives include training and skill development of the project staff/faculty, and capacity building of the two ORBIS partner hospitals in Andhra Pradesh. Apart from these, the project includes a component of research and awareness generation, such as school screening programs.

NTR Memorial Trust and LVPEI have signed an MoU to address eye care related issues in Mahaboobnagar district. The Trust will identify and bring patients with eye problems to primary and secondary service centres, provide surgical and medical care and ensure post-operative follow-up, such as provision of medicines and/or spectacles. Till February 2007, 564 patients had been brought to Service Centres, 144 surgeries had been performed and 132 spectacles delivered. Similarly, 1250 patients were seen at the Vision Centres (Nagarkurnool and Wanaparthy), of which 229 were provided spectacles. Significantly, the number of screenings and sales of spectacles has doubled at these Vision Centres since December 2006 after the collaboration with NTR Trust.

**Comprehensive Capacity Development Project for Lions Eye Hospitals in Andhra Pradesh – Lions Sight First Project – 1012**

This project was initiated in March 2004; a total of six Lions Eye Hospitals participated in the same. Two of these hospitals were provided the accompaniment program. Various cadres of eye care professionals were trained at LVPEI.

D. Education

The 6th **Diploma Course in Community Eye Health** (DCEH) concluded on June 28, 2006. Of the 16 students, two were from Oman and Zambia. The 7th Diploma Course in Community Eye Health started in January 2007; there are 17 students, including one from abroad.

Prof Stephen Dain and Dr Catherine Suttle from the University of New South Wales, Sydney, were at ICARE – LVPEI in November 2006, to study the prospect of expanding the Diploma in Community Eye Health course into a **Master’s Program in Community Eye Health**, affiliated to the University of New South Wales, Australia.

A **school eye health training program** was conducted for 28 teachers from Sri Vidyaranya Awasa Vidyalayam, Sri Sardadhamam, Bandlaguda village, Rangareddy district, in May. A similar program was held for 200 teachers of Saraswathi Vidya Peetam Shri Saradhamba in May and at Mother’s High School, Ramnagargundu, Hyderabad, in June 2006.
The 2nd Paramedical Ophthalmic Assistants Refresher Course was conducted in June – July 2006 with 24 participants from government hospitals. The program is supported by the National Program for the Control of Blindness, Andhra Pradesh.

A Field Investigators training program for the ‘Impact of Refractive Error Correction study’ was held in August at the ICARE campus; 9 investigators from Thoodukurthy, Mudhol and Karamchedu Eye Centres participated.

The Vision Technicians’ six month review meeting was conducted in September at ICARE, in which 26 Vision Technicians from Thoodukurthy, Mudhol, Adilabad and Karamchedu Eye Centres participated.

A Vision Guardians training program was organized in September in collaboration with NTR Memorial Trust, Hyderabad; 15 volunteers participated in the program. A two-day Vision Volunteers training program was held in December with support from the NTR Memorial Trust, Hyderabad. Another training program was held in March. The volunteers who participated will be placed in the vicinity of LVPEI’s partner eye hospitals in Hyderabad: Ramnagar, Moula Ali, Begum Bazar and Balanagar.

E. News & Events

The Bhosle Gopal Rao Patel Eye Centre, Mudhol, LVPEI’s first rural satellite centre celebrated its tenth anniversary on December 20, 2006 with a program honoring some of the long serving staff of the center. Mr P G Michael, formerly of Christoffel Blindenmission, Germany, and Mr D Nagarajan, formerly of Sight Savers International, UK, who provided tremendous support in starting the center, were the guests of honor.

The eighth anniversary celebrations of the Kuchukulla Ramachandra Reddy Eye Centre at Thoodukurthy, an LVPEI satellite, were held on October 24, 2006. This center, like the Mudhol center, is located in a very backward district of Andhra Pradesh state and has done yeoman service to those with vision problems in the area. Both centers now have a full complement of 10 Vision Centres within a radius of 50 km, that provide primary eye care to the catchment population.

The Venkata Lakshmi Eye Centre, Karamchedu, celebrated its fourth anniversary on June 7, 2006.

Sarva Shiksha Abhiyan

In a collaborative program with Sarva Shiksha Abhiyan (a government program) in Mudhol, Adilabad district of Andhra Pradesh state, LVPEI’s service centres and Vision Centres will screen all children in the Mudhol region and provide them spectacles free of cost. Under this program, 162 spectacles have been distributed so far in 41 villages and 85 schools situated around 4 Vision Centres, while 38 children were referred to Service Centres. The Sarva Shiksha Abhiyan will reimburse the cost of spectacles.

Unite for Sight

Unite for Sight (UFS) is a non-profit organization working with communities worldwide to improve eye health and eliminate preventable blindness. Volunteer teams work with partner eye clinics in developing countries to provide eye care and eye health education. During July 2006, 11 young volunteers of UFS participated in community eye care activities organized by LVPEI’s Hyderabad Outreach Urban Slums Eye care Program (HOUSE). They conducted door-to-door surveys to identify people with eye ailments and assisted in community and school screening programs.

International visits

In May 2006 some members of the Latter-Day Saint Charities, Salt Lake City, Utah (USA), visited LVPEI. They were Dr Walter M Sonntag, Mrs Diane Sonntag, Ms Taffy Johnson and Ms Karen Sawyer. The team visited the service centers at Thoodukurthy and Adilabad and the Vision Centre at Nagarkurnool. They also visited the proposed Vision Centre locations at Jainad and Namoor in Adilabad district, which are to be supported by LDS Charities. Over the next few years LDS Charities will support the setting up of 20 Vision Centres.

The ICARE team visited Tanzania as part of a joint initiative by the International Agency for Prevention of Blindness (IAPB) and Carl Zeiss to explore the possibility of developing a regional training centre in a selected eye hospital. LVPEI is also involved in developing a secondary eye centre in Nekempte town in Oromiya region of Ethiopia, and will be responsible for the training, monitoring and evaluation of the project.

Hyderabad Health and Development Program

A comprehensive health care service delivery and community development program for underprivileged communities was launched at Indramma Nagar, Rasoolpura, Hyderabad, in July 2006. The Vision Centre cum Health Post project is supported by Operation Eyesight Universal, Canada, and is conducted in collaboration with Gandhi Medical College, Association for Promoting Social Action (APSA), Akshaya Foundation, and other social service organizations of Hyderabad.

F. Community Eye Health Journal

Three issues (10th, 11th & 12th) of the Community Eye Health Journal — Indian supplement, published under the aegis of the VISION 2020 Indian Forum, were distributed to about 5000 readers all over the country and in neighboring countries, including Pakistan, Nepal, Zambia, Bangladesh and Sultanate of Oman.
The real measure of everything we do is its impact on patients’ lives. Medical and surgical interventions here are based on the latest know-how tempered with compassion and a concern for the real contexts that patients come from and must go back to. Whether it is helping a student realize his ambitions or taking a family from despair to hope, or making a young man feel good about himself again, our clinicians are clear about one thing — they do not treat eyes, they treat people.
Relief for an elderly patient

Mrs Shanti Nayak came to L V Prasad Eye Institute, Bhubaneswar, complaining of severe irritation, redness and pain in her right eye following cataract surgery (done elsewhere). She had consulted various ophthalmologists with little or no relief from her symptoms.

A comprehensive examination at the Institute showed that though she had a successful cataract surgery, the right eye’s lower eyelid had turned inwards (entropion), and the lower lid eyelashes were rubbing against her cornea (Figure 1). The irritation caused her to squeeze her eye, leading to more damage, thus setting off a vicious cycle of irritation, spasms and more irritation. A conversation with her cataract surgeon revealed no pre-existing eyelid abnormality.

Eyelid abnormalities like ptosis and inturning, though rare, can occur after cataract surgery. Her spastic entropion of the right lower eyelid was probably consequent to the cataract surgery. While a surgical correction is ideal treatment for such inturning, Mrs Nayak was still recovering from her cataract surgery, and was unwilling to undergo another surgery so soon.

Botulinum toxin, a muscle-relaxing injection, came to her rescue. Botulinum toxin (Botox) is derived from a bacteria *Clostridium botulinum*, and causes temporary relaxation of the muscle into which it is injected. The toxin was injected into the spastic muscle in the right lower eyelid (Figures 2 & 3). A partial relaxation of her spastic muscle helped break the cycle of irritation and relieved her symptoms. Mrs Nayak was jubilant when she was examined a week after the injection — the right lower eyelid was now in the normal position.

A recurrence of the inturning would be dealt with surgical correction in future, but Botulinum toxin prevented aggravation of symptoms during her healing phase. Mrs Nayak, happy with her vision and relieved from her symptoms, is now eager to improve the vision in her left eye with a secondary intraocular lens implantation.
A prayer answered

On the wings of a prayer, all the way from Madagascar, came Pastor Noro in the hope of a new life for her 13-year-old son Rabarijaona R Harena. The boy’s father Rakotovao Noro Heritiana is also a pastor. An only child, Harena noticed problems with his vision when he was 10 and had to write an important board exam. He struggled with geometry; his teacher said he couldn’t draw fine lines despite using spectacles.

An ophthalmologist identified his condition as keratoconus and advised an immediate corneal transplant (penetrating keratoplasty). Since such surgeries are not performed in Madagascar, the family explored the option of France, but found the costs exorbitant. It was then that Josephine and her father Douglas helped put the pieces into place.

Harena’s journey to LVPEI is an interesting story. Pastor Noro’s neighbour in Madagascar, Josephine, asked her father Douglas Soderdahl (a urologist working in Honolulu, Hawaii) for help. Douglas turned to his friend in Kenya for advice; he referred Douglas to Dr David Yorston (UK), who pointed them to LVPEI, India.

After extensive correspondence between Douglas and LVPEI, everything fell into place. With the help of friends and local associations, the pastor couple raised travel expenses for Harena and his mother. They sought some concessions in the treatment expenses at the hospital — the Chairman of LVPEI responded by waiving all charges and surgical fees!

When Harena was examined at LVPEI his visual acuity was very poor. He could see objects hazily at a distance of 3 meters from the right eye and at only one meter in the left eye, which put him in the category of blindness. He was diagnosed with keratoconus left eye more than the right eye. His vision improved significantly when he was given a gas permeable lens in the right eye. Hence a penetrating keratoplasty was performed on the left eye and Harena’s vision improved noticeably.

Harena and his mother stayed at the Institute for several days till the doctors were satisfied with his operated eye. Just before he returned home, doctors found the visual acuity in his left eye had improved to 20/70 — about 75% of normal vision.

Harena’s story can be summarized in two mails from the many, many written by Douglas:

From despairing mails such us: Honestly, I don’t know HOW to commence the process of referral of this unfortunate lad with keratoconus, rapidly deteriorating to blindness, and having been evaluated by the University of Antananarivo in Madagascar, where NO corneal transplants are done.

To ecstatic ones like: God bless you! I think that the prayers of many hundreds if not thousands, have been answered with such wonderful success! … You are involved in such worthy work! I know that you are enjoying MUCH personal satisfaction as you give and give again in this way…. Hence forward, the fame of L V Prasad Eye Institute will be extraordinarily high in all of M!

Harena means ‘richness’, the boy is an avid reader and is delighted with his improved vision. He wants to study and become a magistrate because, he says, “pastors are poor, but magistrates are rich!” Pastor Noro says it was a “big help” that the Institute waived all charges! The family has a lot of Indian friends back home. She adds that her LVPEI, India, experience has been "Tres bien!"
Like any young student of medicine, Kiran Kottukaran nurtured a host of ambitions. He wanted to specialize in cardiology, he wanted to learn as much as he could in college, and he wanted to use his knowledge and skills to save lives. But while in medical college, in 1991, he began having trouble with his vision. He found that he had a vision-threatening corneal dystrophy. “Things began to deteriorate, and soon my eyesight was so poor that I could not even cross the road without help,” recalls Kiran.

At the behest of friends and colleagues, Kiran came to L V Prasad Eye Institute, Hyderabad, where a corneal specialist examined him. The regular treatment for his condition was standard corneal transplantation or penetrating keratoplasty, but he was advised to consider a new procedure called deep lamellar keratoplasty (DLKP), that has evolved only in the last decade.

Unlike penetrating keratoplasty, DLKP works on the philosophy of ‘selective corneal transplantation’, i.e., changing only those layers of the cornea that are diseased. Even though it is a technically more demanding surgery, this procedure is preferred in corneal disorders that selectively involve the outer layers of the cornea. Unlike conventional corneal transplantation, DLKP has fewer post-operative restrictions, allows for quicker recovery and minimizes dreaded complications such as graft rejections, glaucoma and infections.

“It just seemed that life would be much easier, postoperatively, so I decided to go for it,” says Kiran. With his consent, the surgeon performed deep lamellar keratoplasty in the right eye.

“When the bandage was removed the day after surgery, I could actually recognize the person sitting across from me! It was fabulous!” The excitement of that day can still be heard in his voice. In less than three months after surgery, Kiran was able to go back to work in the cardiology unit of his hospital, see OPD patients, and manage a near-normal work schedule.

“I’ve had to keep my ambitions in check and, suddenly, everything seemed possible again,” he says. As a student with failing vision, he often had to depend on what he remembered from lectures to write his exams, as he found reading too difficult. “I had adapted quite well, but there were still many things that had become impossible with the vision I had.” Not any more, though.

“The difference between my right and left eye was amazing — vision in the operated eye was really good, and I could tell in comparison my left eye was deteriorating.” Once the vision stabilizes in the operated eye, Kiran wants to undergo the same procedure in his left eye. Kiran had stopped working as he couldn’t read ECG strips but, a few weeks after surgery, he was able to resume work.
An eye for an eye
Ocular Prosthesis Services complete five years

A 19-year-old patient Nagi Reddy came to L V Prasad Eye Institute from West Godavari with great hope. He had lost his right eye some time ago, following open globe injury. After a routine check-up with an ophthalmologist, who diagnosed him with a phthisical globe (shrunken eye), Nagi Reddy was referred to the Ocularistry Services for cosmetic improvement.

The ocularists counseled him, explaining the advantages of a custom-made ocular prosthesis and showing photographs of other satisfied patients. Convinced, Nagi Reddy consented to the ocular prosthesis. The same day ocularists prepared a prosthesis from an impression of his ocular cavity. The customized ocular prosthesis transformed Nagi Reddy’s right eye, giving it a life-like appearance.

This was just one of the cases successfully managed by the Ocularis Services, established in 2002 to offer cosmetic improvement to thousands of patients who have lost their vision irrevocably. Patients are worried that the artificial eye will look unnatural and be uncomfortable to wear. The Ocular Prostheses Services clinic at LVPEI designs customized prostheses for patients with anophthalmic sockets or disfigured eyes, thus boosting their self-esteem and confidence. This offers hope for patients who are otherwise reluctant to have the diseased eye removed.

The prostheses available in the market are usually of poor quality, and may not match the patient’s eye cavity configurations & external appearance, causing discomfort, unequal weight distribution, constant irritation of the corneal surface, and unnatural appearance. It can also cause chronic discharge from the eyes and laxity of the lower eyelid over the long term.

A custom-made impression-based prosthesis offers a better fit in line with the orbital soft tissue, allowing for no space or accumulation of the tear fluid. The close contact with orbital tissue conditions the socket, reducing mucous secretion from the cavity. Using dry earth pigments, cotton rayon threads and lamination of the surface with medical grade PMMA (Poly Methyl Methacrylate), ocularists give a life-like appearance to the prosthesis, offering a better look and reduced discomfort right from the first day. Moreover it allows correction of deep superior sulcus, mild degrees of blepharoptosis and acceptable cosmesis in socket with cicatricial bands.

This year the clinic completed five years, having served over 5000 patients — from 13-day-old babies to 97-year-old patients. Almost 80 percent of these were patients, who couldn’t pay or were from the middle class. Custom made prosthesis was given to 4010 patients, custom socket expanders to 1008, orbital prosthesis to 42 patients and ptosis crutch glasses to 76 patients.
Central Audio-Visual Unit

The highlight of the year was the prestigious ‘Best of Show’ award earned at the American Academy of Ophthalmology’s Annual Conference at Las Vegas 2006 for the video ‘Enucleation by the Myoconjunctival Technique’ authored by Dr Santosh G Honavar and Dr Savari Desai.

Marking a new phase in the ORBIS-LVPEI collaboration, Multimedia staff SBN Chary, Chalamala Jangaiah, Gangadhar Jalli and Govardhan Kolli served as volunteers in the Audio-Visual Unit on board the ORBIS Flying Eye Hospital, completing a total of 10 Missions between them in Africa, China and South-East Asia. Audio-visual producer Shobha Mocherla received a grant from ORBIS International to visit video units in federal and non-governmental organizations in the USA.

A trade stall for showcasing and sale of medical surgical, instructional and patient education videos produced by LVPEI was set up during Sunayana 2007, the All India Ophthalmological Society annual conference, held in Hyderabad, February 1-4, 2007.

Videos Produced – 18

- Shorts on LVPEI – documentary footage re-edited, by Dr Usha Raman and Dr V S Sangwan
- Manual sutureless cataract surgery for mature cataract – Dr Anil K Mandal
- Manual sutureless SICS in phacolytic glaucoma – Dr Anil K Mandal
- Considerations in pediatric cataract surgery – Dr Sushma Tejwani
- 10 minutes 4 questions – interpret OCT – Dr Avinash Pathengay
- Enucleation – myoconjunctival technique – Dr Santosh G Honavar
- Management of intracameral bleeding during surgery for infantile glaucoma – Dr Anil K Mandal
- Blumenthal MSICS in hypermature cataract: Alternative technique for developing world – Dr Rohit Khanna
- Pediatric penetrating keratoplasty – Dr Merle Fernandes
- Too thin to zap: What next? – Dr Merle Fernandes
- Two rings and an intraocular lens implant – all in the bag – Dr Merle Fernandes
- Retinoblastoma: Catch the disease early, save a child’s life – Dr Santosh G Honavar
- Health tourism – heading for LVPEI – Dr Rahul Ali and Sam Balasundaram
- Dancing nematodes in the eye – Dr Avinash Pathengay
- Donor cornea evaluation – Dr Pravin Vaddavalli Krishna
- Management of pterygium – Dr V S Sangwan, Dr Sushmita Shah
- Horizontal rectus recession & resection (cul-de-sac) – Dr Ramesh Murthy
- Nocardial keratitis after LASIK – Dr Balasubramanya Ramamurthy

Videos Edited – 468
Training has now taken on a new dimension at LVPEI, with the Education Centre offering a wide variety of programs apart from the traditional subspecialty fellowships and observerships. Drawing from our engagement in the field, both within India and globally, we have developed programs that are increasingly attracting professionals from across regions, specializations and levels of eye care service delivery. The uniqueness of our programs is their relevance to the world of practice and to addressing the gap in human resources in eye care in underserved areas both in India and abroad.
Our Education Centre’s recognized capability to provide comprehensive in-depth training programs attracts ophthalmologists and other eye care professionals from across India and the world. This year we had participants from Australia, China, Malaysia, Nepal, Nigeria, Pakistan, United Kingdom, USA, Vietnam and Zambia, as well as from all over India. Our training programs cover eye care personnel at all levels – front office, counselors, ophthalmic nursing assistants, administrators, vision technicians, optometrists and ophthalmologists. The Education Centre also coordinates the training of candidates for LVPEI’s rural secondary and primary care centres.

As part of our collaboration with ORBIS International we have initiated and launched the Pediatric Ophthalmology Learning and Training Center program (POLTC) in October 2006 to address issues related to childhood blindness in India and South East Asia. The main objective of the 3½ year project is to train 5 pediatric eye care teams from across India.

This year too eminent guest faculty visited the Institute and shared their experiences and perceptions with the faculty and staff. This exposure to a great wealth of knowledge from around the world is a great boon to our group.
Ophthalmology Training Programs

Cornea & Anterior Segment (15 months)
- Dr Syed Maaz Mohiuddin, Hyderabad, Andhra Pradesh
- Dr Aneeta Jabbar, Kozhikode, Kerala
- Dr Sunita Chourasia, Ghaziabad, Uttar Pradesh
- Dr Vu Thi Tue Khanh, Hanoi, Vietnam
- Dr Aditi Biyani, Mumbai, Maharashtra
- Dr Meghna K Chandrakar, Mumbai, Maharashtra

Cornea & Anterior Segment (3 months)
- Dr Thang Diep Huu, Ho Chi Minh, Vietnam
- Dr Rupa Jain, Salatwada, Vadodara
- Dr Sunil Kumar Thangaraj, Visakhapatnam, Andhra Pradesh
- Dr Rushit H Sheth, Rajkot, Gujarat
- Dr Manish R Kadam, Vadodara, Gujarat
- Dr Md Saifullah, Dhaka, Bangladesh

Glaucoma (15 months)
- Dr Debasish Chakrabarti, Kolkata, West Bengal
- Dr K P Narendra, Sringeri, Karnataka

Glaucoma (3 months)
- Dr Trang Thanh Nghiep, Ho Chi Minh, Vietnam
- Dr Vinita Ramnani, Bairagarh, Bhopal
- Dr Indra Man Maharjan, Pokhara, Nepal
- Dr Chanda Shahani, Kutch, Gujarat
- Dr Elizabeth Varghese, Kothamangalam, Kerala
- Dr Debabrata Halderthe, Kolkata, West Bengal

Retina Vitreous (15 months)
- Dr Saumil Sharad Sheth, Mumbai, Maharashtra
- Dr Tariq Reza Ali, Dhaka, Bangladesh
- Dr Sushma Raja, Hyderabad, Andhra Pradesh

Retina Vitreous (3 months)
- Dr R S Vinay Kumar, Mahaboobnagar, Andhra Pradesh
- Dr Oluleye Tunji Sunday, Ibadan, Nigeria
- Dr Sana Ullah Jan, Peshawar, Pakistan
- Dr Srinivasulu, Dharmavaram, Andhra Pradesh
- Dr Velalanda Raghu, Karimnagar, Andhra Pradesh

Comprehensive Ophthalmology (3 years)
- Dr Partha Pratim Pal, Agartala, Tripura
- Dr Manjunath D Patil, Solapur, Maharashtra
- Dr Manish Malhotra, New Delhi
- Dr Prashant Gupta, Aligarh, Uttar Pradesh
- Dr Prateek Teotia, Mumbai, Maharashtra
- Dr Bhavleen Kaur, Chandigarh
- Dr Jayasudha, Gulbarga, Karnataka
Comprehensive Ophthalmology (1 year)
Dr V Ravi Kumar Visakhapatnam, Andhra Pradesh

Comprehensive Ophthalmology (3 months)
Dr Alok Pratap Singh Gorakhpur, Uttar Pradesh
Dr Ch Manimala Tanuku, Andhra Pradesh

Pediatric Ophthalmology (15 months)
Dr Siddarth Kesarwani New Delhi
Dr Manish Shyamkul Mumbai, Maharashtra

Pediatric Ophthalmology (3 months)
Dr Mahesh Guntur, Andhra Pradesh
Dr Dupe Popoola Ilorin, Nigeria

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology (15 months)
Dr Vikas Menon Amritsar, Punjab
Dr Sima Das New Delhi

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology (3 months)
Dr Rahul Deshpande Pune, Maharashtra
Dr Maj B V Rao Hyderabad, Andhra Pradesh

Retina Laser (1 month)
Dr Praful Gangashnakar Nakar Dhule, Maharashtra
Dr Arul Malar Chennai, Tamilnadu
Dr Jasprit Singh Hans Patiala, Punjab
Dr Renu Dhasmana Dehradun, Uttaranchal
Dr Sonia Nankani Mumbai, Maharashtra
Dr Challa Jagannath Tirupati, Andhra Pradesh
Dr Naeem Hussain Hyderabad, Andhra Pradesh
Dr Brijesh Panwar Hissar, Haryana
Dr Manoj Khatri Chennai, Tamilnadu

Phacoemulsification (1 month)
Dr Rajeeta Rani Jaiswal Hyderabad, Andhra Pradesh
Dr Kavitha Patil Narkatpally, Andhra Pradesh
Dr R C Mishra Dhanbad, Jharkand
Dr P B Dhasnaga Chandrapur, Maharashtra
Dr Raman Mehta Kolkata, West Bengal
Dr (Cap) Chandra Praksh Patel Berhampur, West Bengal
Dr Ashok Kumar Hazaribagh, Jharkhand
Dr Chinmoyee Deka Dimapur, Nagaland
Dr Ch Chandrasekhar Markapur, Andhra Pradesh
Dr Saima Jalal Rochester, USA
Dr Mamata Choudhury Hyderabad, Andhra Pradesh

Retinopathy of Prematurity (1 month)
Dr G V Narendra Vijayawada, Andhra Pradesh
Dr Sudhindra Kolar, Karnataka
Dr Dhiraj Jaiswal Nagpur, Maharashtra
Dr Rooshitha B Singh Nagercoil, Tamilnadu
## Manual Small Incision Cataract Surgery (MSICS) (2 months)

<table>
<thead>
<tr>
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<th>Location</th>
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<tbody>
<tr>
<td>Dr Manga Venkat</td>
<td>Visakhapatnam, Andhra Pradesh</td>
</tr>
<tr>
<td>Dr P Rajani</td>
<td>Proddatur, Andhra Pradesh</td>
</tr>
<tr>
<td>Dr Prawesh Jhaveri</td>
<td>Mumbai, Maharashtra</td>
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<tr>
<td>Dr Vasanti D Kulkarni</td>
<td>Mumbai, Maharashtra</td>
</tr>
<tr>
<td>Dr Shashidhar Pershad</td>
<td>Hyderabad, Andhra Pradesh</td>
</tr>
<tr>
<td>Dr Muralinmonohar Reddy</td>
<td>Hyderabad, Andhra Pradesh</td>
</tr>
<tr>
<td>Dr Ashesh Bajaj</td>
<td>Chanderghar</td>
</tr>
<tr>
<td>Dr Rahul Bhargav</td>
<td>Palampur, Himachal Pradesh</td>
</tr>
<tr>
<td>Dr Prachi Barkute</td>
<td>Mumbai, Maharashtra</td>
</tr>
<tr>
<td>Dr Maya Saxena</td>
<td>Vidisha, Madhya Pradesh</td>
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<tr>
<td>Dr Manorama Singh Agarwal</td>
<td>Gorakhpur, Uttar Pradesh</td>
</tr>
<tr>
<td>Dr B V R Patnaik</td>
<td>Tanuku, Andhra Pradesh</td>
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<tr>
<td>Dr Anand Gawri</td>
<td>Muktsar, Punjab</td>
</tr>
<tr>
<td>Dr Sachala Bhoi</td>
<td>Sambalpur, Orissa</td>
</tr>
<tr>
<td>Dr K Krishna Prasad</td>
<td>Mangalore, Karnataka</td>
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<tr>
<td>Dr N Ratna Kumari</td>
<td>Vizianagaram, Andhra Pradesh</td>
</tr>
<tr>
<td>Dr Felix Chen</td>
<td>Chongqing, China</td>
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## LVP - ZEISS Academy: Comprehensive Eye Evaluation and Diagnostic Techniques (1 month)

This is a unique program to expose ophthalmologists in training and practice to proper methods of eye evaluation.

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<thead>
<tr>
<th>Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Dr Aparna Dornadula</td>
<td>Hyderabad, Andhra Pradesh</td>
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<tr>
<td>Dr Paramesh Bharali</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Subhra Agarwala</td>
<td>Guwahati, Assam</td>
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<td>Dr Parina Deb Roy</td>
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<td>Dr Mrinal Modhur Borgohain</td>
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<td>Dr Swapnali Sabhapandit</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Soma Paul</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Poonam Singh</td>
<td>Jamshedpur, Jharkhand</td>
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<tr>
<td>Dr Santosh Jajodia</td>
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<td>Dr Samir Kumar Patro</td>
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<td>Dr Parameshwar Jena</td>
<td>Berhampur, Orissa</td>
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<tr>
<td>Dr Sucharita Das</td>
<td>Sambalpur, Orissa</td>
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<tr>
<td>Dr Nibedita Sahu</td>
<td>Sambalpur, Orissa</td>
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<tr>
<td>Dr Lokesh Kumar Jalan</td>
<td>Dhanbad, Jharkhand</td>
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<tr>
<td>Dr Sanjiv Kumar Puri</td>
<td>Madurai, Tamilnadu</td>
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<tr>
<td>Dr Sangeeta Dadas</td>
<td>Dehradun, Uttaranchal</td>
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<tr>
<td>Dr Raja Maheshwari</td>
<td>Dehradun, Uttaranchal</td>
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<tr>
<td>Dr Rashmi Srivastava</td>
<td>Varanasi, Uttar Pradesh</td>
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<tr>
<td>Dr Amit Raj</td>
<td>Varanasi, Uttar Pradesh</td>
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<tr>
<td>Dr Manjula</td>
<td>Hyderabad, Andhra Pradesh</td>
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<tr>
<td>Dr Sanjeeb Kumar Roy</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Tulika Baruah</td>
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<td>Dr Barun Kakoty</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Abhishek Sharan</td>
<td>Meerut, Uttar Pradesh</td>
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<tr>
<td>Dr Vikrant Sharma</td>
<td>Meerut, Uttar Pradesh</td>
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<tr>
<td>Dr Jhumur Choudhury</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Meghali Sarma</td>
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<td>Dr Hiranmoyee Das</td>
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<td>Dr Gaurav Gupta</td>
<td>Meerut, Uttar Pradesh</td>
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<td>Dr Prasanna Jit Das</td>
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<td>Dr Shyamal Saha</td>
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<tr>
<td>Dr Pankaj Baruah</td>
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49
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State/Province</th>
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<tbody>
<tr>
<td>Dr Laxmidhar Jena</td>
<td>Berhampur, Orissa</td>
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<tr>
<td>Dr Erika Damato</td>
<td>Gayton, UK</td>
</tr>
<tr>
<td>Dr Bharti Arya</td>
<td>London, UK</td>
</tr>
<tr>
<td>Dr Sushobhan Das Gupta</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Simi Das</td>
<td>Guwahati, Assam</td>
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<tr>
<td>Dr Shahnur Tayab</td>
<td>Guwahati, Assam</td>
</tr>
<tr>
<td>Dr Sarika Gupta</td>
<td>Meerut, Uttar Pradesh</td>
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<tr>
<td>Dr Parul Goel</td>
<td>Meerut, Uttar Pradesh</td>
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<tr>
<td>Dr Karan Sarwal</td>
<td>Bhatinda, Punjab</td>
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<tr>
<td>Dr Sasmita Agasty</td>
<td>Burla, Orissa</td>
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<tr>
<td>Dr Omega Priyadarshini</td>
<td>Burla, Orissa</td>
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<tr>
<td>Dr Rashmi Rekha Dash</td>
<td>Burla, Orissa</td>
</tr>
<tr>
<td>Dr Arvind Roy</td>
<td>Cuttack, Orissa</td>
</tr>
<tr>
<td>Dr Sameera Naik</td>
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<td>Dr Rashmi Rath</td>
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<td>Dr Youpi Borgohain</td>
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<td>Dr Chandana Kakati</td>
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<td>Dr Dipankar Chakraborty</td>
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<tr>
<td>Dr Vijay Laxmi Raghav</td>
<td>Meerut, Uttar Pradesh</td>
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<tr>
<td>Dr Neha Mittal</td>
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<tr>
<td>Dr Abul Arfa Mohammad</td>
<td>Aligarh, Uttar Pradesh</td>
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<tr>
<td>Dr Ashwini Suhas Rao</td>
<td>Hyderabad, Andhra Pradesh</td>
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**LVP - ZEISS Advanced Course in Ophthalmic Diagnostics (15 days)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Suburban Area, State/Province</th>
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<tbody>
<tr>
<td>Dr Rajeev Gupta</td>
<td>Gwalior, Madhya Pradesh</td>
</tr>
<tr>
<td>Dr Bharti Arya</td>
<td>London, UK</td>
</tr>
<tr>
<td>Dr P Krishna Prasad</td>
<td>Visakhapatnam, Andhra Pradesh</td>
</tr>
</tbody>
</table>

**Preceptorship**

<table>
<thead>
<tr>
<th>Name</th>
<th>Suburb, Country</th>
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</thead>
<tbody>
<tr>
<td>Ms Pauline Kang</td>
<td>University of New South Wales, Sydney, Australia</td>
</tr>
<tr>
<td>Ms Yumi Ogura</td>
<td>University of New South Wales, Sydney, Australia</td>
</tr>
<tr>
<td>Ms Nisha Sharma</td>
<td>University of New South Wales, Sydney, Australia</td>
</tr>
<tr>
<td>Mr Kymo El Ghitany</td>
<td>University of New South Wales, Sydney, Australia</td>
</tr>
<tr>
<td>Mr Adam Kelly</td>
<td>University of New South Wales, Sydney, Australia</td>
</tr>
<tr>
<td>Mr Kevin J Adams</td>
<td>University of New South Wales, Sydney, Australia</td>
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</tbody>
</table>

**Observership**

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Dr Pervez Ahmad</td>
<td>Srinagar, Kashmir (Retina)</td>
</tr>
<tr>
<td>Ms Nirav K Gala</td>
<td>Mumbai, Maharashtra (Low Vision)</td>
</tr>
<tr>
<td>Dr Jeremy Keenan</td>
<td>Chicago, USA (Eye Bank)</td>
</tr>
<tr>
<td>Dr Deepali Tewari</td>
<td>Baroda, Gujarat (Cornea)</td>
</tr>
<tr>
<td>Mr Vishwan Pamartth</td>
<td>Chapel Hill, USA (Business Model Development)</td>
</tr>
<tr>
<td>Dr Shweta Karandikar</td>
<td>Nagpur, Maharashtra (Cornea)</td>
</tr>
<tr>
<td>Dr Shaily Mishra</td>
<td>New Delhi (Cornea)</td>
</tr>
<tr>
<td>Dr Vimal Fudnawala</td>
<td>Baroda, Gujarat (Cornea)</td>
</tr>
<tr>
<td>Dr Ravishanker</td>
<td>Hyderabad, Andhra Pradesh (Cornea - AMG)</td>
</tr>
<tr>
<td>Mr Alok A Bhandari</td>
<td>Visnagar, Nagaland (Contact lens)</td>
</tr>
<tr>
<td>Dr Smita Dheer</td>
<td>Hyderabad, Andhra Pradesh (Glaucoma)</td>
</tr>
<tr>
<td>Dr Jay Chhablani</td>
<td>Mangalore, Karnataka (Retina)</td>
</tr>
<tr>
<td>Mr Mufarrig Shah</td>
<td>Hazadabad, Pakistan (Contact Lenses)</td>
</tr>
<tr>
<td>Dr Ritu Jain</td>
<td>Anandpur, Madhya Pradesh (Pediatric)</td>
</tr>
<tr>
<td>Dr K C Sekhar</td>
<td>Visakhapatnam, Andhra Pradesh (Anesthesia)</td>
</tr>
<tr>
<td>Dr D P Bathwal</td>
<td>Kolkata, West Bengal (Oculoplasty &amp; Phaco)</td>
</tr>
<tr>
<td>Mr Arun Kumar Kapil</td>
<td>Chandigarh (Fundus Steroscopy)</td>
</tr>
</tbody>
</table>
Dr Sherine Braganza  
Bangalore, Karnataka (Retina)

Dr Adrian Braganza  
Bangalore, Karnataka (Cornea)

Dr Anita Prasad  
Washington, USA (Retinal Uveitis)

Dr Ashish Jain  
Meerut, Uttar Pradesh (Cornea)

Dr Shilpi Joshi  
Pune, Maharashtra (Pathology & Cornea)

Dr Bageshri Gogate  
Pune, Maharashtra (Pathology & Cornea)

Dr B Vidyashankar  
Mumbai, Maharashtra (Low Vision Awareness)

Dr C Sambore  
Pune, Maharashtra (Stem Cell Biology & Eye Bank)

Dr Vandana Kohli  
New Delhi (Ophthalmic Plastics)

Dr AKM Nazmus Squib  
Dhaka, Bangladesh (Ophthalmic Plastics)

Dr Quazi Mohd Aftab-uz-Zanan  
Dhaka, Bangladesh (Ophthalmic Plastics)

Dr Karan Sarwal  
Bhatinda, Punjab (Pediatric Ophthalmic)

Dr Ana Cama  
Melbourne, Australia (Pediatric Ophthalmic)

Dr D N Singh  
Ranchi, Jharkhand (Glaucoma)

Dr Pranab Kumar Sen  
Kolkata, West Bengal (Retina Vitreous)

Dr K Rama Rao  
Sompeta, Andhra Pradesh (Systems)

Ms Silvia  
Thiruchirapalli, Tamilnadu

Mr Reena  
Thiruchirapalli, Tamilnadu

Mr Sukanta Ghosh  
Kolkata

Microbiology (Short-term)

Prof (Dr) Md Samad Talukder  
Dhaka, Bangladesh

Ms Neha Shah  
Vadodara, Gujarat

Electrophysiology (1 month)

Dr Babi Sinha  
Bangalore, Karnataka
Optometry Training Programs

The Birla Institute of Technology and Science, Pilani, in collaboration with L V Prasad Eye Institute, Hyderabad, selects students for the four-year Bachelor of Science Optometry course in July every year, through an entrance examination and interview. This year 64 students wrote the entrance examination, of which 23 were selected and admitted to the course.

Bachelor of Science in Optometry (4 years)

Aruna Bala Rachamalla  
Vijayawada, Andhra Pradesh

S Jaya Sowjanya  
Hyderabad, Andhra Pradesh

Nagachandrika  
Hyderabad, Andhra Pradesh

Uzma Fatima  
Hyderabad, Andhra Pradesh

Asra Fatima  
Hyderabad, Andhra Pradesh

Verkicharla Pavan Kumar  
Hyderabad, Andhra Pradesh

Sayeda Zainab  
Hyderabad, Andhra Pradesh

P Hari Kumar  
Hyderabad, Andhra Pradesh

Sri Prabhavathi Dasika  
Hyderabad, Andhra Pradesh

Ritika Kataria  
Mumbai, Maharashtra

V Sri Latha  
Hindupur, Andhra Pradesh

Mohd Zeeshan Uddin  
Hyderabad, Andhra Pradesh

Syed Saif Ahmad  
Gaya, Bihar

S Bharani  
Hyderabad, Andhra Pradesh

Mohd Ehtesham Imaad  
Warangal, Andhra Pradesh

Banu R S A  
Narsapur, Andhra Pradesh

Aditya Chaitanya  
Wanaparthy, Andhra Pradesh

K Srikanth  
Hyderabad, Andhra Pradesh

NSrividya  
Sholapur, Maharashtra

Obaid Ur Rahman Ghori  
Hyderabad, Andhra Pradesh

Katnam Swetha Goud  
Hyderabad, Andhra Pradesh

Bodduluri Lakshmi  
Ongole, Andhra Pradesh

V Nirosha  
Hyderabad, Andhra Pradesh

Fellowship in Optometry (1 & 2 years)

Ms Smita Telang  
Pune, Maharashtra

Ms Pooja Anand  
New Delhi

Ms T Padmavathi  
Chennai, Tamilnadu

Mr Winston Devaprapaksh  
Coimbatore, Tamilnadu

Mr Om Prakash Maurya  
Gonda, Uttar Pradesh

Ms Sanyukta Mohan Awale  
Mumbai, Maharashtra

Ms Avril Hazel Miranda  
Mumbai, Maharashtra

Mr Atanu Ghosh  
Kolkata, West Bengal

Mr Shivprakash  
Pune, Maharashtra

Ms Debi Ghoshal  
Kolkata, West Bengal

Ms Rituparna Ghoshal  
Kolkata, West Bengal

Mr Souvik Bhattacharya  
Kolkata, West Bengal

LVPEI's Bausch & Lomb School of Optometry also conducts a one-year Vision Technician program to meet the need for
Vision Technicians Program

trained vision technicians for staffing its primary eye care centers and the secondary and tertiary centers all across the country. Two such programs are conducted concurrently every year. Most of the candidates are selected from among persons sponsored by the eye care centers in the districts.

Batch 2006 (1 year)

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Ms M Manjula</td>
<td>Adilabad, Andhra Pradesh</td>
<td>ICARE</td>
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<tr>
<td>Ms G Savitha</td>
<td>Adilabad, Andhra Pradesh</td>
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<tr>
<td>Mr P Ganesh</td>
<td>Adilabad, Andhra Pradesh</td>
<td>ICARE</td>
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<tr>
<td>Ms B Shyamala</td>
<td>Mudhol, Andhra Pradesh</td>
<td>ICARE</td>
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<tr>
<td>Mr E Ram Das</td>
<td>Mudhol, Andhra Pradesh</td>
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<tr>
<td>Mr Kadam Yogesh</td>
<td>Mudhol, Andhra Pradesh</td>
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<tr>
<td>Mr U Vijay Kumar</td>
<td>Mudhol, Andhra Pradesh</td>
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<tr>
<td>Ms U Sravani</td>
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<td>Mr B Srinivasulu</td>
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<td>Tanubodhivari Palem, Andhra Pradesh</td>
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<td>Mr D Srivally</td>
<td>Karamchedu, Andhra Pradesh</td>
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<td>Ms M Sandeep Reddy</td>
<td>Chinthagunta Palem, Andhra Pradesh</td>
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<tr>
<td>Mr Arvind</td>
<td>Podil, Andhra Pradesh</td>
<td>ICARE</td>
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<tr>
<td>Ms K Sudha Rani</td>
<td>Karamchedu, Andhra Pradesh</td>
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<td>Mr A Narsaiah</td>
<td>Donakonda, Andhra Pradesh</td>
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<tr>
<td>Mr Durga Ramesh</td>
<td>Nidavale, Andhra Pradesh</td>
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<td>Ms Usha Sri</td>
<td>Guntur, Andhra Pradesh</td>
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<td>Mr Naga Raju</td>
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<tr>
<td>Mr Amit Kumar</td>
<td>Chandausi, Uttar Pradesh</td>
<td>OEU</td>
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<tr>
<td>Mr Vineeth</td>
<td>Kerala</td>
<td>OEU</td>
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Batch 2007

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Mr M Venkatesam</td>
<td>Hyderabad</td>
<td>KCCEC</td>
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<td>Ms N Anitha</td>
<td>Hyderabad</td>
<td>Lions/ICARE</td>
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<tr>
<td>Mr Ch Ajay Kumar</td>
<td>Gudivada</td>
<td>Dr Sumathi, Sri Nethralaya</td>
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<tr>
<td>Mr Neeraj Kumar</td>
<td>Anandpur, Rajasthan</td>
<td>OEU, SOHARD</td>
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<tr>
<td>Ms Sirisha</td>
<td>Mahaboobnagar district</td>
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<td>Mr P Ajay Kumar</td>
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<td>Mr Vittal</td>
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<td>Mr Satish</td>
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<tr>
<td>Mr Madhava Rao</td>
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<tr>
<td>Mr P Srinivas</td>
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<tr>
<td>Mr G Srinu</td>
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<td>Mr Harinath Reddy</td>
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<tr>
<td>Mr Aravind</td>
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</tbody>
</table>

ICARE - International Centre for Advancement of Rural Eye Care, LVPEI
OEU - Operation Eyesight Universal, Canada
KCCEC - Kishore Chand Chhordia Eye Centre, Hyderabad
Other Eye Care Professional Training Programs

Diploma in Community Eye Health – 2007 (6 months)

Mr Mohammed Abdul Aleem
Mr Burri Subba Rao
Mr Manjit Singh
Mr B V M Prasada Rao
Mr P V D Sivarama Subba Rao
Mr E Vishnu Murthy
Mr Kummar Satyanarayana
Mr Patti Narayana Reddy
Mr V Balagangadhara Raju
Mr R Venkata Ramana
Mr Patel Ravinder
Mr Gosu Srinivasa Rao
Mr Gandam Shanker
Mrs Hannah Niveditha
Mr Boreddy Rammohan Reddy
Mr Gudapati Bal Krishna
Mr Ramesh Chandra Bhatta
Ms Deepti Bajaj
Ms Jyoti Nagpal
Ms Deepti Bajaj
Ms Jyoti Nagpal
Mr Ghan Bahadur Thaps
Mr Prem Kumar Dixit
Mr Ghan Bahadur Thapa
Mr Prem Kumar Dixit

Pamulapahad, Nalgonda district, Andhra Pradesh
Kadapa, East Godavari district, Andhra Pradesh
Shivampet, Medak district, Andhra Pradesh
Guttavalli, Srikakulam district, Andhra Pradesh
Nutakkii, Guntur district, Andhra Pradesh
Hyderabad, Andhra Pradesh
Bommasamudram, Chittoor district, Andhra Pradesh
Rudravaram, Kurnool district, Andhra Pradesh
Jalumuru, Srikakulam district, Andhra Pradesh
Anantagiri, Visakhapatnam district, Andhra Pradesh
Pitlam, Nizamabad district, Andhra Pradesh
Buchavaram, Krishna district, Andhra Pradesh
Kundaram, Adilabad district, Andhra Pradesh
Vikarabad, Ranga Reddy district, Andhra Pradesh
Gorantla, Ananthapur district, Andhra Pradesh
LND Peta, West Godavari district, Andhra Pradesh
Kailali, Nepal
ORBIS Country Office, New Delhi (2 weeks)
ORBIS Country Office, New Delhi (2 weeks)
ORBIS Country Office, New Delhi (2 weeks)
ORBIS Country Office, New Delhi (2 weeks)
Nepal Gunj, Nepal (5 days)
Nepal Gunj, Nepal (5 days)
Nepal Gunj, Nepal (5 days)

Low Vision and Rehabilitation (3 months)

Mr Alok A Bhandari
Ms Asha U Fofaliya
Dr Y Raman
Ms Jasmine Davis
Mrs Florence Mulenga Mwansa
Mr Manish Mayer
Mr Birendra Pratap Singh
Mr Samrat Sarkar
Mr Subani
Ms Shanthi Priya
Ms Radhika

Visnagar, Gujarat
Mumbai, Maharashtra
Hyderabad, Andhra Pradesh
Angamaly, Kerala
Zambia, Africa
Lucknow, Uttar Pradesh
Etah, Uttar Pradesh
Chennai, Tamilnadu
Visakhapatnam, Andhra Pradesh
Visakhapatnam, Andhra Pradesh
Visakhapatnam, Andhra Pradesh

Eye Banking

Eye Bank Technicians (3 months)

Mrs Manashi De
Mr Vipul Aagja
Mr Nilesh Wankhade
Mr A Anand Rao

Durgapur, West Bengal
Ahmedabad, Gujarat
Nagpur, Maharashtra
Suryapet, Andhra Pradesh
Mr Ganesh N Parmar, Vadodara, Gujarat
Mr Kapil Shah, Gurgaon, Haryana
Mr Raghavendra Pratap Narayan, Lucknow, Uttar Pradesh
Mr Hoang Nyugen Huu, Hanoi, Vietnam
Mr Niladri Bihari Das, Bhubaneswar, Orissa
Mr A Srinivasa Rao, Kakinada, Andhra Pradesh
Mrs Kamala Kumari, Nidadavole, Andhra Pradesh

Eye Donation Counsellors (1 month)
Mr Mahadev Lekhmani, Jaipur, Rajasthan
Ms Geetanjali Parida, Bhubaneswar, Orissa

Eye Bank Managers (1 week)
Mr Deva Kumar, Chennai, Tamilnadu
Mrs Surekha Joshi, Pune, Maharashtra

Eye Bank Ophthalmologists Observership (1 week)
Dr Khairidzan Mohd Kamal, Malaysia
Dr Ravi Shankar, Hyderabad, Andhra Pradesh
Dr Mahajan Mohan, Sholapur, Maharashtra
Dr Manisha R Kadam, Akoa, Baroda
Dr Lalitha Senthilkumar, Chennai, Tamilnadu
Dr Gong Qi, Shenyang, China
Dr Ayobade Ogunde, Ibadan, Nigeria
Dr Parasappa Bandrakalli, Bellary, Karnataka
Dr Mayur R Morekar, Mumbai, Maharashtra
Dr Rupa Jain, Salatwada, Vadodara
Dr Thang Diep Hun, Ho Chi Minh, Vietnam
Dr Vinita Ramanani, Bairagarh, Bhopal
Dr Manohar Kumar M, Bellary, Karnataka
Dr Sameer G Datar, Pune, Maharashtra

Hospital Management Training Programs
### Eye Care Management Certification Course (1 year)

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mr Kasuladeva Lokesh</td>
<td>Visakhapatnam, Andhra Pradesh</td>
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<tr>
<td>Mr Rahgu Rama Sastry D</td>
<td>Visakhapatnam, Andhra Pradesh</td>
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<tr>
<td>Ms Lakshmi D Ch</td>
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<tr>
<td>Mr Kiran P V</td>
<td>Bhimavaram, Andhra Pradesh</td>
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### Short-term Eye Care Program Management Course (4 weeks)

<table>
<thead>
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<tbody>
<tr>
<td>Mr Pathi Kumar M</td>
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</tr>
<tr>
<td>Ms Shweta Chooramani</td>
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<tr>
<td>Dr Santosh S D Moses</td>
<td>Hyderabad, Andhra Pradesh</td>
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<td>Mr Pradeep Kumar K</td>
<td>Suryapet, Andhra Pradesh</td>
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<tr>
<td>Mr Jayanna B</td>
<td>Kadapa, Andhra Pradesh</td>
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<tr>
<td>Mrs Lakshmi PV</td>
<td>Guntur, Andhra Pradesh</td>
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<tr>
<td>Mr Vivek Pandey</td>
<td>Jalna, Maharashtra</td>
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<td>Mr Deepak Singh</td>
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<tr>
<td>Mr Shreesh Pradhan</td>
<td>Dhenkanal, Orissa</td>
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<td>Mr Manmohan Mohapatra</td>
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<td>Mr Dasarath Mohanta</td>
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<tr>
<td>Mr Mohammed Gouth A</td>
<td>Madurai, Tamil Nadu</td>
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<tr>
<td>Ms Mallesswari D</td>
<td>Coimbatore, Tamil Nadu</td>
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<tr>
<td>Mr Mukesh Bhatt</td>
<td>Noida, Uttar Pradesh</td>
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<tr>
<td>Mr Siva Prasad Masuna</td>
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<td>Ms Madhuri Krishna P</td>
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<td>Ms Sushma Rana</td>
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<tr>
<td>Ms Vanita Ganesh</td>
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<tr>
<td>Mr Niranjan D</td>
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<tr>
<td>Mr Venkatesh M Reddy</td>
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<td>Mr Didugu Kiran</td>
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<td>Mr Joby Kurien</td>
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<td>Mr BV Raghavulu</td>
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<td>Mr P Murali Naga Mohan</td>
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<tr>
<td>Mrs Rama Lakshmi A</td>
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<tr>
<td>Mr Shibu Mathew</td>
<td>Yacharam, Andhra Pradesh</td>
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<tr>
<td>Mr Pradeep Chandra Pathak</td>
<td>Bhella, Assam</td>
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<tr>
<td>Mr Dilip Kumar Das</td>
<td>Dispur, Assam</td>
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<td>Mr Gadhani Bharat</td>
<td>Dahud, Gujarat</td>
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<tr>
<td>Mr Mahadev Swamy</td>
<td>Mysore, Karnataka</td>
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<td>Ms Mary Sebastian</td>
<td>Angamaly, Kerala</td>
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<tr>
<td>Dr Mane Rajesh B</td>
<td>Kothapur, Maharashtra</td>
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<tr>
<td>Mr Sashikanta Das</td>
<td>Cuttack, Orissa</td>
</tr>
<tr>
<td>Ms Archana Kulkarni</td>
<td>Mount Abu, Rajasthan</td>
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<tr>
<td>Mr Arokiamsamy T</td>
<td>Chennai, Tamil Nadu</td>
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<tr>
<td>Mr Vijay Bajpai</td>
<td>Kanpur, Uttar Pradesh</td>
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<tr>
<td>Mr Sankareswar Datta</td>
<td>Gobrapota, Nadia, West Bengal</td>
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<tr>
<td>Mrs Gita Datta</td>
<td>Gobrapota, Nadia, West Bengal</td>
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</table>
Eye Care Management Team Training Programs

**Arogyavaram Eye Hospital, Sompeta, Srikakulam District, Andhra Pradesh (1 to 6 months)**
- Mr Daiva Prasad Datla: OT Technician
- Mr Ramesh Panda: Optometrist
- Mrs Vijayalaxmi B: O T Nurse
- Mr Kurma Rao Mahadasym: Optometrist
- Mr Ramesh Killada: Optometrist
- Ms Veera Laxmi Vundavelli: Optometrist
- Ms Neena David: Ophthalmic Nurse
- Mr Pondra Ganesh Behara: OT Technician

**St. Gregorios Balagram Eye Hospital, Yacharam, Ranga Reddy District, Andhra Pradesh**
- Ms S Lily: Patient Counselor

**M S Reddy Lions Eye Hospital, Meerpeth, Moula Ali, Hyderabad**
- Mr Srihari Mukka: Field Worker
- Mr Lokeshwar Rajarapu: OT Technician

**L V Prasad Eye Institute, Visakhapatnam, Andhra Pradesh**
- Ms B Madhuri: Patient Counselor
- Mr Chinthapalli Subhani: Rehabilitation Worker
- Ms Kuppili Santhipriya: Rehabilitation Worker
- Ms Ponusoli Radhika: Rehabilitation Worker
- Ms Reema Helan D: Rehabilitation Administrator

**Little Flower Hospital, Angamaly, Kerala**
- Ms Jasmine Davis: Optometrist

**Sri Nethralaya Vidya Shala, Gudiwada, Krishna District, Andhra Pradesh**
- Ms Varalakshmi Sankarashetti: Ward Nurse
- Ms Nalini Kumari Asilite: OT Nurse
- Mr B Bhanu Prasad: OT Technician
- Mr Siva Prasad Pavvala: OT Technician

**Bausch & Lomb Advanced Cataract Care, Sri Ganga Nagar, Rajasthan**
- Ms Simar Jeet: Patient Counselor

**L V Prasad Eye Institute, Bhubaneswar, Orissa**
- Ms Jenefa Jasprine Hebzibah: Rehabilitation Administrator

**Siliguri Greater Lions Eye Hospital, Siliguri, West Bengal**
- Ms Moumita Sarkar: MRD Executive
- Ms Rima Saha: Patient Counselor
- Mr Bikram Saha: Maintenance Technician

**Rotary Sunder Lal Eye Hospital, Chandausi, Moradabad, Uttar Pradesh**
- Mr Umang Gupta: Patient Counselor
- Mr Ajay Kumar Agarwal: MRD Assistant

OT – Operation Theatre; MRD – Medical Record Department
Capacity Development Project for Management of Diabetic Retinopathy in Andhra Pradesh

**Mid-Level Ophthalmic Assistants (2 months)**
- Ms Deena Borugadda, Sadhuram Eye Hospital (Lions Club of Hyderabad), Hyderabad
- Mr Appaiah Chinthakunta, Lions Eye Hospital, Dharmavaram, Anantapur, Andhra Pradesh
- Mr Veerababu Mallikanti, Suryapet Lions Eye Hospital, Suryapet, Nalgonda, Andhra Pradesh
- Mr DS Venkateswar Rao, Dundoo Lions Eye Hospital, Sainikpuri, Hyderabad
- Mr Etya Kethav, Lions Eye Hospital, Medak
- Mr T Ravi Kumar, Lions OEU Hospital, Vizianagaram
- Mr B Naveen Kumar, Lions Eye Hospital, Moula Ali, Hyderabad
- Mr Shiva Kumar, Lions Eye Hospital, Bodhan

**Paramedical Ophthalmic Assistants Refresher Course (For Govt. of Andhra Pradesh Employees)**

- Supported by National Programme for the Control of Blindness
- Mr K Gopal, Hyderabad, Andhra Pradesh
- Mr A Rambabu, Khammam, Andhra Pradesh
- Mr BP Panigrahi, Vizianagaram, Andhra Pradesh
- Mr S Vasantha Rao, Srikakulam, Andhra Pradesh
- Mr S Prasanna Kumar, East Godavari Dist, Andhra Pradesh
- Mr M Raghotham Reddy, Karimnagar, Andhra Pradesh
- Mr M Sreenivas Rao, Prakasam, Andhra Pradesh
- Mr B Ravi, Warangal, Andhra Pradesh
- Mr C Dattatri Rao, Mahabubnagar, Andhra Pradesh
- Mr K Arjuna Reddy, Chittoor, Andhra Pradesh
- Mr S Janardhan Reddy, Nizamabad, Andhra Pradesh
- Mr G Reddanna, Kadapa, Andhra Pradesh
- Mr R Narender Reddy, Ranga Reddy District, Andhra Pradesh
- Mr CG Bramhananda Reddy, Anantapur, Andhra Pradesh
- Mr M Ramesh, District Headquarters Hospital, Sangareddy, Medak
- Mr K Krishnylam, District Headquarters Hospital, Sangareddy, Medak
- Mrs P Padma, Area Hospital, Malakpet, Hyderabad
- Mr P Gopi, D S R Government District Headquarter Hospital, Nellore
- Mr M P Madhu Sudana, District Headquarters Hospital, Chittoor
- Mr J Prem Kumar, District Headquarters Hospital, Nizamabad
- Mr V Chandra Sekhara Rao, District Hospital, Srikakulam, Andhra Pradesh
- Mr E Shiva Shankar, District Headquarter Hospital, Mahabubnagar, Andhra Pradesh
- Mr D Srinivasulu, District Hospital, Hindupur, Anantapur, Andhra Pradesh
- Mr C Ravi Kumar, District Hospital, Anakapalli, Visakhapatnam, Andhra Pradesh

**Vision Guardians Training Program**

(In collaboration with NTR memorial Trust, Hyderabad, Andhra Pradesh)

- Mr Venkatesh Krishnabaktha, Dattamapally, Mahaboobnagar District
- Ms Madhilati Chintakunta, Chandrapuram, Mahaboobnagar District
- Mr Naresh C, Gudipally, Mahaboobnagar District
- Mr Raja Shekar G, Nagarkurnool, Mahaboobnagar District
- Mr Rudraiah T, Nagarkurnool, Mahaboobnagar District
- Mr Pandu Nayak N, Peddagudem Tanda, Mahaboobnagar District
- Mr Bhupal Reddy S, Malkapoor, Mahaboobnagar District
- Mr Venkat Swamy S, Nallavally, Mahaboobnagar District
- Mr Arjunaiah C, Yendachetta, Mahaboobnagar District
- Mr Nagaiyah C, Manthati, Mahaboobnagar District
- Mr Srinu K, Nagarkurnool, Mahaboobnagar District
- Mr Ramana Rao V, Peijamuddunoor, Mahaboobnagar District
- Mr Chandu Nayak M, Kashimnagar, Mahaboobnagar District
Mr Kondaiah Sagar A  Rajanagaram, Mahaboobnagar District  
Mr Srinivasulu V  Appaipally, Mahaboobnagar District  

Bhosle Gopal Rao Patel Eye Centre and attached Vision Centres  
Mr V Chandramouli  Binola village, Navipet mandal, Nizamabad district  
Mr M Gabber Singh  Maddapally village, Navipet mandal, Nizamabad district  
Mr K Abbanna  Nagapoorni village, Navipet mandal, Nizamabad district  
Mr T Dharma Rao  Basar village, Mudhol mandal, Adilabad district  
Mr Gangadhar  Mudhol village & mandal, Adilabad district  
Mr P Mohan  Mudhol village & mandal, Adilabad district  
Mr P Dalthe  Kanole village, Bhainsa mandal, Adilabad district  

Vision Volunteers Training Program  
In Collaboration with N T R Memorial Trust, Hyderabad  
Mr Veera Swamy S  Hyderabad  
Ms Sharmila Jadhav  Hyderabad  
Mr Shamsuddin Khan  Hyderabad  
Mr Narsing Rao K  Hyderabad  
Mr Mohd Iqbal  Hyderabad  
Mr Mohd Samiuddin  Hyderabad  
Mr Venkata Chary K  Hyderabad  
Ms Padmavathi GL  Hyderabad  
Mr Rajendra Jaiswal A  Hyderabad  
Mr Narsing M  Hyderabad  
Mr Mohd Baderuddin  Hyderabad  
Mr Mohd Waheeduddin  Hyderabad  
Mr Balaji Goswami G  Hyderabad  
Ms Sumithra Bai G  Hyderabad  
Mr Ratan S  Hyderabad  
Mr Babu Rao Poosa  Hyderabad  
Mr Satya Narayana Yadav G  Hyderabad  
Mr Dinesh Kumar KD  Hyderabad  
Mr Raju B V N  Hyderabad  
Ms Ishrath Jahan  Hyderabad  
Ms Lakshmi K  Hyderabad  
Ms Aruna Ch  Hyderabad  
Mrs Qamarunnisa Begum  Hyderabad  
Mrs Shantamma  Hyderabad  
Mr Balanarsimhulu  Hyderabad  
Mr Govu Venkat Reddy  Hyderabad  
Mr Ramesh A  Palkol, West Godavari  
Mr Sankar I  Palkol, West Godavari  
Mr Srinivasa Rao B  Palkol, West Godavari  
Mr Narasimha Swamy B  Palkol, West Godavari  

Unite for Sight Volunteers Program (1 month)  
Ms Tabassum Ali  Medical Student  USA  
Ms Amanda Maltry  Medical Student  USA  
Mr Yasir Kazmi  Medical Student  USA  
Mr Vineet Reddy  Medical Student  USA  
Mr Samad Soudagar  Medical Student  USA  
Ms Novain Siddiqui  Medical Student  USA  
Ms Gayathri Suresh  Medical Student  USA
The main event of the year was the **Education Day** celebrations held on October 17, 2006. Prof Palle Rama Rao, Director, International Advanced Research Centre for Powder Metallurgy & New Materials, Hyderabad, was the chief guest and delivered the valedictory address. He also presented certificates and honour awards to the students, along with Dr Gullapalli N Rao, Chairman, LVPEI.

BS Optometry certificates were distributed to 13 successful students of Batch 2002: Ms G Hiranmayi, Ms Jaya Dantam, Mr Jit Bahadur Ale Magar, Mr Karimula, Mr Basha Shaik, Mr G Muneeshwar Nittala Gupta, Ms N Pavani, Mr Penmetsa Bhanu Rakesh, Mr Ravi Chandra Bakaraju, Ms Sarah Baig, Ms G Sethu Mathi, Mr Somanchi SNV Vamsi, and Ms Yeotikar Nisha Shirish.

The best outgoing student award was won by Mr Jit Bahadur Ale Magar for his academic performance as also outstanding work in the clinic. The Prize of Excellence was a glass statuette handcrafted by Mr Sisir Sahana, one of LVPEI’s artists-in-residence.

**Scholarships**

The first-ranked student of each batch – including the first-year student who performed best in the admission exam – won the Carl Zeiss Scholarship. Students ranked from 2 to 5 receive an LVPEI scholarship.

The students selected for the Carl Zeiss scholarships were Ms Aditi Desai (Batch 2003), Mr Viswanathan, (Batch 2004), Ms Khuseeya Shareef (Batch 2005) and Ms Uzma Fatima (Batch 2006).

The students selected for LVPEI scholarships were:

- **Batch 2003:** Mr Sumit Kumar, Ms Sen Paulami Ashoke, Ms Sneha Kataria, Ms R Sushma
- **Batch 2004:** Ms Ankita Agarwal, Mr Kolanu Sailesh, Ms Athira Rose, Mr Potluri Haresh
- **Batch 2005:** Mr Daniel Prakash Ethakot, Ms Safiya Sultana, Ms Nair Amreen S Aali, Ms C Rebecca Sumalini
- **Batch 2006:** Mr Verkicharla Pavan Kumar, Ms N Srividya, Ms V Nirosha, Ms Ritika Kataria

On Education Day, certificates for the **Diploma in Ophthalmic Techniques** (FOREC Diploma in Ophthalmic Techniques — DOT) were also presented to students who had successfully completed the course. They included Mr Arun Ram M, Ms Bajibhi Shaik, Mr Challa Kiran Kumar, Mr Pulipati Kiran Kumar, Mr Musipetta Nanda Gopal, Mr V L Narayana Budepudi, Ms K Priyanka, Mr K Raj Kumar, Mr P Sandeep Reddy, and Mr Vinay Kumar. These students were part of the first two years of the bachelor degree course. Eight DOT students completed a one-year fellowship at LVPEI.

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*The graduating students with Dr G N Rao (left), Dr Garg (right) and seated from left Dr Kohli, Prof Coen, Prof Palle Rama Rao and Gen. (Dr) Raghunath*
Other events

- Other notable highlights of the year were the participation of BLSO students in the Indian Eye Research Group (IERG) meeting held at LVPEI, July 29-30, 2006. Five students attended the program and one of them, Mr Sumit Kumar, was awarded the first position in paper presentation.

- The first, second and third year students participated in the World Sight Day events at Prasads IMAX theatre in Hyderabad in October 2006.

- On November 14, 2006 the Thakur Hari Prasad Institute of Research and Rehabilitation for the Mentally Handicapped, Hyderabad, organised a Health Camp, where students from the Bausch and Lomb School of Optometry conducted an eye screening camp.

- ORBIS, Bangladesh, has decided to train personnel for rural areas. It has been decided that Vision Technicians would meet the requirements. The State University of Bangladesh has expressed interest in teaching and training the students. Dr Shahjahan and Mr Mizanur Rahman (State University of Bangladesh) and Ms Anindita Roy (ORBIS-Bangladesh) visited LVPEI for discussions and studied the curriculum and syllabi of the Vision Technician course.

- Dr Wilfred Tang and Mr Rajeev Narayanan, manager and faculty member of the Optometry Course at the Singapore Polytechnic, visited the school in August 2006.

Continuing Education

The Institute offers education programs on latest trends in the surgical and medical treatment of eye disorders. Eye care professionals from all over India and other countries participate in these programs.

- A macula symposium was organized by LVPEI’s Smt Kanuri Santhamma Retina Vitreous Centre on May 21, 2006. It was attended by 35 ophthalmologists from across the country. The seminar was supported by Novartis.

- A workshop on age related macular degeneration was organized at LVPEI on June 11, 2006. The workshop was supported by Pfizer Ophthalmics.

- The 15th annual meeting of the Indian Eye Research Group (IERG) was held from July 29-30, 2006. There were about 100 participants from eight institutions across the country. There were 6 paper sessions and 1 poster session in which a total of 60 free papers, 3 invited talks, a special oration and 10 posters were presented. Travel fellowships were given to nine participants.

- The second LVP – Novartis Macula Centre workshop on Age Related Macular Degeneration for general ophthalmologists was held on December 3, 2006.

- Good clinical practice (GCP) training is a pre-requisite for every investigator or team member in clinical research. This was the first such workshop to be conducted in-house. The 32 participants included clinical research coordinators, optometrists and research students. December 23, 2006.

- A two-day Operation Eyesight Universal (OEU) Indian partners networking workshop was conducted on March 8-9, 2007; it was attended by 67 representatives from all over India.
Indian Contact Lens Education Programs
The 36th and 37th Indian Contact Lens Education Programs (ICLEP) were held at L V Prasad Eye Institute from July 1 – 4, 2006, and November 30 – December 4, 2006, respectively. Both the programs were extremely well received. The 36th ICLEP was attended by 115 delegates (38 ophthalmologists and 77 optometrists) from all over the country. For the 37th ICLEP, there were 110 delegates for the basic course (including 28 ophthalmologists and 82 optometrists) and 70 for the advanced course.
The wide network LVPEI has established with institutions and organizations 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:

**Dr Nitin Verma**, Consultant ophthalmologist, Calvary Hospital, Hobart, Tasmania, delivered a guest lecture on *Community eye care initiatives in aboriginal Australia and Timor*. April 21, 2006

**Dr K V Chalam**, Associate Professor and Head of Retina Services, University of Florida, College of Medicine, Jacksonville, USA, spoke on *Age related macular degeneration: Scientific frontiers* on July 18, 2006.

**Ms Daphne L McCulloch**, Secretary-General, International Society for Clinical Electrophysiology of Vision (ISCEV), delivered a guest lecture on *What can that baby see? Clinical electrophysiology in pediatric neuro-ophthalmology* on September 20, 2006.

**Dr Jonathan H Lass**, Professor of Epidemiology and Biostatistics and Chairman, Department of Ophthalmology, Case Western Reserve University, delivered two talks – *Maintaining endothelial function after penetrating keratoplasty* on October 11, 2006, and *Keratoplasty indications and patient selection* on October 12, 2006.

**Dr Clare Gilbert**, Acting Head and Reader, International Centre for Eye Health, and Medical Advisor to Sight Savers International, delivered a talk on *ROP – the emerging challenge*. November 1, 2006

The Rustom D Ranji Rotary Lecture in association with the Rotary Club of Hyderabad District 3150, was held at LVPEI on November 4, 2006. The lecture was delivered by Dr Tarun Sharma, Director of Shri Bhagwan Mahavir Vitreoretinal Services, Sankara Nethralaya, Chennai.

**Dr Neeraj Agrawal**, Associate Professor, Department of Cell Biology & Genetics Director, DNA Microarray Facility, UNT Health Science Center, Texas, USA, spoke on *Apoptosis and oxidative damage in retinal neurodegenerations*. November 22, 2006.

**Dr Srinivas Sadda**, Assistant Professor, Dohne Eye Institute, USA, delivered a guest lecture on *Recent advances in retinal imaging*. November 25, 2006.

The inaugural *Nawab Arastu Yar Jung Memorial Lecture* on *Diabetes and the eye* was delivered by Mr R D Thulasiraj, Aravind Eye Hospital, Madurai, on December 21, 2006.

**Dr Robert F Walters**, Lead Clinician, Bridgend Eye Unit, and Trustee, ORBIS, Cardiff Eye Unit, delivered a talk on *Hands-on ophthalmology* on January 16, 2007.

**Prof May Griffith**, Associate Professor, Department of Cellular and Molecular Medicine, and Department of Ophthalmology, University of Ottawa, delivered a lecture on *Corneal regenerative medicine: Tissue engineering and stem cells applications* on January 27, 2007.

**Dr Narsing A Rao**, Professor, Ophthalmology & Pathology,
Keck School of Medicine, University of Southern California, delivered a lecture on *Pathogenesis of tuberculous choroiditis* on January 31, 2007.

**Prof Hugh R Taylor**, Managing Director, Centre for Eye Research Australia, delivered a lecture on *The cost of vision loss* on February 3, 2007.

**Prof Brien Holden**, Scientia Professor of Optometry, University of New South Wales, delivered a lecture on *Myopia, role of Vision CRC* on February 5, 2007.

**Prof Debbie Sweeney**, Chief Executive Officer, Vision CRC Limited, Australia University of New South Wales, gave a talk on *Vision CRC achievements* on February 6, 2007.

**Prof Jill Keeffe**, Head, Population Health Division, Centre for Eye Research Australia, and Co-Chair, WHO Low Vision Working Group, delivered a lecture on *Assessment of functional vision and quality of life* on February 7, 2007.

A series of guest lectures were presented by **Dr David Miller** and **Prof Clifford Scott** on *Practical optics (tips and myths), Innovation in eye care (how ideas are born and their role in future of eye care) and Presbyopia: Physiology and new surgical approaches* on February 8, 9, and 10, 2007. Dr Miller is Associate Clinical Professor of Ophthalmology, Harvard Medical School, Boston. Dr Scott is Professor of Optometry and Chairman, Department of Community Health, New England College of Optometry, Boston.

**Dr John Robson**, Senior Research Professor, Vision Science, University of Houston College of Optometry, delivered a lecture on *Understanding the electroretinogram* on March 7, 2007.

**Dr Pamela Sieving**, Biomedical Librarian, National Institutes of Health, Maryland, and **Dr Bette Anton**, Head Librarian, Fong Optometry & Health Sciences, University of California at Berkeley, delivered lectures on *Evidence-based practice: The Cochrane Library and other resources* and *The ethics of electronic health information* on March 21, 2007.

**Ms Frauke Quader**, Secretary, Society to Save Rocks, delivered a talk on *Rock formations in and around Hyderabad*. April 12, 2006

**Mr Isidore Philips**, Ashoka Fellow and founder of Divya Disha (an NGO working for child rights), spoke on issues related to child welfare. May 10, 2006

**Mr Tony Maynard**, management consultant from Australia, delivered lectures on *Motivation and Feedback* on June 14 and 16, 2006. He worked at LVPEI as a volunteer for four months.

**Mr Balasubramanian**, head, new program development, Dr Reddy’s Foundation, Hyderabad, delivered a guest lecture on July 12, 2006 on *DRL’s livelihoods program and their efforts to rehabilitate marginalised youth*.

**Dr M Habeeb Ghatala**, PhD, Extension Continuing Education & Sociology, University of Wisconsin, Madison, USA, delivered a guest lecture on August 9, 2006 on *Critical pathways for becoming the best employer*.

**Dr S G Kabra**, retired professor from SMS Medical College, Jaipur, presented a guest lecture on *Medical Audit* on September 6, 2006.

**Mr Jaywant Naidu**, chartered accountant by profession, gave a guest lecture-demonstration of Hindustani classical music on the Hawaiian guitar. December 13, 2006.

**Dr U Balaji**, Director, Satyam Foundation, delivered a lecture on *Foundation’s initiatives in the social sector, primarily focusing on their work in health care* on January 10, 2007.

**Dr Rajendra Prasad**, former Chief Post Master General, Andhra Pradesh & Karnataka, and Commissioner, AP State Archives and Research Institute, delivered a lecture on *Hyderabad: Past into present* on February 14, 2007.


**Dr Sanjay Paul**, Dr Mohan’s Diabetic Foundation, gave a lecture at ICARE – LVPEI, Kismatpur campus, on *Diabetic patient counseling* on March 16, 2007.
The year was marked by a significant increase in support for new areas of research. The recruitment of new scientific faculty to contribute to translational research in molecular biology promises to catalyze our efforts in this area. The Stem Cell laboratory has begun an expansion process that will allow for more challenging projects to be taken up. Awards and honors recognized both clinical and basic research efforts, and the first few PhDs from the centre received their degrees.
Eye Research
Prof Brien Holden Eye Research Centre

The Hyderabad Eye Research Foundation (HERF) administers both basic and clinical research at L V Prasad Eye Institute (LVPEI). It continues to compete 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 Jhaveri Microbiology Centre, the Saroja A Rao Immunology Laboratory, the Kallam Anji Reddy Molecular Genetics Laboratory, the Ophthalmic Pathology Laboratory, the Sudhakar and Sreekanth Ravi Stem Cell Biology Laboratory, and the clinical research Laboratories. Each of these components has been named after its donor, in recognition of their generous donations.

Support and recognition
Research at LVPEI has concentrated on molecular genetics of inherited eye diseases, devising molecular diagnostics for early detection, microbiology of eye infections, biochemical features of cataract, and stem cell technology for reconstruction of the damaged ocular outer surface. 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 finalized US – India eye research collaboration, several joint research projects have been initiated at HERF, in collaboration with researchers in the US. Likewise, 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 the genetics of myopia, as well as a series of clinical studies such as on antibacterial contact lenses, corneal onlays, etc.

The Institute is recognized as an external research center 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 national laboratories such as the Centre for Cellular & Molecular Biology (CCMB), Centre for DNA Fingerprinting & Diagnostics (CDFD) and University of Hyderabad – all in Hyderabad, and the Indian Institute of Science, Bangalore. The agreements allow researchers at LVPEI to access state-of-the-art equipment and sophisticated facilities at these centers.

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 multicentre clinical trials.

Clinical research has also pursued the study of 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 was the efficacy, pharmacodynamics and related features of ophthalmic drugs and antibiotics. Many of the studies are conducted in collaboration with leading pharmaceutical companies.

Translational Research Centre
The year 2006-2007 has been a special one for the research groups of the Institute. A welcome addition has been Dr Yashoda Ghanekar, who has joined us with special expertise in cellular and molecular biology, adding greater strength to our stem cell research efforts. The plans for setting up a translational research centre in eye diseases (TRACER) are fast bearing fruit. Grant applications sent to the Champlain Foundation, Portugal, and to the Department of Biotechnology, Government of India, have passed the first round and we have submitted the detailed proposals. When they are approved, we would be able to put up a cGMP type facility for our stem cell research and therapy.

In the mean while, we have been able to obtain competitive research grant funding from just about every national agency. Research work by our group of 7 basic and 25 clinical colleagues, and 23 research fellows and associates, has been very productive, both in basic and clinical areas. We published 90 papers in peer-reviewed journals.

Now that our younger siblings at Bhubaneswar and Visakhapatnam are fully functional, we expect an enlarged activity profile and research progress in the coming years.

Awards & Honors
Among the major awards this year, we are delighted that our colleague Virender Sangwan was awarded the Bhatnagar Prize in Medical Sciences for the year 2006, and Dr Gullapalli N Rao received the International Blindness Prevention Award in 2006. Two research students completed their research under Dr Savitri Sharma, and were awarded the PhD degree. These are Drs. Joveeta Joseph and Aparna Duggirala, and we congratulate them.
Primary congenital glaucoma (PCG) is a severely blinding disorder in children with a prevalence of 1 in 3300 live births in Andhra Pradesh. It is an autosomal recessive disorder manifested by two copies of the mutant allele in the children; parents are usually asymptomatic carriers. The cytochrome P450 gene (CYP1B1) happens to be a major culprit as defects in this gene (mutations) account for a varied proportion of primary congenital glaucoma cases worldwide.

The glaucoma research group at the Institute (Dr Subhabrata Chakrabarti, Ms Kiranpreet Kaur and Dr Inderjeet Kaur from the research wing and Drs Anil Mandal, Rajul Parikh and Ravi Thomas from the clinical services) has been working on the genetics of PCG for the last several years. They wanted to address a rather unusual question — why are the mutation spectrums in CYP1B1 in PCG patients similar even across different countries? Dr Chakrabarti, in collaboration with Prof Partha P Majumder, a renowned geneticist at the Indian Statistical Institute, Kolkata, addressed this issue with the help of genetic signatures (haplotypes) in CYP1B1 in PCG patients and unaffected normal control patients. These were analyzed in conjunction with data available from other populations along with ancestral great apes like chimpanzees.

The team observed that common mutations in CYP1B1 associated with PCG occurred on a uniform haplotype background among Indian patients that was completely distinct from the most frequent haplotype found among unaffected Indian control patients. Globally, there was a strong clustering of mutations by geographical and haplotype backgrounds. Together with the data of chimpanzees, and of normal controls from India and other global regions, it was possible to reconstruct the evolution of these mutations on different haplotype backgrounds.

The presence of predominant CYP1B1 mutations on specific haplotypes, irrespective of geographical regions, is indicative of common founders and population movements. Some of these observations could be correlated with the ancient population movements from Saudi Arabia to India, immigration of the Roma gypsies from India to northern and central Asia and so forth. These results are useful for predictive testing of PCG and call for similar studies on PCG mutations that are not associated with CYP1B1.

The detailed results of the study were published in the journal Investigative Ophthalmology and Visual Sciences (January 2006 issue) and also cited in the directory of the Online Mendelian Inheritance in Man (OMIM).
**Visualization of in situ aggregation of two cataract-associated human g-Crystallin mutants in human lens epithelial cells**

**Investigators:** Venu Talla, D Balasubramanian, in collaboration with N Srinivasan of IISc, Bangalore. **Support:** DST

Gamma crystallins are part of the structural proteins constituting the human eye lens. Mutations in them are associated with congenital cataract in infants. We have cloned and expressed two such mutant human g-crystallins, namely W157X gD-crystallin and W157X human gC-crystallin, each associated with autosomal dominant congenital cataract. We transfected their cDNAs individually into human lens epithelial cells, in order to check whether they form scattering particles in situ. We then studied the structural features of the expressed proteins, so as to understand the molecular phenotype of this form of cataract. Transfection of GFP-tagged wild type cDNAs into several cell lines did not lead to any marked changes, while similar transfection of the mutants led to the visualization of scattering bodies and self-aggregates. Turning to the properties of the expressed proteins, the mutant molecules showed a thousand-fold reduction in solubility than the wild type. They showed subtle structural changes — a more open structure, and a greater degree of surface hydrophobicity, in comparison to the wild type molecules. They also displayed less structural stability towards thermal and chemical denaturants. Molecular modeling studies confirmed these features. The deletion of 17 residues in the carboxy-terminus of human gC- and gD-crystallins is seen to expose the side chains of several hydrophobic residues in the sequence to the solvent, causing the molecule to self-aggregate. This feature appears to be reflected in situ, upon introduction of the mutants in human lens epithelial cells. These results are consistent with the observed cataract.

**A glaucoma-associated mutant of optineurin selectively induces death of retinal ganglion cells, which is inhibited by antioxidants**

**Investigators:** Madhavi Latha Chalasani, D Balasubramanian, in collaboration with Vegesna Radha, Vijay Gupta and Ghanshyam Swarup (CCMB) and Neeraj Agarwal (Univ. North Texas). **Support:** DST

Certain missense mutations in the coding region of the optineurin gene (OPTN) are associated with normal tension glaucoma as well as POAG. While the function of the optineurin protein is yet to be elucidated, its most common mutation, E50K, is associated with a severe phenotype. In the present study we have explored some of the functional characteristics of optineurin and its mutants, in particular E50K. The E50K mutant was seen to selectively induce the death of rat retinal ganglion cells (RGC-5) but not of the other cell lines tested (Cos-1, HeLa & IMR-32). Neither the other mutants nor WT optineurin were seen to do so. This cell death was seen to require capases, and inhibited by Bcl-2. It was also inhibited by a variety of antioxidants and the free radical scavenger enzyme MnSOD. While expression of wild type and E50K mutant suppressed cell death induced by TNF-a in HeLa cells, they were seen to potentiate such cell death in RGC-5 cells. The E50K mutant of optineurin has thus acquired the ability to induce cell death selectively in retinal ganglion cells. This cell death is mediated by oxidative stress, since it is inhibited by antioxidants and by MnSOD. Our findings thus raise the possibility of the use of antioxidants for delaying or controlling some forms of glaucoma.

**Molecular studies on hereditary congenital cataract**

**Investigators:** Chitra Kannabiran, GP Surya Prakash, Ramesh Kekunnaya, Sushma Tejwani, BSR Murthy. **Support:** HERF

Cataract is opacity of the eye’s lens and can be hereditary. Hereditary cataracts are mostly congenital or developmental in type, appearing in infancy or childhood. They are inherited as autosomal dominant, autosomal recessive and X-linked diseases. The study aimed at identifying genes causing hereditary cataracts in Indian families. Patients with bilateral familial cataract with no associated developmental, systemic or ocular disorders and their family members were part of the study. A detailed ophthalmic evaluation was done to screen affected individuals for disease-causing alterations in genes known to cause hereditary cataract. The genes selected for screening were those encoding various crystallin proteins, which are the major structural proteins in the lens, and also connexins or gap junction proteins that maintain intercellular transport of molecules within the lens. Eight genes were screened in 40 patients. An insertion of a single base in the connexin-50 gene (GJA8) was found in two affected siblings in a family with recessive cataract. This mutation is expected to lead to truncated protein and is the first association of a connexin gene with recessive cataract in humans. Screening of the families for several other genes is in progress.

**Mutational screening of SLC4A11 gene in autosomal recessive congenital hereditary endothelial dystrophy**

**Investigators:** Chitra Kannabiran, Afia Sultana, Prashant Garg, BSR Murthy, and Geeta K Vemuganti. **Support:** HERF

Congenital hereditary endothelial dystrophy (CHED) is a hereditary corneal disorder in which patients develop corneal opacities leading to loss of vision at birth or early in life. CHED involves a defect in the corneal endothelium, which normally functions as a pump, removing excess water from the cornea, thus maintaining it in a transparent state. Due to accumulation of water within the cornea, there is corneal edema and a bluish-white opacification resembling “ground glass”.

Our earlier studies on autosomal recessive CHED had led to the gene underlying this disorder being identified as SLC4A11, a gene coding for a transporter protein that probably functions in transport of anions across the cells.

DST: Department of Science and Technology, Government of India, New Delhi; HERF: Hyderabad Eye Research Foundation, Hyderabad; DBT: Department of Biotechnology, Government of India, New Delhi; CSIR: Centre of Scientific and Industrial Research, Government of India, New Delhi; ICMR: Indian Council of Medical Research, Government of India, New Delhi;

SLC4A11: a gene coding for a transporter protein that probably functions in transport of anions across the cells.
We screened a larger group of patients with recessive CHED to determine mutations in SLC4A11 in CHED. Forty-two families (49 affected and 73 unaffected members) affected with recessive CHED underwent ophthalmic evaluation as well as mutational screening. The corneal buttons of these patients were evaluated by histopathology. Twenty-seven different mutations were identified in 35 unrelated families, of which 19 are not previously reported. These comprised 13 missense, five nonsense, seven deletions, one complex (deletion plus insertion) mutation, and one splice site mutation. Examination of this mutation data with clinical and histopathologic features of the patients did not reveal any obvious correlation between genotype and phenotype. These studies establish the high degree of mutational heterogeneity in autosomal recessive CHED in Indian patients.

**Evaluation of tear film proteinases in the pathogenesis of human fungal keratitis.**

**Investigators:** Joveeta Joseph, Usha Gopinathan, Prashant Garg, Geeta K Vemuganti, D Balasubramanian, Savitri Sharma. Support: CSIR*

The study is aimed at determining whether matrix metallo-proteinase activity in tears of patients with mycotic keratitis will affect the disease course. The test group included 5 eyes each with active or healed fungal keratitis and control group included 10 normal eyes. Tears were collected by Schirmer’s strips, eluted using extraction buffer and analyzed by gelatin zymography. Proforms of MMP-2 and MMP-9 were detected in the control group in contrast to active MMP-2 and MMP-9 in active ulcer cases. Only active MMP-2 was detected in patients with healed ulcers. Evaluation of MMP activity in the tears might help understand disease progression in fungal keratitis.

**Detection of biofilms forming capability of ocular isolates of coagulase negative staphylococci and effect of biofilm inhibitors.**

**Investigators:** Aparna Duggirala, Dorairajan Balasubramanian, Savitri Sharma. Support: HERF

This study compares the methods used to assay biofilm formation and the efficiency of biofilm inhibitors in coagulase-negative staphylococci (CoNS) isolated from human eyes with or without infection. It also studies the synergy of biofilm inhibitors on the action of gatifloxacin on the growth of fluoroquinolone-resistant strains of CoNS. The test group included CoNS isolated from patients with microbial keratitis (n=25) and endophthalmitis (n=13). Controls were non-pathogenic CoNS isolates (conjunctival sac, n=18). Biofilm formation was monitored by PCR for the ica AB gene and by phenotypic assays.

Our results showed that phenotypic methods differentiated pathogenic CoNS from non-pathogenic. Quercetin and EGCG appear best biofilm inhibitors. They also appear to act in synergy with gatifloxacin in inhibiting the growth.

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

**Investigators:** Virender Singh Sangwan, Geeta K Vemuganti, D Balasubramanian, Anees Fatima, M Lakshmi Soundarya. Support: DBT*

During this year, 103 cases of limbal stem cell deficiency (101 unilateral and 2 bilateral cases) were treated with cultivated limbal epithelial transplantation. Of these 101 were autologous cultivated limbal epithelial transplants while 2 were co-cultures of limbus and conjunctiva. Of these 101 were autologous, while 2 were allogenic. No complications have been seen in these cases; all the patients are doing well.

The mean of these patients was 22 years, including 33 children. The etiology was mostly chemical burns; other causes included thermal burns, firecracker burns, blast injuries, Stevens Johnson Syndrome, etc.

Cultivation and characterization of oral mucosal epithelium for regenerating ocular surface in patients with bilateral limbal stem cell deficiency

**Investigators:** Yashoda Ghanekar, Soundarya Laxmi Madhira, Anirban Bhaduri, Virender S Sangwan, Geeta K Vemuganti. Support: DBT, HERF

This study is aimed at reconstructing the ocular surface in patients with bilateral limbal stem cell deficiency using autologous oral epithelial cells. Ocular surface reconstruction in these patients is currently performed using allogenic limbal epithelial transplants while 2 were cultivated limbal epithelial transplantation. Of these 101 were autologous cultivated limbal epithelial cells, cultivated limbal epithelial transplanted while 2 were cultivated limbal epithelial transplants.

In this study, we have been successful in establishing healthy, contamination-free and feeder cell-free cultures from oral mucosa with a success rate of 40%. The tissue was harvested from healthy volunteers after informed consent and was cultured as an explant using de-epithelialized amniotic membrane. The cultures were confluent within 3-4 weeks, underwent stratification to form 2-3 layers of epithelial cells and were devoid of goblet cells. RT-PCR and immunohistochemical analyses showed that the cultures expressed markers such as cytokeratins K3, K15, a-enolase, connexin 43 that are also expressed by cultivated limbal epithelial cells. The cultures also expressed p75, a stem cell marker for oral epithelial cells, and p63 — a marker for limbal stem cells. Electron microscopy studies show that these cells adhere well to the basement membrane and also form intercellular gap junctions and tight junctions. The studies indicate that cultivated oral mucosal epithelial cells are morphologically and phenotypically similar to cultivated limbal epithelial. The project will now go into the clinical phase, where cultivated autologous
oral mucosal epithelial cells will be transplanted into patients with bilateral limbal stem cell deficiency.

**Isolation of bone marrow stromal cells and attempts to transdifferentiate them into neuroretinal cells.**

**Investigators:** Geeta K Vemuganti, T Das, D Balasubramanian, K Purushottam Reddy. **Support:** DBT

During this year, we tried two methods of differentiation for retinal photoreceptor lineage: using retinal pigment epithelium 65 (RPE65) cell line conditioned media and also co-culture standardizations in this regard are in progress. The molecular characterization of BMSCs differentiated into neuronal lineage by RT-PCR and Western Blotting is in progress. We are now standardizing the isolation protocol of murine stromal cells. Dr Shalesh Kaushal of the University of Florida is helping us with the electrophysiology experiments in animal models.

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

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

It is believed that some tumor cells in retinoblastoma could probably contribute to chemoresistance, recurrence and metastatic potential of retinoblastoma. This subset of cells may have stem cell like properties and could be evaluated by clonal culture, presence of specific markers and by in-vitro assays. We believe this will improve our knowledge on the pathobiology of tumor progression, resistance, metastasis and be useful in designing effective and targeted therapies.

The primary cultures from retinoblastoma are in progress. We also initiated work on Y79 retinoblastoma cell lines, and initiated clonal assays in these cell lines. An interesting observation was made while evaluating the putative stem cells in about 50 cases of Ocular Surface Squamous Neoplasia (OSSN). The differential expression in invasive and in-situ lesions raises a possibility that they play an important role in proliferation and differentiation.

**Variants in the 10q26 gene cluster (LOC387715 and HTRA1) exhibit enhanced risk of age-related macular degeneration along with complement factor H in Indian patients**

**Investigators:** Inderjeet Kaur, Subhabrata Chakrabarti, Yashoda Ghanekar, Saritha Katta, Avid Hussain, Nazimul Hussain, Raja Narayan, Annie Mathai, Subhadra Jialal, Rajiv K Reddy, K Ramesh, Ajit B Majji. **Support:** HERF

AMD is a late-onset complex disorder with multifactorial etiologies. Both genetic and environmental factors play a role in the disease pathogenesis. AMD is the third leading cause of blindness in the elderly. Familial aggregation, segregation studies and linkage analysis have provided both qualitative and quantitative evidence on the genetic basis in AMD.

Earlier, in a cohort of AMD cases in India, we had confirmed the association of the Tyr402His SNP in the Complement factor H gene (CFH) with AMD through LD and haplotype analysis.

As of now, we have screened 250 patients with age-related macular degeneration and 250 normal age-matched controls for SNPs in five candidate genes namely, Complement factor H, Apolipoprotein E, LOC387715, HTRA1 and Toll Like receptor 4 genes. AMD cases had a higher frequency of the risk alleles [LOC387715 (rs10490924) (p=4.47x10^-13), HTRA1 (rs11200638) (p=3.53x10^-6) and rs2672598 (p=4.88x10^-3)] and also exhibited higher disease odds in the corresponding risk genotypes. The "G-C-T-A-C" was the risk haplotype (p=4.66x10^-13), while the "G-C-G-G-T" haplotype was protective (p=7.40x10^-6). The additive effect of the CFH risk genotypes exhibited a PAR of 69.5% with LOC387715 (OR=8.83, 95%CI, 5.49-14.21) and 71.3% with HTRA1 (OR=7.67, 95%CI, 4.47-13.18). These associations underscore their significant involvement in AMD susceptibility and may be useful for predictive testing.

**Fork-head transcriptional factor gene (Foxl2) mutations in Indian patients with Blepharophimosis Ptsosis Epicanthus Inversus Syndrome**

**Investigators:** Inderjeet Kaur, Avid Hussain, Milind Naik, Santosh G Honavar. **Support:** HERF

Blepharophimosis-Ptosis-Epicanthus Inversus Syndrome (BPES) is an autosomal dominant rare eye disorder, and is of two types: The purpose of the study is to screen mutations in the FOXL2 gene in Indian BPES (familial and sporadic) cases so as to understand the disease pathogenesis. Four mutations and two variants in heterozygous state were identified in four families and one sporadic case, including two hot spot duplications (g.909-938dup 30 and g.1080-1096dup17), two frame shift mutation (g.1097delC, g.1041insC) and two variants (g.738C>T and g.773C>G). The variant g.738C>T was also identified in 13/60 (21.6%) normal individuals in the present study. Interestingly, in our study all the mutations identified localize to the downstream forkhead region of gene. The presence of mutations in the FOXL2 gene in all the six BPES families supports its role in the development of BPES in Indian patients.
## Status of Clinical Research Projects – Hyderabad Eye Research Foundation

<table>
<thead>
<tr>
<th>Project</th>
<th>Sponsor</th>
<th>Principal Investigator</th>
<th>Duration</th>
</tr>
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<tbody>
<tr>
<td>A prospective, single center, open-label feasibility clinical evaluation of an accommodating intraocular lens</td>
<td>Bausch &amp; Lomb (S) Pvt Ltd, Singapore</td>
<td>Dr V S Sangwan</td>
<td>April 2005 to September 2007</td>
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<tr>
<td>Protein Kinase C β inhibitor – reduction in the occurrence of center-threatening diabetic macular edema B7A-MC-MBDL</td>
<td>Eli Lilly &amp; Company</td>
<td>Dr Subhadra Jalali</td>
<td>September 2005 to 2009</td>
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<td>Posurdex study for DME</td>
<td>Allergan India Pvt Ltd</td>
<td>Dr Ajit B Majji</td>
<td>January 2006 to February 2010</td>
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<tr>
<td>Posurdex study for BRVO</td>
<td>Allergan India Pvt Ltd</td>
<td>Dr Annie Mathai</td>
<td>January 2006 to June 2008</td>
</tr>
<tr>
<td>An evaluation of the safety and efficacy of Moxifloxacin AF ophthalmic solution 0.5% for the treatment of bacterial conjunctivitis in India</td>
<td>Alcon (Quintiles)</td>
<td>Dr Prashant Garg</td>
<td>March 2006 to December 2006</td>
</tr>
<tr>
<td>A natural history study and genetic study of macular telangiectasia — the Mactel study</td>
<td>Mactel Foundation</td>
<td>Dr Raja Narayanan</td>
<td>October 2006 to 2011</td>
</tr>
<tr>
<td>Healthy eye study</td>
<td>Alcon (Quintiles)</td>
<td>Dr Prashant Garg</td>
<td>November 2006</td>
</tr>
<tr>
<td>DME — Macugen</td>
<td>Pfizer</td>
<td>Dr Subhadra Jalali</td>
<td>November 2006 to 2009</td>
</tr>
<tr>
<td>A study to evaluate the clinical and mirobial efficacy of 0.6% ISV-403 compared to VIGAMOX™ in the treatment of bacterial conjunctivitis</td>
<td>Bausch &amp; Lomb</td>
<td>Dr Prashant Garg</td>
<td>February 2007 to December 2007</td>
</tr>
<tr>
<td>Posurdex study for intermediate uveitis</td>
<td>Allergan India Pvt Ltd</td>
<td>Dr V S Sangwan</td>
<td>February 2007 to December 2007</td>
</tr>
<tr>
<td>MCS 650 device pilot study</td>
<td>Scy Fix</td>
<td>Dr Subhadra Jalali</td>
<td>March 2007 to 2009</td>
</tr>
</tbody>
</table>

## Research scholars at Prof Brien Holden Eye Research Centre

**Kallam Anji Reddy Molecular Genetics Laboratory**

**Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory**
Anees Fatima, K Purushotham Reddy, Naresh Polisetty, Soundarya Lakshmi Madhira, Murali Mohan Sagar Balla, G Subhash

**Biochemistry Laboratory**
Talla Venu, Madhavi Latha Chalasani

**Jhaveri Microbiology Centre**
Jouveeta Joseph, Aparna Duggirala

**Ophthalmic Pathology Laboratory**
M Guru Prasad
Publications


Astbury N, Ramamurthy B. How to avoid mistakes in biom-etry. *Community Eye Health* 2006; 19: 70-71


Das T and Rani A (eds.) Foundations in vitreoretinal disease, in *Diabetic Eye Diseases*; Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India; 2006: 31-41


Jalali S, Hussain A. We can aim at better results in coming years. Letter, Arch Ophthalmol. 2006; 124: 604-5; author reply 605-6


Jalali S, Ram LSM. Electrophysiological assessment in Diabetic Retinopathy. Diabetes ed. Das T. Jaypee Brothers, New Delhi, 2006 (Book Chapter)


Joseph J, Sridhar MS, Murthy SI, Sharma S. Clinical and microbiological profile of microsporidial keratoconjunctivitis in southern India. Ophthalmology 2006; 113: 531-7


Mandal AK, Matalia JH, Nutheti R, Krishnaiah S. Combined trabeculotomy and trabeculectomy in advanced primary developmental glaucoma with corneal diameter of 14mm or more. Eye 2006; 26: 135-143


Narayanan R, Kuppermann BD. Uncertain compassion in using a drug before the risks and benefits are known. Arch Ophthalmol. 2006; 124: 1032-4


Ramamurthy BS, Astbury N. How to avoid mistakes in Biometry. Community Eye Health Journal; 19: 70-71


Sahu SK, Murthy SI, Sangwan VS, Thomas R. Effect of the fourth-generation fluoroquinolones on corneal reepithelialization after penetrating keratoplasty. Cornea 2006; 25: 1130; author reply 1130-1

Sankararathi BM, Chakrabarti S. Understanding the genetics of primary glaucomas in Indian populations. Community Eye Health Journal 2006; 19: 581-582


Shome D, Honavar SG, Manderwad GP, Vemuganti GK. Ocular surface squamous neoplasia in a renal transplant recipient on immunosuppressive therapy. *Eye* 2006; 20: 1413-4


Sridhar MS, Majji AB, Vaddavalli PK. Severe inflammation following iris fixated anterior chamber phakic intraocular lens for myopia. *Eye* 2006; 20: 1094-5

Talla V, Narayanan C, Srinivasan N, Balasubramanian D. Mutations causing self aggregation in human gamma-C-Crystalline loading to congenital cataract. *Invest Ophthalmol Vis Sci.* 2006; 47, 5212-7


Tejwani S, Murthy S, Sangwan VS. Cataract extraction outcomes in patients with Fuchs’ heterochromic cyclitis.
Presentations

In addition to the following, our faculty participated in other international/national scientific and non-scientific forums during the year.

D Balasubramanian

International

Participant
Annual meeting, Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, USA. April 30 – May 4, 2006
Third World Academy of Science, Trieste, Italy. May 15-27, 2006
Member, Advisory Board
Bioethics Curriculum meeting, UNESCO, Paris, France. June 19-21, 2006, and Bioethics Curriculum meeting, UNESCO, Member, Advisory Board
Italy. May 15-27, 2006
4th International Conference on New Millennium Indian Technology Leadership Initiative (NMITLI) meeting, LVPEI, Hyderabad. July 24, 2006
Apex Committee meeting, Indian Institute of Science, Bangalore. August 25, 2006
Invited speaker
Centenary celebrations, Birla Institute of Technology and Science (BITS), Pilani, Rajasthan. September 15, 2006
Co-Chairperson
Invited speaker
Workshop on Moving Academy of Medicine, Inter-University Centre for Astronomy and Astrophysics, Pune. October 7, 2006
Chairperson
Invited speaker
Popular Science Talk, Gujarat Science City, Gandhinagar. October 30, 2006
Participant
Stem Cell Task Force meeting, National Centre for Cell Science, Pune. November 6-7, 2006
Invited speaker
Dr Ramalingaswamy Memorial Lecture, National Institute of Immunology, New Delhi. December 22, 2006
Chairperson
Invited speaker
Meeting of Indian Biophysical Society, All India Institute of Medical Sciences, New Delhi. February 13, 2007
Institute of Microbial Technology, Chandigarh. February 14, 2007
Foundation Day Lecture, National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab. February 15, 2007
National Science Day Lecture, National Chemical Laboratory, Pune. February 28, 2007

Shubhrakanti Bhattacharya

National

Faculty
Part-time management study program on social entrepreneurship, Centre for Social Initiative and Management, Hyderabad. April 8, 2006
Invited participant
International conference on Micro Health Insurance: Developing Pro-Poor Health Insurance in India, India Habitat Centre, New Delhi. November 1-2, 2006

Sanghamitra Burman

National

Paper presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Subhabrata Chakrabarti

International

Invited speaker
Participant
Glucoma collaboration meeting, New York Eye and Ear Infirmary, New York, USA. November 8, 2006
Invited speaker
Jules Stein Eye Institute, UCLA, Los Angeles, USA. November 10, 2006
Participant
Information and Planning Exchange meeting, Association of International Glaucoma Societies, Las Vegas, USA. November 11, 2006
Invited faculty/Poster presentation

National

Course director
Workshop on excitements in computation, national & biosciences, International Institute of Information Technology, Hyderabad. June 12, 2006
Chairperson
DBT Stem Cell Task Force meeting, Centre for Cellular & Molecular Biology, Hyderabad. June 17, 2006
AP Academy of Sciences meeting, National Geophysical Research Institute, Hyderabad. June 23, 2006
Mid-Year meeting, Indian Academy of Sciences, Bangalore. July 15, 2006
Stem Cell Task Force meeting, Department of Biotechnology, Government of India, New Delhi. July 17-18, 2006
New Millennium Indian Technology Leadership Initiative (NMITLI) meeting, LVPEI, Hyderabad. July 24, 2006
Apex Committee meeting, Indian Institute of Science, Bangalore. August 25, 2006
Invited speaker
Centenary celebrations, Birla Institute of Technology and Science (BITS), Pilani, Rajasthan. September 15, 2006
Co-Chairperson
Invited speaker
Workshop on Moving Academy of Medicine, Inter-University Centre for Astronomy and Astrophysics, Pune. October 7, 2006
Chairperson
Invited speaker
Popular Science Talk, Gujarat Science City, Gandhinagar. October 30, 2006
Participant
Stem Cell Task Force meeting, National Centre for Cell Science, Pune. November 6-7, 2006
Invited speaker
Dr Ramalingaswamy Memorial Lecture, National Institute of Immunology, New Delhi. December 22, 2006
Chairperson
Invited speaker
Meeting of Indian Biophysical Society, All India Institute of Medical Sciences, New Delhi. February 13, 2007
Institute of Microbial Technology, Chandigarh. February 14, 2007
Foundation Day Lecture, National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab. February 15, 2007
National Science Day Lecture, National Chemical Laboratory, Pune. February 28, 2007

Shubhrakanti Bhattacharya

National

Faculty
Part-time management study program on social entrepreneurship, Centre for Social Initiative and Management, Hyderabad. April 8, 2006
Invited participant
International conference on Micro Health Insurance: Developing Pro-Poor Health Insurance in India, India Habitat Centre, New Delhi. November 1-2, 2006

Sanghamitra Burman

National

Paper presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

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International

Invited speaker
Participant
Glucoma collaboration meeting, New York Eye and Ear Infirmary, New York, USA. November 8, 2006
Invited speaker
Jules Stein Eye Institute, UCLA, Los Angeles, USA. November 10, 2006
Participant
Information and Planning Exchange meeting, Association of International Glaucoma Societies, Las Vegas, USA. November 11, 2006
Invited faculty/Poster presentation
National Participant
Monitoring committee meeting, Council of Scientific and Industrial Research (CSIR) – New Millennium India in Technology Leadership Initiative (NMITLI) program, Centre for DNA Fingerprinting & Diagnostics, Hyderabad. July 24, 2006
Group meeting for CSIR-NMITLI data analysis, Indian Statistical Institute, Kolkata. August 7-18, 2006
Doctoral advisory committee meeting, Birla Institute of Technology and Science (BITS), Pilani, Rajasthan. August 30, 2006

Invited speaker
South East Asia Glaucoma Interest group (SEAGIG) annual conference, Glaucoma Society of India, Chennai. November 30 – December 3, 2006
European Molecular Biology Organization workshop on Human Evolution and Disease, Centre for Cellular and Molecular Biology, Hyderabad. December 6-9, 2006

Invited speaker/Poster presentation

Invited speaker
DBT Project Advisory committee meeting on Indo-Australian collaborative grant program, New Delhi. March 5, 2007

D S T Project A dvisory committee meeting on Indo-Tunisian collaborative grant program, New Delhi. March 28, 2007

International Beula Christy
Invited faculty
14th Low Vision Awareness Program (LAP) LVPEI, Hyderabad. March 31-April 2, 2006
15th Low Vision Awareness Program (LAP) LVPEI, Hyderabad. August 11-13, 2006

Taraprasad Das
Invited faculty
International symposium on ophthalmology, Chinese University of Hong Kong, Hong Kong. August 12-14, 2006

Invited speaker
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

National Invited faculty
International Retina Symposium, Retina Institute of Karnataka, Bangalore. August 10, 2006
Diabetes Symposium, Mohana’s M V Diabetes Center, Chennai. September 3, 2006
Diabetes Symposium, Pfizer Ophthalmics, Chennai. September 24, 2006

XV Vitreo-Retina Society of India conference, Kochi. December 7-9, 2006

Invited faculty
Summer meet of Vidarbha Ophthalmic Society, Gondia, Maharashtra. March 25, 2007

S Sheela Devi
National Faculty/Organiser
Lions – LVPEI capacity building project for management of diabetic retinopathy in Andhra Pradesh, LVPEI, Hyderabad. April 19, 2006
Training program for community workers, ICARE – LVPEI, Kismatpur, Hyderabad. June 5, 2006

Merle Fernandes
International Faculty
ORBIS Flying Eye Hospital program, Ilorin, Nigeria. August 26 – September 2, 2006

Chief instructor

National Faculty
ORBIS Flying Eye Hospital Program, Kuching, Malaysia, February 4-10, 2007

Vijaya K Gothwal
National Faculty
14th Low Vision Awareness Program (LAP), LVPEI, Hyderabad. March 31 – April 2, 2006
15th Low Vision Awareness Program (LAP), LVPEI, Hyderabad. August 11-13, 2006

Santosh G Honavar
International Invited faculty
Oman Ophthalmological Society, Muscat, Oman. February 6-8, 2007

Prashant Garg
International Instructor/Invited speaker

Usha Gopinathan
International Evaluator

Visiting scientist
London School of Hygiene and Tropical Medicine, University of London, London. October 19, 2006

National Faculty
Workshop on eye banking and quality practices, Ruby Hall Clinic, Pune. April 8, 2006

Organizer/Faculty
Zonal workshop on eye banking & corneal transplantation, Sri Sankaradeva Nethralaya, Guhawati. May 6, 2006
Zonal Workshop on Eye Banking & Corneal Transplantation, Lions NAB Eye Hospital, Miraj, Sangli. July 22, 2006

Invited faculty
Eye India 2006, Community Ophthalmology Conference, H V Desai Eye Hospital, Pune. September 30, 2006

Organizer/Faculty
Workshop on OR protocols, LVPEI, Hyderabad, India. January 28, 2007

National
Annual
Invited faculty
XIV Bombay Ophthalmological Society meet, Mumbai. September 9-10, 2006
30th Andhra Pradesh State Ophthalmic Conference, Kakinada, Andhra Pradesh. September 15-17, 2006
Joint Organizing Secretary/Chairperson/Invited faculty
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Anjli Hussain
International
Invited speaker
Incidence and risk factors for retinopathy of prematurity (ROP), World ROP Conference, Vilnius, Lithuania. September 14-16, 2006

National
Faculty
Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006

Nazimul Hussain
International
Invited speaker
Invited faculty
Invited speaker
CME, Hospital Tengku Ampuan Rahimah, Klang, Malaysia. September 2, 2006

Participant

National
Invited faculty
Annual meeting, Delhi Ophthalmological Society, New Delhi. April 1-2, 2006
Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006

Invited speaker
Photodynamic therapy for AMD, NOVARTIS Ophthalmics, Baroda. June 3, 2006
Photodynamic therapy for AMD, NOVARTIS Ophthalmics, Ahmedabad. June 4, 2006

Invited faculty
Evolution of AntiVEGF Therapy, Retina Update, Bombay Ophthalmological Association, Mumbai. July 9, 2006
Combination therapy of photodynamic therapy for neovascular AMD, Ganpathi Nethralaya, Jalna, Maharashtra. July 23, 2006
Indian AMD Congress, NOVARTIS Ophthalmics, Chennai. October 7-8, 2006
International symposium on Diabetic Retinopathy and AMD, Aravind Eye Hospital, Madurai. January 5-7, 2007

Subhadra Jalali
International
Presentation
44th International Society for Clinical Electrophysiology of Vision (ISCEV) meeting, Fontevraud Abbey, France. June 11-16, 2006
Visiting faculty
University Eye Hospital, Tuebingen, Germany. July 22, 2006

Instructor/Poster presentation

Invited speaker
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

National
Invited speaker
Annual meeting, Delhi Ophthalmological Society, New Delhi. April 1-2, 2006
Workshop on age-related macular degeneration, Pfizer Ophthalmics, LVPEI, Hyderabad. June 11, 2006
Diabetic retinopathy symposium, L V Prasad Eye Institute – Lions Club International Foundation, LVPEI, Hyderabad. October 8, 2006
Symposium on ocular trauma and Academic & Research Committee Session, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Korani Jyothi
National
Invited faculty
Teachers training program, Government High School, Kanchanbagh, and Chirec Public School, Hyderabad. November 2006

Organizer
School Screening Programs for Sight for Kids project, Shamshabad, Moinabad and Vikarabad mandals (Andhra Pradesh) & Chirec Public School, Hyderabad. December 2006 – March 2007
Field investigators review meeting, Impact Assessment of Refractive Error study, ICARE – LVPEI, Kismatpur, Hyderabad. February 10, 2007

Chitra Kannabiran
International
Keynote speaker/Paper presentation
First international seminar on Retinitis Pigmentosa & Allied Diseases, Pakistan Foundation Fighting Blindness, Islamabad, Pakistan. June 6-7, 2006
Poster presentations
International Congress of Human Genetics, Brisbane, Australia. August 6-10, 2006

Invited speaker
Centre for Eye Research Australia (CERA), University of Melbourne, Melbourne, Australia. August 11, 2006
Cornea and Contact Lens Research Unit (CCLRU), Sydney, Australia. August 14, 2006

National
Organizer

Invited speaker

Invited faculty

Inderjeet Kaur
International
Paper presentation
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007
National Institute of Sensory Organs, National Tokyo Medical Centre, Tokyo. March 14-29, 2007

National
Invited faculty
Indian AMD congress, NOVARTIS Ophthalmics, Agra. October 14-15, 2006

Invited speaker
3rd Macula workshop, LVPEI-NOVARTIS Macula Centre, L V Prasad Eye Institute, Hyderabad. December 3, 2006

Ramesh Kekunnaya
International
Invited speaker
Interactive lecture on interesting strabismus cases, Great Ormond Street Hospital for Children, London, UK. October 19, 2006

Free paper presentation
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

National
Invited speaker
XIV Bombay Ophthalmological Society meet, Mumbai. September 9-10, 2006

Video presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Sarfaraz A Khan
National
Faculty
14th Low Vision Awareness Program, LVPEI, Hyderabad. March 31 – April 2, 2006

Rohit Khanna
National
Invited speaker
Regional workshop on low vision aids in children, Indian alumni of International Centre for Eye Health (ICEH) – London, Raipur. May 1, 2006

Organiser
Vision CRC workshop, LVPEI, Hyderabad. February 4-5, 2007

D Kiran
National
Paper presentation
Vision CRC Workshop, LVPEI, Hyderabad. February 4-5, 2007

Invited speaker/Convenor

Vilas Kovai
International
Invited speaker
World Congress on Refractive Errors, Durban, South Africa. March 12-18, 2007

National
Invited speaker
NGOs meet on Vision Centre concept, Andhra Pradesh Right to Sight Society, Hyderabad. June 29, 2006
National Seminar on Revitalizing Rural Health Care in India, Apollo Institute of Hospital Administration, Hyderabad. November 6, 2006

Organizer
Planning meet of Health Communication Course in collaboration with institutions and individuals, Central University, Hyderabad. November 28, 2006

Pravin V Krishna
International
Instructor

Poster presentations
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

National
Invited faculty
Asia Pacific Regional Meeting of International Association of Contact Lens Educators (IACLE), LVPEI, Hyderabad. August 19-23, 2006

Faculty & Program director
36th Indian Contact Lens Education Program (ICLEP), LVPEI, Hyderabad. July 1-4, 2006

37th Indian Contact Lens Education Program, LVPEI, Hyderabad. November 30 – December 4, 2006

Instructor
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

S Krishnaiah
National
Invited speaker
XXIV Annual National Conference, Indian Society for Medical Statistics, PSG Institute of Medical Sciences and Research, Coimbatore. December 1-3, 2006

Meena Lakshmipathy
International
Invited faculty
Instruction Course, XXIV Congress of European Society of Cataract and Refractive Surgeons, London, UK. September 9-13, 2006

Ajit B Majji
National
Faculty
Annual meeting, Delhi Ophthalmological Society, New Delhi. April 1-2, 2006
Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006
Workshop on age related macular degeneration, Pfizer Ophthalmics, LVPEI, Hyderabad. June 11, 2006

Invited speaker
Retina Congress, Retina Institute of Karnataka, Bangalore. August 12, 2006
30th Andhra Pradesh State Ophthalmic Conference, Kakinada, Andhra Pradesh. September 15-17, 2006

Invited faculty
Ubbayagodavari Ophthalmic Association meeting, Tadepalleigudem. October 29, 2006

Chairperson for session/Faculty
XXV Vitreo-Retina Society of India conference, Kochi. December 7-9, 2006

Invited speaker
Instruction Course, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Hyderabad Ophthalmic Association meeting, Hyderabad. March 25, 2007
**Anil K Mandal**  
**International**  
**Instructor/Poster presentation**  

**National**  
**Invited speaker**  


XX Annual conference, North Zone Ophthalmological Society, Post Graduate Institute, Chandigarh. October 28-29, 2006

**Invited faculty**  
17th Workshop on glaucoma, Eye Care Institute, Chandigarh. October 28-29, 2006

**Invited speaker**  
Advisory committee meeting, L V Prasad Eye Institute, Hyderabad. January 29, 2007


**Annie Mathai**  
**National**  
**Faculty**  
Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006

**Invited speaker**  
Tamil Nadu Association State conference, Pondicherry, Tamilnadu. August 11-13, 2006

Diabetic retinopathy symposium, L V Prasad Eye Institute – Lions Club International Foundation, LVPEI, Hyderabad. October 8, 2006

6th annual meeting of Uveitis Society of India, Madurai. December 2-3, 2006

**Hema Mohan**  
**National**  
**Faculty**  
15th Low Vision Awareness Program (LAP), LVPEI, Hyderabad. August 11-13, 2006

**Invited faculty**  
National meeting of Shanti Swarup Bhatnagar Awardees, Devi Ahilya Bai University, Indore. March 8-10, 2007

**Manjula Marella**  
**International**  
**Paper presentation**  
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

**Srinivas Marmamula**  
**International**  
**Invited speaker**  
World Congress on Refractive Errors, Durban, South Africa. March 12-18, 2007

**National**  
**Convenor & Faculty**  
Para Medical Ophthalmic Assistants refresher course (supported by National Programme for Control of Blindness, Andhra Pradesh), ICARE – LVPEI, Kismatpur, Hyderabad. June 29 and July 1, 2006

**Ramesh Murthy**  
**International**  
**Invited faculty**  
ORBIS Flying Eye Hospital program, Ilorin, Nigeria. August 28 – September 2, 2006

**Poster/Free paper presentation**  

**National**  
**Invited speaker**  

**Paper presentation**  

**Strabismus Society of India meeting**  
Kolkata. October 14-15, 2006

**Paper/Poster presentation**  
Oculoplasty Association of India meeting, Lucknow. October 28-29, 2006

**Invited speaker**  
ORBIS project orientation workshop, ORBIS INDIA, Hyderabad. December 4-5, 2006

CME on amblyopia and pediatric ophthalmology, Jalaon, Maharashtra. January 21, 2007

**Faculty/Paper & Poster presentation**  
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

**Invited speaker**  

**Somasheila Murthy**  
**International**  
**Invited speaker/Faculty**  

**National**  
**Invited speaker**  
Department of Rheumatology, Nizam’s Institute Of Medical Sciences, Hyderabad. August 12, 2006

**Invited faculty**  
6th annual meeting of Uveitis Society of India, Madurai. December 2-3, 2006

Indian Contact Lens Education Program, L V Prasad Eye Institute, Hyderabad. November 30 – December 4, 2006

**Organizer/Faculty**  
Good Clinical Practice Workshop, LVPEI, Hyderabad. December 23, 2006

**Faculty/Poster presentation**  
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

**Organizer/Faculty**  
Twin cities pathology meeting, LVPEI, Hyderabad. February 15, 2007

**Moderator/Invited speaker**  
Hyderabad Ophthalmology Association meeting, Hyderabad. March 25, 2007
Milind N Naik
International
Invited speaker
24th Annual meeting of European Society of Ophthalmic Plastics and Reconstructive Surgery (ESOPRS), London, UK. September 13-16, 2006

Video presentation

Invited speaker/Video presentation

Raja Narayanan
International
Poster presentation

National
Faculty
Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006

Poster presentation
XV Vitreo-Retina Society of India conference, Kochi. December 7-9, 2006

Invited speaker/Poster presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

B Padmavathi
National
Participant

Faculty
15th Low Vision Awareness Program (LAP), LVPEI, Hyderabad. August 11-13, 2006

Rajul S Parikh
International
Instructor/Poster presentation

National
Invited speaker
Bombay glaucoma meet, Pfizer limited, Mumbai. April 9, 2006
CME on Glaucoma, Sarojini Devi Eye Hospital, Hyderabad. July 30, 2006
XIV Bombay Ophthalmological Society meet, Mumbai. September 9-10, 2006
South East Asia Glaucoma Interest group (SEAGIG) annual conference, Glaucoma Society of India, Chennai. November 30 – December 3, 2006

Free paper/Poster presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Avinash Pathengay
International
Video presentations

National
Invited speaker
XIV Bombay Ophthalmological Society meet, Mumbai. September 9-10, 2006
Udaya Godavari Ophthalmic Association meet, Taddepalleegudem, Andhra Pradesh. October 14, 2006
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Giridhar Pyda
National
Coordinator
Orientation Workshop for Pediatric Ophthalmology Learning and Training Centre (POLTC) project, LVPEI, Hyderabad. December 11-12, 2006

Kuldeep Raizada
International
Observer
Department of Ocular Prosthesis, Moorfield’s Eye Hospital, London, UK. September 2-6, 2006

Posterior presentation

Paper/Video presentation
International Panel of Ocularists, 49th annual meeting of American Society of Ocularists, Las Vegas, USA. November 11-14, 2006

Observer
Ocular Prosthetics, Houston, Texas, USA. November 15-21, 2006

Invited speaker
XIV Bombay Ophthalmological Society meet, Mumbai. September 9-10, 2006

International Panel of Ocularists, 49th annual meeting of American Society of Ocularists, Las Vegas, USA. November 11-14, 2006

National
Invited speaker
CME, Karnataka Ophthalmic Society, Bangalore. June 25, 2006

Paper presentation

Invited speaker
Ocularist Day Lecture, Aditya Jyot Eye Hospital, Mumbai. August 5, 2006
Workshop on ocular prosthesis, International Association of Contact Lens Educators (IACLE), LVPEI, Hyderabad. August 21, 2006

Invited faculty
Maharashtra Ophthalmologic Society Conference (MOSCON), Kolhapur, Maharashtra. October 13-15, 2006

Invited speaker
Aditya Jyot Optometry School, Mumbai. October 14, 2006

Paper presentations
XVII Congress of Ophthalmic Plastic Association of India (OPAICON), Lucknow. October 28-29, 2006

Convenor/Invited speaker/
Paper presentation
Contact Lens Symposium and First Ocularistry Symposium, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007
Usha Raman

**National**

**Paper presentation**

The International Critical Legal Studies Conference, NALSAR University, Hyderabad. September 1-3, 2006

Alka Rani

**National**

**Invited speaker**

Diabetic Retinopathy Awareness Program, Lions MS Reddy Lions Eye Hospital, Meerpett, Moula Ali (April 26, 2006) and Lions Eye Hospital, Dharmavaram, Andhra Pradesh (June 1, 2006)

Macula workshop, NOVARTIS Ophthalmics, LVPEI, Hyderabad. May 21, 2006

D Deepa Rani

**National**

**Paper presentation**


**Invited speaker**

Workshop on ocular prosthesis, International Association for Contact Lens Education (IACLE), L V Prasad Eye Institute, Hyderabad. August 21, 2006

**Invited speaker/Paper presentation**

Ocularistry Symposium, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Gullapalli N Rao

**International**

**Invitee**

Workshop on Collaborative International Research Opportunities, National Eye Institute, Bethesda, Maryland, USA. April 19-20, 2006

**Keynote speaker**


Spoke on ‘Global partnerships: A way forward for the control of avoidable blindness’

**Invited speaker**


The Holmes lecture


Spoke on ‘Primary eye care for underserved population: LVPEI’s Vision Centre model’

The Holmes Lecture is the highest award for exceptional contributions in preventive ophthalmology, especially in the prevention of blindness in the Asia-Pacific region. It honors Dr William J Holmes, founder Secretary General of Asia Pacific Academy of Ophthalmology (APAO).


Spoke on

• Can VISION 2020 succeed
• The battle on cataract – innovation and evidence
• Teaching innovations in cataract surgery

31st annual meeting, The Ophthalmological Society of Nigeria, Kaduna, Nigeria. September 6-10, 2006. Spoke on ‘VISION 2020: The journey so far’


Spoke on ‘Challenges in delivering low vision services: VISION 2020 – the global initiative’


• VISION 2020
• Primary eye care model – Vision Centre model experiences
• Fung al keratitis: Medical or surgical treatment?


Spoken on

• IAPB perspective on refractive errors
• Vision Centre model

**National**

**Member**

Medical Education Working Group, National Knowledge Commission, New Delhi. October 1, 2006

Invited speaker


International Conclave of Lions Eye Hospitals of ISSAME Region, Lions Sight First, Mumbai. November 28, 2006. Spoke on ‘Childhood blindness – global initiatives’

Dr (Major) K Vullakki Gold Medal Oration


Invited speaker


Launch of Blue Revolution, WaterHealth India, Hyderabad. February 9, 2007. Spoke on ‘Primary eye care in rural areas’

Conclave of Lions Hospitals and Affiliated Hospitals, International Association of Lions Clubs, Pondicherry. February 10-11, 2007

Dr C Sambasiva Rao Oration, Indian Medical Association, Guntur. February 18, 2007

Partners Workshop, Operation Eyesight Universal (Canada), LVPEI, Hyderabad. March 8-9, 2007

Suryasnata Rath

**National**

**Free paper presentation**

Annual meeting, Oculoplastic Association of India (OPAICON 2006), Lucknow. October 28-29, 2006

P Rajeev K Reddy

**National**

**Invited speaker**

Tamil Nadu Association State conference, Pondicherry, Tamilnadu. August 11-13, 2006
Paper presentation
6th annual meeting of Uveitis Society of India, Madurai. December 2-3, 2006

Invited faculty
Instruction course, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Virender S Sangwan
International
Invited faculty
Human Cells and Tissues for Transplantation An International Symposium on Ethical and Policy Issues, WHO meeting, University of Zurich Ethics Centre, Zurich. July 16-18, 2006

Invited speaker

Invited faculty
Bascom Palmer Eye Institute, Miami, USA. November 16-17, 2006
Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007

National
Invited faculty
Annual meeting, Delhi Ophthalmological Society, New Delhi. April 1-2, 2006

Invited speaker
Uveitis Update, West Bengal Ophthalmic Society, Kolkata. June 18, 2006
Baroda Ophthalmic Society meeting, Ahmedabad. August 6, 2006

Invited faculty
Annual meeting, Bombay Ophthalmological Association, Mumbai. September 9, 2006
First National Medical Student Research Conference. Mooting Academy of Medicine and Biomedicine, Pune. October 5-8, 2006
Cornea Update, Aravind Eye Hospital, Madurai. November 4-5, 2006
11th International Conference of Asia Pacific Association for surgical tissue banking, Tata Memorial Hospital, Mumbai. November 24-26, 2006
Annual Uveitis Society of India meeting, Aravind Eye Institute, Madurai. December 2-3, 2006

CME, Bhubaneswar L V Prasad Eye Institute, Bhubaneswar. January 14, 2007
First meeting and international conference, Stem Cell Research Forum of India, Bangalore. January 29, 2007

Invited speaker/Poster presentation
Instruction course, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007
National meeting of Shanti Swarup Bhatnagar Awardees, Devi Ahilya Bai University, Indore. March 9-11, 2007

G Chandra Sekhar
International
Invited speaker

National
Coordinator
Glaucoma workshop, Glaucoma Society of India, Kolkata. April 29, 2006
GlauCon2006, Mid-term conference of All Assam Ophthalmological Society in association with Glaucoma Society of India, Silchar, Assam. April 30, 2006

Invited speaker
Vadodara Ophthalmic Association and Glaucoma Society of India, Vadodara. June 4, 2006

Invited faculty
Current issues in Glaucoma Diagnostics and Therapy, Rajan Eye Institute, Chennai. August 27, 2006
30th Andhra Pradesh State Ophthalmic Conference, Kakinada, Andhra Pradesh. September 15-17, 2006

Examiner
FRCS examination, Nanakram Medical College, New Delhi. September 17-21, 2006

Chief organizer, Invited speaker & Judge — free paper/poster session
South East Asia Glaucoma Interest group (SEAGIG) annual conference, Glaucoma Society of India, Chennai. November 30 – December 3, 2006

Invited speaker
CME, Bhubaneswar L V Prasad Eye Institute, Bhubaneswar. January 13, 2007

Invited alumni

Invited speaker/Free paper presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007
Invited speaker

B R Shamanna
International
Faculty
Module for M Sc course (Community Eye Health), London School of Hygiene and Tropical Medicine, London, UK. May 18-20, 2006

National
Invited speaker
Ophthalmic Society of West Bengal annual conference, Haldia. November 11-12, 2006

Keynote speaker
Kerala State Ophthalmic Surgeons meeting, Kochi. November 17-18, 2006

Presentation

Savitri Sharma
International
Paper presentation
Free paper, Ocular Microbiology and Immunology Group meeting, Las Vegas, USA. November 10, 2006

Instructor

National
Invited speaker
CME on Ocular Microbiology, Aravind Eye Hospital, Madurai. August 5, 2006

Invited faculty
Workshop, International Association of Contact Lens Educators (IACLE), L V Prasad Eye Institute, Hyderabad. August 18-23, 2006

Invited faculty
Amritsar Academy of Ophthalmology meeting, Amritsar. November 26, 2006

Invited speaker
CME program, APCON 2006 – 55th annual meeting of Indian Association of Pathology and Microbiology, National Institute of Mental Health and Neuro Sciences, Bangalore. December 5, 2006

Free paper presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Invited faculty
Workshop on Techniques and procedures in human parasitology, 10th annual meeting of Indian Association of Medical Microbiologists (AP chapter), Hyderabad. February 8-11, 2007
Summer meet of Vidarbha Ophthalmic Society, Gondia, Maharashtra. March 25, 2007

G Srinivas
National

Invited trainer
Training program for HAI Lab Inc., USA, and Aso Palav Eye Bank of Retina Foundation, India Sight Screener’s Foundation, Ahmedabad. October 7-8, 2006

Rishi Swarup
National

Invited speaker
Hyderabad Ophthalmic Association Meeting, Hyderabad. December 10, 2006

Free paper presentations
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Sushma Tejwani
International

Instructor/Poster & Video presentation

National

Paper presentation
Best paper in session and selected for finals in Col. Rangachary award session, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Video presentation
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Ravi Thomas
International

Invited speaker
Lebanese Ophthalmologic Society, Beirut, Lebanon. March 31 – April 2, 2006
ARVO meeting – 7th AIGS Information & Planning meet, Fort Lauderdale, USA. April 25 – May 12, 2006

National

Invited speaker
CME, glaucoma awareness program, MGM Eye Institute, Raipur. June 25, 2006

Geeta K Vemuganti
International

Invited speaker
Al Shifa Eye Institute, Rawalpindi. April 1, 2006
Centre of Excellence in Molecular Biology, University of Punjab, Lahore. April 3, 2006
University of Ottawa, Ottawa, Canada. June 27, 2006

Poster presentations

Invited speaker
Advances in stem cell research, European Consortium of Stem Cell Research & Ecole Polytechnique Fédérale de Lausanne (EPFL), University of Lausanne, Lausanne, Switzerland. September 10, 2006
2006 Euro StemCell Summer school on Stem Cells and Regenerative Medicine, Hydra, Greece. September 18 & 20, 2006

Invited speaker/Course Instructor

Instructor/Poster presentation

National

Invited speaker
STEM 2006, 3rd annual conference on Regenerative Medicine and Tissue Engineering, Society of Tissue Engineering and Regenerative Medicine, Bangalore. April 16, 2006
National seminar, Stem Cell Research: Bench to Bedside, Biotechnology & Bioinformatics, JNTU, Hyderabad. July 24, 2006
CYTOCON 2006, 36th annual conference of Indian Academy of Cytologists, Rajendra Institute Medial Sciences, Ranchi. November 5, 2006
11th International conference at Asian Pacific Association of Surgical Tissue Banks, Tata Memorial Centre, Mumbai. November 25-26, 2006
Second Bangalore Stem Cell Course and Workshop, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. November 30, 2006
First meeting and international conference, Stem Cell Research Forum of India, Bangalore. January 29 – February 1, 2007

Faculty/Coordinator for session
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Invited speaker
CME on stem cell research, Kasturi Medical College & Hospital, Guntur. February 24, 2007

Jachin D Williams
National

Faculty/Organiser
Presentations by LVPEI research fellows

Aparna Duggirala  
Jhaveri Microbiology Centre  
**Poster presentation**  
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Anees Fatima  
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory  
**Paper presentation**  
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

Joveeta Joseph  
Jhaveri Microbiology Centre  
**Invited speaker**  
Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

M Soundarya Lakshmi  
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory  
**Poster presentation**  
11th International Conference Asia Pacific Association of Surgical Tissue Banks (APASTB), Mumbai. November 24-26, 2006

First meeting and international conference, Stem Cell Research Forum of India, Bangalore. January 29 – February 1, 2007

Naresh Polisetty  
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory  
**Poster presentation**  
First meeting and international conference, Stem Cell Research Forum of India, Bangalore. January 29 – February 1, 2007

M Guru Prasad  
Ocular Pathology Laboratory  
**Poster presentation**  
First Asia Association for Research in Vision and Ophthalmology (ARVO) meeting, Singapore. March 2-5, 2007


K Purushotham Reddy  
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory  
**Poster presentation**  
75th Society for Biological Chemists (India) meeting, Jawaharlal Nehru University, New Delhi. November 8-11, 2006
Honors & Awards

Subhabrata Chakrabarti
- International Society for Eye Research (ISER) alignment travel fellowship (USA) for International Congress on Eye Research at Buenos Aires, Argentina, October 2006
- Nominated Member of Associate Advisory Board, Association of International Glaucoma Societies (AIGS): The Global Glaucoma Network, 2006 onwards
- Received INSA Young Scientist Medal of Indian National Science Academy, New Delhi. December 2006
- Elected to Executive Council of Indian Society of Human Genetics (ISHG) for 2007-2009

Taraprasad Das
- Distinguished Service Award at Asia Pacific Academy of Ophthalmology Congress meeting, Singapore. June 2006
- Elected Science Secretary, Asia Pacific Vitreo Retinal Society
- Elected Member, International Advisory Board, Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore. March 2007
- Installed as President of All India Ophthalmological Society (AIOS). February 2007
- Delivered Sudha Sutaria Oration at the Summer meet of The Vidarbha Ophthalmic Society, Gondia, Maharashtra. March 2007

Anees Fatima
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory Invited for a Pre-Doctoral Fellowship at the Fienberg School of Medicine, Northwestern University, Chicago, Illinois, USA. September 15 – December 15, 2006

Prashant Garg
- Appointed international advisory member of Canadian Journal of Ophthalmology

Usha Gopinathan
- Elected Vice President of Eye Bank Association of India (EBAI) for the triennium 2007-2010

Santosh Honavar
- Awarded Dr Surya Prasad Rao Oration and Gold Medal by Andhra Pradesh State Ophthalmological Society, September 2006
- Dr Siva Reddy International Award by the All India Ophthalmological Society (AIOS), Hyderabad. February 2007
- Dr R Hanumantha Reddy Award for Best Paper in Pediatric Ophthalmology by All India Ophthalmological Society (AIOS). February 2007
- Elected Chairman, South Asian Retinoblastoma Group. February 2007

Anjli Hussain
- Received Bernadotte Foundation for Children Eye Care Inc. USA Travel Scholarship to attend World ROP conference at Vilnius, Lithuania. September 2006

Subhadra Jalali
- Appointed member of All India Ophthalmological Society Task Force on Strategies to prevent Childhood Blindness in India, specifically in the field of Retinopathy of Prematurity (ROP). Invited member to the first meeting of the Task Force, Hyderabad. February 2007
- Convenor and host of first meeting of ROP interest Group in India at LVPEI, Hyderabad, February 2, 2007, to set up database of all ROP trained and practicing personnel in India and to streamline screening and treatment guidelines

Joveeta Joseph
Jhaveri Microbiology Centre
- IAMM Junior Best Paper Award for Clinico-Microbiological Profile and 16S rRNA Gene Based PCR Assay for Validation and Species Identification of Microsporidia causing Keratitis, XXX National Congress of Indian Association of Medical Microbiologists (IHAM), Nagpur, October 2006
- Conferred a PhD by the Birla Institute of Technology and Science, Pilani. January 2007

Inderjeet Kaur
- Received Young Investigator Award (Merit) in basic sciences at the Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore, March 2007. Also received a travel fellowship grant for the meeting.

Rohit Khanna
- Was part of a 3-member working group for selecting a regional training centre in each of the WHO regions and the selection of a centre in East Africa. August 2006
- The working group has been set up under the VISION 2020: Right to Sight initiative to explore the eye health human resources scenario, identify gaps in programs, and develop strategies addressing these gaps. The Carl Zeiss Corporation of Germany will support strengthening and developing one training centre per year, each in a different region.

C Madhavi Latha
Research Biochemistry Laboratory
- Received Young Investigator Award (Merit) in basic sciences at the Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore, March 2-5, 2007. Also received a travel fellowship grant for the meeting.

Soundarya Lakshmi Madhira
Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory
- Won Best Poster award for Cultivation of oral mucosal epithelium on denuded human amniotic membrane, at 11th International Conference of Asia Pacific Association of Surgical Tissue Banks, Mumbai. November 24-26, 2006
Ajit B Majji

Elected Secretary of Vitreo-Retina Society of India

Manjula Marella

Travel grant for the Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore. March 2007

Somasehila Murthy

- Received a travel grant fellowship for the Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore. March 2007
- Appointed treasurer of Uveitis Society of India
- Appointed reviewer of Expert Review of Ophthalmology

Rajul Parikh

Invited to join Associate Advisory Board (AAB) of Association of International Glaucoma Societies (AIGS); the membership will be for five years

Naresh Polisetty

Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory

- Won Best Poster Special Award in clinical biochemistry (B Narsingarao) for poster *Isolation and characterization of rat bone marrow stromal cells and their plasticity*, National Meet of Society of Biological Chemists (India), Jawaharlal Nehru University, New Delhi. December 2006
- Won Young Scientist and Best Paper award for paper on *Characterization of bone marrow stromal cells and evaluating their plasticity to neuronal lineage*, National Seminar on Stem Cells and Clinical Applications held in association with the Society for Regenerative Medicine and Tissue Engineering, Nagarjuna University, Guntur. December 2006

Kuldeep Raizada

- Received travel grant from Sir Ratan Tata Trust to attend the International Facial and Body Prosthetics Conference, West Cliff On-Sea, Essex, England, UK. August 2006
- Appointed South India representative for Association of School and College of Optometry (ASCO), India. August 2006
- South India representative for Indian Optometric Association. April 2006
- Invited as Peer Reviewer for International Journal of Anaplastology, USA. October 2006

K Ramesh

Travel grant for the Asia-ARVO (Association for Research in Vision and Ophthalmology) meeting, Singapore. March 2007

Gullapalli N Rao

Continues to be Member of SightFirst Advisory Committee, International Association of Lions Clubs, Oak Brook, Illinois, USA.

V S Sangwan

Elected Honorary Secretary of Asia Cornea Society

G Chandra Sekhar

- Nominated for membership to Glaucoma Research Society (ICO), Vancouver, Canada
- Elected President of Andhra Pradesh State Ophthalmic Society (APSOS) at the 30th APSOS Conference, Kakinada, Andhra Pradesh. September 2006
- Received Best Speaker award at an international conference held at Laxmi Eye Institute, Panvel. November 2006
- As President of Glaucoma Society of India, organized the Scientific Program of South East Asia Glaucoma Interest group (SEAGIG) annual conference held under the aegis of Glaucoma Society of India, Sankara Netralaya, Chennai. November – December 2006

Savithi Sharma


G Srinivas

Selected for Mary Jane O’Neill Fellowship in International Eye Banking by the Eye Bank Association of America (EBAA), October 21 – November 22, 2006. He was based at NorthWest Lions Eye Bank of Seattle, USA.

Rishi Swarup

- Nominated AP State Ophthalmic Society Representative to the AIOS Leadership Development Program; the first session was held at Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 2007
- Best paper of session, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 2007

Geeta K Vemuganti

- Appointed Life Patron, Al Shifa Trust Eye Hospital, Rawalpindi, Pakistan.
- Elected Member of National Academy of Medical Sciences. October 2006
- Elected President of Indian Association for Ophthalmic Pathologists
- Achievement Award by the American Academy of Ophthalmology, Las Vegas, USA. November 2006
MK Medium
A total of 17,089 MK medium vials were produced during the year. We distributed 14,289 vials of MK medium to 184 national eye banks and three international eye banks.

Amniotic Membrane
Amniotic membrane pieces of specific sizes were made available to ophthalmologists, including LVPEI alumni (fellows), for use in patients with ocular disorders requiring surface reconstruction surgeries and for use in research at LVPEI.

Surgery - 406 pieces (111 were distributed to LVPEI alumni)
Research - 338

Distribution of Corneal Preservation Medium

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Our Support

The year reinforced our faith in ourselves and in those who have supported our vision. It also gave us the opportunity to draw encouragement from new quarters. Large grants for research from foundations and government bodies were supplemented by smaller, more specific donations from a variety of philanthropic entities. And, of course, significant support continues to come from all the individuals and institutions in the private and public sector that have shared in our dreams.

In each issue of our Activity Reports (Quarterly and Annual), we present selected profiles of our major supporters. In the next few pages we present reports of some generous individuals and dedicated organizations.

In the past issues, we have presented profiles of Mr Sreekanth Ravi and Mr Sudhakar Ravi of California, USA; Dr K Anji Reddy of Dr Reddy’s Laboratories Limited, Hyderabad, India; Mr Subba Rao Makineni, California, USA; Mr P K Kanoria, Kolkata, India; Christoffel Blindenmission, Germany; Operation Eyesight Universal, Canada; Dr Jasti V Rattaiah & Mrs Jasti Ramanamma, USA; and Carl Zeiss, Germany.

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.
A common vision for primary eye care

Lavelle Fund for the Blind, Inc., New York, USA

The Lavelle Fund for the Blind, Inc., is based in New York City, United States, and is committed to supporting programs that promote the spiritual, moral, intellectual and physical development of blind and low vision people of all ages, with the primary focus being New York City. The Lavelle Fund also supports exemplary programs working to prevent, treat, and reverse vision loss in the developing world. Support is concentrated on programs that present evidence of program impact on the population served and plans for making measurable progress toward pre-determined goals in a specific time frame.

L V Prasad Eye Institute’s partnership with the Lavelle Fund began in 2004 with the signing of an agreement for developing a network of primary eye care centers around established service (secondary) eye care facilities in the underserved areas of rural Andhra Pradesh, India. Both organizations believe that a significant proportion of eye problems can be corrected if detected at the primary care level, which would also lead to substantial savings to the individual and community.

This understanding led to the replication of the piloted Vision Centre model (supported by Sight Savers International, UK) in two remote rural villages of Adilabad and Mahabubnagar district, Andhra Pradesh. The Vision Centre concept is aimed at providing primary eye care in the remote and underserved geographical areas of developing countries with a focused approach that addresses the main two challenges of eye care — accessibility and affordability.

In 2004, the Lavelle Fund for the Blind responded to LVPEI’s proposal of establishing 20 Vision Centres, attached to its two rural service centres in Adilabad and Mahabubnagar, the most underserved districts of Andhra Pradesh in the area of eye health. The Fund extended a substantial grant over a two-year period through the Indo-American Eye Care Society, Inc., and 20 Vision Centres were established during 2004 and 2005.

The Lavelle Fund’s support for LVPEI’s primary eye care network did not end there. In 2006 the Fund renewed its support, with a commitment to developing 30 more Vision Centres in Prakasam district (another backward district of Andhra Pradesh). The Prakasam district project will become a model where the entire population would have access to primary eye care. The Lavelle Fund is providing a generous grant over three years 2006–2009 for the model project.

In 2005, a Lavelle Fund team including Mr John J McNally, Board President, Mr John J Caffrey, Board Treasurer, Mr J Robert Lunney, Board Member, and Mr Andrew Fisher, Executive Director, came to India. They inaugurated the Bijnapally Vision Centre in Mahabubnagar district on November 9, 2005, and toured some of the VC sites. Bijnapally, situated 20 km from the Toodukurthy secondary service centre, is a hub for about 30 villages in the surrounding area.

Speaking on the occasion, Mr McNally explained why the Lavelle Fund had decided to support LVPEI in setting up Vision Centres, pointing out its excellent track record in providing eye health and the critical need for such initiatives.

LVPEI and the Lavelle Fund for the Blind, Inc., share a common vision — to make people see better. Through their partnership, LVPEI and Lavelle are reaching out to 1.5 million poor and needy people living in 600 villages in Adilabad, Mahabubnagar and Prakasam districts of Andhra Pradesh, India.
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As a nonprofit humanitarian organization, ORBIS International strives to eliminate avoidable blindness and restore sight in the developing world. ORBIS works closely with local communities, governments and hospitals to design programs that increase local skills, improve health care facilities and foster greater awareness of eye health issues.

It was 1982, when ORBIS’s Flying Eye Hospital took off on its first sight-saving mission — enabling doctors, nurses and other essential eye care health workers to enhance their skills through training programs, performing eye surgeries and managing eye diseases.

While the Flying Eye Hospital and its team continue to provide vital surgical training around the world, ORBIS has created permanent offices to focus on five priority countries: Bangladesh, China, Ethiopia, India and Vietnam. Ongoing national programs in these countries focus on the treatment and prevention of childhood blindness and blindness caused by cataract, trachoma and corneal disease. Country offices are run by local health professionals, who are responsible for developing comprehensive and integrated approaches to improve the quality and accessibility of local eye care services.

LVPEI participates in many of these initiatives by providing the required expertise. Faculty members of the Institute visit ORBIS training sites and lead the programs all across the developing world. The Institute’s technical staff also participates in these programs, acquiring technical experience in the area of medical photography, videography, operating room protocol, nursing, etc. A recent joint initiative is the Pediatric Ophthalmology Learning and Training Center (POLTC) program that focuses on the problem of childhood blindness.

ORBIS identified corneal blindness as one of the priority program areas in its global programmatic interventions. Strengthening eye banking and its management services at all levels has been recognized as a strategic opportunity for ORBIS in India as well. ORBIS has been supporting corneal blindness programs including eye-banking projects in India from 2001 onwards.

ORBIS lent its support to Indian eye banking through its collaboration with the Ramayamma International Eye Bank (RIEB) of L V Prasad Eye Institute and the Eye Bank Association of India. The various programs supported by ORBIS included promotion of the Hospital Cornea Retrieval Program (HCRP) across the country, training of eye bank personnel including corneal surgeons, capacity building of eye banks, policy influencing and research. For this wide range of activities, the Ramayamma International Eye Bank was chosen to be the International Training and Resource Centre for Eye Banking and Corneal Transplantation, jointly sponsored by ORBIS and ESI, Canada, in 2003.

The three-year collaborative program (2003 to 2006) has boosted corneal donations, totally eliminating the waiting list for corneal transplantation at L V Prasad Eye Institute. The Institute currently provides approximately 600 donor corneas annually to corneal surgeons in Andhra Pradesh and other parts of the country, besides performing over 900 corneal transplant procedures on an average every year.

The RIEB continues to be a model eye bank for all developing countries, and this has been made possible with the generous support of supporters such as ORBIS, ESI and others.
BHP Billiton and L V Prasad Eye Institute — a sustainable partnership

BHP Billiton is the world’s largest diversified resources company and has been operating in India for over 25 years. It remains committed to participating in India’s growth as both an investor and a supplier of commodities.

BHP Billiton is keenly interested in investing in the resources sector, covering a wide range of minerals and petroleum in India, and has been granted exploration permits in some Indian states where it is exploring a variety of projects in the mineral rich areas.

In line with its global charter, BHP Billiton is committed to working with local communities wherever it operates.

On October 4, 2005, BHP Billiton launched its India Development Foundation — BHP Billiton Sewa Society — with an initial outlay of US$3 million at a ceremony in Bhubaneswar, India. The Foundation’s purpose lies in creating a legacy that transcends mining activities and contributes to social development at the local level by investing in India’s human and social capabilities.

The Foundation will contribute to India’s education, health, rural development and indigenous development and will select partners for long-term community development projects. The BHP Billiton Sewa Society works through organisations assessed as having the requisite probity, proven delivery of outcomes for the poor and the capacity for long-term partnerships with BHP Billiton.

BHP Billiton found that L V Prasad Eye Institute met all these criteria. LVPEI became its first selected NGO to sign an agreement with the Foundation. Noting that the Institute’s charter aims at providing 50 percent of its surgical services free of cost to the economically disadvantaged, BHP Billiton decided to support LVPEI’s first sister tertiary care centre — Bhubaneswar L V Prasad Eye Institute in Orissa. The Foundation provided over US$500,000 to enable the Institute set up a high-quality surgical facility at Bhubaneshwar, two outpatient rooms, as well as provision of free outpatient care for the poor. The President of India Dr APJ Abdul Kalam formally inaugurated these facilities in July 2006.

BHP Billiton Sewa Society has also provided US$110,000 to take up the cause of supporting school eye care programs to extend world-class eye care to the school children in Orissa.

At the inauguration of the Bhubaneswar Eye Hospital, Chairman, L V Prasad Eye Institute, Dr Gullapalli N Rao, said, “This significant support from BHP Billiton is a great example of corporate social responsibility, making world-class eye care accessible to some of the most disadvantaged people of India. We are very pleased to have secured this collaboration with an internationally reputed corporation.”
Our Supporters (as of March 31, 2007)

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Institute for Eye Research, Australia
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Dr Parin Vakharia in memory of late Olive Swoboda, India
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Johnson & Johnson, India
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Tantia Group of Companies, India

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We apologize if we have misspelt your name or the name of your family member.
Please call or email us to help us update our records, in case of any errors.
## Support during the year

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See pages 2, 24 & 31 for more details of the LVPEI network.