



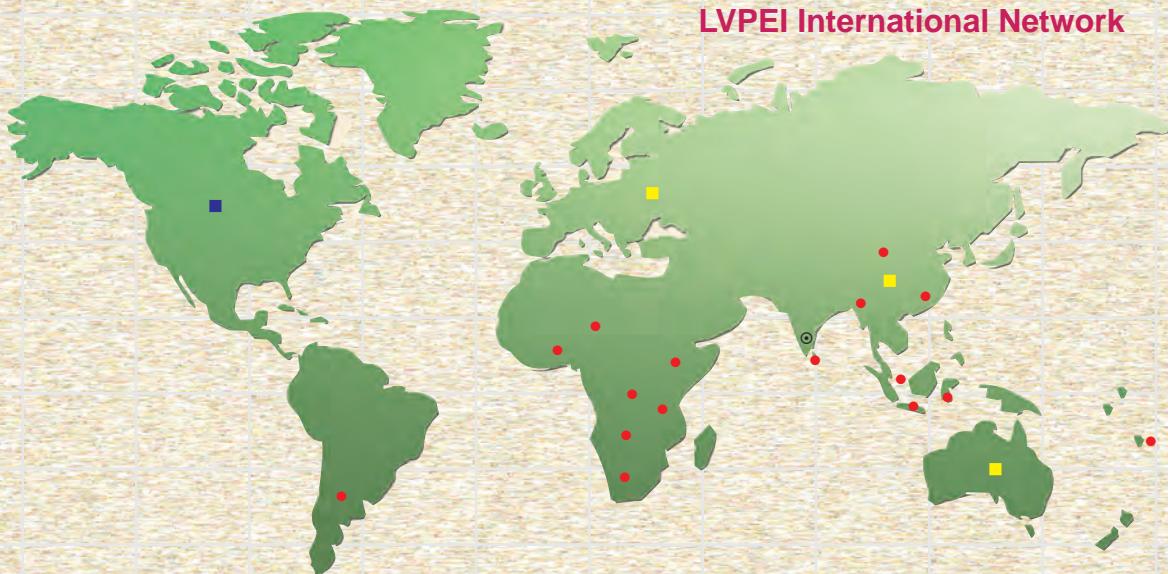
L V Prasad Eye Institute

Committed to excellence and equity in eye care

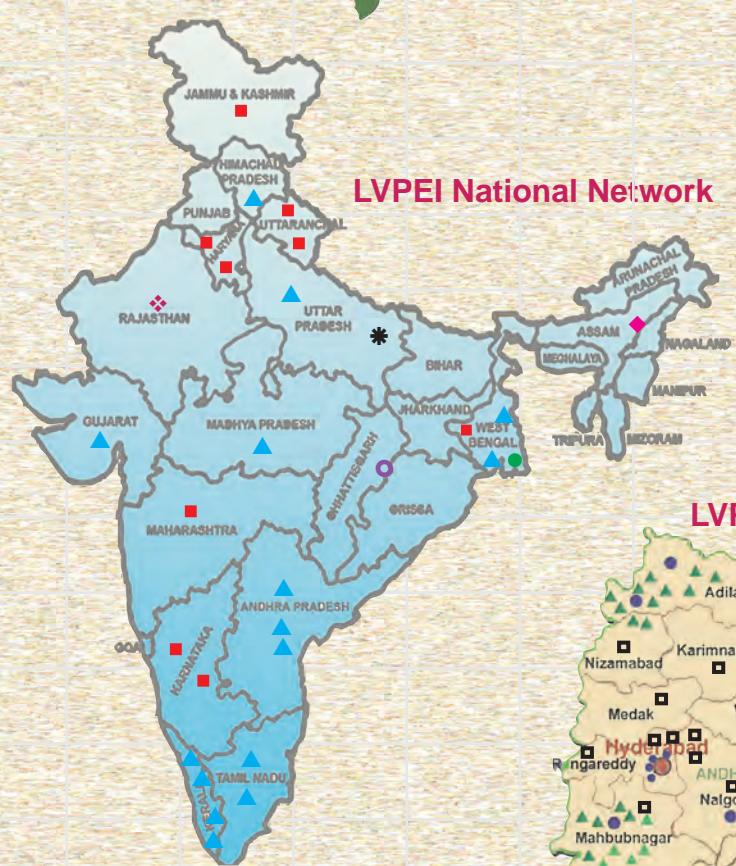


Annual Activity Report
April 2006 - March 2007

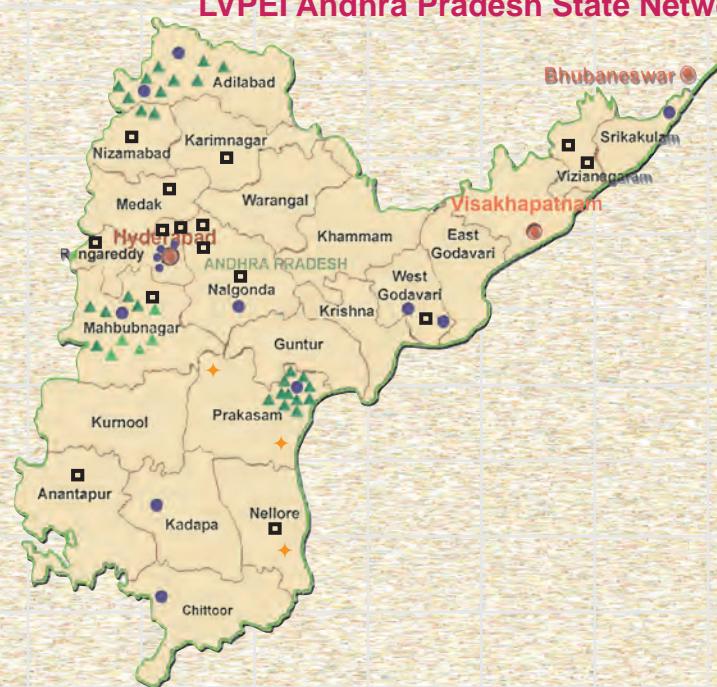
LVPEI International Network



LVPEI National Network



LVPEI Andhra Pradesh State Network



The year at a glance

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.

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

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

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.



L V Prasad Eye Institute

Committed to excellence and equity in eye care

Annual Activity Report

April 2006 - March 2007



Collaborating Centre for
Prevention of Blindness

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

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
Somasheila Murthy
B S Ramamurthy
Gullapalli N Rao
Rishi Swarup
Varsha Rathi

Bausch & Lomb Contact Lens Centre

Pravin V Krishna
Varsha Rathi
P Ruby Kala
Preeji Shyamsunder
M Vinod Kumar

Laser Refractive Surgery Centre

Prashant Garg
Pravin V Krishna
Somasheila 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
Anjli Hussain
Nazimul Hussain
Subhadra Jalali
Annie Mathai
Raja Narayanan
Rajeev K Reddy
L S Mohan Ram
Sumasri Mohan Ram

Uveitis & Ocular Immunology

Virender S Sangwan
Somasheila Murthy

Ophthalmic Plastic Surgery, Orbit, Ocular Oncology and Ocular Prostheses

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

Meera & L B Deshpande Centre for Sight Enhancement and

Dr PRK Prasad Centre for Rehabilitation of Blind & Visually Impaired

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
Somasheila 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)

Rahul Kumar Ali
S Bhattacharya
Sheela Devi
Rohit Khanna
S Krishniah
Giridhar Pyda
V Rajashekhar
N Rishita
B R Shamanna
Kovai Vilas
Jachin David Williams

Distinguished Chair of Eye Health

Gullapalli N Rao
Administration
Sam Balasundaram
Ghanshyam Singh Mirdha

P Sreedevi

L V Prasad Eye Institute Bhubaneswar

Director
Taraprasad Das

Cornea & Anterior Segment

Sujata Das
Srikant K Sahu

Glaucoma

Sanghamitra Dash

Ophthalmic Plastic Surgery, Orbit and Ocular Oncology

Suryasnata Rath

Retina Vitreous

Soumyava 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

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

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Foreword

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 re-organization 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 its 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), Hartex Rubber (Kolkata) and Infosys Foundation (Bangalore).

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

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.





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 Rajasekhara 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 Constructors; 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.

Ms Pat Ferguson, Operation Eyesight Universal, Canada, lighting the lamp at the inauguration



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 in the patients 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.



Foundation Day speakers: Mrs Lalitha Raghuram, Mr Ramesh Prasad, Dr Anji Reddy, and Dr F C Kohli

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.



Prof Rama Rao presents the certificate to Dr Nitin Dua; on the right is Dr Prashant Garg



An evening of song and dance!

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 Patel 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

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

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

Alumni news

Annual LVPEI Alumni meet



Dr V S Sangwan presents a cheque to Dr G N Rao at the alumni meet

The annual LVPEI alumni meeting was held during the day of October 17th. Dr G N Rao gave an overview of the Institute's evolution, reiterating its commitment to excellence with equity. LVPEI is the only institute in the world to set up integrated models of primary and secondary eye care with permanent infrastructure. The combination of primary eye care with cutting edge research and advanced tertiary care is also unique to LVPEI. Dr Rao announced that LVPEI had been chosen as one of the three global resource centres by the VISION 2020: The Right to Sight program.

The highlight of the alumni day program was a guest lecture on Leadership and Organisational Learning by Prof S Ramnarayan, faculty, Indian School of Business.

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 lenticonus 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.



Dr Virender Sangwan receiving the Shanti Swaroop Bhatnagar Award 2006 from the Prime Minister of India, Shri Manmohan Singh.



Dr T Das speaking at the annual meeting of the All India Ophthalmological Society

Patient Care

L V Prasad Eye Institute

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.



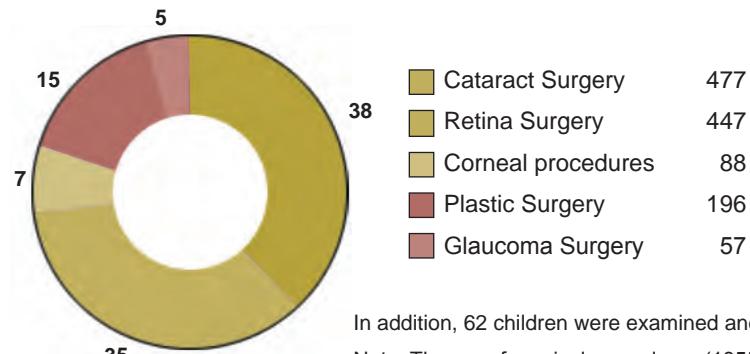
L V Prasad Eye Institute, Bhubaneswar

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

Services	Paying	Non-paying	Total
Outpatient visits (8 months)	12,412	4,181	16,593
Surgical procedures (4 months)	796	469	1265

Analysis of surgical procedures (%)



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.

Events

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.



Dr G Chandrasekhar, Dr Rath and Dr Mohanty at the Bhubaneswar Eye Meet

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.

L V Prasad Eye Institute, Visakhapatnam

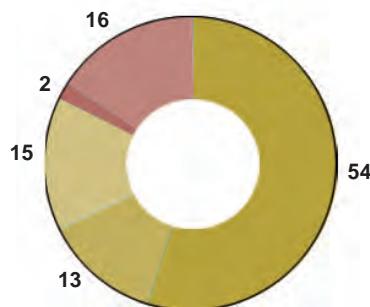
The L V Prasad Eye Institute, Visakhapatnam commenced patient care activities on July 7th 2006. On the first day over 100 patients registered and underwent detailed eye examinations. The operating room complex was operational from the month of November after a rigorous inspection. LVPEI, Visakhapatnam,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

Performance Statistics

Services	Paying	Non-paying	Total
Outpatient visits (8 months)	9,977	4,229	14,206
Surgical procedures (4 months)	431	271	702

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

New patients	38
Follow-up patients	8
Total	46

Optical Devices Prescribed

Spectacles	8
Bifocals	12
Magnifiers	11
Telescopes	17

Age-wise Analysis of Patients (%)

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

Non-optical Devices Prescribed

Reading stand	9
Reading lamp	13
Typo scope	2
Approach magnification	38
Light control devices	12
Closed circuit television	1

Rehabilitation Services

Counseling	118
*Special skills training	27



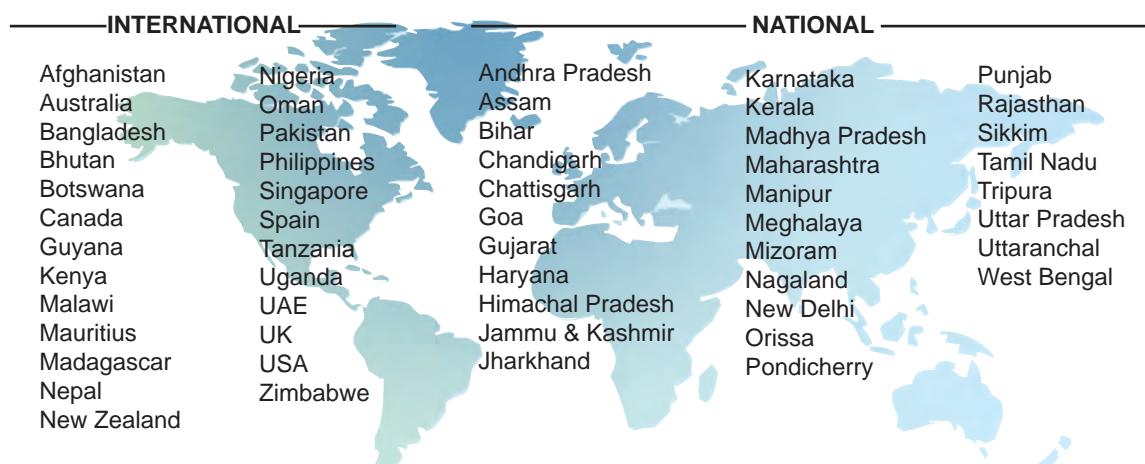
L V Prasad Eye Institute, Hyderabad

Hospital

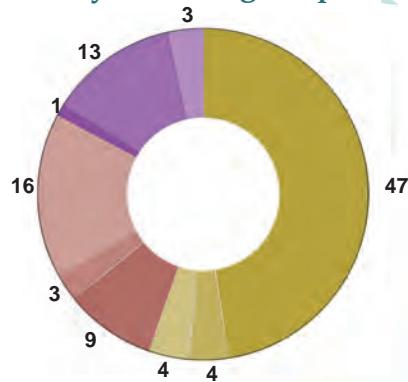
Performance Statistics

Services	Paying	Non-paying	Total
Outpatient visits	129,665	55,011	184,676
Surgical procedures	12,753	10,103	22,856

Patients from all over the world and across India



Analysis of surgical procedures (%)



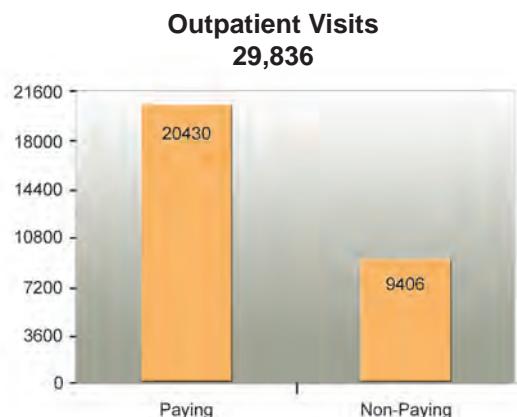
Cataract	10,879
Corneal transplants	882
Glaucoma surgeries	879
Plastic surgeries	2,028
Squint surgeries	585
Retina vitreous	3669
Lasers	251
Corneal surgeries	2946
Other surgeries	737

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*s)
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.



A child being examined under anesthesia

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.

Ramayamma International Eye Bank

L V Prasad Eye Institute, Hyderabad

"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."

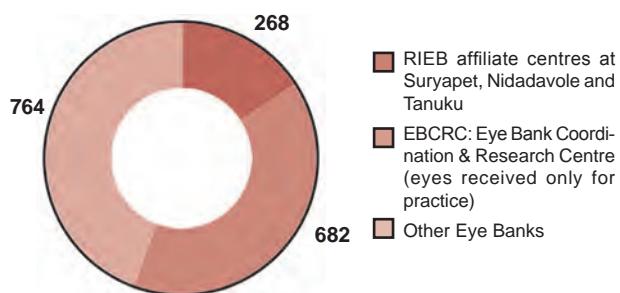
Expression of a donor family

Corneas collected (local & other eye banks) 1975+1032=3007	Corneal transplants performed at LVPEI 881
Corneas given to ophthalmologists outside the Institute 523	Corneal tissues used for research & training 1603

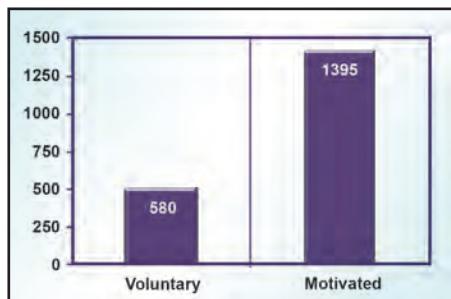
Community Eye Banking Program

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

Tissues received from RIEB affiliate centres



Hospital Cornea Retrieval Program – 1975



The Hospital Cornea Retrieval Program is supported by the Lions Club of Hyderabad, Majestic; ORBIS International, USA; and Eye Sight International, Canada. The program helped us to procure 1,395 donor corneas through motivation at the Nizam's Institute of Medical Sciences, CARE Hospitals, and Osmania General Hospital.

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 counselor, 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); Mullapudi Venkatrayudu Eye Center, Tanuku (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, Mancherial (8); Rotary Eye Hospital, Vuyyur (6); Sri Sai Rupa Netralaya, Repalle (6); Lions Club, Kothagudem (4); Dr Akbar Eye Hospital, Anantapur (4); Lions Dundoo Eye Institute, Secunderabad (4); Ramakrishna Hospital, Macherla (2); Anjani Putra Praja Seva Samiti, Adilabad (2); Lions Club, Mahabubnagar (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

Low vision care during the year	Optical devices prescribed
New patients	1467
Follow-up patients	618
Total	2085
Spectacles	312
Bifocals	139
Magnifiers	401
Telescopes	127

Age-wise analysis of patients (%)		Non-optical devices prescribed	
12		Reading stand	70
17		Reading lamp	65
40		Typoscope	--
31		Approach magnification	1398
		Light control devices	85
		Closed-circuit television	--

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

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



Children reading Braille storybooks at the centre

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.



Akkineni Nageswara Rao, doyen of Telugu cinema and Chief Guest, at World Sight Day



Children at the Fun Camp

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.



Spoken English classes being conducted by volunteers



Visually challenged children using computers with special software

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



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

Satellite and Partner Centres	Paying		Non-paying	
	Outpatients	Surgeries	Outpatients	Surgeries
Bhosle Gopal Rao Patel Eye Centre Mudhol, Adilabad District	9,201	788	6,881	1,424
Kuchukulla Ramachandra Reddy Eye Centre Thoodukurthy, Mahabubnagar District	6,422	346	4,309	1,130
Venkata Lakshmi Eye Centre Karamchedu, Prakasam District	4,007	274	4,805	1,041
Seshanna Chennawar Eye Centre National Highway Road, Adilabad District	5,273	223	3,370	815
Siloam Eye Centre Madanapalli, Chittoor District	12,194	417	2,612	308
Arogyavaram Eye Hospital & Contact Lens Clinic Sompeta, Srikakulam District	30,092	2,022	1,166	280
Mullapudi Venkatarayudu Eye Centre Tanuku, West Godavari District	9,285	665	2,147	301
Smt. Rajeshwari Ramakrishnan Lions Eye Hospital Nidadavole, West Godavari District	11,405	897	17,500	4,721
St. Gregorius Balagram Eye Hospital Yacharam, Ranga Reddy District	3,563	211	2,218	912
Lions Club of Suryapet Eye Hospital Suryapet, Nalgonda District	3,807	236	22,855	1,672
The Rotary Eye Hospital Proddatur, Kadapa District	5,133	243	8,250	1,968
Hyderabad Urban Centres				
M S Reddy Lions Eye Hospital Moula Ali, Hyderabad	7,856	396	5,918	1,161
Kishore Chand Chordia Eye Centre Begum Bazar, Hyderabad	4,006	148	9,739	901
Balanagar Lions Eye Hospital Balanagar, Hyderabad	10,196	160	2,937	333
LVP-VST Vision Screening Centre Ramnagar, Hyderabad	—	—	4,978	59
	Total	1,71,949	7026	1,00,20417,026
		Total Outpatients	2,72,153	
		Total Surgeries	24,052	

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, Mahaboobnagar
- Operation Eyesight Universal, Shreeramnagar

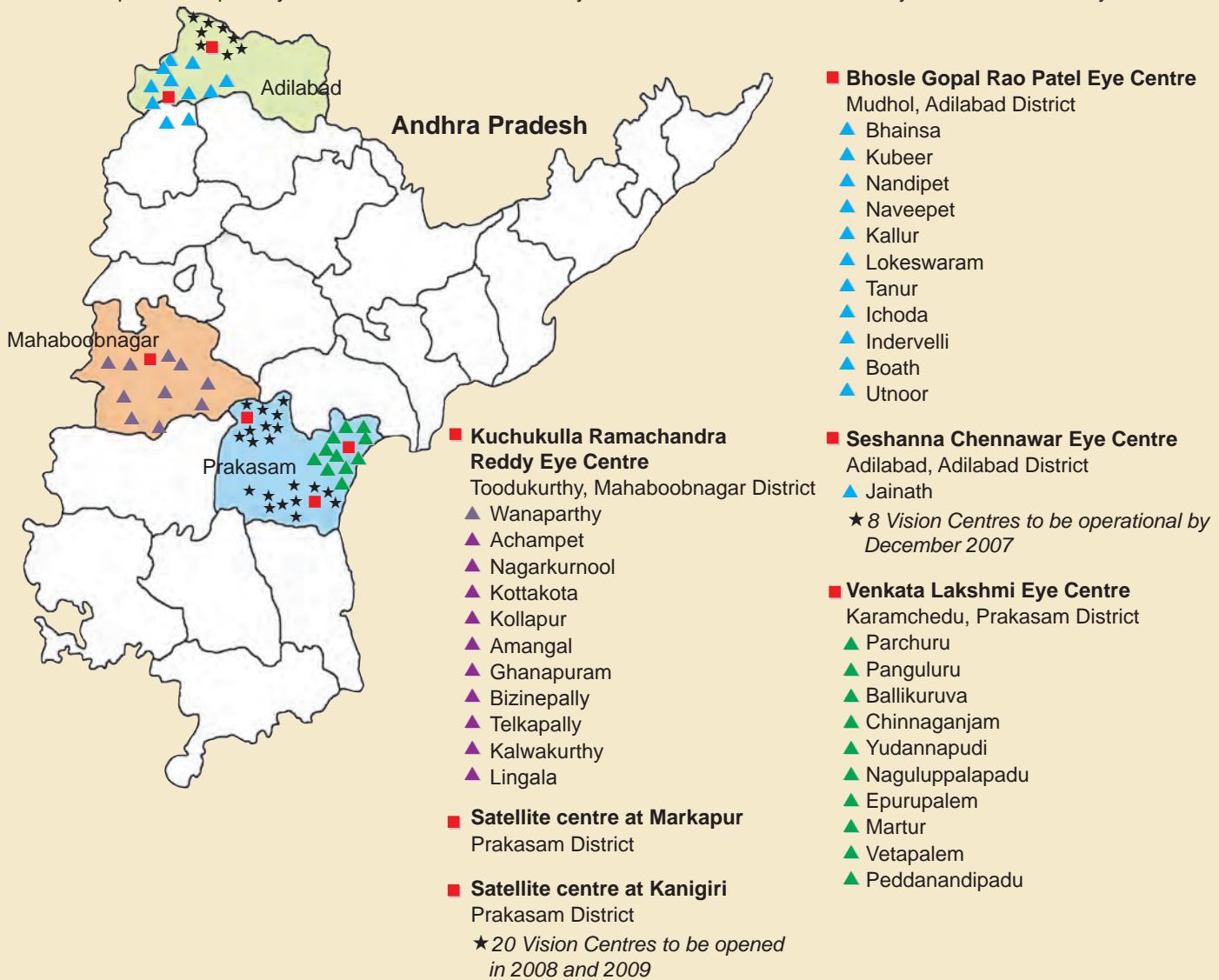
- Sadhuram Eye Hospital (Charitable Trust) & Post Graduate Institute of Ophthalmology, Hyderabad
- Shankara Nethralaya Eye Hospital, Hyderabad
- Lions Eye Hospital, Bodhan
- Lions Eye Hospital, Dharmavaram
- M S Reddy Lions Eye Hospital, Moula Ali
- Lions OEU Eye Hospital, Vizianagaram
- Lions Club of 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 **Lavelle 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

Performance Centre	Screening	Prescriptions	Given Spectacles	Visual Impairment	Referral to Service
Mahaboobnagar district					
<i>Kuchukulla Ramachandra Reddy Eye Centre, Toodukurthy</i>					
Wanaparthys	3273	1395	909	720	1244
Achampet	2685	709	355	255	717
Nagarkurnool	3715	1304	1091	251	1286
Kottakota	2127	580	388	240	704
Kollapur	1005	416	162	15	275
Amangal	1498	365	278	116	388
Ghanapuram	452	166	95	3	114
Bizinepally	1432	495	347	137	430
Telkapally	1144	485	364	46	297
Kalwakurthy	1351	536	300	71	323
Lingala	1399	511	291	142	371
Adilabad district					
<i>Bhosle Gopal Rao Patel Eye Centre, Mudhol</i>					
Bhainsa	7572	1470	1604	424	1345
Kubeer	2242	490	464	0	317
Nandipet	1762	479	363	10	568
Naveepet	2350	637	532	0	893
Kallur	1158	439	297	7	151
Lokeswaram	1519	518	485	385	472
Tanur	2114	578	545	0	620
Ichoda	2765	963	1006	345	621
Indervelli	1144	444	338	74	217
Boath	831	291	301	4	148
Utnoor	1232	557	377	43	224
Prakasam district					
<i>Venkata Lakshmi Eye Centre, Karamchedu</i>					
Parchuru	3787	1227	552	529	1026
Panguluru	2323	771	264	207	645
Ballikuruva	1249	396	119	226	543
Chinnaganjam	1708	427	169	812	689
Yudannapudi	1671	491	134	466	598
Naguluppala padu	458	131	90	252	93
Epurupalem	474	228	76	385	151
Martur	430	173	53	28	48
Vetapalem	203	64	23	142	80
Peddanandipadu	454	173	106	39	162
Total	57527	17909	12478	6374	15760

3. Community Eye Care through LVPEI service centres

a. Village Vision

Survey	Satellites	Partners
Villages/slums surveyed	352	11
Population surveyed	96,926	4,069
People identified with eye ailments and referred	17,020	408
Community Screening Programs		
CSPs organised	191	36
People screened	10,834	2,490
Treated at venue	1,271	467
Prescribed spectacles	4,485	981
Referred to base hospital	4,582	463
Services offered at base hospital		
People treated	902	799
Prescribed spectacles	507	33
Treated for other conditions	767	30
Surgeries performed	484	604
Diagnosed as irreversibly visually impaired/blind	47	Nil
School Screening Programs (SSP)		
No. of schools screened	110	3
No. of children screened	12,581	219
Identified with eye ailments	1,063	11
Treated for other conditions	1,773	Nil
Prescribed spectacles	625	7
Referred to base hospital	1,328	2
Surgeries	251	Nil

* 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	
Slums surveyed	4
Population covered through door to door survey	6,947
People identified with eye ailments and referred for eye examination	1,743
Community Screening Programs	
CSPs organized	42
People screened	5,701
Treated at venue	1,519
Prescribed spectacles	1,835
Referred to base hospital	1,561
Within normal limits	786
Referral Services at LVPEI-VST Screening Centre	
People treated at vision centre	4,136
Prescribed spectacles	2,048
Treated for other conditions	430
Cataract & other surgeries	60
Referred to secondary and tertiary care facilities	1,235
Within normal limits	363
LVPEI & Lakshmi Charitable Clinic Community Eye Care Program, Narsingi Village, Ranga Reddy district	
People screened	898
Treated at venue	243
Prescribed spectacles	75
Cataract	38
Referred to base hospital	323
Within normal limits	219
Kismatpur Vision Screening Centre, Kismatpur, Hyderabad	
People screened	1,153
Prescribed spectacles	398
Referred to base hospital	169
Cataract surgeries	2
Others/Within normal limits	584
School Screening Programs (SSP)	
No. of schools covered	12
No. of children screened	3,936
Identified with eye ailments	730
Treated for other conditions	195
Prescribed spectacles	143
Referred to base hospital	376
Social and educational rehabilitation	16

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, Bhosle 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.

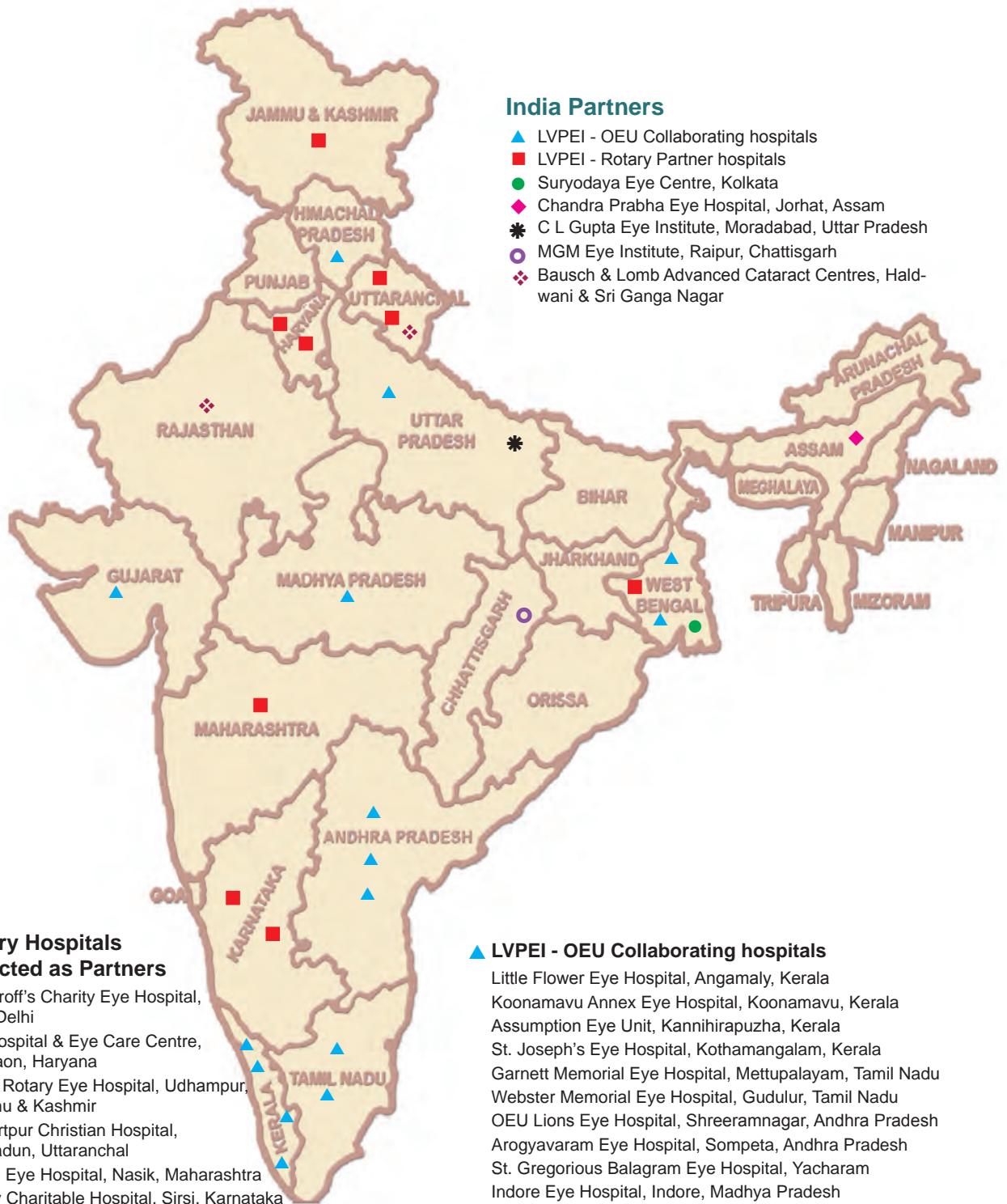
PERFORMANCE

	April 2006 to March 2007	Cumulative
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 2 nd year	3,738	4,757
Households renewed for 2 nd year	848	1,110
Renewals for 2 nd and 3 rd years	1,318	1,377
Households renewed for 2 nd and 3 rd 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



■ Rotary Hospitals selected as Partners

- Dr. Shroff's Charity Eye Hospital, New Delhi
 City Hospital & Eye Care Centre, Gurgaon, Haryana
 KLSM Rotary Eye Hospital, Udhampur, 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, Kannihirapuzha, 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 Shivedass 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



*Chandra Prabha Eye Hospital
Jorhat, Assam*

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, oculoplasty, 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)



A tribal woman undergoes an eye examination and is given a prescription by the vision technician at a vision centre



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.

Sight For Kids Phase II – June 2006 to March 2007

Schools covered	369
Teachers trained	415
Children screened by trained teachers	29,998
Persons screened by school screening teams	4016
Identified with eye ailments	759
Found within normal limits	2940

Diagnosis

Refractive error	140
Referred to Service Centres for treatment	619

Services

Spectacles prescribed	125
Advised to continue with same spectacles	15
Referred to ophthalmologists	619
Vitamin A deficiency	186
Blepharitis	10

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



ICARE staff working with self help groups in the Diabetes Prevention Program

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.

Screening Programs	193
Diabetic patients screened (hospital and outreach)	11,521
Patients identified with diabetic retinopathy	10,982
Patients treated	2,933
Patients referred for treatment	734
Training Programs	
Short-term fellows trained	6
Mid level ophthalmic assistants trained	7
Long-term fellows under training	1
Guest lectures	4



People lining up for blood sugar tests

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

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

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 Vidya Ranya Awasa Vidyalayam, Sri Saradham, 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 Narnoor 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 Nekemte 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, Rasoopura, 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 (APS), 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.





Patient Speak

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



Figure 1: An intensely red and inflamed right eye with an inturned lower eyelid; the bulge seen in the lower eyelid is because of the overacting eyelid muscles.



Figure 2: Botox injection being given into the lower eyelid muscle to induce temporary paralysis



Figure 3: A quiet right eye with the lower eyelid in normal position. The eyelashes are directed outwards and upwards and the bulge from overacting eyelid muscles has disappeared.

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

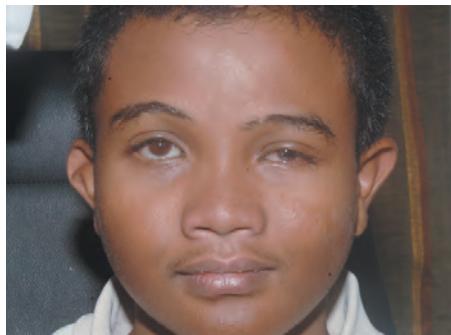
home, doctors found the visual acuity in his left eye had improved to 20/70 — about 75% of normal vision.

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!"



Saving Vision to Continue Saving Lives



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.

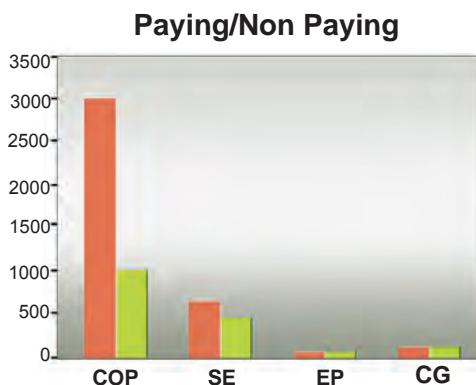
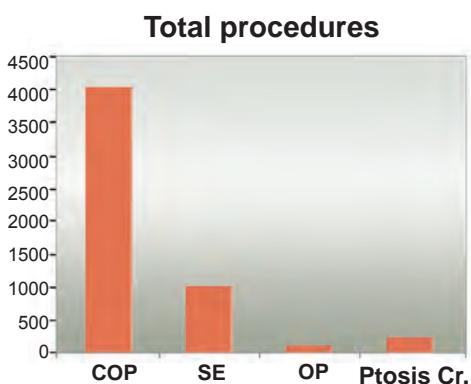
"When the bandage was removed the day after surgery, I could actually recognize the person sitting across from me! It was fabulous!" The excitement of that day can still be heard in his voice. In less than three months after surgery, Kiran was able to go back to work in the cardiology unit of his hospital, 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 Ocularist 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.

COP: Custom Ocular Prosthesis; SE: Socket Expanders; OP: Orbital exenteration Prosthesis;
Ptosis Cr.: Ptosis Crutch; CG: Crutch Glasses; EP: Exenteration Prosthesis

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 Dr 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





Education Centre

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.

Education Centre



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 Debasis Chakraborti	Kolkata, West Bengal
Dr K P Narendra	Sriringeri, 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 Haldarthe	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 Velaldanda 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
Dr Ch Manimala

Gorakhpur, Uttar Pradesh
Tanuku, Andhra Pradesh

Pediatric Ophthalmology (15 months)

Dr Siddarth Kesarwani
Dr Manish Shyamkul

New Delhi
Mumbai, Maharashtra

Pediatric Ophthalmology (3 months)

Dr Mahesh
Dr Dupe Popoola

Guntur, Andhra Pradesh
Ilorin, Nigeria

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology (15 months)

Dr Vikas Menon
Dr Sima Das

Amritsar, Punjab
New Delhi

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology (3 months)

Dr Rahul Deshpande
Dr Maj B V Rao

Pune, Maharashtra
Hyderabad, Andhra Pradesh

Retina Laser (1 month)

Dr Praful Gangashnakar Nakar
Dr Arul Malar
Dr Jasprit Singh Hans
Dr Renu Dhasmana
Dr Sonia Nankani
Dr Challa Jagannath
Dr Naeem Hussain
Dr Brijesh Panwar
Dr Manoj Khatri

Dhule, Maharashtra
Chennai, Tamilnadu
Patiala, Punjab
Dehradun, Uttarakhand
Mumbai, Maharashtra
Tirupati, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hissar, Haryana
Chennai, Tamilnadu

Phacoemulsification (1 month)

Dr Rajeeta Rani Jaiswal
Dr Kavitha Patil
Dr R C Mishra
Dr P B Dhagat
Dr Raman Mehta
Dr (Cap) Chandra Prakash Patel
Dr Ashok Kumar
Dr Chinmoyee Deka
Dr Ch Chandrasekhar
Dr Saima Jalal
Dr Mamata Choudhury

Hyderabad, Andhra Pradesh
Narkatpally, Andhra Pradesh
Dhanbad, Jharkhand
Chandrapur, Maharashtra
Kolkata, West Bengal
Berhampur, West Bengal
Hazaribagh, Jharkhand
Dimapur, Nagaland
Markapur, Andhra Pradesh
Rochester, USA
Hyderabad, Andhra Pradesh

Retinopathy of Prematurity (1 month)

Dr G V Narendra
Dr Sudhindra
Dr Dhiraj Jaiswal
Dr Rooshitha B Singh

Vijayawada, Andhra Pradesh
Kolar, Karnataka
Nagpur, Maharashtra
Nagercoil, Tamilnadu

Manual Small Incision Cataract Surgery (MSICS) (2 months)

Dr Manga Venkat	Visakhapatnam, Andhra Pradesh
Dr P Rajani	Proddatur, Andhra Pradesh
Dr Pravesh Jhaveri	Mumbai, Maharashtra
Dr Vasanti D Kulkarni	Mumbai, Maharashtra
Dr Shashidhar Pershad	Hyderabad, Andhra Pradesh
Dr Muralimanohar Reddy	Hyderabad, Andhra Pradesh
Dr Asheesh Bajaj	Chandigarh
Dr Rahul Bhargav	Palampur, Himachal Pradesh
Dr Prachi Barkute	Mumbai, Maharashtra
Dr Maya Saxena	Vidisha, Madhya Pradesh
Dr Manorama Singh Agarwal	Gorakhpur, Uttar Pradesh
Dr B V R Patnaik	Tanuku, Andhra Pradesh
Dr Anand Gawri	Muktsar, Punjab
Dr Sachala Bhoi	Sambalpur, Orissa
Dr K Krishna Prasad	Mangalore, Karnataka
Dr N Ratna Kumari	Vizianagaram, Andhra Pradesh
Dr Felix Chen	Chongqing, China

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.

Dr Aparna Dornadula	Hyderabad, Andhra Pradesh
Dr Paramesh Bharali	Guwahati, Assam
Dr Subhra Agarwala	Guwahati, Assam
Dr Parna Deb Roy	Guwahati, Assam
Dr Mrinal Modhur Borgohain	Guwahati, Assam
Dr Swapnali Sabhapandit	Guwahati, Assam
Dr Soma Paul	Guwahati, Assam
Dr Poonam Singh	Jamshedpur, Jharkhand
Dr Santosh Jajodia	Berhampur, Orissa
Dr Samir Kumar Patro	Berhampur, Orissa
Dr Parameshwar Jena	Berhampur, Orissa
Dr Sucharita Das	Sambalpur, Orissa
Dr Nibedita Sahu	Sambalpur, Orissa
Dr Lokesh Kumar Jalan	Dhanbad, Jharkhand
Dr Sanjiv Kumar Puri	Madurai, Tamilnadu
Dr Sangeeta Dabas	Dehradun, Uttarakhand
Dr Rajat Maheshwari	Dehradun, Uttarakhand
Dr Rashmi Srivastava	Varanasi, Uttar Pradesh
Dr Amit Raj	Varanasi, Uttar Pradesh
Dr Manjula	Hyderabad, Andhra Pradesh
Dr Sanjeeb Kumar Roy	Guwahati, Assam
Dr Tulika Baruah	Guwahati, Assam
Dr Barun Kakoty	Guwahati, Assam
Dr Abhishek Sharan	Meerut, Uttar Pradesh
Dr Vikrant Sharma	Meerut, Uttar Pradesh
Dr Jhumur Choudhury	Guwahati, Assam
Dr Meghali Sarma	Guwahati, Assam
Dr Hiranmoyee Das	Guwahati, Assam
Dr Gaurav Gupta	Meerut, Uttar Pradesh
Dr Prasanna Jit Das	Guwahati, Assam
Dr Shyamal Saha	Guwahati, Assam
Dr Pankaj Baruah	Guwahati, Assam

Dr Laxmidhar Jena	Berhampur, Orissa
Dr Erika Damato	Gayton, UK
Dr Bharti Arya	London, UK
Dr Sushobhan Das Gupta	Guwahati, Assam
Dr Simi Das	Guwahati, Assam
Dr Shahinur Tayab	Guwahati, Assam
Dr Sarika Gupta	Meerut, Uttar Pradesh
Dr Parul Goel	Meerut, Uttar Pradesh
Dr Karan Sarwal	Bhatinda, Punjab
Dr Sasmita Agasty	Burla, Orissa
Dr Omega Priyadarshini	Burla, Orissa
Dr Rashmi Rekha Dash	Burla, Orissa
Dr Arvind Roy	Cuttack, Orissa
Dr Sameera Naik	Cuttack, Orissa
Dr Rashmi Rath	Cuttack, Orissa
Dr Youpi Borgohain	Guwahati, Assam
Dr Chandana Kakati	Guwahati, Assam
Dr Dipankar Chakraborty	Guwahati, Assam
Dr Vijay Laxmi Raghav	Meerut, Uttar Pradesh
Dr Neha Mittal	Meerut, Uttar Pradesh
Dr Abul Arfa Mohammad	Aligarh, Uttar Pradesh
Dr Ashwini Suhas Rao	Hyderabad, Andhra Pradesh

LVP - ZEISS Advanced Course in Ophthalmic Diagnostics (15 days)

Dr Rajeev Gupta	Gwalior, Madhya Pradesh	Glaucoma
Dr Bharti Arya	London, UK	Glaucoma
Dr P Krishna Prasad	Visakhapatnam, Andhra Pradesh	Retina

Preceptorship

Ms Pauline Kang	University of New South Wales, Sydney, Australia
Ms Yumi Ogura	University of New South Wales, Sydney, Australia
Ms Nisha Sharma	University of New South Wales, Sydney, Australia
Mr Kymo El Ghitany	University of New South Wales, Sydney, Australia
Mr Adam Kelly	University of New South Wales, Sydney, Australia
Mr Kevin J Adams	University of New South Wales, Sydney, Australia

Observership

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

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
Ms Neha Shah

Dhaka, Bangladesh
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
Verkiculara Pavan Kumar	Hyderabad, Andhra Pradesh
Sayedha 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 Devaprakash	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)

Ms M Manjula	Adilabad, Andhra Pradesh	ICARE
Ms G Savitha	Adilabad, Andhra Pradesh	ICARE
Mr P Ganesh	Adilabad, Andhra Pradesh	ICARE
Ms B Shyamala	Mudhol, Andhra Pradesh	ICARE
Mr E Ram Das	Mudhol, Andhra Pradesh	ICARE
Mr Kadam Yogesh	Mudhol, Andhra Pradesh	ICARE
Mr U Vijay Kumar	Mudhol, Andhra Pradesh	ICARE
Ms U Sravani	Achampet, Andhra Pradesh	ICARE
Mr B Srinivasulu	Achampet, Andhra Pradesh	ICARE
Mr B Hareesh Kumar	Achampet, Andhra Pradesh	ICARE
Ms T Sravanthi	Tanubodhivari Palem, Andhra Pradesh	ICARE
Mr K Harinatha Reddy	Chinthagunta Palem, Andhra Pradesh	ICARE
Mr D Srivally	Karamchedu, Andhra Pradesh	ICARE
Mr M Sandeep Reddy	Chinthagunta Palem, Andhra Pradesh	ICARE
Mr Arvind	Podili, Andhra Pradesh	ICARE
Ms K Sudha Rani	Karamchedu, Andhra Pradesh	ICARE
Mr A Narsaiah	Donakonda, Andhra Pradesh	ICARE
Mr Durga Ramesh	Nidadavole, Andhra Pradesh	ICARE
Ms Usha Sri	Guntur, Andhra Pradesh	ICARE
Mr Naga Raju	Guntur, Andhra Pradesh	ICARE
Mr Amit Kumar	Chandausi, Uttar Pradesh	OEU
Mr Vineeth	Kerala	OEU

Batch 2007

Mr M Venkatesam	Hyderabad	KCCEC
Ms N Anitha	Hyderabad	Lions/ICARE
Mr Ch Ajay Kumar	Gudivada	Dr Sumathi, Sri Nethralaya
Mr Neeraj Kumar	Anandpur, Rajasthan	OEU, SOHARD
Ms Sirisha	Mahaboobnagar district	Lions/ICARE
Mr P Ajay Kumar	Adilabad district	ICARE
Mr K Hanumantha Rao	Adilabad district	ICARE
Mr M Ganesh	Adilabad district	ICARE
Mr Vittal	Adilabad district	ICARE
Mr Satish	Adilabad district	ICARE
Mr B Mallesh	Adilabad district	ICARE
Mr M Ravi Kumar	Adilabad district	ICARE
Ms Sruthi	Nidadavole, West Godavari district	Lions/ICARE
Mr V Rajesh	Prakasam district	ICARE
Mr Raja Krishna	Prakasam district	ICARE
Mr Madhava Rao	Prakasam district	ICARE
Mr P Srinivas	Prakasam district	ICARE
Mr G Srinu	Prakasam district	ICARE
Mr K Ravi Kumar	Prakasam district	ICARE
Mr Harinath Reddy	Prakasam district	ICARE
Mr Aravind	Prakasam district	ICARE

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	Pamulapahad, Nalgonda district, Andhra Pradesh
Mr Burri Subba Rao	Kadapa, East Godavari district, Andhra Pradesh
Mr Manjit Singh	Shivampet, Medak district, Andhra Pradesh
Mr B V M Prasada Rao	Guttavalli, Srikakulam district, Andhra Pradesh
Mr P V D Sivarama Subba Rao	Nutakki, Guntur district, Andhra Pradesh
Mr E Vishnu Murthy	Hyderabad, Andhra Pradesh
Mr Kummarai Satyanarayana	Bommasamudram, Chittoor district, Andhra Pradesh
Mr Patti Narayana Reddy	Rudravaram, Kurnool district, Andhra Pradesh
Mr V Balagangadhara Raju	Jalumuru, Srikakulam district, Andhra Pradesh
Mr R Venkata Ramana	Anantagiri, Visakhapatnam district, Andhra Pradesh
Mr Patel Ravinder	Pitlam, Nizamabad district, Andhra Pradesh
Mr Gosu Srinivasa Rao	Buchavaram, Krishna district, Andhra Pradesh
Mr Gandam Shanker	Kundaram, Adilabad district, Andhra Pradesh
Mrs Hannah Niveditha	Vikarabad, Ranga Reddy district, Andhra Pradesh
Mr Boreddy Rammohan Reddy	Gorantla, Ananthapur district, Andhra Pradesh
Mr Gudapati Bala Krishna	LND Peta, West Godavari district, Andhra Pradesh
Mr Ramesh Chandra Bhatta	Kailali, Nepal
Ms Deepti Bajaj	ORBIS Country Office, New Delhi (2 weeks)
Ms Jyoti Nagpal	ORBIS Country Office, New Delhi (2 weeks)
Ms Deepti Bajaj	ORBIS Country Office, New Delhi (2 weeks)
Ms Jyoti Nagpal	ORBIS Country Office, New Delhi (2 weeks)
Mr Ghan Bahadur Thaps	Nepal Gunj, Nepal (5 days)
Mr Prem Kumar Dixit	Nepal Gunj, Nepal (5 days)
Mr Ghan Bahadur Thapa	Nepal Gunj, Nepal (5 days)
Mr Prem Kumar Dixit	Nepal Gunj, Nepal (5 days)

Low Vision and Rehabilitation (3 months)

Mr Alok A Bhandari	Visnagar, Gujarat
Ms Asha U Fofaliya	Mumbai, Maharashtra
Dr Y Raman	Hyderabad, Andhra Pradesh
Ms Jasmine Davis	Angamaly, Kerala
Mrs Florence Mulenga Mwansa	Zambia, Africa
Mr Manish Mayer	Lucknow, Uttar Pradesh
Mr Birendra Pratap Singh	Etah, Uttar Pradesh
Mr Samrat Sarkar	Chennai, Tamilnadu
Mr Subani	Visakhapatnam, Andhra Pradesh
Ms Shanthi Priya	Visakhapatnam, Andhra Pradesh
Ms Radhika	Visakhapatnam, Andhra Pradesh

Eye Banking

Eye Bank Technicians (3 months)

Mrs Manashi De	Durgapur, West Bengal
Mr Vipul Aagja	Ahmedabad, Gujarat
Mr Nilesh Wankhade	Nagpur, Maharashtra
Mr A Anand Rao	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 Lekhwani	Jaipur, Rajasthan
Ms Geetanjali Parida	Bhubaneshwar, 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 Ogundipe	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)

Mr Kasuladeva Lokesh	Visakhapatnam, Andhra Pradesh
Mr Rahgu Rama Sastry D	Visakhapatnam, Andhra Pradesh
Ms Lakshmi D Ch	Visakhapatnam, Andhra Pradesh
Mr Kiran P V	Bhimavaram, Andhra Pradesh

Short-term Eye Care Program Management Course (4 weeks)

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

Eye Care Management Team Training Programs

Arogyavaram Eye Hospital, Sompeta, Srikanthapuram 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 Ponda Ganesh Behara	OT Technician

St. Gregorios Balagram Eye Hospital, Yacharam, Ranga Reddy District, Andhra Pradesh

Ms S Lily	Patient Counselor
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M S Reddy Lions Eye Hospital, Meerpet, 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
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Sri Nethralaya Vidya Shala, Gudiyada, 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
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L V Prasad Eye Institute, Bhubaneswar, Orissa

Ms Jenefa Jasprine Hezbibah	Rehabilitation Administrator
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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

Capacity Development Project for Management of Diabetic Retinopathy in Andhra Pradesh

Mid-Level Ophthalmic Assistants (2 months)

Ms Deena Borugadda	Sadhuaram 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 Etiya 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 Sreenivasa 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 Narendra Reddy	Ranga Reddy District, Andhra Pradesh
Mr CG Bramhananda Reddy	Anantapur, Andhra Pradesh
Mr M Ramesh	District Headquarters Hospital, Sangareddy, Medak
Mr K Srishylam	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 Krishnaketha	Dattampally, 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	Malkapoorn, Mahaboobnagar District
Mr Venkat Swamy S	Nallavally, Mahaboobnagar District
Mr Arjunaiah C	Yendachetla, Mahaboobnagar District
Mr Nagaiah C	Manthati, Mahaboobnagar District
Mr Srinu K	Nagarkurnool, Mahaboobnagar District
Mr Ramana Rao V	Pejjamuddunoor, Mahaboobnagar District
Mr Chandu Nayak M	Kashimnagar, Mahaboobnagar District

Mr Kondaiah Sagar A
Mr Srinivasulu V

Rajanagaram, Mahaboobnagar District
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	Nagapoor 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 Maltby	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

Bausch & Lomb School of Optometry



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

Education Day

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 Muneeeshwar 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 Ethakoti, Ms Safiya Sultana, Ms Naila Amreen S A Ali, Ms C Rebecca Sumalini

Batch 2006: Mr Verkiculara 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 Musipetla 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.

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 ICLEP participants against the backdrop of L V Prasad Eye Institute, Hyderabad

Worldwide Expertise



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.

General Lectures

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.

Mrs Sunitha Sapoort, Akshaya Foundation, Hyderabad, delivered a talk at ICARE – LVPEI, Kismatpur campus, on *Nutrition and its importance* on March 16, 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.



Eye Research

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 Champalimaud 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.

Origin and migration of disease-associated mutations in primary congenital glaucoma

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).



The migration of *CYP1B1* mutation across different countries worldwide. The colour of the arrow indicates a common mutation that is found on the background of the same haplotype across different populations. The direction of the arrows indicate the hypothetical route of migration of these mutations in different countries.

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 Vegeesna 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 caspases, 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- α 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

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 metalloproteinase 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 icaAB 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 allogenous limbal cells. However, problems such as lack of suitable allogenous limbal tissue and need for life-long use of immunosuppressants have prompted research for appropriate autologous substitute. Cultivated oral mucosal epithelium has been proposed as an alternative for ocular surface reconstruction in these patients.

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, α-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 cultured oral mucosal epithelial cells are morphologically and phenotypically similar to cultured 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 Narayanan, Annie Mathai, Subhadra Jalali, 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) ($p=4.47\times 10^{-13}$), HTRA1 (rs11200638) ($p=3.53\times 10^{-6}$) and rs2672598 ($p=4.88\times 10^{-8}$)] and also exhibited higher disease odds in the corresponding risk genotypes. The "G-C-T-A-C" was the risk haplotype ($p=4.66\times 10^{-13}$), while the "G-C-G-G-T" haplotype was protective ($p=7.40\times 10^{-6}$). 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 Ptosis 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

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

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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

Postgraduate Review & Conference Week, Vision CRC, Sydney, Australia. April 17-22, 2006

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 August 29-30, 2006

Annual meeting, Third World Academy of Sciences, Rio de Janeiro, Brazil. September 1-7, 2006

Invited speaker

Workshop on Protein Structure-Function Relationship, Karachi, Pakistan. January 13-14, 2007

Chairperson

UNESCO meeting on non-formal education, Islamabad, Pakistan. February 4-8, 2007

Invited lecturer/Referee for prizes

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

International Basic Sciences Program meeting, UNESCO, Paris, France. March 19-20, 2007

National

Course director

Workshop on excitements in computational, physical & 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, Depart-

ment 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

US-India Eye Research Collaboration Joint Working Group meeting, Department of Biotechnology, Government of India, New Delhi. September 28-29, 2006

Invited speaker

Workshop on Moving Academy of Medicine, Inter-University Centre for Astronomy and Astrophysics, Pune. October 7, 2006

Chairperson

Board Meeting, Life Sciences Research Board, Defence Research & Development Organisation, Government of India, Bangalore. October 19, 2006

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

Stem Cell Research Forum of India, Bangalore. January 29 – February 1, 2007

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

XVII International Congress of Eye Research, Buenos Aires, Argentina. October 29 - November 3, 2006

Participant

Glaucoma 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

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

32nd Annual Conference, Indian Society of Human Genetics, Kolkata. January 14-16, 2007

Invited speaker

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

DST Project Advisory committee meeting on Indo-Tunisian collaborative grant program, New Delhi. March 28, 2007

Beula Christy

International

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

International

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 speaker/Paper presentation

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

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

Community health workers training program, Hyderabad Health and Development Program, ICARE – LVPEI, Hyderabad. June 12-16, 2006

Merle Fernandes

International

Faculty

ORBIS Flying Eye Hospital program, Ilorin, Nigeria. August 26 – September 2, 2006

Chief instructor

Instruction Course, XXIV Congress of European Society of Cataract and refractive Surgeons, London, UK. September 9-13, 2006

Faculty

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

National

Invited speaker

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

Prashant Garg

International

Instructor/Invited speaker

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

Usha Gopinathan

International

Evaluator

Sandhani National Eye Donation Society of Bangladesh, ORBIS International Bangladesh Country Office, Dhaka. June 3-7, 2006

Visiting scientist

Bristol Eye Bank, Bristol, UK. October 17-18, 2006

Invited faculty

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

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

National**Invited faculty**

Symposium on ocular oncology, Ahmednagar Academy of Ophthalmology, Ahmednagar. April 30, 2006

Symposium on ophthalmic plastic surgery, Narayana Nethralaya and Karnataka Ophthalmological Society, Bangalore. June 25, 2006

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**

AMD-PDT – new avenues and anti VEGF therapy, College of Ophthalmologists of Sri Lanka, Colombo, Sri Lanka. April 30, 2006

Invited faculty

International Ophthalmology Conference, 20th anniversary celebrations, The Tun Hussein Onn National Eye Hospital, Kuala Lumpur, Malaysia. August 29 – September 3, 2006

Invited speaker

CME, Hospital Tengku Ampuan Rahimah, Klang, Malaysia. September 2, 2006

Participant

International AMD Congress, NOVARTIS, Geneva, Switzerland. September 23-24, 2006

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

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

Sight for Kids Teachers Training Program, Government Primary School, Kanchanbagh, Hyderabad. November 25, 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**

15th Indian Eye Research Group (IERG) meeting, L V Prasad Eye Institute, Hyderabad. July 29-30, 2006

Invited speaker

First meeting of Joint Working Group, Indo-US Collaboration on Expansion of Vision Research, Department of Biotechnology, Government of India, New Delhi. September 28-29, 2006

Invited faculty

International symposium on Current status: Genetics in ophthalmology, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

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

15th Indian Eye Research Group meeting, LVPEI, Hyderabad. July 29-30, 2006

Vision CRC Workshop, LVPEI, Hyderabad. February 4-5, 2007

Invited speaker/Convenor

Health Communication workshop, Centre for Research and Education, Hyderabad. March 2-3, 2007

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

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

Rajasthan Ophthalmic Society Annual meeting, Ajmer. November 23-25, 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 Lakshmiopathy

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, Tadepalle gedudem. October 29, 2006

Chairperson for session/Faculty

XV 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

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

National

Invited speaker

VII annual conference of All Tripura Ophthalmological Society, Tripura, Agartala. July 16, 2006

15th Indian Eye Research Group (IERG) meeting, L V Prasad Eye Institute, Hyderabad. July 29-30, 2006

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

Invited faculty

17th Workshop on glaucoma, Eye Care & Research Centre, Kolkata. November 18-19, 2006

Invited speaker/Video presentation

South East Asia Glaucoma Interest group (SEAGIG) annual conference, Glaucoma Society of India, Chennai. November 30 – December 3, 2006

Co-chairperson for free session/ Free papers & Video presentations

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

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

Invited speaker

First Marathwada Congress on refractive errors & low vision, Aurangabad. January 29, 2007

Alumni meet, Indian Association of International Centre for Eye Health – London, Hyderabad. January 31, 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

BSR Murthy

National

Invited faculty

24th annual conference, Intra Ocular Implant & Refractive Society of India, New Delhi. September 1-3, 2006

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

Seminar, Andhra Pradesh Ophthalmic Society, Sarojini Devi Eye Hospital, Hyderabad. March 18, 2007

Ramesh Murthy

International

Invited faculty

ORBIS Flying Eye Hospital program, Ilorin, Nigeria. August 28 – September 2, 2006

Poster/Free paper presentation

European Oculoplastic Meeting 2006, London, UK. September 12-15, 2006

National

Invited speaker

Retina CME 2006, Ganapathi Nethralaya, Jalna, Maharashtra. July 23, 2006

Jalna, Maharashtra.

July 23, 2006

Paper presentation

15th Indian Eye Research Group (IERG) meeting, L V Prasad Eye Institute, Hyderabad. July 29-30, 2006

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, Jalgaon, 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

Live surgery – Dacryocystorhinostomy workshop, Kakinada, Andhra Pradesh. March 25, 2007

Somasheila Murthy

International

Invited speaker/Faculty

22nd Congress of Asia Pacific Academy of Ophthalmology, Lahore, Pakistan. February 24-28, 2007

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

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

Invited speaker/Video presentation

37th Annual meeting of American Society of Ophthalmic Plastics and Reconstructive Surgery, Las Vegas, USA. November 15-16, 2006

Raja Narayanan

International

Poster presentation

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

National

Faculty

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

Workshop on age related macular degeneration, Pfizer Ophthalmics, LVPEI, Hyderabad. June 11, 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

National level workshop on homelessness and mental illness, The Banyan, Chennai. July 22-23, 2006.

Faculty

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

Rajul S Parikh

International

Instructor/Poster presentation

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

National

Invited speaker

Bombay glaucoma meet, Pfizer limited, Mumbai. April 9, 2006

Visante AS-OCT meet, Carl - Zeiss Limited, Mumbai. May 16, 2006

Visante AS-OCT meet, Carl - Zeiss Limited, Chennai. May 18, 2006

Visante AS-OCT meet, Carl - Zeiss Limited, New Delhi. May 20, 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

Annual meeting of American Academy of Ophthalmology, Las Vegas, USA. November 10-14, 2006

National

Invited speaker

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

Udaya Godavari Ophthalmic Association meet, Taddepalle geddem, 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

Poster presentation

European Society of Ophthalmic Plastic Surgeons, London, UK. September 13-16, 2006

Paper/Video presentation

International Facial and Body Prosthetics Conference, Westcliff on-sea, Essex, UK. September 27-29, 2006

Invited speaker

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

Observer

Ophthalmic Prosthetics, Houston, Texas, USA. November 15-21, 2006

National

Invited speaker

CME, Karnataka Ophthalmic Society, Bangalore. June 25, 2006

Paper presentation

15th Indian Eye Research Group (IERG) meeting, LVPEI, Hyderabad. July 29-30, 2006

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 Ocularist 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, Meerpeta, 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

15th Indian Eye Research Group (IERG) meeting, L V Prasad Eye Institute, Hyderabad. July 29-30, 2006

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

Ocularist 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

Alcon – Keynote Session, Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, Florida, USA. April 28 – May 4, 2006.

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

Invited speaker

Session on Variations in the Patterns of Eye Diseases, Asia Pacific Academy of Ophthalmology Congress 2006, Singapore. June 9-13, 2006. Spoke on 'VISION 2020: The progress'

The Holmes lecture

Asia Pacific Academy of Ophthalmology Congress 2006, Singapore. June 9-13, 2006.

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).

Annual meeting, Canadian Ophthalmological Society, Toronto, Canada. June 21, 2006.

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'

10th anniversary conference, Centre for Eye Research Australia, Melbourne, Australia. October 12-13, 2006.

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

Annual meeting of American Academy of Ophthalmology, Las Vegas, USA. November 10-14, 2006. Spoke on

- *VISION 2020*
- *Primary eye care model – Vision Centre model experiences*
- *Fungal keratitis: Medical or surgical treatment?*

IAPB Bi-Regional Assembly, Korat, Thailand. November 26, 2006. Spoke on 'An infrastructure model for implementation of VISION 2020: The Right to Sight'

World Congress on Refractive Error, International Centre for Eyecare Education, Durban, South Africa. March 14-16, 2007. 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

Healthcare & Pharma Summit, Indian School of Business and Organisation of Pharmaceutical Producers of India, Hyderabad. November 4, 2006. Spoke on 'Business profits vs public good: a balancing act for the healthcare sector'

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 Indian Medical Association, Tenali, Andhra Pradesh. December 16, 2006. Spoke on 'Health care in India: what can we do about it'

Invited speaker

Workshop on Eye Banking in Rajasthan – Problems and Perspectives, Eye Bank Society of Rajasthan & ORBIS International – USA, Jaipur. December 22-23, 2006

Inaugural Session & 'VISION 2020: The Right to Sight' Session, Sunayana 2007, 65th annual conference of All India Ophthalmological Society (AIOS), Hyderabad. February 1-4, 2007

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

Flying Eye Hospital Program, ORBIS International, Accra, Ghana. August 14-19, 2006

Invited speaker

Annual meeting of American Academy of Ophthalmology, Las Vegas, USA. November 10-14, 2006

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. Moving 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 Bhattacharya Awardees, Devi Ahilya Bai University, Indore. March 9-11, 2007

G Chandra Sekhar**International****Invited speaker**

'Glaucoma management perspectives', Glaucoma workshop, Asia Pacific Academy of Ophthalmology (APOA) meeting, Singapore. June 8-9, 2006

'Glaucoma Solutions Asia' seminar, Carl Zeiss, Singapore. June 11, 2006

National**Coordinator**

Glaucoma workshop, Glaucoma Society of India, Kolkata. April 29, 2006

GlauCon2006, Mid-term conference of All Assam Ophthalmological Society in association with Gla.ucoma Society of India, Silchar, Assam. April 30, 2006

Invited speaker

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

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

Kurnool Medical Alumni Golden Jubilee Celebration Committee, Kurnool. January 22, 2007

Invited speaker/Free paper presentation

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

Invited speaker

Currents trends in Ophthalmology: An evidence based approach, Narayana Netralaya, Bangalore. March 25, 2007

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

EMPI - Indian Innovation Awards 2006, EMPI Business School, New Delhi. November 25, 2006

Savitri Sharma**International****Paper presentation**

Free paper, Ocular Microbiology and Immunology Group meeting, Las Vegas, USA. November 10, 2006

Instructor

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

22nd Annual conference of Orissa State Ophthalmological Society, Berhampur. October 14-15, 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**

Joint meeting of American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

Glaucoma Symposia, Asia Pacific Academy of Ophthalmology Congress 2006, Singapore. June 10-14, 2006

Meeting, Argentina Glaucoma Society Meeting, Buenos Aires, Argentina. September 7-8, 2006

Exchange experience in the field of glaucoma, Fundacion Vision, Paraguay. September 10-15, 2006

National**Invited speaker**

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

Geeta K Vemuganti**International****Invited speaker**

AI 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

Fourth annual meeting, International Society for Stem Cell Research, Toronto, Ontario, Canada. June 28 – July 1, 2006

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

American Association of Ophthalmic Pathologists, American Academy of Ophthalmology, Las Vegas, USA. November 10, 2006

Instructor/Poster presentation

American Academy of Ophthalmology and Asia Pacific Academy of Ophthalmology, Las Vegas, USA. November 11-14, 2006

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

33rd Annual conference of Association of Clinical Biochemists of India, ACBICON – 2006, Armed Forces Medical College, Pune. November 23, 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**

Community health workers training program, Hyderabad Health and Development Program, ICARE – LVPEI, Hyderabad. June 12-16, 2006



Research fellows in the Pathology and Stem Cell Biology Laboratory

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

Indian Association of Medical Microbiologists (IAMM) Endowment Oration, Microcon-2006 – 30th national congress of IAMM, Nagpur. October 27-29, 2006

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 (IAMM), 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

Somasheila 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 Collage 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

Savitri Sharma

Delivered Indian Association of Medical Microbiologists (IAMM) Endowment Oration, Microcon-2006 – 30th national congress of IAMM, Nagpur. October 2006

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 Venuganti

- 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
- Best Oral Presentation award at the Stem Cell Research Forum of India and International Stem Cell Meeting, Bangalore. January–February 2007

Product Development

Rotary Club of Hyderabad Corneal Preservation Medium Centre

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.

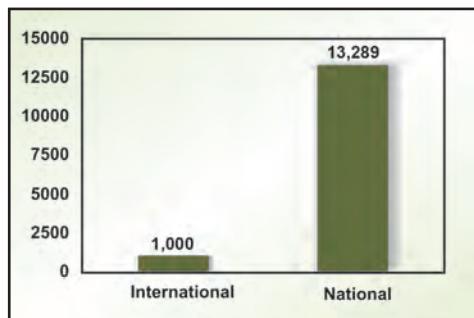
Amniotic Membrane

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 MK medium



Distribution of Corneal Preservation Medium

<i>International</i>	<i>National</i>						
Bangladesh	Agra	Durgapur	Jamshedpur	Mysore	Pune	Surat	
Philippines	Ahmedabad	Dinazpur	Jorhat	Navsari	Raipur	Suryapet	
Nepal	Ambala	Erode	Karad	Nagpur	Raichur	Tanuku	
	Amaravathi	Gorakhpur	Karnal	Nagercoil	Rajkot	Thiruvananthapuram	
	Angamaly	Gurgaon	Kamared-	Nalgonda	Rampur	Tiruchirapalli	
	Baroda	Guntur	dy	Narwana	Ranchi	Tirunelveli	
	Bagalkot	Guwahati	Khammam	Nellore	Ratlam	Tirupati	
	Bangalore	Hisar	Katwa	Neemuch	Rattanpur San-	Tripura	
	Bareilly	Howrah	Kottayam	New Delhi	garia	Vadodara	
	Bhavnagar	Hospet	Kolkata	Nidadavole	Repalie	Varanasi	
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So That They May See

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.

Our Support

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.



The team from Lavelle Fund at the opening of the Vision Centre at Bijnapally



Saving Sight Worldwide

ORBIS International, New York, USA

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.



Training on board the ORBIS flight deck



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."



An appreciation - Mr Bob Kirkby with the President of India



Mr. Bob Kirkby, Mr Don Carroll from BHP Billiton and John McCarthy (the Australian High Commissioner) with the President of India

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Cambridge University, UK
Carl Zeiss, Germany
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Centre for Eye Research & Technology, Australia
Centre of Excellence in Molecular Biology, Lahore, Pakistan
Champalimaud Foundation, Portugal
Children's Hospital of Philadelphia,
University of Pennsylvania, USA
Children's Hospital of Florida, USA
Christoffel Blindenmission, Germany
Cornea & Contact Lens Research Unit, Australia
Combat Blindness Foundation, USA
Duke University, Durham, USA
Eye Sight International, Vancouver, Canada
Fred Hollows Foundation, Australia
Fund Incorporated, Australian Federation of University Women
(AFUW) and Queensland branch, Australia
Harvard University, Cambridge, MA, USA
Institute of Eye Research, Sydney, Australia
International Federation of Eye & Tissue Banks, Baltimore, USA
International Center for Eye Care Education, Australia
International Association for Contact Lens Education, Australia
Islamia Eye Hospital, Dhaka, Bangladesh
i2 Foundation, Texas, USA
Johns Hopkins University, Baltimore, USA
Jules Stein Eye Institute, University of California,
Los Angeles, USA
Lighthouse International, New York, USA
Lions International, USA
London School of Tropical Hygiene & Medicine, UK
Massachusetts Eye and Ear Infirmary, Boston, USA
Moorfields Eye Hospital, London, UK
National Institutes of Health, Bethesda, MD, USA
National Institute of Sensory Organs, Tokyo, Japan
Northwest Lions Eye Bank, Seattle, USA
Northwestern University, Evanston, IL, USA
Ohio State University, Columbus, USA
Operation Eye Sight Universal, Canada
ORBIS International, New York, USA
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