

L V Prasad Eye Institute

Excellence • Equity • Efficiency



ACTIVITY REPORT 2010 – 2011



Vision

To create excellent and equitable eye care systems that reach all those in need.

Mission

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



LV Prasad Eye Institute

Committed to excellence and equity in eye care

ACTIVITY REPORT

April 2010 – March 2011



THE LVPE

Centre of Excellence



Tertiary Care Centres



- Centre of Excellence (1)
- Tertiary Care Centres (3)
- Secondary Care Centres
- ★ Satellite Centres (9)
- ★ Partner Centres (9)
- Primary Care Centres (72)



Secondary Care Centres



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

Primary Care Centres

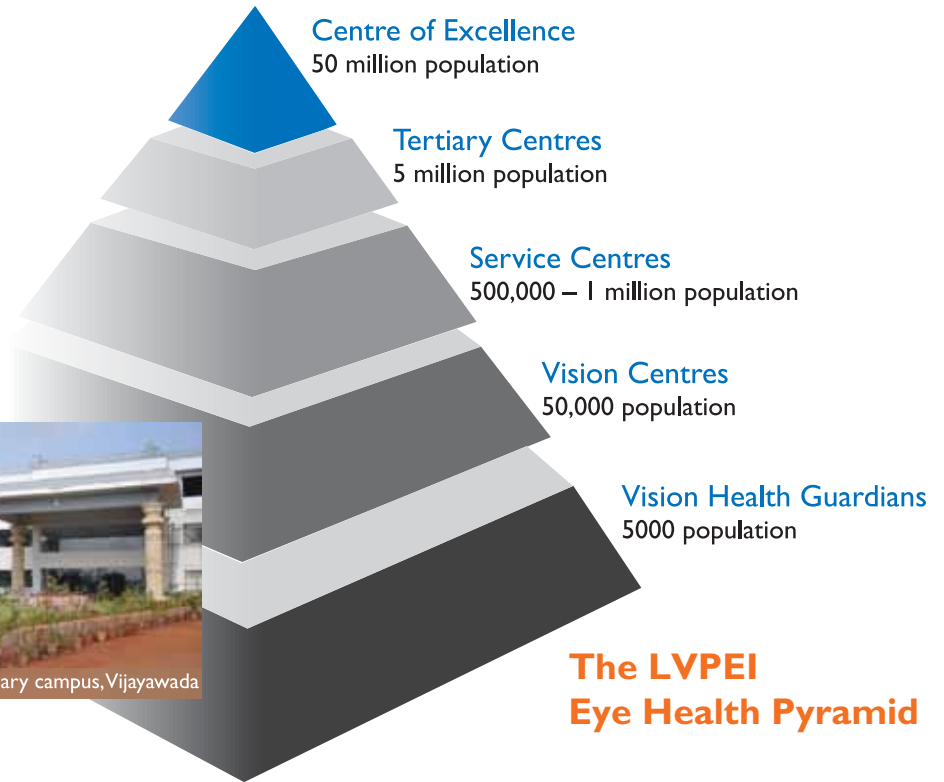
- | | | | | |
|---------------|----------------|----------------|-------------------|-------------------|
| — Bhainsa | — Utnoor | — Wanaparthy | — Parchuru | — Tripuranthakam |
| — Kubeer | — Boath | — Achampet | — Panguluru | — Yerragondapalem |
| — Nandipet | — Jainath | — Nagarkurnool | — Pedanandipadu | — Dornala |
| — Navipet | — Bela | — Kothakota | — Yeddandipudi | — Cumbum |
| — Kallur | — Narnoor | — Kollapur | — Marturu | — Bestavaripeta |
| — Lokeshwaram | — Jainoor | — Ghanapuram | — Ballikuruva | — Giddalur |
| — Tannur | — Jannaram | — Bijnapally | — Epurupalem | — Podili |
| | — Medarpet | — Telkapally | — Chinnaganjam | — Darsi |
| | — Talamadugu | — Kalwakurthy | — Naguluppalapadu | — Kurichedu |
| | — Gudihathnoor | — Lingala | — Vetapalem | — Chimakurthi |
| | — Echoda | — Amangal | | |
| | — Indervelly | | | |

NETWORK

of Excellence



ry Centres



re Service Centres



Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam



Siloam Eye Centre, Madanapalle, Chittoor



Swarna Bharat Eye Centre, Venkatachalam, Nellore



Nava Bharat Eye Centre, Paloncha, Khammam

City Centre at Hyderabad

are Vision Centres

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

- Nimmanapalle
- B Kothakota

- Ravulapalem (Rajahmundry East Godavari)

- Yellandu
- Kallur
- Manuguru
- Ashwapuram
- Dammamet

- Ramnagar
- Kismatpur (Urban)
- Shrungavarapukota
- Chodavaram (Visakhapatnam)

The year at a glance

The LVPEI pyramid of service delivery touches all levels of society, from remote rural villages to busy urban centres. From primary eye care to advanced tertiary (quaternary), we have provided eye care services to hundreds of thousands of people, without compromising on quality.

This year, we reached a total of **1,396,741** people including **181,534** children through these various levels of care. Of this **almost a million (989,316)** received eye care services entirely free of cost as part of our community programs and through our higher-level facilities.

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

PATIENT CARE service delivery

COMMUNITY EYE HEALTH PROGRAMS

Entirely free of cost

Population covered by door to door surveys	533,936 (1098 villages surveyed)
Population screened	31,852 (468 community programs)
Schools & Anganwadis (creches) covered	1236

Total population reached **533,936**
Total children screened **129,839**

These numbers do not include data from our partner centres.

	OUTPATIENT VISITS	FREE OF COST	SURGERIES	FREE OF COST
PRIMARY EYE CARE				
72 Vision Centres	124,123	100%	-	-
SECONDARY EYE CARE				
9 Service Centres	243,650	41%	28,374	66%
TERTIARY EYE CARE				
Bhubaneswar	75,272	23%	7454	37%
Visakhapatnam	71,747	25%	6908	42%
Vijayawada	1519	41%	-	-
<i>Launched February 16, 2011, surgeries from June 2011</i>				
ADVANCED TERTIARY (QUATERNARY) CARE				
Hyderabad	216,655	30%	38,066	45%
Total	732,966	44%	80,802	51%
<i>Includes 51,695 children</i>				

Free of cost services are provided irrespective of the complexity of care.

... and the network grows

	In operation	Partnerships	In process
Centre of Excellence	1		2
Tertiary Centres	3	16 (11 National & 5 International)	
Service Centres	9	12	3
Vision Centres	72		61
Capacity building collaborations			
Technical consultancy <i>in specific areas</i>	12		5
Partner hospitals <i>4-year partnerships</i>		5	

REHABILITATION providing a better quality of life

Sight enhancement client visits (low vision)	4911
Vision rehabilitation client visits	7068
Community based rehabilitation	77

EYE BANKING facilitating the gift of sight

Includes community eye banks on our campuses

	Hyderabad	Bhubaneswar	Visakhapatnam	Total
Corneas harvested	3271	340	497	4108

EDUCATION enhancing skills and building human resources

Ophthalmologists	210
Other eye care professionals	681
Participants in CME and other programs	1460

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

RESEARCH pushing the frontiers

Presentations	
International	267
National	405
Publications	134
Honors and awards	87

L V Prasad Eye Institute Network

Management

Gullapalli N Rao <i>Chair</i>	Usha Gopinathan <i>Executive Director</i>	Hemanth Paul <i>Business Development</i>	Sreedevi Penmetcha <i>International Liaison, Documentation & Vision</i>
K Haragopala Krishna <i>Finance & Accounts</i>	Sreedevi Yadavalli <i>Communications</i>	V Rajashekar <i>New Projects & Development</i>	Ghanshyam Singh <i>Opticals & Opticianry</i>
KV Subba Rao <i>Finance & Accounts</i>	Sam Balasundaram <i>Fund Raising & Donor Relations</i>	G Sridhar <i>Properties & Maintenance</i>	K Annapurna Devi <i>Technology</i>
Venkatesh M Reddy <i>Trust Affairs & Chairman's Office</i>	Rajiv Kumar <i>City Centres</i>	HSD Srinivas <i>Human Resources</i>	

Kallam Anji Reddy Campus, Hyderabad

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

Assistant Director
Rupesh Kumar

Clinical Services

Cornea & Anterior Segment

Virender S Sangwan
Bhupesh Bagga
Sayan Basu
Sunita Chaurasia
Prashant Garg
Pravin V Krishna
R Muralidhar
Somasheila Murthy
Varsha Rathi
Mukesh Taneja
Tamal Chakraborty
Potluri Hareesh
S Kartheek Kumar
Preetam Kumar
R Suresh Kumar
Sana Quadri

Bausch & Lomb Contact Lens Centre

Varsha Rathi
Pravin V Krishna
D Srikanth
Preeji M Sudharman
T Shyam Sunder

Laser Refractive Surgery (LASIK)

Pravin V Krishna
Prashant Garg
R Muralidhar
Somasheila Murthy
Varsha Rathi

VST Centre for Glaucoma Care

G Chandra Sekhar
Nikhil S Choudhari
Anil K Mandal
Vanita Pathak-Ray
Harsha BL Rao
Sirisha Senthil
J Ganesh Babu
G Bhuvaneswari
A Uday Kumar
Tukaram Kumbar

K Srinivas
Madhulatha Umesh

Smt. Kanuri Santhamma Centre for Vitreo Retinal Diseases

Subhadra Jalali
Ajit B Majji
Annie Mathai
Raja Narayanan
Rajeev Reddy Pappuru
Padmaja K Rani
Chinmaya A Sahu
T Venkata Amarnath
Shaik Bajibhi
Priyangshu Chandra
K Deepika
Sarvepally Vijay Kiran
SPVR Naresh
M Uma

Ophthalmic Plastic Surgery, Orbit & Ocular Oncology

Santosh G Honavar
Mohammad Javed Ali
Milind N Naik
Vijay Anand P Reddy
M Yashwanth Goud
Yogita Kadam
Winston D Prakash

Ocular Prosthesis

Nusrat Changal
Raju Kumar

Jasti V Ramanamma Children's Eye Care Centre

Anil K Mandal
Amit Gupta
Santosh G Honavar
Subhadra Jalali
Ramesh Kekunnaya
Pravin V Krishna
R Muralidhar
Padmaja K Rani
Pallavi Abhay Agarkar
Joseph Mollah

Strabismus/Neuro-ophthalmology

Ramesh Kekunnaya
Nikhil S Choudhari
Amit Gupta

Uveitis & Ocular Immunology

Virender S Sangwan
Annie Mathai
Somasheila Murthy
Raja Narayanan
Rajeev K Reddy

Comprehensive Ophthalmology

Rohit Khanna
Bhupesh Bagga

Aesthetic Facial Plastic Surgery

Milind N Naik
Gautam Dendukuri

Anesthesia Services

PG Koshy
MS Prasad
Nageshwar Rao
S Ravinder
CVM Reddy
Nageshwar Reddy
P Sreedhar
P Sriramulu
D Sukesh

Internal Medicine

Archana Bhargava
Y Srinivasa Rao

Meera & L B Deshpande Centre for Sight Enhancement & Dr PRK Prasad Centre for Rehabilitation of Blind & Visually Impaired

Vijaya K Gothwal
Beula Christy
Hemalatha Arunachalam
Deepak K Bagga
Babalu Sara Koshy
Mahalakshmi
P Shailaja Reddy
C Rebecca Sumalini

Ramayamma International Eye Bank

Usha Gopinathan
Prashant Garg
Brinda P Ramachandran

Consultant Ophthalmologists
Consultant Optometrists

Bhubaneswar Campus, Bhubaneswar

Director

Taraprasad Das

Cornea & Anterior Segment

Sujata Das

Srikant K Sahu

Contact Lens & Refractive Surgery

Sujata Das

Santanu Jana

Souvik Mandal

Srikant K Sahu

Mukesh K Singh

Glaucoma

Sanghamitra Dash

Retina & Vitreous

Soumyava Basu

Taraprasad Das

Tapas Ranjan Padhi

Ophthalmic Plastic Surgery,

Orbit & Ocular Oncology

Suryasnata Rath

Ocular Prosthesis

Mahasweta Chowdhury

Bhaktiprada Sahoo

Miriam Hyman Children's Eye Care Centre

Siddharth Kesarwani

Sanghamitra Dash

Tapas Ranjan Padhi

Suryasnata Rath

NTPC Centre for Diabetic Eye Disease

Taraprasad Das

Soumyava Basu

Tapas Ranjan Padhi

NTPC Eye Trauma Centre

Suryasnata Rath

Soumyava Basu

Sujata Das

Tapas Ranjan Padhi

NTPC Centre for Sight Enhancement

Sindhu Kannan

Ocular Microbiology Service

Savitri Sharma Das

Sarita Kar

Dalmia Ophthalmic Pathology Service

Ruchi Mittal

Anesthesia Services

Debendranath Das

Administration

Bikash Chandra Mohanta

Prakash Das

Chhoton De

Ramanandan Mishro

Prakash Nayak

Sudipta Parida

drushti daan Eye Bank*

Sujata Das

Srikant K Sahu

GMR Varalakshmi Campus, Visakhapatnam

Director

Merle Fernandes

Cornea & Anterior Segment

Merle Fernandes

IS Murthy

Sushmita G Shah

Purbasa Roy

Contact Lens & Refractive Surgery

Merle Fernandes

IS Murthy

Sushmita G Shah

Appanna Gorivilla

Rekha Gunturu

Kanika Saha

Glaucoma

PVKS Varma

Retina & Vitreous

Avinash Pathengay

Kapil Bhatia

Manmath Kumar Das

Gaurav Yogesh Shah

Anand Kumar P

Ophthalmic Plastic Surgery, Orbit &

Ocular Oncology

Manju Meena

Nimmagadda Prasad Children's Eye Care Centre

Virender Sachdeva

Merle Fernandes

Manju Meena

Gaurav Yogesh Shah

PVKS Varma

Strabismus/Neuro-ophthalmology

Virender Sachdeva

Avinash Pathengay

Satya Varaprasad Ch

Anick Mallick

Uveitis

Avinash Pathengay

Bob Ohlson Centre for

Sight Enhancement

Rekha Gunturu

Dharani Nanda

Lakshmi Dwara

Ocular Microbiology Service

Nagendra Kumar

Anesthesia Services

Morton Anesthesia Allied

Services Pvt Ltd

Administration

B Anjaneyulu

K Lokesh

BVS Mallikarjun Rao

K Veeraswamy

Mohsin Eye Bank*

Merle Fernandes

IS Murthy

Sushmita G Shah

Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada

Services launched on February 16, 2011

Cornea & Anterior Segment

Vinay S Pillai

Retina & Vitreous

Atul Kumar Sahu

The David Brown Children's

Eye Care Centre

Niranjan K Pehere

Neuro-ophthalmology

Niranjan K Pehere

Comprehensive Ophthalmology

Tathagato Das

Consultant Optometrist

VL Narayana

Administration

Kiran PV

Sivaram Prasad

* Community eye banks on our campus

Across the Network

Prof Brien Holden Eye Research Centre

Director and Distinguished Chair of Eye Research
D Balasubramanian

Jhaveri Microbiology Centre

Savitri Sharma Das
B Madhavi Latha
Suma Nalamada

Saroja A Rao Immunology Laboratory

Savitri Sharma Das
Suma Nalamada

Kallam Anji Reddy Molecular Genetics Laboratory

Chitra Kannabiran
Subhabrata Chakrabarti
Inderjeet Kaur

Ophthalmic Pathology Laboratory

Geeta K Vemuganti

Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory

Indumathi Mariappan
Virender S Sangwan

Visual Optics and Psychophysics Laboratory

Shrikant R Bharadwaj

Clinical Scientists

Virender S Sangwan
Somasheila Murthy
Sayan Basu

Administration

Jai Ganesh

Clinical Research

Bidula Das
Samrat Sarkar
P Veerendranath

Education Centre

Director and Distinguished Chair of Education
Prashant Garg

LVP-Zeiss International Academy of Advanced Ophthalmic Education

Vanita Pathak-Ray
Varsha Rathi

Bausch & Lomb School of Optometry

Principal
P K Sai Prakash

Y Vijay Kumar
M Srikanth
Sangeeta Srinivasan

Administration

Shaik Yousuf Arfath

International Centre for Advancement of Rural Eye care, Kismatpur Campus

Associate Director
Rohit Khanna

Acting Head

Padmaja K Rani

Programs & Projects

Sayed Imtiaz Ahmed
S Krishnaiah
Srinivas Marmamula
A Sashi Mohan
Giridhar Pyda
V Rajashekar
Gullapalli N Rao
S Sheeladevi
Kovai Vilas
Jachin David Williams

Administration

Babu Rao

Boards of Management

Hyderabad Eye Institute

Chair

Dr Gullapalli N Rao

Distinguished Chair of Eye Health
L V Prasad Eye Institute
Hyderabad

Members

Dr K Anji Reddy

Chairman, Dr Reddy's Laboratories Ltd
Hyderabad

Prof Palle Rama Rao

Distinguished Professor
International Advanced Research Centre for Powder
Metallurgy & New Materials
Hyderabad

Mr A Ramesh Prasad

Managing Director, Prasad Film Laboratories Ltd
Hyderabad

Prof M Rammohan Rao

Dean Emeritus, Indian School of Business
Hyderabad

Mr N Prasad

Chairman, VANPIC Ports Pvt Ltd
Hyderabad

Dr K Ravindranath

Chairman, Global Hospitals
Hyderabad

Mr Ravi Reddy

Chairman, THINK Capital
New Jersey, USA

Prof K Srinath Reddy

President, Public Health Foundation of India
New Delhi

Prof Seyed E Hasnain

Professor, Biological Sciences
Indian Institute of Technology
New Delhi

Dr F C Kohli

Chairman Emeritus, Tata Consultancy Services Ltd
Mumbai

Dr V Raghunathan

Chief Executive Officer, GMR Varalakshmi Foundation
Hyderabad

Dr G Chandra Sekhar (Ex-officio)

Director
L V Prasad Eye Institute
Hyderabad

Dr Taraprasad Das (Ex-officio)

Director
L V Prasad Eye Institute
Bhubaneswar

Dr Usha Gopinathan (Ex-officio)

Executive Director
L V Prasad Eye Institute
Hyderabad

Hyderabad Eye Research Foundation

Chair

Prof Nirmal K Ganguly

Distinguished Biotechnology Professor
Translational Health Science & Technology Institute
C/o National Institute of Immunology
New Delhi

Secretary & Treasurer

Dr Gullapalli N Rao

Distinguished Chair of Eye Health
L V Prasad Eye Institute
Hyderabad

Members

Dr S P Vasireddi

Chairman & Managing Director
Vimta Labs
Hyderabad

Prof Anuradha Lohia

The Wellcome Trust-DBT India Alliance
Hyderabad

Mr Peter T Hassan

Advisor (Industries)
Government of Andhra Pradesh
New Delhi

Mr Syamal Gupta

Director
TATA Sons Limited
Mumbai

Dr A V Rama Rao

Chairman & Managing Director
AVRA Laboratories Pvt Ltd
Hyderabad

Prof S K Sarin

Director
Institute of Liver & Biliary Sciences
New Delhi

Prof D Balasubramanian (Ex-officio)

Director – Research
Hyderabad Eye Research Foundation
L V Prasad Eye Institute
Hyderabad

Dr G Chandra Sekhar (Ex-officio)

Director
L V Prasad Eye Institute
Hyderabad

Dr Taraprasad Das (Ex-officio)

Director
L V Prasad Eye Institute
Bhubaneswar

Dr Usha Gopinathan (Ex-officio)

Executive Director
L V Prasad Eye Institute
Hyderabad



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All outdoor pictures are from our campuses.

At the time of writing this foreword we have just inaugurated our 82nd Vision Centre, based on an aspiration to bring high quality primary eye care within the reach of people living in the remotest locations with no access to health care, with the first centre opening nearly 15 years ago. The idea was to have a permanent commitment to a finite population using the services of local people who are trained appropriately. Through this experience we have discovered that our Vision Centres are the only health outposts in some of these places, particularly in tribal areas. We have had many heartwarming experiences through the Vision Centre programme, which have made every group of the LVPEI family, from a clinician practising cutting edge subspecialty care to a scientist working in a frontier area of research proud, with all of them solidly behind this aspect of our work. During this year we have continued our move deeper into the communities with projects on comprehensive community development around our Vision Centres, focusing on “Causes of Causes”, namely, factors that influence eye health.

We have also been successful in forging strong partnerships with local communities and mobilising more and more community participation with some centres in the pipeline funded 100 per cent by local philanthropy. Local philanthropy has already fuelled our expansion with one tertiary centre and one secondary centre receiving complete funding from local donors in the recent past. These are stellar examples of community participation in health care, which go a long way towards enhancing both access and quality. This augurs well for the development of systems that are available, affordable and self-sustainable.

Strong foundations for education and research, coupled with an unwavering adherence to core values and standards has helped in building a strong brand image with its concomitant benefits. Most of our education programmes have expanded, a few new ones were added after a needs assessment. Education programmes have been thriving from the rich pool of Visiting Professors who spend varying periods of time with us and global leaders who teach us from long distance (via videoconferencing). Tele-education has expanded through webcasting of our programs globally. We have also initiated joint education programmes with centres in the West as well as in India.

Towards the end of this past year (March 31, 2011), we are well on the road to enhancing our patient care capacity in Hyderabad by above 50%. The growth in our two newer tertiary centres in Bhubaneswar and Visakhapatnam, both in their fifth year of operation continues to be impressive. The evolution of these two tertiary centres is following our traditional path with education, clinical research and community eye health components already becoming integral parts. Our Bhubaneswar campus is involved in vibrant basic research in microbiology. The beginning of the year also saw the addition of another tertiary care centre. Overall, the tertiary care capacity has more than doubled.

Rehabilitation work had a very eventful year with the addition of several new facets to provide enhanced care for people with multiple disabilities in addition to vision loss. With

increased leveraging of technology, we are able to provide education in IT related areas, which would enhance the possibilities for the vocational rehabilitation of the irreversibly visually impaired. Also encouraging was the response to training programmes as HRD in this area is a critical need globally. The number of our clients from the rehabilitation centre excelling in sports, education, music and various other professions is very high and bears testimony to the dedication of our team and the quality of the programmes.

On the research front, our publications and grant records have been excellent. The phenomenon of “Clinical Scientist” is beginning to take root and, hopefully, will flourish. The institutional commitment to nurture this is solid. The team as a whole continued to get its due share of recognition, both nationally and internationally with more and more members of our faculty moving into leadership positions.

The infrastructure continues to improve. As we are scaling up quite rapidly, we have recognized the need to make our management systems more robust. Several highly qualified managers have joined our team to contribute to this process. The combination of the “old” and the “new” is working towards achieving growth without compromising on our values and standards.

Our Boards comprise of very distinguished personalities from diverse sectors who add to the vibrancy of our organisation considerably. Quite a few of them were honoured during this year with awards of great distinction and we bask in their reflected glory.

The generosity of many friends, both individual and institutional, was at the very core of our creation and growth. This past year again, we have benefitted immensely from this continuing munificence, of which you see some inspiring stories in the following pages of this report. We place on record our gratitude to all of them, for allowing us to move along our path of “Excellence with Equity” without compromise. All this has prepared us very well for the upcoming Silver Jubilee Year and the intensive year-long activities awaiting us.



Gullapalli N Rao
Chair, Board of Trustees



L V Prasad Eye Institute enters its 25th (Silver Jubilee) Year on June 1, 2011.

The LVPEI Network Grows

The 24th year of L V Prasad Eye Institute saw exciting growth across the network with expansions at the three middle levels of our Eye Health Pyramid. The Group's third tertiary centre was inaugurated in Vijayawada along with a comprehensive children's eye care centre, and the eco-friendly ninth secondary care Nava Bharat Eye Centre was launched in Paloncha. The tenth secondary care centre is under development in Gudavalli village in Cherukupalli mandal of Guntur district and will be operational by mid 2011.

At the primary level, 8 Vision Centres were set up, with the expansion to Visakhapatnam area, these being the most modern ones till date. In Hyderabad, we set up the first City Centre, which is seeing a steady stream of patients, while an extension centre is being launched shortly. City Centres will soon take off in Vijayawada and Visakhapatnam too.

Now LVPEI has a presence in 87 different locations, 86 in the state of Andhra Pradesh and 1 in Odisha (Orissa) – one Centre of Excellence, three tertiary and nine secondary centres, and 72 primary and 2 city centres. With the expansion during this year, LVPEI's footprint has extended to 4 new districts of Andhra Pradesh, now covering 18 of the 23 districts (along with our partners).

NEW TERTIARY CENTRE

Kode Venkatadri Chowdary Campus in Vijayawada

The Institute's third tertiary centre, the Kode Venkatadri Chowdary (KVC) campus at Tadigadapa, on the outskirts of Vijayawada (third largest city of Andhra Pradesh) started outpatient services on February 16, 2011. The KVC campus has been set up with support from the family of Mr Kode Satyanarayana, son of late Mr K Venkatadri Chowdary, the first Municipal Commissioner of Vijayawada after Independence. A noted philanthropist, Mr Kode Satyanarayana, Vice-President of Kode Venkatadri Charitable Society, is Chair of the Spectra group of industries. A team from Spectra Foods Pvt Ltd, led by Mr Suresh helped build the facility.

The campus will offer the following subspecialty services: children's eye care, diabetic eye care, retinal surgery, corneal transplants, cataract surgeries using the latest techniques, laser refractive surgery (LASIK) as well as opticals and contact lenses, in addition to routine comprehensive eye examinations. The centre will be a referral and eye health resource center for a population of 10 to 15 million in central coastal Andhra Pradesh, serving the districts of Krishna, West Godavari, Prakasam, Guntur and Khammam, delivering high quality services with care and compassion. As per our charter, 50% of the services will be provided at no cost to those who cannot afford to pay. The institute will also develop into a training centre for all levels of eye care professionals.

(See also 'Health and Education for All', page 126)



From left: Mr Kode Satyanarayana's son Mr Kode Venkata Ramana, daughter-in-law Mrs KV Sandhya, son-in-law Mr A Sudhakar, MD, Spectra Foods, with Dr Gullapalli N Rao, Chair, LVPEI Group and Mr & Mrs Edward Brown at the inaugural of the Vijayawada campus (right)

The David Brown Children's Eye Care Centre

A few days before the main campus opened its doors to patients, Mrs Soona and Mr Edward H Brown inaugurated The David Brown Children's Eye Care Centre at the Kode Venkatadri Chowdary campus in Vijayawada on January 29, 2011.

The Children's Eye Care Centre was set up with support from the Browns from France, in memory of their late son David John Brown. Delighted to be present on the occasion, Mr Edward Brown said, "We wish to remember him in this manner because of our great admiration for the expert eye care provided by the L V Prasad Eye Institute in India, under the leadership of Dr G N Rao. We are particularly impressed by the fact that this world-class treatment is available free of charge to those who cannot afford to pay. We are confident that David's name will be remembered here for a very long time."



The centre will provide high-quality comprehensive eye care to children from the neighbouring districts, with special focus on underprivileged and underserved children. *(First Person: 'A Personal Reflection' by Mr Edward H Brown, page 128)*



Mr Edward and Mrs Soona Brown at The David Brown Children's Eye Care Centre



Little Deeksha, the first patient at Vijayawada campus

VILLAGE VISION COMPLEX

9th Satellite Centre at Paloncha

With the inauguration of its 9th secondary care Service Centre (a satellite centre, wholly owned and operated by LVPEI) on February 18, 2011 in Paloncha of Khammam district, the Institute's footprint entered a new district of Andhra Pradesh, with a high density of tribal population. Several features make the Nava Bharat Eye Centre unique – 100 percent financial support from a local industry Nava Bharat Ventures Limited, a spectacularly designed green building and the launch of the first cluster of 5 primary care Vision Centres linked to it within two weeks. The centre is a magnificent gift from the Nava Bharat group, who took complete charge of the creation of the beautiful building.



Mr Purnachandra Rao, vice-president, Nava Bharat Ventures launched the Outpatient Department by lighting a lamp. He was the first patient followed by Mr Ali, Head of Corporate Social Responsibility, Nava Bharat group and Mrs Ali.

A path-breaking feature is that the center is paperless and totally based on Electronic Medical Records, thus offering high quality IT services at the grassroots level of eye care.

(See also 'A Commitment to the Community', page 127)

Nava Bharat Ventures Vice-President Mr Purnachandra Rao lights the lamp at the inauguration. From left: Dr Padmaja K Rani, Acting Head, ICARE, Mr Ali and Dr Vivek Warkard, LVPEI fellow



8 Vision Centres Added to Our Network



Barely into its second week of operations, the Nava Bharat Eye Centre at Paloncha acquired a clutch of 5 Vision Centres, inaugurated between February 28 and March 3, 2011. The primary care Vision Centres (VCs) are located at Illandu, Kalluru (both launched on February 28), Aswapuram, Manuguru (March 2), and Dammapeta (March 3). Located within 60 kms of Paloncha, these are the first 5 of the 30 VCs proposed to be launched during 2010-2013, supported by the Latter-day Saint Charities (LDSC) of Salt Lake City, USA.

Present at the inaugural celebrations were Dr Isaac Ferguson and his wife Mrs Gloria Ferguson, representing the LDS Church, Mr Ali from Nava Bharat Ventures Ltd and LVPEI's field support team.



One of the key components of the pyramid model is local stake-holding and local ownership. The site for the Illandu VC was donated by Sri Ramanjaneya Hindu Varthaka Grandhalayam, represented by Dr Sudhakar at the inaugural. Dr Ferguson and representatives of the local community addressed the public meetings at the centres, elaborating upon the services available at the primary and secondary centres; the partnership between LDSC, Nava Bharat Ventures, local communities and LVPEI and the need for optimal utilization of the services.

Dr and Mrs Ferguson also visited Nava Bharat Eye Centre and the new Kode Venkatadri Chowdary campus at Tadigadapa, Vijayawada, thus seeing first-hand the three links in LVPEI's chain of primary, secondary and tertiary centres. The generous grant from LDS Charities led to the completion of the "Village Vision Complex" – offering a comprehensive and complete range of eye care services through primary, secondary and tertiary care permanent facilities.



From top: Dr Isaac and Mrs Gloria Ferguson at Manuguru Vision Centre, the Dammapeta Vision Centre and its inauguration

The GMR Varalakshmi campus at Visakhapatnam inaugurated its first two Vision Centres on December 13, 2010 at Shrungavarapukota and Chodavaram, both approx 60 kms away. These are the first of 30 VCs linked to LVPEI Visakhapatnam, to be set up during 2010 - 2013 with support from the Lavelle Fund for the Blind, Inc., USA. These spacious, high tech primary eye care centres will provide quality eye care to communities in some of the most underserved parts of the state. The Vision Centres' premises were provided free of cost by local organizations.

Dr Gullapalli N Rao (Chair, LVPEI), Dr Merle Fernandes (Director, LVPEI, Visakhapatnam), Dr PVKS Varma and the entire Vizag team participated in the inaugural program, as did representatives of the supporting organizations. (More in News from Visakhapatnam, page 29)

The eighth Vision Centre this year was inaugurated in Ravulapalem village on August 7, 2010 attached to the Paramahansa Yogananda Netralaya in Rajahmundry, East Godavari district. It is supported by Fullerton India Credit Company Limited, Mumbai.

Now LV Prasad Eye Institute has 72 primary care centres across Andhra Pradesh.



Dr Gullapalli N Rao and Dr Merle Fernandes with guests at the public meeting at Chodavaram; below, the spacious, well-appointed Shrungavarapukota Vision Centre



From right: Dr G Hariprasada Rao, Dr Kodali Varaprasad, Dr G Chandra Sekhar, Director, LVPEI, Hyderabad, and Dr P Srinivasulu, management consultant, LVPEI, with local dignitaries

10th Rural Satellite Eye Care Centre

The foundation stone for LVPEI's 10th secondary-level Service Centre 'Dr Kommareddy Raja Ram Mohan Rao Eye Centre' was laid on June 7, 2010 by senior ophthalmologist Dr Gogineni Hariprasada Rao at Gudavalli village in Cherukupalli mandal of Guntur district. The centre will provide high-quality eye care services to the community of this underserved coastal region of Andhra Pradesh. It is supported by a local family foundation, Nayudamma Foundation for Education and Rural Development, managed by Dr Kodali Varaprasad and his brothers. The centre will become operational by mid 2011.

The First City Centre

The first City Centre of the LVPEI Group was launched on August 16, 2010, aimed at bringing quality eye care services to the residents of Hyderabad closer to their home. The new venture in the city's IT hub at Madhapur is the first of several City Centres that will enable the urban population to access L V Prasad Eye Institute's expertise and 24 years' experience, at their doorstep. City Centres are also coming up very soon at Vijayawada and Visakhapatnam.

Open 7 days a week, the Madhapur centre offers the following services: a comprehensive eye examination, cataract surgery using the most advanced techniques, laser refractive surgery (LASIK), facial aesthetics including Botox and Fillers, customized optical and contact lens services as well as corneal transplantation. The centre promises the same high standards of excellence and efficiency that are a hallmark of L V Prasad Eye Institute.



A patient being examined at the Madhapur City Centre



21st General Meeting of TWAS

The Academy of Sciences for the Developing World (TWAS) held its 21st General Meeting in Hyderabad from October 19-22, 2010. Inaugurated by Prime Minister of India Dr Manmohan Singh, the meeting was attended by over 350 scientists from 50 countries. LVPEI's research arm, the Hyderabad Eye Research Foundation served as the local host.



A press meet being addressed by Prof MHA Hassan, Treasurer; Prof CNR Rao, Immediate Past President; Prof Jacob Palis, President; and Prof D Balasubramanian, Secretary General and Director-Research, LVPEI

LVPEI Extends its Expertise to the Emirates

The Institute has entered into an arrangement with RAK Hospital, a premium healthcare facility accredited by Joint Commission International and Swiss Leading Hospitals to set up a state-of-the-art eye care facility in Ras Al Khaimah. Dr Gullapalli N Rao, Chair, LVPEI signed the agreement with Mr Raza Siddiqui, Executive Director of RAK Hospital and ETA Star Healthcare and Dr G S K Velu, Chairman of Medfort Hospitals, at a function held at the Al Dhait Palace in Ras Al Khaimah on January 24, 2011 in the presence of H H Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah, H H Sheikh Mohammed bin Saud bin Saqr Al Qasimi, Crown Prince of Ras Al Khaimah.

Speaking on the occasion, Sheikh Saud bin Saqr Al Qasimi said, "We are happy to have this partnership between RAK Hospital and a renowned institution like L V Prasad Eye Institute as we focus on enhancing the healthcare provision capabilities of the Emirate and make it a destination for quality healthcare in the region." Mr Raza Siddiqui said the facility would provide comprehensive eye care not only to the citizens of the Emirates but also in the neighbouring countries.



Dr Gullapalli N Rao, H H Sheikh Saud bin Saqr Al Qasimi, and others at the signing of the agreement to set up the Eye Care Centre of Excellence in Ras Al Khaimah

The RAK LVPEI facility will be staffed by doctors and other staff from the LVPEI. It is scheduled to be operational in one year. One of its early initiatives will be a first-of-its-kind community screening program for blindness prevention for the entire population of Ras Al Khaimah.

Dr Gullapalli N Rao said, "Blindness and vision impairment are major public health problems all over the world, including the UAE region. Consequently, there is a great need to develop eye care centres of high quality in the area. At LVPEI, we are delighted to collaborate with RAK Hospital and Medfort in the development of world class eye care services, leading to the creation of a centre of excellence in eye care. This would encompass services to tackle all eye care problems."

World Sight Day Celebrations Across the Network

L V Prasad Eye Institute (LVPEI), Hyderabad commemorated World Sight Day from October 14-21, 2010 with celebrations across its entire network; Dr Padmaja K Rani led the program in the city. World Sight Day is observed annually to focus global attention on blindness, visual impairment and rehabilitation of the visually impaired. A large rally was organized by the Sight for Kids (SFK) Greater Hyderabad team, supported by Johnson & Johnson, Lions Club International Foundation (LCIF) and Lions Eye Hospitals of Greater Hyderabad. The Sight for Kids program addresses visual impairment and promotes eye health awareness among schoolchildren between 5 and 9 years of age.



Free medicines being distributed at Proddatur

The participants included schoolchildren (beneficiaries of the SFK program), Vision Technician students from LVPEI and optometry students of Ranga Reddy Lions Eye Hospital. The SFK partner eye hospitals conducted several community programs, while other screening programs were held in and around Hyderabad. Awareness meetings were organized, especially in schools and colleges, with talks given on the prevention and treatment of avoidable blindness. Free spectacles were distributed to those identified with refractive errors.

A new concept 'Vision Garden' (Nayana Vanam) project was inaugurated at LVPEI's secondary care center Seshanna Chennawar Eye Centre in Adilabad district. Vegetables and fruits beneficial for the eye are grown in the garden, like papaya, drumsticks, curry leaves, etc. A screening program for diabetes was conducted for the high risk population at Ada village. Kuchukalla Ramachandra Reddy Eye Centre, Thoodukurthy, LVPEI's second satellite centre at Mahabubnagar district, held a public meeting at Manthathi village.

The GMR Varalakshmi Campus, Visakhapatnam organized a community screening program; those identified with refractive errors were prescribed spectacles and those identified with cataract were referred for further examination.



A school screening program organized by the Visakhapatnam campus

Nurses Day

International Nurses Day celebrations were held at the Institute on May 12, Florence Nightingale's birthday – a tribute to the gentle art of nursing – the smile and the touch that promises care and compassion.



Dr Archana Bhargava, Internal Medicine lights the lamp

The nursing staff reaffirm the pledge of service

Patient Care Day Celebrations

A day when the staff unwind ... the Institute's 23rd anniversary on June 1, 2010 was a lively event organized by the staff, for the staff! Held each year to mark the day the outpatient clinics began functioning at LVPEI, Hyderabad, the day enables us to see how far we have come since June 1, 1987 – the day we saw our first patients. They were a paying patient (the son of a Banjara Hills resident) and a non-paying patient (a gardener). From 9672 patients seen and 486 surgeries performed in 1987, we have seen a whopping 3,081,820 patients and performed 416,202 surgeries till March 2011 at the Kallam Anji Campus, Hyderabad.

This year too, the celebrations were marked with zeal and fervor. The program began with an interactive session on Change Management by Prof S Ramnarayan, Visiting Professor at the Indian School of Business. This was followed by a talk on Corporate Social Responsibility by Dr V Raghunathan, Chief Executive Officer of GMR Varalakshmi Foundation. The story behind the founding of LVPEI was narrated by Mr Ramesh Prasad, Managing Director, Prasad Film Laboratories, and son of the legendary filmmaker Shri L V Prasad, who had contributed generously towards the establishment of the Institute. Dr Akkineni Nageswara Rao, veteran film actor, regaled the audience with interesting anecdotes from his life.

A retrospective slide show by Dr Pravin V Krishna, Consultant, Cornea & Anterior Segment Services, took the staff down memory lane. There was nostalgia and amused whispers as sepia photographs from the archives flashed on the screen one after another. The staff members shared lighter moments recalling interesting incidents from their life at LVPEI. Some of the Institute's early patients had an opportunity to share their experiences. In the evening, talented patient care staff commanded the stage with a variety of skits, songs and dances.



Clockwise from top: Mr Ramesh Prasad, Dr V Raghunathan, Dr Akkineni Nageswara Rao with LVPEI staff, and Dr Pravin V Krishna



World Glaucoma Week Commemorated

The Institute's four campuses at Hyderabad, Bhubaneswar, Visakhapatnam and Vijayawada commemorated World Glaucoma Week (March 6-12, 2011) by organizing a slew of programs.

The week-long events began with a press meet at Kallam Anji Reddy campus in Hyderabad, where members of the print and electronic media listened to presentations made by Dr G Chandra Sekhar, Director and Dr Anil K Mandal, Head, Glaucoma Services and Jasti V Ramanamma Children's Eye Care Centre.

At sunrise on March 6, over 200 people gathered for a Glaucoma Awareness Run at a park, comprising staff from various departments, students, fellows, doctors, city glaucoma specialists, patients, family members, and members of the pharma industry, to create awareness about this irreversible blinding disease.

Glaucoma Update, a full-day CME program was held later in the day wherein ophthalmologists and postgraduates from Visakhapatnam and Bhubaneswar campuses participated through videoconference.

A Glaucoma Public Education Forum was held at Hyderabad on March 12, which was attended by over 150 people. The audience interacted with our doctors, actively participating in the question and answer session; several of them wanted to undergo an eye examination to check glaucoma.

The GMR Varalakshmi campus at Visakhapatnam also conducted a Public Education Forum and organised a radio broadcast on March 12.

The new Kode Venkatadri Chowdary (KVC) campus at Tadigadapa, Vijayawada organised a screening program throughout the week and encouraged people at risk of developing glaucoma to have an eye examination. Of the 110 patients examined, 60 were suspected to have glaucoma. The slogan for the event was, "Don't lose sight of your family".

On March 9, a well-attended public education forum was organized, where Dr G Chandra Shekar gave a lecture, followed by a discussion on various aspects of glaucoma. Doctors also gave a radio interview on March 16.



Top: Group photo at LVPEI Hyderabad after the Glaucoma Run. Clockwise from left: Dr G Chandra Sekhar talks to patients at the Vijayawada campus, the Glaucoma Run at Hyderabad, and the Vijayawada Institute entrance with awareness posters (inset)





Dr Virender S Sangwan shows Mr Simon Crean around the Institute

Australian Trade Minister Visits

Australian Trade Minister Mr Simon Crean visited the Institute on May 7, 2010 to pursue the Australia-India Strategic Partnership, formally agreed upon by the Prime Ministers of both the countries in November 2009. The LVP team made presentations on the collaborative effort between the Institute and the Vision Cooperative Research Centre of Australia in developing new technologies for tackling presbyopia and myopia.

LVPEI-Bangladesh Partnership

India and Bangladesh share much more than a border. Both countries face the challenge of providing universal access to health care and addressing issues of equity in health care service delivery. L V Prasad Eye Institute already has collaborative linkages with two premier institutions in Bangladesh: the Islamia Eye Hospital, Dhaka and the Chittagong Eye Infirmary and Training Institute, Chittagong. To explore how to take this partnership further, the Bangladesh High Commissioner to India and Minister of State of Bangladesh Mr Tariq A Karim visited LVPEI in mid June 2010. Mr Karim promised to work towards strengthening the partnership and facilitate Bangladeshi patients' visits to the institute for treatment.

Tianjin Public Health Bureau

A delegation from Tianjin Public Health Bureau, China team visited LVPEI on June 28, 2010 to study the Institute's systems. The team included Ms Tian Huiguang, Vice Chairman, Tianjin Municipal Committee of The Chinese People's Political Consultative Conference and Deputy Director of Tianjin Public Health Bureau; Mr Tang Xin, President, Tianjin Eye Hospital; Mr Chen Zizhen, Director, Traditional Chinese Medicine Division, Tianjin Public Health Bureau; Mr Guo Qiang, President, Tianjin Chest Hospital; and Mr Yang Xuegang, President, Tianjin Haihe Hospital.



Canadian Senate Committee

A delegation from Canada's Senate Committee on Foreign Affairs & International Trade visited the Institute on September 8, 2010 to understand LVPEI's collaborative partnerships with Canadian organizations. The team comprised Mr Shaun Wedick, Consul & Senior Trade Commissioner, Canadian Consulate; Mr Vikram Jain, Trade Commissioner, Canadian Trade Office; and 10 Senators.

Stanford Graduate School of Business

A delegation from the Stanford Graduate School of Business, led by Prof David Bradford, Director, Executive Program in Leadership visited LVPEI in December 2010 as an organization of interest, given its success and impact in India. They also explored a possible internship program at LVPEI.



Hospital Delegation from China

A team from several hospitals in China visited LVPEI on February 25, 2011 as part of the 'Seeing is Believing' Phase IV China Project, supported by The Fred Hollows Foundation to learn about our model of eye care delivery. Yan Hetao from Bright Eye Hospital said, "L V Prasad has provided a rare opportunity to learn more on how to deliver eye care service in communities. That's greatly helpful for our future work."

Annual Champalimaud Research Symposium

The Fourth Champalimaud Research Symposium was held on January 30, 2011, under the aegis of the Champalimaud Translational Centre for Eye Research (C-TRACER), set up with support from the Champalimaud Foundation of Lisbon, Portugal. Dr Gullapalli N Rao, Chair, LVPEI and Dr D Balasubramanian, Director – Research at LVPEI welcomed the distinguished guests. Dr Leonor Beleza, President, Champalimaud Foundation and other guests from Lisbon, Portugal graced the occasion.

Prof Narsing A Rao from Doheny Eye Institute, USA delivered the Fourth Champalimaud Lecture. In his lecture on 'MicroRNA therapeutic intervention in amelioration of autoimmune uveitis and protection of photoreceptors' Prof Rao highlighted the surprising role of alpha B crystallin (a protein so far known to be essentially in the lens) in protecting the retinal components from degradation.

Following this were four invited lectures. In his talk on 'Defining host-pathogen interactions through genome-wide screens: An alternate approach to drug target discovery' Dr Kanury VS Rao from the International Centre for Genetic Engg & Biotech, New Delhi explained how he used the tools of systems biology to identify many potential drug targets that can be tested to kill the TB microbe.



Dr Kanury VS Rao

Next, Dr José Cunha-Vaz from AIBILI C-TRACER, Portugal summarized the organisation's work on identifying the stages in the progression of diabetic retinopathy.



Dr José Cunha-Vaz



Dr Leonor Beleza presents the Champalimaud commemorative plaque to Prof Narsing A Rao as Dr D Balasubramanian looks on



Prof Pawan Sinha

Speaking on Project Prakash, Prof Pawan Sinha from the Department of Brain & Cognitive Sciences, MIT, USA described his collaboration with eye hospitals in Delhi, Rajasthan and Uttar Pradesh in helping children receive sight-restoring cataract surgery, while summarizing his research findings on how their

brains rewire themselves as their vision develops and improves.

Dr Joaquim N Murta from the Univ Hospital, Coimbra, Portugal focussed on the future prospects and advances in corneal transplants in his talk on 'Posterior corneal lamellar transplantation: past, present and future directions'.



Dr Joaquim N Murta

Endowment Lectures

LATE SHRI PUSHKARLALJI TIBREWALA PUBLIC LECTURE

Scaling up India's Eye Banks

India bears the highest burden of corneal blindness globally, of which a significant percentage can benefit from corneal transplantation. However, that is dependent upon the adequate retrieval of donor corneas, led by an efficient eye banking system. Speaking on "Eliminating treatable corneal blindness through social innovation: scaling up India's eye banks", Mr Tim Schottman, Senior Vice President, Global Programs, SightLife, USA, said the gap between the demand and supply of corneas could be addressed by increasing the number of eye banks in the country and developing leaders in the field.

Mr Schottman was delivering the annual Late Shri Pushkarlalji Tibrewala Public Lecture on September 20, 2010. After the lecture, the Tibrewala family recognized the high performing corneal retrieval centres and presented mementos to their representatives. The lecture series was initiated by industrialist Mr Om Prakash Tibrewala, former District Lion Governor and former president of the Federation of Andhra Pradesh Chambers of Commerce and Industry, in his father's memory.



Dr Usha Gopinathan, Executive Director, LVPEI presents a plaque to Mr Tim Schottman; centre: Mr O P Tibrewala

DR RUSTAM D RANJI ROTARY LECTURE

An Eye on the Patient

The annual Dr Rustam D Ranji Rotary Lecture was held on September 30, 2010. Dr Rohit Varma, Professor of Ophthalmology at Doheny Eye Institute, LA, USA delivered a talk on “The patients’ perspective: Is it important when treating eye disease?” Dr Varma’s primary research focuses on epidemiologic studies of eye disease in children and aging populations.

The lecture is sponsored by the Rotary Club of Hyderabad, District 3150 in memory of Dr Rustam Ranji, Honorary Ophthalmologist to the former Nizam of Hyderabad.



From left: Dr G Chandra Sekhar, Dr Rohit Varma & Mr R Venkataram of the Rotary Club

DR C SYAMALA BHASKARAN ENDOWMENT LECTURE

Reducing the Incidence of Diabetes

Dr Tien Y Wong, Professor & Director, Singapore Eye Research Institute delivered the 14th Dr C Syamala Bhaskaran Endowment Lecture on November 15, 2010. Speaking on ‘The diabetes epidemic in Asia’ he said effective blood sugar control can prevent microvascular complications like diabetic retinopathy and called for a primary health care focus on preventive strategies.

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



Dr CS Bhaskaran and Dr Syamala Bhaskaran felicitate Dr Wong



Dr Kakarla Subba Rao felicitates Dr Jerry Shields

DR KAKARLA SUBBA RAO ENDOWMENT LECTURE

Developments in Ocular Oncology

Internationally acclaimed authority on ocular oncology Dr Jerry A Shields, Director of Ocular Oncology Service at Wills Eye Institute, delivered the First Dr Kakarla Subba Rao Endowment Lecture on ‘Interesting new developments in ocular oncology’ on December 4, 2010.

A radiologist of international repute, Dr K Subba Rao played a key role in developing Hyderabad’s Nizam’s Institute of Medical Sciences (NIMS) into a premier health care institute of the state. Passionate about education, he instituted an endowment lecture at LVPEI recently.



Dr Sajid Ali and his wife Dr Sunita with Dr Meenakshi Bhat (right)

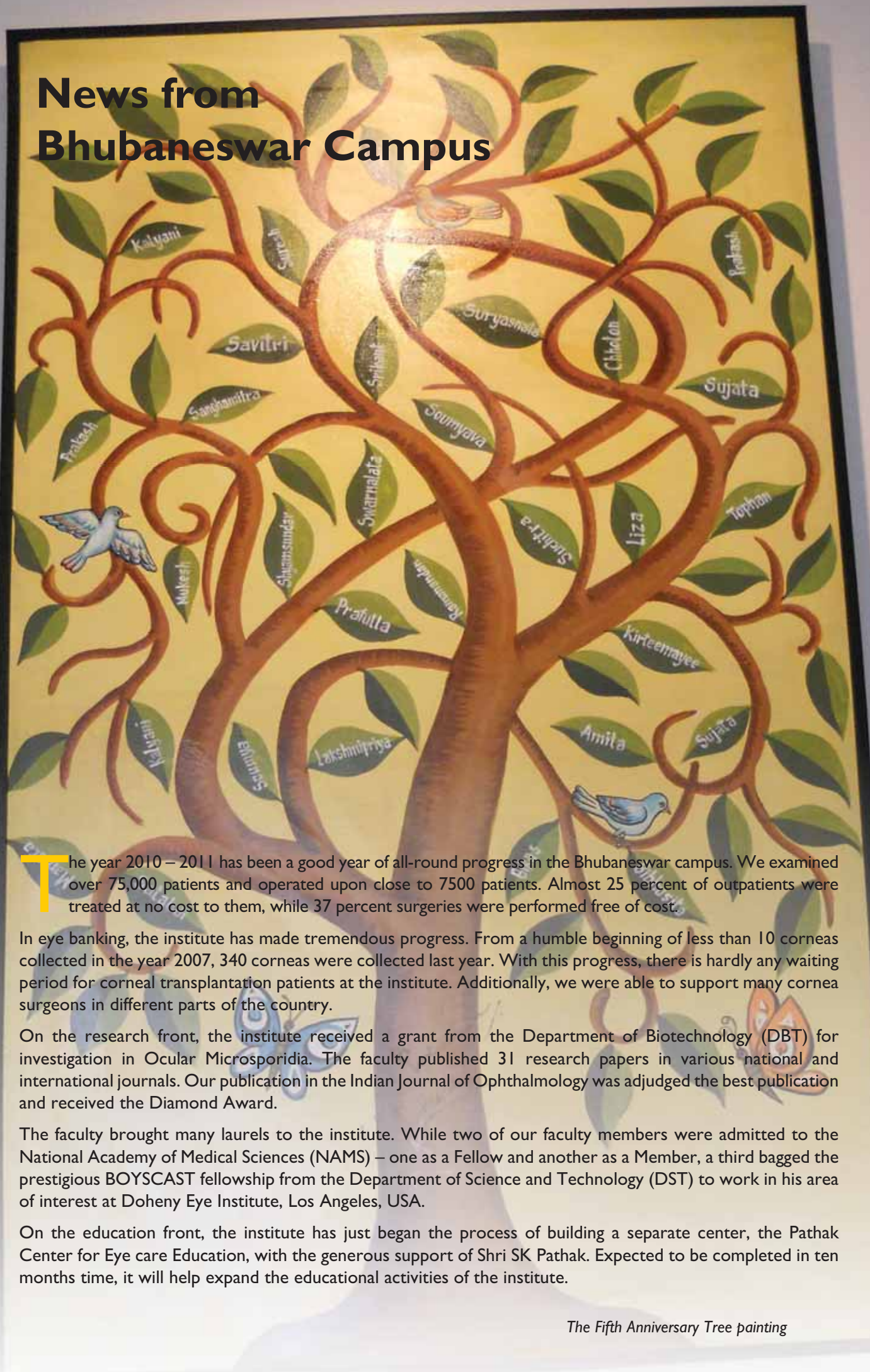
NAWAB ARASTU YAR JUNG BAHADUR MEMORIAL LECTURE

Socio-cultural Aspects of Genetic Counselling

Eminent genetic clinician and counsellor, Dr Meenakshi Bhat of the Centre for Human Genetics, Bangalore delivered the Third Nawab Arastu Yar Jung Bahadur Memorial Lecture on March 5, 2011. Speaking on ‘Social and cultural issues in genetic counselling’ Dr Bhat explained genetic counselling in terms of the questions that patients normally ask a counsellor. Drawing upon her experience as a clinical geneticist and paediatrician, she highlighted the cultural and social factors that govern how families receive and interpret issues related to the management of a genetic disease.

The biennial Nawab Arastu Yar Jung Bahadur Memorial Lecture was instituted by Dr Sajid Ali, in memory of his grandfather Dr Abdul Husain, personal physician to Mir Mehboob Ali Khan, the sixth Nizam of Hyderabad.

News from Bhubaneswar Campus



The year 2010 – 2011 has been a good year of all-round progress in the Bhubaneswar campus. We examined over 75,000 patients and operated upon close to 7500 patients. Almost 25 percent of outpatients were treated at no cost to them, while 37 percent surgeries were performed free of cost.

In eye banking, the institute has made tremendous progress. From a humble beginning of less than 10 corneas collected in the year 2007, 340 corneas were collected last year. With this progress, there is hardly any waiting period for corneal transplantation patients at the institute. Additionally, we were able to support many cornea surgeons in different parts of the country.

On the research front, the institute received a grant from the Department of Biotechnology (DBT) for investigation in Ocular Microsporidia. The faculty published 31 research papers in various national and international journals. Our publication in the Indian Journal of Ophthalmology was adjudged the best publication and received the Diamond Award.

The faculty brought many laurels to the institute. While two of our faculty members were admitted to the National Academy of Medical Sciences (NAMS) – one as a Fellow and another as a Member, a third bagged the prestigious BOYSCAST fellowship from the Department of Science and Technology (DST) to work in his area of interest at Doheny Eye Institute, Los Angeles, USA.

On the education front, the institute has just begun the process of building a separate center, the Pathak Center for Eye care Education, with the generous support of Shri SK Pathak. Expected to be completed in ten months time, it will help expand the educational activities of the institute.

4th Anniversary Celebrations

L V Prasad Eye Institute, Bhubaneswar celebrated its 4th anniversary on July 3, 2010, by conducting a Continuous Medical Education (CME) program on 'Neonatal ophthalmology'. Prof Lingam Gopal from Sankara Nethralaya, Chennai was the resource faculty, while LVPEI faculty from Hyderabad, Visakhapatnam and Bhubaneswar campus also delivered lectures. Dr Gullapalli N Rao, Chair, LVPEI network congratulated the staff on the progress made and presented course completion certificates and awards to the employees.



Liza Samal, patient care supervisor receives her certificate from Dr Gullapalli N Rao



Dr Savitri Sharma receiving a memento from Dr K M Baisakh, former President of IAMM

Annual Conference of IAMM

The 4th Annual Conference of the Indian Association of Medical Microbiologists (IAMM), Orissa Chapter was held on August 8, 2010 with Dr Savitri Sharma as the Organising Secretary. The conference was inaugurated by Dr C S Bhaskaran, renowned microbiologist and former Vice Chancellor of NTR Medical University. Lt Gen D Raghunath (Retd), member of Hyderabad Eye Research Foundation's governing board, was honoured with the Prof Bikram Das Memorial Oration award. A total of 14 free papers were presented by the faculty and postgraduate students from different parts of Orissa.



Operation Eyesight Partners Meet

Operation Eyesight India conducted a workshop for its partners at Bhubaneswar from December 8-9, 2010, with 18 partner hospitals from different parts of the country. The theme was "How to strengthen the hospital based community eye health programme" in each area. Resource persons from OE India helped develop individual project proposals.



Art Camp

An Art Camp, coordinated by Mr Surya Prakash and Mr Sisir Sahana, was organised from November 9-14, 2010. Fifteen artists from Kolkata, Hyderabad & Bhubaneswar participated, creating 28 beautiful paintings, which now adorn the walls of the institute.

Artist: Mr Raghunath



Ground-breaking ceremony of Residence Hall. From left: Dr Gullapalli N Rao, Dr Taraprasad Das, Dr APJ Abdul Kalam & Mr Ramesh Prasad



Dr Kalam with invited faculty

5th Institute Day Celebrations

The 5th Institute Day celebrations of Bhubaneswar campus were held from January 15-16, 2011 on a grand scale. Dr APJ Abdul Kalam, former President of India was the chief guest for the event, which included:

- The inauguration of the Dalmia Ophthalmic Pathology Laboratory, with support from OCL India Ltd.,
- The ground-breaking ceremony of Residence Hall – a hostel facility for trainees and visiting faculty,
- The ground-breaking ceremony of the Pathak Centre for Eye care Education,
- Christening of the amphitheatre pathway as the “IRK Murthy Walk”, and
- The First Bijayananda Patnaik Memorial Lecture.

Dr APJ Abdul Kalam delivered the First Bijayananda Patnaik Memorial Lecture on the 15th. Dr Gullapalli N Rao, Chair, LVPEI emphasized the public-private nature of the partnership in the development of the Bhubaneswar campus. Dr Taraprasad Das, Director, LVPEI Bhubaneswar spoke of the campus' achievements over the last 5 years, while Dr Savitri Sharma, Associate Director, gave a road map for the next five years. The event concluded with a program showcasing the cultural and artistic heritage of Orissa.

To commemorate the occasion 'EYE 2011', a CME program on 'Contemporary Practice in Ophthalmology' was organized, with 11 internationally acclaimed faculty from six different countries contributing to the academic deliberations. (*More in Education section*)



Dr APJ Abdul Kalam signs the 'Fifth Anniversary Tree' painting; the leaves bear the name of each employee who has completed 5 years of service at the Bhubaneswar campus



The Krishna Troupe forms a tableau of the Indian Tricolour

ORBIS Team Visit

A team from ORBIS including Dr Abu Raihan, Advisor Ophthalmology, Asia, Dr Larry Benjamin, Voluntary Faculty, UK, Ms Lene Overland, Director of Programs, ORBIS Europe, Middle East & Africa, Dr Lutful Husain, staff ophthalmologist for South Asia, Mr Samson Cheung, Finance Dept of ORBIS Asia, and Mr Golden Frankly, Program Manager, ORBIS India visited the campus on March 3, 2011 to discuss a possible collaboration in Orissa. Dr Taraprasad Das briefed them about the achievements of the campus and its future plans.



News from GMR Varalakshmi Campus, Visakhapatnam



VPEI's GMR Varalakshmi campus was established in 2006 – a tertiary eye care centre offering the full range of ophthalmology services to anyone who walks through its doors. As we complete 5 years, we have come one step closer to replicating the LVPEI Eye Health Pyramidal model in the north coastal region of Andhra Pradesh, with the inauguration of our first 2 Vision Centres at Shrungavarapukota and Chodavaram. Set in the heart of rural Andhra Pradesh, these 2 centres, located about 60 km from the main GMR Varalakshmi campus, are amongst the finest Vision Centres in the Institute's network in terms of the allocated space and ambience. We plan to set up a total of 30 Vision Centres in Visakhapatnam and Vizianagaram districts in the coming year.

Our community eye care team comprising of a field coordinator and 5 field workers screened over 10,000 school children and more than 2000 adults in a door-to-door survey of 5 mandals allotted by the District Blindness Control Society. Their efforts resulted in almost 1000 patients with sight-threatening problems being referred to the Institute for eye care.

We continued our efforts to spread awareness about eye diseases among children and the elderly by conducting screening programs for these focus groups in the months of June and July. A senior citizens' screening program was launched by Mrs Purandareswari, MP.

During the year, we saw more than 70,000 patients in the outpatient department (25% free) and performed close to 7000 surgeries, 42% entirely free of cost. All credit goes to our dedicated team of consultants and patient care staff! We are confident that 2011-2012 will be as fruitful and exciting as this year.

New Facilities on 4th Anniversary

LVPEI's GMR Varalakshmi campus, Visakhapatnam celebrated its 4th anniversary on July 7, 2010, with an eventful week! The highlights included the inauguration of several new facilities by the staff members:

- a LASIK theatre,
- a wet lab for trainees,
- a diagnostics center,
- a new OPD area,
- a telecounselling department and
- an audiovisual department.

As part of the celebrations, Childhood Blindness Fortnight was observed from June 21 – July 3, 2010 during which 349 children below the age of 12 were screened for eye problems, free of charge. A school screening program was launched under the Nimmagadda Prasad – LVPEI Children's Eye Health Initiative, with 675 schoolchildren being screened. Free spectacles were distributed to poor children from various schools.



B Anjaneyulu, Administrator inaugurates the tele-counselling office



*The staff with their prizes for sports and games...
From left: G Appanna, P Anandkumar, A Venkat, K Gopal Rao, K Narendra, Dr PVKS Varma, K Veerababu and K Lokesh*



P Anand Kumar, Senior Optometrist inaugurates the new diagnostics rooms



K Narendra, senior Biomedical Technician inaugurates the audiovisual room

Into the Community and in Schools

In line with our public health focus, community eye care services were formally launched with a school screening program on June 29, 2010 in Visakhapatnam district, with support from the District Blind Control Society (DBCS), which has allotted 5 underserved mandals in Visakhapatnam district to provide eye care through household, community and school screenings. A community eye care team was established with one coordinator and 5 field workers for each mandal. During the year 19 community screening programs were conducted, including one on January 4, 2011 with support from the Rotary Club, Vizianagaram.



Snapshots of a community screening program conducted by LVPEI, Visakhapatnam campus



Screening Programs on the Campus

Three free eye screening programs were conducted at the Institute:

- During Childhood Blindness Fortnight, 349 children below the age of 12 were screened for eye problems (June 21 – July 3, 2010)
- Screening for LASIK refractive surgery for 110 young adults (July 8-24, 2010)
- General eye examinations for 140 senior citizens; Mrs D Purandareswari, Member of Parliament, inaugurated the program. (August 1-31, 2010)



The free eye screening program for senior citizens being inaugurated by Mrs D Purandareswari with program supporters: from left Mr O Naresh (Head, Symbiosis Technologies), Mr Mavuri Venkata Ramana (Chair, CMR mall) and Dr Avinash Pathengay

Vizag Launches its First Vision Centres

The campus inaugurated its first 2 Vision Centres (VC) on December 13, 2010 at Shrungavarapukota and Chodavaram, both approx 60 kms away. These are the first of 30 VCs linked to LVPEI Visakhapatnam, to be set up during 2010 – 2013 with support from the Lavelle Fund for the Blind, Inc., USA.

The Chodavaram VC premises were provided by a voluntary organization Premasamajam; the Shrungavarapukota VC is supported by Bapuji Sevasangam. The spacious Vision Centres are an improvement on the

earlier models. The communities of 50,000 people each in some of the most underserved parts of the State will benefit from these high quality primary eye care centres.

Dr Gullapalli N Rao (Chair, LVPEI), Dr Merle Fernandes (Director, LVPEI, Visakhapatnam), Dr PVKS Varma and the entire Vizag team participated in the inaugural, as did representatives of the supporting organizations. The inaugurals were followed by public meetings organized by local communities to create awareness of the services available at the VCs.



Dr Merle Fernandes, Director, LVPEI, Visakhapatnam; the Shrungavarapukota Vision Centre and the first patient being examined at Chodavaram



International Trainees

Dr Abdulla Saad Al-roabie, Consultant, Ophthalmology, Armed Forces Hospital, Kingdom of Saudi Arabia (centre) with Dr Merle Fernandes, and Dr I S Murthy, (right) training in-charge. He came for a short-term fellowship in cornea and phacoemulsification.

During the year, 5 international fellows came to the campus; this number will increase next year.



Artists Ms Faiza Hasan and Mr Raghunath Sahoo at work



A painting by Mr S Ganesh

Artists Workshop

An artists' workshop was conducted from December 2-4, 2010, with 12 artists from various cities participating. The paintings were donated to the institute. The program was organized by LVPEI's artist-in-residence Mr Surya Prakash.



World Optometry Day was celebrated on March 23, 2011 by optometrists, vision technicians and other staff. Mr Anand Kumar, senior optometrist gave a talk.



Optometry internship: On May 31, 2010 written exams and interviews were conducted for 9 optometry students keen to do their internship at this campus. Later a workshop was conducted, led by Mrs G Rekha, Senior Optometrist. The workshop focused on both theory and interesting case discussions. Two candidates, Ms Apoorva Karsolia and Mr Arnav Ghosh commented this was the first time that somebody had first coached them and then interviewed them!

News from Kode Venkatadri Chowdary Campus, Vijayawada

VPEI's new tertiary centre, Kode Venkatadri Chowdary (KVC) campus at Tadigadapa, Vijayawada had a soft launch on February 16, 2011. Vijayawada is a very fertile agricultural belt and is one of the more literate, affluent and entrepreneurial areas in Andhra Pradesh.



Dr Nirnanjan Pehere and Dr Antony Vipin Das show Mrs Brown around the Children's Eye Care Centre

For L V Prasad Eye Institute, this was the first instance where the donor sponsored the land, the construction of the building and the entire infrastructure at a stretch. This centre's services will extend to 5 districts – Krishna, West Godavari, Prakasam, Guntur and Khammam – with an approximate population of 15 million.

In short span of merely 6 weeks, more than 1500 patients were seen at the centre. The surgical services will begin in June 2011. The David Brown Children's Eye Care Centre holds pride of place, offering comprehensive pediatric eye care under one roof, a felt need of the region.

Another signature feature of the Vijayawada centre is that 70-80% of all employees are recruited from the local population, contributing to employment opportunities and career development for the local youth.

(More in News section, page 14)



Dr Chadalavada Nageswara Rao, Vice-President, Siddhartha Academy of General & Technical Education, Vijayawada and his wife light the lamp at the inauguration

A patient being examined at KVC campus



Right: Mr Gaurav Uppal, Joint Collector, Krishna district views the facilities



Members of Mr Kode Satyanarayan's family – Mr K Venkata Ramana, Mrs KV Sandhya and Mr A Sudhakar, Mrs Soona & Mr Edward Brown and other dignitaries at the inauguration



Alumni news

Annual Meeting at Bhubaneswar

The 2011 LVPEI alumni meeting was a great success – marked by bonhomie and learning. This year, the meeting was held at L V Prasad Eye Institute, Bhubaneswar, as part of its 5th anniversary celebrations from January 15-16, 2011. The events included a CME program 'EYE 2011' and a cultural fiesta, with former President of India Dr APJ Abdul Kalam gracing the occasion. Many LVPEI alumni, from India and overseas, attended the annual get-together and presented their work at the CME, which was appreciated by all the participants. The alumni also had a unique opportunity to interact with Dr APJ Abdul Kalam at a special session on January 15, 2011.

The meeting also recognized the fact that alumni from various parts of India and abroad continue to utilize LVPEI's resources, such as corneal tissues, amniotic membranes, tissue glue and polyhexamethylene biguanide (PHMB).

Alumnus and current consultant at LVPEI Hyderabad, Dr Somasheila Murthy made a donation in the name of her father, Late Shri IRK Murthy. It supported the construction of a beautiful garden walkway, which was inaugurated by Dr APJ Abdul Kalam.



Dr APJ Abdul Kalam with Mr Premanand Thudia, Dr Das and Dr Somasheila Murthy inaugurate of the IRK Murthy walk



Alumni Highlights

Tariq Ali

'Fazlul Haque Memorial Award' at the 10th biennial conference of SAARC Academy of Ophthalmology (SAO) and 38th annual conference of Ophthalmological Society of Bangladesh (OSB), March 2011. Topic: Clinical features and visual outcome of VKH – experience at a tertiary eye care centre of Bangladesh.

Sameer Datar

Best Video award for 'Boston Keratoprosthesis' at the Maharashtra Ophthalmological Society Annual Conference "MOSCON", Sangli, October 2010.

Mayur Morekar

AIOS-Inflammation Award for the year 2010 at the All India Ophthalmological Society Conference at Ahmedabad, February 2011. Topic: Microbiology based therapy in cosmetic contact lens related polymicrobial keratitis with good visual outcome.

Somasheila Murthy

Cataract – AIOS Sante Vision Award at All India Ophthalmological Society Conference at Ahmedabad, February 2011. Topic: Investigation of a new dual-optic accommodating intraocular lens in cataract surgery, phase II study.

Debraj Shome

Trauma – AIOS award at All India Ophthalmological Society Conference at Ahmedabad, February 2011. Topic: Oculo-facial trauma – rapid rise of the oculoplastic surgeon to more "plastic" & less "oculo"!

Devindra Sood

Elected Secretary of the Glaucoma Society of India at its XX annual meeting, November 2010.

Rishi Swarup

First prize in National Ophthalmology Quiz at All India Ophthalmological Society Conference at Ahmedabad, February 2011. He won a Maruti Alto car!

It's been one year since I came to LVPEI for a 1 month retina training. It was a good month of training with very knowledgeable people at Hyderabad. I will cherish those moments all my life!

I have started my own Medical Retina unit with Canon CF1 Fundus cam and C-Zeiss 532nm YAG green laser. My practice at LVPEI helped me in doing quality FFAs and PRP, focal lasers with great confidence. I really thank all of you there at LVPEI, for whatever I am doing in the field of retina.

Dr Girish Bhat
Mumbai

Honors & Awards

Subhabrata Chakrabarti

- Invited to join the Publications Committee of ARVO from 2011
- Young Scientist Award, Asia-Pacific Glaucoma Society and SEAGIG

Tarapasrad Das

- Associate Editor, APJO (Asia Pacific Journal of Ophthalmology)
- Member, Research Committee, APAO (Asia Pacific Academy of Ophthalmology)
- Vice President, APVRS (Asia Pacific Vitreo Retinal Society)

Usha Gopinathan

Invited to be a member of the eye bank advisory group of ISBT 128 that stands for global standards for identification, labeling and information processing of human blood, tissues and organ products across international borders and disparate health care systems

Vijaya K Gothwal

Fellowship by the American Academy of Optometry, San Francisco, USA. November 2010

Santosh G Honavar

- Invited to serve as Committee Chair to update the International Council of Ophthalmology Residency Curriculum for the Oculoplastic Surgery and Orbit section
- Invited to join the Advisory Committee of the International Council of Ophthalmology to represent ophthalmic plastic and reconstructive surgery



Dr Santosh G Honavar receiving the Shanti Swarup Bhatnagar Prize from Prime Minister Manmohan Singh in New Delhi on October 20, 2010. Dr Honavar was awarded the prize in Medical Sciences for 2009 for seminal contributions to the management of advanced retinoblastoma with dramatically improved patient survival, eye salvage and visual recovery.

Ramesh Kekunnaya

Appointed Professional Education Committee Member, American Academy for Pediatric Ophthalmology and Strabismus, 2011

Milind Naik

Elected Vice President of the Asia Pacific Society of Ophthalmic Plastic and Reconstructive Surgery for 2010-2012, the youngest to hold that office till date

Raja Narayanan

Achievement Award, American Academy of Ophthalmology. November 2010

Gullapalli N Rao

- Received the World Cornea Congress medal for 2010 at the World Cornea Congress VI in Boston, Massachusetts, USA (April 2010). He is one of five individuals selected for outstanding contributions to the specialty of cornea and external disease in the last several decades. The recognition comes from the community of corneal specialists, both clinicians and basic scientists, across the world at their largest congress ever.
- Conferred the degree of Doctor of Science (Honoris Causa) by the Dr NTR University of Health Sciences at its XIV Convocation (April 2010). The university includes Dr Rao's alma mater, Guntur Medical College and is the first health university established in India by the State Government of Andhra Pradesh.
- Awarded the prestigious Bernardo Streiff Gold Medal, given by the Academia Ophthalmologica Internationalis once in four years, for his contribution to ophthalmology at the World Ophthalmology Congress 2010 in Berlin (June 2010).
- Awarded the Jose Rizal Medal by the Asia-Pacific Academy of Ophthalmology for outstanding ophthalmologists in the Asia-Pacific region, at its 25th annual meeting in Beijing (September 2010).

Geeta K Vemuganti

- President Elect, International Society of Ophthalmic Pathology
- Invited to serve as Committee Member to update the International Council of Ophthalmology Residency Curriculum for the Ocular Pathology section

International

Deepak K Bagga

Travel grant from International Society for Low Vision Research and Rehabilitation to attend the International Conference on Low Vision at Kuala Lumpur, Malaysia in February 2011

Ujwala Baheti

Accepted by Massachusetts Eye and Ear Infirmary, MA, USA, for a research fellowship, beginning July 2011. She is one of LVPEI's first batch of residents.

Murali Mohan Sagar Balla

ARVO travel grant to attend ARVO meeting at Fort Lauderdale, FL, USA. May 2010

Sujata Das

AFER/ARVO Developing Country Eye Researcher Fellowship (DCERF) Award [The ARVO Foundation for Eye Research (AFER)/The Association for Research in Vision and Ophthalmology (ARVO)]

Subhadra Jalali

- Appointed on the editorial board of World Journal of Vitreoretinal Diseases
- Invited to be one of the five judges for the prestigious Dotd Award and also chairperson for poster session B at ISCEV 2010 in Perth, Australia

Inderjeet Kaur

International Society for Eye Research (ISER) Travel fellowship (USA) to attend the International Congress on Eye Research at Montreal, Canada. July 2010

S Krishnaiah

Prof Yasuo Tano Travel Grant for Asia Pacific Academy of Ophthalmology Congress 2011 at Sydney, Australia. March 2011

Indumathi Mariappan

ARVO travel grant to attend ARVO meeting in May 2011

Manju Meena

Illumina travel fellowship grant and CSIR foreign travel grant for Asia ARVO meeting at Singapore. January 2011

Ashik Mohamed

ARVO travel grant to attend ARVO meeting in May 2011

Milind Naik

Appointed Adjunct Associate Professor of Ophthalmology, School of Medicine and Dentistry, University of Rochester Medical Centre, Rochester, NY, USA

Vidya Latha Parsam

ARVO travel grant to attend ARVO meeting at Fort Lauderdale, FL, USA. May 2010

D Srikanth

ARVO travel grant for poster presentation at Asia ARVO meeting in Singapore. January 2011

P Veerendranath

ARVO travel grant to attend ARVO meeting in May 2011

Geeta K Vemuganti

ICMR travel grant to attend the World Ophthalmic Congress, Berlin, Germany. June 2010

Video Awards

INTERNATIONAL

American Society of Cataract and Refractive Surgery film festival, Boston, USA (April 2010)

Best film in quality teaching category: Peripheral ulcerative keratitis: An enigma for clinicians – Dr Merle Fernandes, Dr Madhushmita Das, Dr Virender S Sangwan

Runner-up prize in special interest category: OSSN: Tips and tricks – Dr Savari Desai, Dr Santosh Honavar

25th Asia Pacific Academy of Ophthalmology joint meeting with American Academy of Ophthalmology, Beijing, China (September 2010)

Best of Show Video: Deep Sclerectomy with CO₂ – Dr G Chandra Sekhar, Dr Sirisha Senthil, Dr Anil K Mandal



Dr G Chandra Sekhar receives the award

XXVIII Congress of European Society of Cataract and Refractive Surgeons & XX EURETINA (European

Society of Retina Specialists) meeting, Paris, France (September 2010)

Second prize in film festival: Dancing nematodes in the eye – Dr Avinash Pathengay, Dr Soumyava Basu, Dr G William Aylward, Dr Biju Raju

Joint Meeting of the American Academy of Ophthalmology and Middle East Africa Council of Ophthalmology, Chicago, USA (October 2010)

AAO Best of Show Video: Sebaceous Gland Carcinoma: The leading masquerade – Dr Surbhi D Joshi, Dr Santosh G Honavar, Dr Geeta K Vemuganti, Dr Milind N Naik, Dr Mohd Javed Ali

NATIONAL

Ophthalmic Premiere League competition, annual East India Zonal Ophthalmic Conference, Disha Eye Hospital, Kolkata (June 2010)

First Prize: Sameer Mahapatra, as part of the Orissa State team, for the entry from LVPEI, Bhubaneswar

Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad (October 2010)

Swarup Medal: 20 years of comprehensive care for children with congenital glaucoma – Dr Anil Kumar Mandal

Paradigm 2010, 21st annual conference of Oculoplastics Association of India, Mumbai (November 2010)

Best Video Award: Non surgical management of congenital eyelid malformations – Dr Manju Meena

National

Soumyava Basu

Better Opportunities for Young Scientists in Chosen Areas of Science and Technology (BOYSCAST) fellowship from Department of Science and Technology, Government of India, to work at Doheny Eye Institute, Los Angeles, USA. June – September 2010

Shrikant Bharadwaj

DST Fast Track grant entitled “Control of focusing and eye alignment during human visual development” recommended for funding for three years.

Subhabrata Chakrabarti

Mehra INACO Award by Indian Association of Community Ophthalmology

Ravikumar Chukka

Best Research Paper Award at the First International Conference on Community Ophthalmology, Kolkata. November 2010

Sujata Das

Elected Member, National Academy of Medical Sciences at its golden jubilee convocation in Patiala. October 2010

Taraprasad Das

Chair, National Board of Examination Ophthalmology Specialty Board

Tarjani Dave

- Best Histopathologic Photograph award at the Annual Conference of Oculoplasty Association of India, Mumbai. November 2010
- Quiz Winner at the Annual Conference of Oculoplasty Association of India, Mumbai. November 2010
- International Travel Grant to IESGDR, Bangalore. January 2011

Subhash Gaddipati

Best poster presentation at Indian Eye Research Group 2010 meeting. July – August 2010

Usha Gopinathan

Elected President of the Eye Bank Association of India for a period of three years, effective April 1, 2010

Surbhi Joshi

Department of Science and Technology Travel Grant for AAO 2010

Inderjeet Kaur

DBT-CREST (Cutting Edge Research Enhancement and Scientific Training Award) from the Department of Biotechnology, Ministry of Science and Technology, Government of India

Vilas Kovai

Amjad Rahi Prize for Best Oral Presentation in Basic Sciences at Indian Eye Research Group meeting. July – August, 2010

Ajit Babu Majji

Declared Chairman of Academic & Research Committee of the All India Ophthalmological Society (AIOS). He is

the third person from LVPEI to be elected unanimously to the Governing Council of AIOS – the other two were Dr Gullapalli N Rao and Dr Taraprasad Das, both Editors, Indian Journal of Ophthalmology.

Indumathi Mariappan

Young Scientist Fast Track research grant from the Department of Science and Technology, Government of India

Manju Meena

Best Photo Award and First Prize in Ophthalmic Quiz at Paradigm 2010, 21st annual conference of Oculoplastics Association of India, Mumbai. November 2010

Somasheila Murthy

Best Paper award, Cataract Session (AIOS SANTE VISION award) at the All India Ophthalmology Congress, Ahmedabad. February 2011

Milind Naik

Webmaster of the Oculoplasty Association of India

Kunjaj Sejal

Best Scientific Paper in Cornea session at the All India Ophthalmology Congress, Ahmedabad. February 2011

Savitri Sharma

Elected Fellow, National Academy of Medical Sciences at its golden jubilee convocation in Patiala. October 2010

Sandhya Subramanian

Best oral presentation at Indian Eye Research Group meeting. July – August 2010

T Shyam Sunder

Best Scientific Paper Award at the ESO International Vision Science and Optometry Conference (EIVOC), Sankara Nethralaya, Chennai. August 2010

Naga Chandrika T

Best Poster Award at the 35th All India Optometry Conference at Jaipur. January 2011

Pravin K Vaddavalli

Shiv Prasad Hardia award for Best Paper in refractive surgery at All India Ophthalmological Society meeting, Kolkata. January 2010

Geeta K Vemuganti

- Shyam Lal Saxena Memorial Award for her paper at the National Academy of Medical Sciences (NAMS) golden jubilee convocation in Patiala. October 2010
- Best oral presentation by NAMS awardees

Aravind Roy, Sujata Das, Srikant Sahu, Suryasnata Rath

Amjad Rahi Prize for Best Poster at the Indian Eye Research Group meeting. July – August 2010

Sujata Das, Savitri Sharma, Sarita Kar, Srikant Sahu, Bikash Samal, Aparajita Mallick
IJO-AIOS Golden Award – 2010

Regional

Mohd Javed Ali

Vengal Rao Medal & Sunayana Award for Best Paper at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010

D Balasubramanian

Eminent Citizen Award, Sanathan Dharma Foundation, Hyderabad

Sunita Chaurasia

Best Paper Award in Madiraju Ashok Free Paper Session at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010

Taraprasad Das

Member, Board of Studies in Ophthalmology, KIIT University, Bhubaneswar

Subhadra Jalali

Featured in "APOS News & Views" annual newsletter as a Trendsetter, September 2010

Ajit Babu Majji

Dr Gullapalli Venkateswar Rao Oration Award at Guntur Ophthalmic Association meeting, Guntur. November 2010

R Muralidhar

Srikan Award for Best Poster at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010

R Rajyalakshmi

Best Paper Award in Postgraduate Paper Session at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010

Virender Sangwan

- Raghavachary Award for Best Free Paper at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010
- Prof Mahendra Mishra Oration award by Orissa State Ophthalmological Society presented by Chief Minister of Orissa Shri Naveen Patnaik, November 2010
- Dr Shantilal Modi Oration award by Ahmedabad Ophthalmology Society, January 2011
- Karmabhoomi Award for Medical Sciences by Haryana Institute of Fine Arts, Karnal, Haryana. Presented by Dr Farooq Abdullah, March 2011

R Rajyalakshmi, Siddharth Dikshit & Priyanka Gogte (Residents Quiz Team) – Third prize at 'eye2future', 34th annual meeting of Andhra Pradesh Ophthalmological Society, Hyderabad. October 2010

Green awards for LVPEI



Kismatpur campus



Kallam Anji Reddy campus

L V Prasad Eye Institute's Kismatpur campus won the 'First Prize' and the Kallam Anji Reddy campus in Banjara Hills won the 'Second Prize' in the 'Gardens maintained by Private Institutions Category' at the Garden Festival 2011 organized by the Department of Horticulture, Government of Andhra Pradesh. All credit goes to Mr Modin Basha, in charge of the gardens at both our campuses and his team for their hard work.




Mr Basha (left) receives the award with Mr Rupesh Kumar, Assistant Director, LVPEI (right)



Sisir Sahana, artist-in-residence at LVPEI

Artistic Spirit Award 2010 for his film Maati-O-Manush (The Soil and the People) at the New Hope Film Festival, USA.

Mr Sisir Sahana (centre) with Danny Sailor (Director, Submissions) and Thom Michael Mulligan (Executive Director, Submissions)



Patient care is the raison d'être of L V Prasad Eye Institute — excellent and efficient eye care delivered with equity to all in need, regardless of the ability to pay. Starting with 5 examination rooms and two operating theatres 24 years ago we have grown into a state-of-the-art facility with more than 50 examination rooms and 9 operating theatres at the Institute's main Kallam Anji Reddy campus alone. With the growing trust in our services from the community that emanates from our vision of excellence with equity and the dedication of our committed staff, we continue to expand. The Bhubaneswar and Visakhapatnam tertiary centres are almost five years old, while the new Vijaywada tertiary centre is seeing a steady stream of patients. Along with our secondary and primary care centres across the state of Andhra Pradesh, we now have a presence in 87 different locations. As we enter the 25th year of patient care it is time to thank the community and our staff and rededicate ourselves to "excellent patient care regardless of the ability to pay".

As we recapitulate the significant achievements and milestones in the last year, we notice with pride that patients come to the LVP campuses from all over the world. This year we saw 1259 patients from 46 developed and developing countries – UK, USA, Canada and Australia to Sri Lanka, Ukraine, and the middle east nations.

At the Centre of Excellence in Hyderabad and the 3 tertiary centres (Bhubaneswar, Visakhapatnam and the fledgling Vijaywada centre, just one and a half months old) we saw a total of 365,193 patients, of which 28% were examined free of cost. We performed 52,428 surgeries, 43% of them entirely free of cost, regardless of complexity. It is noteworthy that of the 22,672 non-paying surgeries performed, 8726 were cataract, while the remaining 62% were advanced and specialized services, offered entirely free of cost.

There were other significant achievements in the area of patient care. The number of corneal transplants performed across the network last year was 1720, one of the highest for a single Institute in the world. Our stem cell therapy for the ocular surface continues to bring us laurels and immense satisfaction. Last year we also upgraded our cornea refractive surgery services, with the addition of a Femtosecond Laser. Our four dedicated Children's Eye Care Centres provided eye care to 51,695 children, 28% free of cost and performed 8019 surgeries, 48% of them free of cost. The Centres continue to provide advanced services in the areas of retinoblastoma, retinopathy of prematurity, developmental glaucoma, pediatric cataract and corneal transplants, among others.

A new concept, the City Centre is aimed at bringing LVPEI's excellent eye care closer to the doorstep of the urban population by providing quick eye examinations and a wide range of surgeries. The first City Centre at Madhapur in Hyderabad's IT hub, set up on August 16, 2010, saw 8677 patients and performed 400 surgeries till March 31, 2011. More city centres are coming up shortly in Visakhapatnam, Vijayawada and Hyderabad.

As the Institute enters its Silver Jubilee Year on June 1, 2011, there are many new horizons to conquer and we are ready for the challenge!

Patient Care

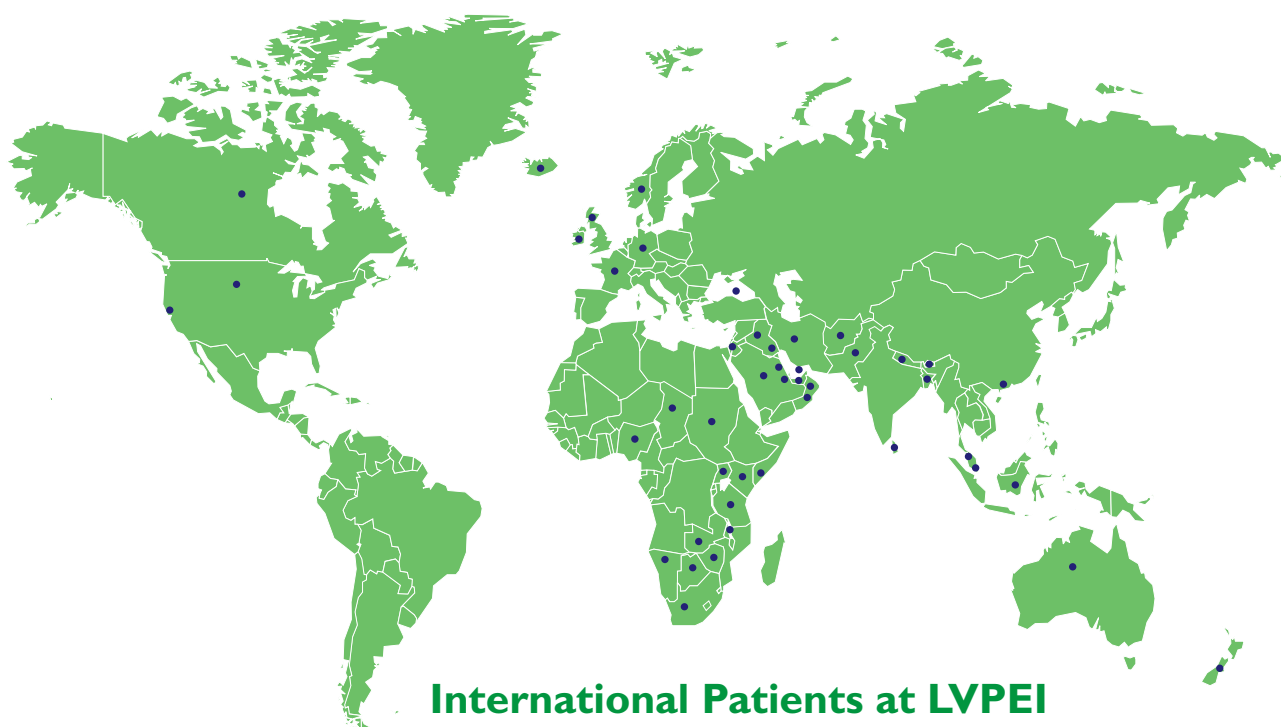
Tertiary & Advanced Tertiary Care

Campus	Outpatient visits			Surgical procedures		
	Paying	Non-paying	Total	Paying	Non-paying	Total
Kallam Anji Reddy Campus, Hyderabad	152,166	64,489	216,655	21,027	17,039	38,066
Bhubaneswar Campus, Bhubaneswar	57,806	17,466	75,272	4727	2727	7454
GMR Varalakshmi Campus, Visakhapatnam	53,707	18,040	71,747	4002	2906	6908
*Kode Venkatadri Chowdary Campus, Vijayawada	896	623	1519	–	–	–
TOTAL	264,575	100,618	365,193	29,756	22,672	52,428

*Launched February 16, 2011; surgical services from June 2011

Break-up of Surgical Procedures

Surgeries	Kallam Anji Reddy Campus, Hyderabad	Bhubaneswar Campus, Bhubaneswar	GMR Varalakshmi Campus, Visakhapatnam	Total
Cataract	12,004	2975	3320	18,299
Cornea	4846	380	698	5924
Corneal transplants	1336	194	190	1720
Glaucoma	1208	211	161	1580
Retina & Vitreous	12,452	2387	621	15,460
Squint	1070	80	194	1344
Oculoplasty	4450	886	311	5647
LASIK	700	95	313	1108
Others	-	246	1100	1346
TOTAL	38,066	7454	6908	52,428





Children's Eye Care

Campus	Outpatient visits			Surgical procedures		
	Paying	Non-paying	Total	Paying	Non-paying	Total
Jasti V Ramanamma Children's Eye Care Centre, Hyderabad	24,328	10,813	35,141	3385	3256	6641
Miriam Hyman Children's Eye Care Centre, Bhubaneswar	6163	2151	8314	320	346	666
Nimmagadda Prasad Children's Eye Care Centre, Visakhapatnam	6587	1503	8090	428	284	712
The David Brown Children's Eye Care Centre, Vijayawada (Inaugurated January 29, 2011)	82	68	150	–	–	–
TOTAL	37,160	14,535	51,695	4133	3886	8019

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

Retinopathy of Prematurity (ROP) program

	Hyderabad	Bhubaneswar
Babies screened	999 (586 at LVPEI and 413 in NICU)*	317
Laser sessions	135	12
Retcam photos	77 sessions	67 sessions
Pediatric retina surgeries	467	148
ROP surgeries	50	2

*NICU - Neo-natal Intensive Care Unit

A Milestone

A dedicated full-day Pediatric Retina Service was launched from January 2011. The service runs every Saturday in the Jasti V Ramanamma Children's Eye Care Centre at the Hyderabad campus providing comprehensive care for pediatric retinal diseases. Children can be seen simultaneously by a team of specialists, expert in handling both routine and rare pediatric retinal conditions. The team comprises pediatric retina consultants, trained optometrists, child rehabilitation and low vision consultants, pediatric ophthalmologists, a pediatric anesthesiologist and a pediatrician.

A low number of ROP surgeries indicates the success of our screening and laser program. This year's 50 ROP surgeries were performed mostly for babies referred to us from outside our ROP program, which is a recognition of our established ROP and pediatric retina surgery centre.

Patientspeak

A Tough Little Survivor

Baby Om Behera was 11 months old when he was brought to the Miriam Hyman Children's Eye Care Centre (MHCECC) oncology unit at LVPEI, Bhubaneswar. Om had suffered a terrible infection in his right eye a month earlier and had been treated at an eye hospital in Cuttack. Sadly, Om lost all vision in his right eye after the attack. Then his left eye showed a peculiar white reflex, which bothered his parents. When they brought it to the notice of the eye surgeon at Cuttack, he referred them to LVPEI, Bhubaneswar.

Om underwent a detailed evaluation under anaesthesia at the MHCECC. The right eye was disfigured after the infection attack and, unfortunately, did not have any potential for vision. The left eye showed a large yellow coloured mass in the retina, which was diagnosed as retinoblastoma of the left eye, an eye cancer typically seen in young children. The possibility that the right eye may have also harboured a tumour which had spontaneously regressed made things worse for the parents.

The ocular oncology team realized how difficult things were for the family. After detailed discussions they decided to treat the baby with chemotherapy and surgery. The treatment continued for several months with several cycles of chemotherapy, in addition to localized measures like lasers to control the tumour in the only good eye of little Om. Several months later, on a visit to the institute,



Om surprised everyone by confidently walking about without any help from his parents. His parents were jubilant that Om could see and recognize them.

Om was kept under close observation for the next two years. One day, his parents came to the Institute with a complaint that Om was unable to see with his left eye. The boy had sustained an injury to his head about a week ago and had lost his vision.

An examination revealed that Om had a retinal detachment and a complicated cataract in his left eye. He was operated first for his cataract and then for the retinal detachment. He regained useful vision in the left eye again, much to the relief of his grateful parents.

A Corneal Transplant Leads to Better Grades

Ten-year-old Murukutla Sampath was studying in the seventh class, when his class teacher noticed that he was finding it difficult to copy from the blackboard. His parents took him to an ophthalmologist in Vijayawada who diagnosed him with allergic conjunctivitis and prescribed some eye drops. When this did not help much, his father brought him to LVPEI, Hyderabad where a corneal consultant diagnosed him with keratoconus and allergic conjunctivitis in both the eyes.

Sampath was prescribed RGP (rigid gas permeable or 'semi-soft') contact lenses. He used the lenses for a year but his parents felt that his vision had not improved. Nor was he comfortable with the lenses. His performance at school had not improved; he had done badly and had been asked to repeat the class.

In August 2006, Sampath's father took the boy to the Institute's GMR Varalakshmi campus at Visakhapatnam. His visual acuity had dropped to 20/160 in both the eyes and the diagnosis of allergic conjunctivitis with

keratoconus was reconfirmed. As he was not comfortable with the lenses, Sampath was advised corneal transplants (penetrating keratoplasty) in both the eyes. He was operated upon in both eyes at a year's interval and recovered well. He fared much better at school. This time he scored 70% in the 7th standard exams.



At Sampath's last check-up in March 2011, his best corrected visual acuity was 20/25, N6@30cm in both eyes. He is now studying in the 10th standard and his parents are very grateful to LVPEI.

(Informed consent has been obtained from individuals whose photographs and case stories are presented in this report.)

A Multidisciplinary Approach for a Complex Case

Mrs Rahula Parvathi, 58, came to the Institute's GMR Varalakshmi campus in December 2010 with complaints of sudden decrease in vision and drooping of the left upper eyelid since 15 days. A local ophthalmologist had referred her to us as a case of left oculomotor cranial nerve palsy. She was a known diabetic and was on systemic treatment, yet, her sugar levels were not under control.

On examination, she was found to have a best corrected visual acuity of 20/20, N6 in the right eye and no perception of light in the left eye. She had total ptosis (drooping of the lid) in the left eye and complete external ophthalmoplegia (total limitation of movements) in her left eye. However, her extra-ocular movements in the right eye were complete. The corneal sensations in the left eye were mildly diminished.

Mrs Parvathi was diagnosed with Left Orbital Apex Syndrome with the involvement of several cranial nerves. She underwent further investigations to determine the etiology; however, all tests were negative. This condition is characterized by the abovementioned clinical features and can be associated with life-threatening complications if not managed properly. Hence, the doctors employed a multispecialty approach, in consultation with an ENT

specialist, a diabetologist and a neuro-ophthalmologist. During her treatment, her blood sugar levels were continuously monitored.

One month later, her vision in the left eye had improved. Her extra-ocular movement and ptosis started

improving and there were no obvious adverse effect of the medication. At 2 months, her vision had improved and her ptosis had reduced significantly.

Mrs Parvathi's story highlights the role of accurate diagnosis and a multidisciplinary approach in the management of such a case. It is also a heartening example of how a good result can be obtained in patients with optic nerve disease who had no perception of light.



Vision Rehabilitation Centres

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

The aim of the Vision Rehabilitation Centres is to empower people with incurable vision impairment to enhance their quality of life and live as independent a life as possible through comprehensive rehabilitation intervention. In the year 2010 alone we were instrumental in bringing a change in the lifestyle of about 9000 visually challenged persons from all age groups and across all segments of the population through our wide range of services. The key components of intervention include psychological support, low vision care – assessment, training and prescription of devices, special skills training such as independent living skills and mobility, assistive software training for using computers, early intervention for children below 5 years of age with developmental problems, guidance and placement services for economic independence, self-help meetings and peer support programs, advocacy and support services.

One of the highlights of the year was the felicitation of two long-term clients Simon Pushbaraj and Vaishnav Mahender, who represented India against England in a One Day International Cricket Series for the Visually Impaired in August 2010, winning the series 3 – 0. Both suffer from irreversible vision impairment but have overcome many obstacles and now hold responsible jobs. Mahender is an executive with GE Money Services, while Simon is a school teacher.

The two annual events, the Integrated Summer Program and the Fun Camp were the highlight of our exclusive services for our child clients. The activities organized in the programs created a platform for them to develop confidence and express themselves for better inclusion in the sighted community.

The inauguration of a sophisticated Digital Audio Library with the generosity of the GE Volunteers – Hyderabad Council on October 29, 2010 is an important milestone. The library (with 3 soundproof recording studios) will help prepare high quality audio index books that can be converted to CDs, tapes, or MP3 files, providing educational opportunities to an estimated 2.4 million children with visual impairment in Andhra Pradesh.

The International Day of Persons with Disabilities was commemorated on December 3, 2010 at the centres. An awareness campaign was organized to promote a better understanding of the rights of persons with disabilities and the need to integrate them in the political, social, economic and cultural fabric of their communities.

Snapshots of the Integrated Summer Program and the Fun Camp



New Experiences at the Summer Camp

"I'm very happy to be here again! Although I have come here for the third time, I feel the excitement of a first-time visitor. I enjoyed myself thoroughly," said Gopal, a visually impaired client at the annual Integrated Summer Camp (May 26-29, 2010). Gopal attended the camp along with his sighted brother. All the children and their parents echoed this enthusiasm.

Several competitions and cultural events were organized to develop the children's interests and talents and provide them an opportunity to enjoy new challenging activities. These included dance, arts and crafts, a fashion show and a quiz. The children especially enjoyed interacting with trained dogs, brought by Pedigree MARS International Pvt Ltd. They were thrilled to touch and feed the gentle dogs!

On another day, there was a lot of excitement in a cookery session as the children learnt to make lemon tea!

A visit to GE Energy gave the children and their parents exposure to various career possibilities available for the visually challenged.

At the concluding program all the participants performed on stage and received gifts, prizes and certificates.

A Day of Fun & Frolic

The annual 'Fun Camp 2010' for children with visual impairment and their siblings was conducted on November 26, 2010 at the water-themed Ocean Park. The large turnout of 275 included visually challenged clients, their sighted siblings and parents. All the children underwent a nutritional health assessment before being given a warm send-off by a large group of LVPEI employees, including Chair Dr Gullapalli N Rao.

At the camp the children eagerly participated in games, competitions and sports, such as memory games, water games, role enactment, etc and received gifts, while the winners and runners-up were also given prizes. Facilitating all the activities were LVPEI's dedicated volunteers – Mr Gopal, Mr Pulla Rao, Mr Praveen, Mr Sheshaiah, Mr Naresh, Ms Nirmala, Mr Siddhartha, Mr Nitheesh, Mr TAN Murthy, Mr Rajeev, Mrs Akhila Ravi and Mr Ravi Krishnamurthy, and Mrs Neena Verghese.



Snapshots of the Integrated Summer Program and the Fun Camp
Watermark on top: The mountain of gifts for the children



Sight Enhancement (Low vision rehabilitation)

Sight Enhancement	New client visits	Follow-up client visits	Total	Low vision devices prescribed
Meera & L B Deshpande Centre, Hyderabad	2444	1492	3936	1692
NTPC Centre, Bhubaneswar	225	33	258	191
Bob Ohlson Centre, Visakhapatnam	566	151	717	689
TOTAL	3235	1676	4911	2572

Rehabilitation of the Blind & Visually Impaired

Rehabilitation Services	Dr PRK Prasad Centre, Hyderabad	NTPC Centre, Bhubaneswar	Visakhapatnam	Total
New client visits	2751	187	900	3838
Follow-up client visits	2952	30	248	3230
TOTAL	5703	217	1148	7068
SERVICE DELIVERY				
Special skills training	1968	120	347	2435
Instruction in use of – Assistive devices (computers) – Low vision devices	1839	21	868	2728
Environmental modification	2152	147	722	3021
Educational guidance	792	50	307	1149
Vocational guidance	317	14	345	676
Supportive guidance	2387	146	176	2709
Referral to other services	157	17	239	413

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

A Sound Connection

“I know Shanthi madam’s voice well, though I hadn’t met her till today,” Bibu Gangadhar’s statement epitomises the life-changing impact audio recordings have on a visually impaired person! Bibu, one of LVPEI’s earliest rehabilitation patients (since 1999) was referring to Ms Shanthi Thirumalai, the first volunteer at the Vision Rehabilitation Centres after its establishment in 1993. Bibu is a shining example of triumph over disability – a brilliant gold medallist student, today he is a senior government employee and a proud father.

Ms Shanthi continues to record audio lessons for our rehabilitation clients. Commenting on the anonymous nature of a volunteer’s work, Ms Shanthi said, “We don’t even know the students who use our recordings!”

The occasion was the inauguration of a sophisticated Digital Audio Library at the Dr PRK Prasad Centre for Rehabilitation of the Blind and Visually Impaired on October 29, 2010. Set up with the support of GE Volunteers – Hyderabad Council, the library has 3 soundproof recording studios and helps prepare high quality audio index books that can be converted to CDs, audio tapes, or MP3 files, offering educational access to an estimated 2.4 million children with visual impairment in Andhra Pradesh.



Bibu meets Mrs Shanthi Thirumalai (right)

Dr PRK Prasad, after whom the centre is named was present on the occasion, as also Mr Mariasundaram Antony, Site and Business Leader, GE Energy, Hyderabad Technology Center. Mr Antony was delighted to offer the gift of knowledge to LVPEI’s clients and said they would continue to be associated with the rehabilitation centres.

The centre has enabled over 92,000 clients to lead a better quality of life, through counselling, early intervention, training in life skills, low-vision care, IT training and educational rehabilitation. Over 10,000 children and youth have accessed the audio books on school and college curriculum, competitive entrance examination material, general knowledge and children’s stories.

LVPEI's All-round Achievers

Simon Pushbaraj and Vaishnav Mahender are long-term clients of LVPEI's Dr PRK Prasad Centre for Rehabilitation of the Blind and Visually Impaired. Their association with the Institute began in the years 1994 and 1991, respectively. Both of them suffer from irreversible vision impairment since childhood. Simon lost his vision at the age of 13 due to retinal detachment and Vaishnav at the age of 9 due to acute dry eyes.

On their first visits to the Centre, the two boys' parents had been counseled and motivated to continue educating their children. They were helped to acquire special skills, taught Braille, and assisted in their academic placement. Their journey with us continued through regular visits for training in orientation and mobility, activities of daily living, and mastering computer assistive software such as JAWS and Kurzweil for independent functioning.

With constant support and encouragement Simon and Mahender grew into self-reliant, confident adults. Simon, 29, teaches English at Pattikonda Government High School in Kurnool district of Andhra Pradesh. Mahender, 24, completed his postgraduation from the Tata Institute of Social Sciences, Mumbai, and is employed as an Executive in GE Money Services, Hyderabad. He got married a couple of months ago.



Mrs Hema Naidu presents a laptop to Vaishnav Mahender



Simon Pushbaraj

Simon and Mahender were not content to conquer the day-to-day challenges; they were motivated to excel in sports too and became avid cricketers. In August 2010, they represented India against England in a One-Day International Cricket Series for the visually challenged. This form of special cricket is based on sound, using rattling balls made of synthetic fiber with small iron balls. Bowling is done at the under arm level and the ball is rolled toward the pitch. India won the series 3 – 0.

Simon and Mahender are role models for other challenged people. To recognize their achievements, the Rotary Club of Hyderabad District 3150 and the Vision Rehabilitation Centres of the Institute organised a felicitation program on March 16, 2011. Simon and Mahender were gifted laptops, through the generosity of an NRI couple Mr Deepak and Mrs Hema Naidu. Visually challenged children amazed the audience with dance performances, ranging from Indian classical to western foot-tapping items. Speaking of his experiences in overcoming his visual handicap, Mahender said that playing cricket had helped him to develop confidence and personality skills and increase his mobility.

'Now She Can Take Care of Herself'



We are very happy that our child Vyshnavi has grown up well after a long journey with LVPEI. When we first approached the hospital's Bob Ohlson Centre for Sight Enhancement & Rehabilitation for the Blind at LVPEI, Visakhapatnam, they were very helpful. They trained our daughter well and there was a lot of improvement. Now she can take care of herself. She is studying in the 7th class in an integrated school and gets good marks, usually first class. In the 6th class she scored 90% and in the 5th class 95%. She is also very good in co-curricular activities; she is learning Carnatic music and can also play a keyboard. With LVPEI's guidance, she can use a computer easily. Using a special software called JAWS, she can surf the internet and do everything a normal person can do on a computer. We are very thankful to the staff of LVPEI for their great support to our child.

The Ramayamma International Eye Bank (RIEB) at LVPEI Hyderabad has set standards of excellence eye banking since its inception in 1989, evolving into an international resource centre and a model eye bank for South East Asia. In 1990, for the first time in India RIEB introduced the Hospital Cornea Retrieval Program (HCRP) for sourcing corneas from deceased patients at hospitals, through trained grief counselling. This effort has eliminated the waiting list for patients requiring donor corneas for transplantation within and outside the Institute. The model has been successfully replicated in several parts of the country.

While cornea harvesting, evaluation, and distribution form the core functions of RIEB, it is also a training centre for various cadres of eye bank professionals within and outside India, and has been active in research too. As an international resource centre, RIEB formulated structured training programs for eye banking professionals for the first time in India in collaboration with SightLife, Seattle, USA. RIEB also set up the cornea preservation Mc Carey Kaufman medium (MK medium) laboratory in 1994, which has been successfully meeting the demands for MK medium across India and some south East Asian countries.

RIEB has also been a resource centre for the Eye Bank Association of India in implementing quality eye banking standards across India. It also initiated a unique concept, community eye banks at our campuses in Bhubaneswar and Visakhapatnam, thus serving 20 million people collaborating with hospitals for HCRP and with Eye Donation Centres for cornea retrieval. This has enabled it to supply over 17,000 transplantable donor corneas to surgeons throughout the country. RIEB's partnership with SightLife USA is a recognition of its status today as a Centre of Excellence.

The first community eye bank of Orissa, drushti daan Eye Bank, was established in July 2007 in the premises of LVPEI Bhubaneswar with support from Eyesight International, Canada and SightLife, USA, synergizing the efforts of drushti daan in public awareness, advocacy and networking with LVPEI's expertise in tissue harvesting, evaluation, preservation and distribution as well as knowledge management and capacity-building. drushti daan, a registered NGO, has been spearheading the eye banking movement in Orissa since March 2002, using state-of-the-art equipment and infrastructure, and ensuring continuous improvement through training to execute all aspects of community eye banking. drushti daan Eye Bank aims to be the state's nodal eye bank with collection centers all over the state and has initiated the Hospital Cornea Retrieval Program in major hospitals of the twin cities of Bhubaneswar-Cuttack.

At LVPEI Visakhapatnam, Mohsin Eye Bank (a community eye bank) has shown tremendous growth over the past couple of years. The total number of corneas collected this year was 497. The growth was 94% compared to the previous year. In recognition Mohsin Eye Bank received a special award from its global partner SightLife.



Corneas Collected – 4108

Campus	Corneas collected			Total
	Motivated	Volunteered	Affiliate centres*	
Ramayamma International Eye Bank, Hyderabad	820	549	1902	3271
*drushti daan Eye Bank, Bhubaneswar	296	44	–	340
*Mohsin Eye Bank, Visakhapatnam	172	155	170	497
TOTAL	1288	748	2072	4108

Campus	Used for training & research	Sent to surgeons outside LVPEI	Sent to other LVPEI campuses
Ramayamma International Eye Bank, Hyderabad	110	388	76
drushti daan Eye Bank, Bhubaneswar	189	150	1
Mohsin Eye Bank, Visakhapatnam	185	118	194

*Community eye banks on our campus

*RIEB affiliate centres at Nidadavolu, Tanuku, Suryapet & Madanapalle and other eye collection centers

National Eye Donation Fortnight

The 25th National Eye Donation Fortnight was observed at LVPEI's Hyderabad and Bhubaneswar campuses from August 25 - September 8, 2010. At Hyderabad, counsellors created awareness at the city's multispecialty hospitals about the Hospital Cornea Retrieval Program (HCRP) for eye donation and an inspired 200 people pledged their eyes.

On September 6, 2010 the eye bank staff made a presentation on eye donation to the 1990 Batch of Police Brothers Meet, where 500 policemen had organized a felicitation program for the Commissioner of Police of Hyderabad, Mr A K Khan.

At a girls' college 120 NCC candidates attended an awareness talk. A live phone-in program was organised to enable viewers to voice their questions. Eye donation messages were shown on local cable channels and as slideshows at several theatres.



The drushti daan eye bank at Bhubaneswar campus organized awareness talks, eye check-up camps, workshops and an interschool painting competition, in which 52 children from 6 schools participated.

Other Awareness Activities

Talks on eye donation for employees of Satyam Venture Engineering Services. January 5, 2011

- Talks to employees of GE business processes as part of CSR initiatives, coordinated by NASSCOM. January 21, 2011
- Talks to employees of South Central Railway telephone exchange. January 26, 2011

Governor Pledges Eyes

On July 2, 2010, Governor of Andhra Pradesh Mr ESL Narasimhan and his wife Mrs Vimala Narasimhan signed eye donation pledges at the Institute. Mr Narasimhan said it was a pity that even educated people did not know much about eye donation. If they knew that it was a very simple



procedure with no disfigurement, they would willingly pledge their eyes to give sight to a visually impaired person.



Initiation of Eye Donation Activity at Partner Hospitals of LVPEI

On January 24 RIEB organised a meeting with the Lions Eye hospitals in Greater Hyderabad for a concerted effort towards eye donation awareness and mobilization of resources for cornea retrieval. Fourteen members from different hospitals attended the meeting. The group discussed strategies for motivating the public and how their respective hospitals could undertake this activity.



SightLife Achievement Award 2010 for all its partners given at the annual meeting held in Jaipur in January 2011

Training Programs in Partnership with SightLife, Seattle, USA

Eye bank management

Ramayamma International Eye Bank (RIEB) hosted the first of an ongoing series of workshops for eye care managers supported by SightLife, USA from April 20-22, 2010. The eight participants represented eye bank organizations that partner with SightLife with a commitment to rapidly grow operations over the next three to five years, each providing 1000-2000 corneas per year for transplantation ultimately. The workshop series aims to disseminate world-wide best practices in eye bank management and eye donation, as well as interactively determine barriers and solutions to facilitate rapid growth.



Eye donation counsellors

In May 2010, RIEB, in partnership with SightLife launched a pilot training program for Eye Donation Counsellors (EDCs). The program included lectures, observation of eye bank operations and cornea recovery. The trainees also participated in interactive sessions with senior EDCs and technicians to evolve effective ways of building support systems in hospitals to facilitate eye donation.

Assessors for eye bank accreditation

In August 2010, a 5-day workshop was conducted jointly by Eye Bank Association of India & SightLife to train assessors in the accreditation procedures of eye banks. RIEB formed the base and underwent a mock inspection to train the assessors in various categories of inspection procedures.

We are Grateful to our Affiliates who Contributed to the Cornea Collection

Akbar Eye Hospital, Anantapur (6); Amar Hospital, Mahabubnagar (2); Badam Balakrishna Eye Bank, Kakinada (56); Chiranjeevi Eye Bank, Hyderabad (11); Dhanvantari Eye Donation Center, Tenali (155); District Blindness Control Society, Nalgonda (2); District Hospital, Janagaon (20); Govt. General Hospital, Guntur (24); District Hospital (Red Cross Eye Bank) (24); District Hospital, Nandyal (8); Jananananda Eye bank, Bhimavaram (16); Kamineni Institute of Medical Sciences, Narketpally (16); Lions Club of Bejjanki, Karimnagar (6); Lions Club of Cherial, Cherial (12); Lions Club of Hanamkonda, Warangal (2); Lions Club of Karimnagar, Karimnagar (292); Lions Club of Kesamudram, Kesamudram (6); Lions Club of Korutla, Korutla (2); Lions Club of Mahabubabad, Mahabubabad (28); Lions Club of Orugallu, Warangal (10); Lions Club of Palakol, Palakol (44); Lions Club of Suryapet Eye Hospital, Suryapet (66); Lions Club of Sircilla, Sircilla (6); Lions Club of Thorur, Thorur (4); Lions Club of Vemulavada, Vemulavada (6); Lions Diamond Club Nizamabad, Nizamabad (2); Lions Eye Hospital, Bodhan (8); Lions Eye Hospital, Nizamabad (2); Mamatha Eye Bank, Khammam (4); M Ramreddy Lions Eye Hospital, Mahabubnagar (2); Modern Eye

Hospital, Nellore (360); Mohsin Eye Bank, Visakhapatnam (27); MVR Eye Center, Tanuku (17); Nayana Eye Care, Nandyal (6); Pavani Eye Hospital, Jagityal (10); Pushpagiri Eye Institute, Secunderabad (27); Rajiv Gandhi Superspecialty Hospital, Raichur (8); Regional Eye Hospital, Warangal (74); Regional Eye Hospital, Kurnool (31); Rotary Club of Vuyyur, Vuyyur (8); Sadasaya Foundation, Godavarikhani (2); Sadhuram Eye Hospital, Hyderabad (27); Shri KVB Reddy IRCS Eye Bank, Kurnool (28); Siloam Eye Hospital, Madanapalle (4); Smt. Gomabai Netralaya, Neemuch (8); Smt. Rajeswari Ramakrishnan Lions Eye Hospital, Nidadavole (295); Sneha Seva Samiti, Proddutur (36); Sreelatha Modern Eye Hospital, Chittoor (4); Sri Y Balarama Murthy Konaseema Eye Bank, Ambajipet (8); Sudarsani Eye Hospital, Guntur (18); Sukhabhogi Seva Samiti, Mancherial (2); Surya Swatchanda Seva Trust, Mahabubabad (6); SVRR Govt. General Hospital, Tirupati (14); The Khammam Eye Bank, Khammam (8); Yanam Eye Bank, Yanam (32)

Total eyes/corneas received from Eye Donation Centres in Andhra Pradesh: 1902

Mc Carey Kaufman Medium for Corneal Preservation

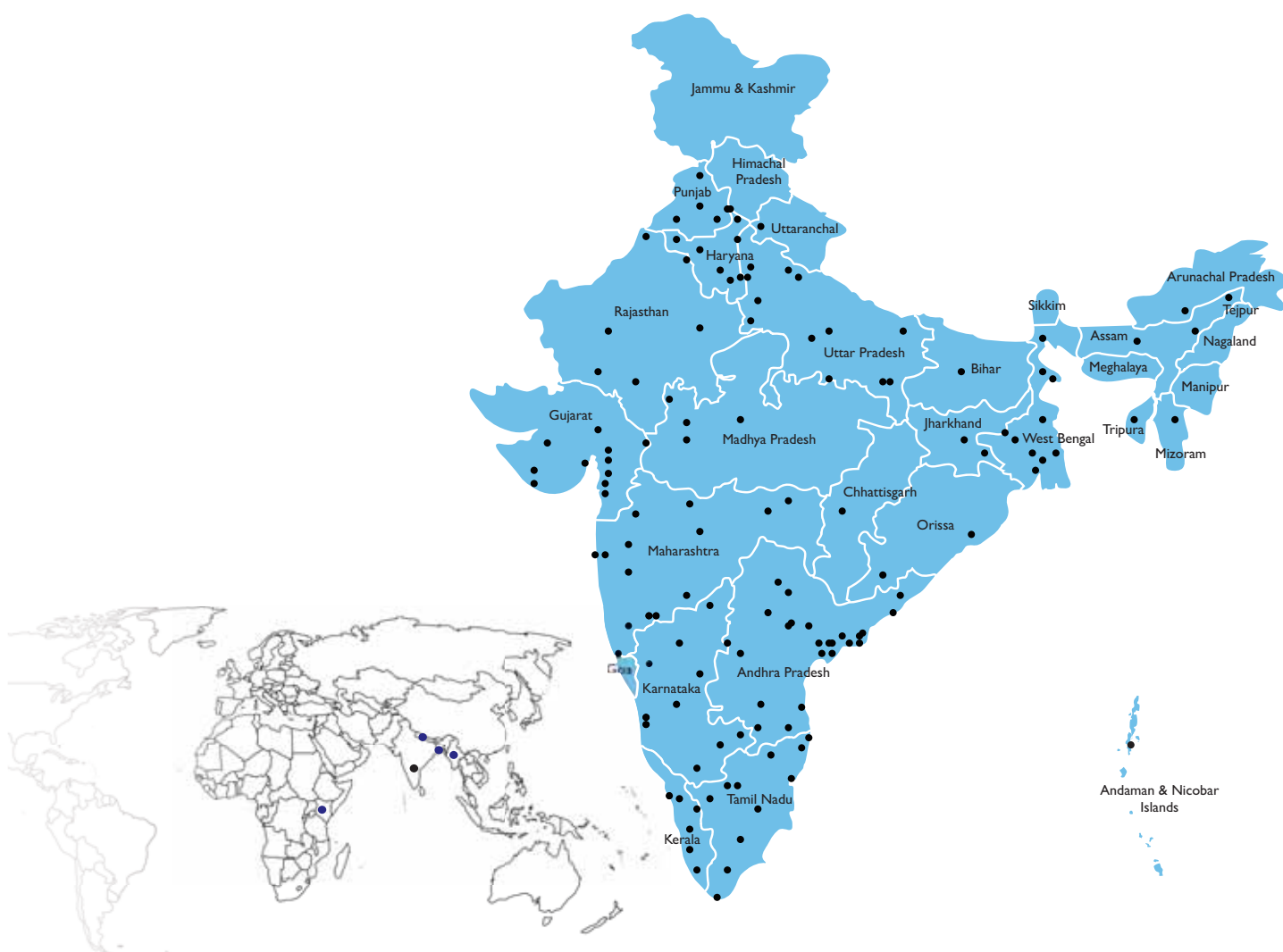
The Ramayamma International Eye Bank, LVPEI, Hyderabad, produced 24,158 vials of the Mc Carey Kaufman (MK) medium during the year. We supplied 23,180 vials of the MK medium to 241 national eye banks and 4 international eye banks.

National

Agartala, Agra, Ahmedabad, Aizawl, Aligarh, Ambala, Anand, Angamally, Asansol, Bagalkot, Bengaluru, Bareilly, Basirhat, Bathinda, Bhavnagar, Bhimavaram, Bhopal, Bhubaneswar, Chandigarh, Chennai, Chitrakoot, Coimbatore, Dinazpur, Dahod, Dehradun, Dibrugarh, Durgapur, Erode, Gannavaram, Gobrapota, Gorakhpur, Gulbarga, Guntur, Gurgaon, Guwahati, Haldia, Hissar, Hospet, Hubli, Hyderabad, Indore, Itanagar, Jaipur, Jalandhar, Jalgaon, Jalna, Jamshedpur, Jhagadia, Jodhpur, Jorhat, Kakinada, Kanpur, Karad, Karimnagar, Karnal, Katwa, Kolar, Kolhapur, Kolkata, Kottayam, Kozhikode, Kurnool, Lucknow, Ludhiana, Madanapalle, Madurai, Manipal, Meerut, Miraj, Mirzapur, Moradabad, Mumbai, Mysore, Nagercoil, Nagpur, Nalgonda, Narayangaon, Narketpally, Nashik, Navasari, Neemuch, Nellore, New Delhi, Nidadavole, Noida, Palakkad, Palakol, Pammal, Panaji, Panvel, Patiala, Patna, Perintalmana, Pondicherry, Port Blair, Proddatur, Pune, Raichur, Raiganj, Raipur, Rajkot, Ranchi, Rattanpura, Repalle, Rohtak, Salem, Sangli, Serampore, Sevagram, Shapur, Shimoga, Siliguri, Sirohi, Sirsa, Sohana, Solapur, Sriganganagar, Surat, Suryapet, Tanuku, Tenali, Thuba, Tirunelveli, Tirupati, Tiruchirapalli, Thiruvananthapuram, Udaipur, Udupi, Ujjain, Vadodara, Varanasi, Vellore, Veraval, Vijayawada, Visakhapatnam, Vizianagaram, Vuyyur, Warangal, Yanam

International

Dhaka, Bangladesh; Yangon, Myanmar; Nairobi, Kenya; Kathmandu, Nepal



International Centre for Advancement of Rural Eye care

ICARE or the International Centre for Advancement of Rural Eye care is the public health division of L V Prasad Eye Institute. LVPEI's strategy for eliminating avoidable blindness is summed up with its motto "Excellence, Equity and Efficiency" and has the following key components: permanent eye care infrastructure in underserved rural remote areas, capacity building (from the community to eye specialists), and training and research (public health, basic and clinical research). ICARE was established in 1998 with the support of CBM, Germany (formerly Christoffel Blindenmission) and Sightsavers, UK, with subsequent support from Operation Eyesight Universal, Canada. The development of the LVPEI Eye Health Pyramidal model was based on scientific evidence found from the Andhra Pradesh Eye Disease Study (APEDS), a landmark epidemiological study conducted by LVPEI in both rural and urban locations from 1996-2000.

The Institute's rural health coverage begins at the grassroots level with village volunteers (known as Vision Health Guardians, serving approximately 5000 people each), who are linked to a primary eye care Vision Centre (approximately 10 Vision Health Guardians linked to a Vision Centre), staffed by a local Vision Technician (trained for a year) and covering a population unit of 50,000. Preliminary eye screening is done at the Vision Centre (VC). Ten VCs are linked to a secondary care Service Centre (each serving about half a million population). These three tiers of service together constitute a Village Vision Complex.

Currently, we have 72 Vision Centres (to be ramped up to 125 by the year 2012), 9 secondary satellite centres (10 by 2012), 9 partner centres linked to 3 tertiary centres (Bhubaneswar, Visakhapatnam and Vijayawada) and a Centre of Excellence at Hyderabad. In the 12 years since its inception, through its network of secondary and primary eye care centres, ICARE has reached 2,204,647 people and performed 198,461 surgeries to eliminate avoidable blindness. Nearly 46-49% of them were women, bridging the gender inequality gap in accessing eye care services.

The highlights of 2010-2011 are the launch of two major epidemiological projects – LVP GLEAMS (L V Prasad Glaucoma Epidemiology Molecular Genomics) study and a ten-year follow-up study of the cohort of APEDS with technical collaboration with the International Centre for Eye Health (ICEH), UK. In operational research, Rapid Assessment of Visual Impairment (RAVI) studies have been conducted in several locations in Andhra Pradesh. Another operational delivery project is empowerment of rural women as Vision Health Guardians (VHG) as vision, diabetes and hypertension educators in the Sight to Resight VHG project. As community eye health care models are undergoing a paradigm shift with a horizontal approach, we initiated the Community Linked Initiative Project (CLIP) to eliminate avoidable blindness in Jainath mandal of Adilabad district with support from Operation Eyesight Universal, Canada.

In the domain of childhood blindness, the Nimmagadda Prasad – LVPEI Children's Eye Health Initiative has reached out to a total of 324,664 children, offering a better quality of life through eye care services. Of these 102,277 children received outpatient and surgical services across the LVPEI network. In addition, 9162 children received surgical treatment during the period free of cost.

Other focus areas of ICARE are the development of human resources with training programs for eye care professionals at all levels, capacity building of institutions through accompaniment programs, research and advocacy. Among the education programs conducted by ICARE are Master's in Community Eye Health, Diploma in Community Eye Health, Postgraduate Diploma in Hospital Management, Certificate course in Program Management & Evaluation, Certificate course in Comprehensive Community Eye Care & Rehabilitation of Visually Impaired, Vision Technicians Course and training of Vision Guardians.



A day-old baby at Ada village

News

12th Anniversary of ICARE

The 12th anniversary of the International Centre for Advancement of Rural Eye care (ICARE) was celebrated on December 17, 2010. A Partners and Satellite Centre Workshop was held to mark the occasion; the theme was “Diabetic Retinopathy — The Emerging Challenge”. Ophthalmologists and administrators from 17 partner and satellites centres attended the workshop.



World Sight Day Commemorated

ICARE commemorated World Sight Day from October 14-21, 2010 with events across its entire network; Dr Padmaja K Rani led the Hyderabad area program. A large rally was organized in Hyderabad city by the Sight for Kids (SFK) Greater Hyderabad team, supported by Johnson & Johnson, Lions Club International Foundation (LCIF) and Lions Eye Hospitals of Greater Hyderabad. The SFK program addresses visual impairment and promotes eye health awareness among schoolchildren between 5 and 9 years of age. The participants included schoolchildren (SFK beneficiaries), Vision Technicians and optometry students of Ranga Reddy Lions Eye Hospital.



A budding Nayana Vanam at Adilabad

The SFK partner eye hospitals conducted community screening programs in slums and other locations, screening several hundred people. Awareness meetings were organized at several places, including schools and colleges, and talks given on the prevention and treatment of avoidable blindness. Free spectacles were distributed to those identified with refractive errors.

A new concept ‘Nayana Vanam’ (Vision Garden) was inaugurated at the secondary care Seshanna Chennawar Eye Centre in Adilabad district. All the vegetables and fruits planted in the garden are beneficial for the eyes. A diabetic screening program was conducted for the high risk population at Ada village.

Kuchukalla Ramachandra Reddy Eye Centre, Thoodukurthy, LVPEI’s second satellite centre at Mahabubnagar district, held a public meeting at Manthati village.



An awareness meeting being conducted in a school

The GMR Varalakshmi Campus, Visakhapatnam organized a community screening program where 110 people were screened, 10 were prescribed spectacles and 20 identified with cataract were referred to LVPEI.

World Diabetes Day

World Diabetes Day was commemorated on November 14, 2010 at Ongole, as part of LVPEI's ongoing program in Prakasam district, supported by the World Diabetes Foundation. The event was inaugurated by Dr Devanand, former Prakasam District Collector. Among those who participated were Collector Mr K Kantilal Dhande, District Medical Health Officer Dr K Sudhakar Babu and Dr Keshav, cardiologist. Team leaders were identified in 80 villages along with accredited social health activists (ASHA).



The World Diabetes Day meeting



An ASHA workers training program

An orientation workshop was organized for the group leaders and ASHA for capacity building so that they can take care of their health to achieve a better quality of life. They were also trained in leading diabetic peer group activities in the villages. A blood glucose monitor and digital blood pressure monitor were provided to each village and ASHA will be trained to do an assessment for the villagers at a nominal charge. This activity will help ASHA to generate some revenue to sustain their interest in the program. Over 250 people attended the program.

World Diabetes Foundation Team Visit

Ms Kristine Dandanell Garn, Coordinator, World Diabetes Foundation, visited Prakasam district from January 8-9, 2011 to assess the progress of the Diabetic Prevention and Capacity Building Program in the district. She saw the ASHA screening program, awareness programs, diabetic identification and enrollment program, Singarayakonda and P Padu Vision Centre, and Karamchedu and Kandukuru Service Centres in the

district. She also visited Primary Health Centres, and met cardiologists and diabetologists trained through the program, seeing first-hand the successful network established by the program. On January 11, 2011, she visited ICARE to appreciate the diverse and extensive work by LVPEI in community health and get acquainted with the projects implemented in underserved rural areas.

Village Vision Complex

Primary Eye Care – Vision Centres

8 Vision Centres Dedicated

This year 8 new Vision Centres (VC) were established and dedicated in the East Godavari, Visakhapatnam, and Khammam districts of Andhra Pradesh. Fully equipped with the requisite infrastructure and trained Vision Technicians, they bring up the total to 72.

One Vision Centre was inaugurated in Ravulapalem village on August 7, 2010 attached to the Paramahansa Yogananda Netralaya in Rajahmundry, East Godavari district. The VC is supported by Fullerton India Credit Company Limited, Mumbai, LVPEI is a technical partner and Paramahansa Yogananda Netralaya the implementing partner. It is expected to serve a population of 76,894 in 11 villages of Ravulapalem mandal.

The first 2 VCs under LVPEI's GMR Varalakshmi campus in Visakhapatnam were inaugurated on December 13, 2010. Located at Chodavaram and Shrungavarapukota, these are the first of 30 VCs to be set up during 2010-2013 — all supported by the Lavelle Fund for the Blind, Inc., USA.

Five VCs attached to the Institute's secondary care Swarna Bharat Eye Centre at Paloncha in Khammam district were inaugurated at Yellandu, Kallur, Manuguru, Ashwapuram and Dammamet between February 28 and March 3, 2011. All the VCs attached to this Service Centre are supported by the Latter-day Saint Charities, USA.

Service Delivery

The services at primary care Vision Centres are offered entirely free of cost. A total of 124,123 people were screened of which 44,363 were prescribed spectacles for refractive errors.

Performance	Screening	Spectacles prescribed*	Spectacles dispensed*	Referred to Service Centre
RURAL (70)				
Bhainsa, Kubeer, Nandipet, Navipet, Kallur, Lokeshwaram & Tannur (Bhosle Gopal Rao Patel Eye Centre, Mudhol)	19,991	8649	7453	3234
Utnoor, Boath, Jainath, Bela, Narnoor, Jainoor, Jannaram, Medarpet, Talamadugu, Gudihathnoor, Echoda & Indervelly (Seshanna Chennawar Eye Centre, Adilabad)	21,405	6706	6224	3757
Wanaparthy, Achampet, Nagarkurnool, Kothakota, Kollapur, Ghanapuram, Bijnapally, Telkapally, Kalwakurthy, Lingala & Amangal (Kuchukulla Ramachandra Reddy Eye Centre, Thoodukurthy)	28,121	9293	6966	6713
Parchuru, Panguluru, Pedanandipadu, Yeddanapudi, Marturu, Ballikuruva, Epurupalem, Chinnaganjam, Naguluppalapadu & Vetapalem (Venkata Lakshmi Eye Centre, Karamchedu)	15,247	6690	4310	3642
Tripurathakam, Yerragondapalem, Dornala, Cumbum, Bestavaripeta, Giddalur, Podili, Darsi, Kurichedu & Chimakurthi (Sudhakar & Sreekanth Ravi Eye Centre, Markapuram)	16,136	5372	3801	3984
Tangutur, Kondapi, Lingasamudram, Chandrasekharapuram, Singarayakonda, Pamuru, Ulavapadu, Medarmet, Santhanuthalapadu & Kothapatnam (Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru)	12,689	3756	2684	2321
Nimmanapalle & B Kothakota (Siloam Eye Centre, Madanapalle)	727	143	42	223
Ravulapalem (Paramahansa Yogananda Netralaya, Rajahmundry, East Godavari) <i>Launched August 7, 2010</i>	1687	469	337	342
Chodavaram & Shringavarapukota (L V Prasad Eye Institute, Visakhapatnam) <i>Launched December 13, 2010</i>	2128	666	332	770
Yellandu, Kallur, Manuguru, Ashwapuram & Dammapet (Nava Bharat Eye Centre, Paloncha, Khammam) <i>Launched February 28, 2011</i>	974	433	238	298
URBAN (2)				
LVPEI-VST Screening Centre, Ramnagar and Vision Screening Centre, Kismatpur	5018	2186	1233	1320
TOTAL	124,123	44,363	33,620	26,604

*Spectacles also sold to patients referred by Service Centres; includes non-prescription spectacles like sunglasses & photochromatic glasses.

Note: The affiliate Service/Tertiary Centres within brackets

The Vision Technicians, who manage the Vision Centres in their new uniforms



The Rural Network



Secondary Eye Care – Satellite and Partner Centres

Anniversaries of Satellite Centres

- The 8th anniversary of Venkata Lakshmi Eye Centre, Karamchedu (3rd satellite) was celebrated on June 7, 2010.
- The 5th anniversary of Seshanna Chennawar Eye Centre, Adilabad (4th satellite) was celebrated on June 9, 2010.
- The Swarna Bharat Eye Centre at Nellore (6th satellite) celebrated its 3rd anniversary on July 1, 2010.
- The Kuchukalla Ramachandra Reddy Eye Centre at Thoodukurthy (2nd satellite) celebrated its 12th anniversary on October 24, 2010. Sri Kuchukalla Rameshwar Reddy (donor), Sri Kotaiah (MPP), Sri Narsimha Reddy (Village Sarpanch), vision guardians, and LVPEI staff Dr Padmaja K Rani, Mr Babu Rao, Mr Yousuf Arafath, Ms E S Manjula, Ms Vanitha Ganesh, Ms Jayanthi Sagar and employees of the centre participated in the program.
- The 14th anniversary of Bhosle Gopal Rao Patel Eye Centre at Mudhol, LVPEI's very first satellite, was celebrated on December 20, 2010. The centre has served a population of 500,000 so far.
- The 3rd anniversary of Sudhakar & Sreekanth Ravi Eye Centre, Markapuram (7th satellite) on January 3, 2011 saw enthusiastic participation by the Markapuram Village Vision Complex team, the local community, press members and leading private medical practitioners. Dr Phanindra spoke about the centre's track record over the past 3 years. Dr Padmaja K Rani spoke about preventive eye health services and LVPEI's goals for its 25th year – 2012.
- The 2nd anniversary of Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, the 8th satellite of LVPEI, was celebrated on February 1, 2011.
- The 4th anniversary of Siloam Eye Centre in Madanapally, Chittoor district (5th satellite) was celebrated on March 11, 2011.
- The 10th anniversary of St Gregorious Balagram Eye Hospital in Yacharam, Ranga Reddy district was celebrated on March 13, 2011.

Service Delivery

During the year 243,650 people were seen at our secondary care centres.

RURAL SATELLITE & PARTNER CENTRES	Outpatient Visits		Surgeries	
	Paying	Non-paying	Paying	Non-paying
SATELLITE CENTRES				
Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad	12,998	6527	1212	1278
Kuchukulla Ramachandra Reddy Eye Centre Thoodukurthy, Mahabubnagar	7811	3784	506	1062
Seshanna Chennawar Eye Centre National Highway Road, Adilabad	7828	5427	417	980
Siloam Eye Centre, Madanapalle, Chittoor	10,670	1840	595	490
Venkata Lakshmi Eye Centre, Karamchedu, Prakasam	4829	4916	219	828
Swarna Bharat Eye Centre, Venkatachalam, Nellore	983	4680	76	547
Sudhakar & Sreekanth Ravi Eye Centre Markapuram, Prakasam	6609	3656	604	833
Sudhakar & Sreekanth Ravi Eye Centre Kandukuru, Prakasam	3284	2881	83	346
*Nava Bharat Eye Centre, Paloncha, Khammam	965	558	23	45
PARTNER CENTRES				
Mullapudi Venkatarayudu Eye Centre Tanuku, West Godavari	12,692	1715	1095	282
Smt. Rajeshwari Ramakrishnan Lions Eye Hospital Nidadavole, West Godavari	15,009	12,169	921	2893
St. Gregorius Balagram Eye Hospital Yacharam, Ranga Reddy	5412	1267	156	380
Lions Club of Suryapet Eye Hospital Suryapet, Nalgonda	2963	5802	265	247
The Rotary Eye Hospital, Proddatur, Kadapa	10,305	3471	1291	1571
Paramahansa Yogananda Netralaya Vemagiri, Rajahmundry	13,285	3451	785	819
URBAN PARTNER CENTRES IN HYDERABAD				
M S Reddy Lions Eye Hospital, Moula Ali	9033	11,743	467	2531
Kishore Chand Chordia Eye Centre, Begum Bazaar	6139	19,874	348	2252
Balanagar Lions Eye Hospital, Balanagar	12,335	6739	580	1347
TOTAL	143,150	100,500	9643	18,731

Total outpatient visits: 243,650 **41% free**
Total surgeries: 28,374 **66% free**

*Inaugurated February 19, 2011



14th anniversary of Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad – the centre's supporter Mr Narayana Patel cuts the cake



Seniormost employee at the Thoodukurthy centre, Mrs D Satyamma cuts the anniversary cake



Mr Ramu, patient care assistant receives the best employee award from Dr Vivek Warkard, Dr Phanindra and Dr Padmaja K Rani

Community Eye Care Service Delivery

Community Surveys	HOUSE	LVPEI satellites	Visakhapatnam campus	Vijayawada campus	Sight to Resight	WDF II	TOTAL
Slums/villages surveyed	-	510	44	1	3	540	1098
Population covered by door to door surveys	-	430,693	38,966	2986	28,658	32,633	533,936
Identified with eye problems & referred for further examination	-	83,295	4018	438	7732	33,633	129,116
Community Screening Programs organized	89	357	22	-	-	-	468
People screened	5176	24,094	2582	-	-	-	31,852
Prescribed spectacles	1451	7133	517	-	-	-	9101
Referred to base hospital	1001	8367	931	-	-	-	10,299

School Screening Programs	#HOUSE	#LVPEI satellites	#Visakhapatnam campus	#Vijayawada campus	Sight to Resight	Sight for Kids	TOTAL
Teachers trained	13	1010	56	1	-	125	1205
Schools covered	13	937	47	1	-	100	1098
Children screened	3657	86,462	16,067	164	-	19,238	125,588
Identified with eye problems	501	6572	420	7	-	1180	8680
Prescribed spectacles	18	1428	455	3	-	83	1987
Anganwadi Screening for children 0-5 years of age							
Programs organized	-	135	-	1	-	2	138
Children screened	-	4207	-	25	-	19	4251
Identified with eye problems	-	226	-	7	-	-	233
Referred to base hospital	-	173	-	7	-	-	180

HOUSE: Hyderabad Outreach Urban Slums Eye-care Program

Satellites: Satellite Centres of LVPEI in Adilabad, Mahabubnagar, Prakasam, Nellore and Chittoor districts

Sight to Resight: Vision Health Guardians training program supported by Resight, USA

Sight for Kids: Primary schoolchildren's program supported by Lions Club International Foundation and Johnson & Johnson Ltd.

WDF II: Capacity building program to address diabetes & diabetic retinopathy

#Children's eye care service delivery – school & anganwadi (creche) screenings supported by Nimmagadda Foundation



A school screening program



A little boy at Adilabad is happy to undergo a check-up on World Sight Day

‘A Meaningful Learning Experience’

Neha Mehta, a dual degree MBA and Masters in Public Health student at the University of California at Berkeley, USA spent 6 weeks interning at LVPEI's International Centre for Advancement of Rural Eye care (ICARE) last summer. Her preceptor was S Sheeladevi, Associate Public Health Specialist. An excerpt from an interview with Neha:

"My internship focused on one of L V Prasad's major community outreach initiatives to address childhood blindness – the Nimmagadda Prasad – LVPEI Children's Eye Health Initiative that aims at preventing childhood blindness so that 'No child in Andhra Pradesh is needlessly blind or visually impaired by the year 2020'. This initiative was launched on July 7, 2007 with 10 years of assured funding from the Nimmagadda Foundation, and provides free primary and secondary eye healthcare, diagnosis and treatment services, including glasses, to children aged 0-15 years.

My internship was structured to offer a well-rounded experience with opportunities for growth



and learning. Rotating between various patient care and administrative departments at the hospital, and the community health projects helped me develop a broad understanding of the Institute's structure, strategy and operations. My project work involved rich, eye-opening visits to rural villages and towns in Andhra Pradesh where I conducted 45 community field interviews to determine stakeholder perceptions, challenges and ways to strengthen this initiative. I also quantitatively assessed the current gap in outreach services for the child population in these geographical areas. I interviewed the Institute's employees across all levels, including key leadership, external advisors and contacts at partner organizations, which allowed me to gain a good understanding of LVP's organizational structure, culture and context within the larger healthcare network.

Given my interest in pediatric public health management, I thoroughly enjoyed my first-hand experience in an Indian rural health setting, as well as the opportunity to develop community health program evaluation and analysis skills. I am extremely grateful to everyone who helped make this a valuable and meaningful learning experience. I look forward to returning to India to work in pediatric community healthcare after completing my MBA and MPH."

Neha Mehta

*Haas School of Business and School of Public Health
University of California at Berkeley, Berkeley, CA, USA*



Schoolchildren at ICARE, Kismatpur clinic for vision screening as part of the Nimmagadda Prasad – LVPEI program

Operations Research at ICARE

Project Title	Investigators	Supported by	Project Update
EPIDEMIOLOGICAL STUDIES			
Andhra Pradesh Eye Disease Study Follow up (APEDS-3) <i>March 2011 to February 2013</i>	LVPEI: Dr Rohit Khanna Dr Padmaja K Rani Dr Giridhar Pyda Mr Srinivas Marmamula Dr Vilas Kovai ICEH: Dr Clare Gilbert Dr GVS Murthy	LVPEI and International Centre for Eye Health (ICEH), London School of Hygiene and Tropical Medicine*,UK	161 patients examined, field interviews completed in 3 villages
LV Prasad Glaucoma Epidemiological and Molecular Genomics Study (LVP GLEAMS) <i>September 2010 to December 2012</i>	Dr G Chandra Sekhar Mr Uday Kumar Mr Ganesh Babu Dr Rohit Khanna Dr Harsha BL Rao Dr Padmaja K Rani	LVPEI	Subjects screened: 612 Glaucoma prevalence till date: 9.3%
Rapid Assessment of Visual Impairment (RAVI) project in Vijayawada, Krishna district <i>December 2010 to January 2011</i>	Mr Srinivas Marmamula	LVPEI	From a total sample of 2650 individuals ≥ 40 years, 2455 individuals were examined (response rate 93%). Preliminary analysis revealed an unadjusted blindness ($<6/60$ in the better eye) prevalence of about 3%.
Rapid Assessment of Visual Impairment (RAVI) project in Paloncha, Khamman district <i>February to March 2011</i>	Mr Srinivas Marmamula	LVPEI	From a total sample of 2650 individuals ≥ 40 years, 2486 individuals were examined (response rate 94%). Further analysis is being done.
DIABETIC RETINOPATHY			
Capacity building program to address diabetes and diabetic retinopathy in Prakasam district <i>(September 2008 to August 2013)</i>	Dr Ajit Babu Majji Ms S Sheeladevi	World Diabetes Foundation, Denmark	Capacity Building Community health workers: 155 Hospital facilities upgraded: 15 Service delivery Diabetic patients registered: 32, 633 Diabetic patients examined at the eye centre: 2611

*Technical support



Top & right: RAVI project in Paloncha, Khammam district

Far right: The Glaucoma Epidemiology and Molecular Genomics Study (GLEAMS) group in Pedanandipadu

CHILDHOOD BLINDNESS			
Nimmagadda Prasad – LVPEI Children’s Eye Health Initiative <i>July 2007 to June 2020</i>	Ms Korani Jyothi Ms S Sheeladevi Mr Jachin D Williams	Nimmagadda Foundation, India	Schools covered: 998 Teachers trained: 1080 Children screened: 106,350 Referred for detailed eye examination: 7500 Outpatients screened: 28,624 Surgeries performed: 2972 Spectacles prescribed & dispensed: 4401 0-5 years children’s screening Screening programs: 136 Anganwadi teachers trained: 136 Anganwadi schoolchildren screened: 4232 Identified with eye problems: 233
Sight for Kids <i>(1 Year – Based on allocation of funds by Johnson & Johnson/Lions Club International Foundation)</i>	Mr Jachin D Williams Ms Korani Jyothi Mr M Veeru	Lions Clubs International Foundation (LCIF), USA	Schools screened: 100 Teachers trained: 125 Children screened: 19,238 Referred for detailed eye examination: 1180 Surgeries performed: 7 Spectacles prescribed & dispensed: 83
EMPOWERING RURAL COMMUNITIES			
Sight to Resight — Vision Health Guardian Project <i>September 2010 to October 2011</i>	Dr Padmaja K Rani Dr Suresh Kuruganti Ms S Sheeladevi Mr Jachin D Williams Mr Anil K Reddy	Resight Funds	Vision Health Guardians trained: 20 Households surveyed: 7523 Vision screening: 28,658 At high risk for diabetes: 453 Known cases of diabetes identified: 265 Hypertension screening: 6826 Hypertension identified: 639 Known hypertension: 580 Eye problems: 7732 Spectacles dispensed: 442 Cataract surgeries done: 46
Community Linkage in Integrating eye care with Primary health (CLIP) Project <i>March 2011 to February 2014</i>	Dr Suresh Kuruganti Dr Padmaja K Rani Mr Daniel Franklin Mr Jachin D Williams Mr Pradeep Kumar	Operation Eyesight Universal (India)	Planning and implementation phase. The aim is to totally eliminate avoidable blindness in Jainath mandal of Adilabad district through community linkages



Teachers of Jubilee Public School undergo training



A village CLIP (Community Linkage in Integrating eye care with Primary health) meeting

Accompaniment Program

International

LVPEI is providing capacity building support to **Islamia Eye Hospital, Dhaka, Bangladesh** and the **University of Nairobi Eye Hospital, Kenya** to develop them as models for their regions. The following activities were undertaken during the year:

- After a needs assessment visit, both centres finalised a plan of action in the areas of infrastructural improvement, human resource development and outreach activities.
- A training calendar based on their requirements was made; ophthalmology faculty and residents from the centres will undergo training in various subspecialties to build and strengthen their subspecialty services.
- Standard operating practices and patient education material developed at LVPEI was shared with Islamia Hospital.
- LVPEI faculty visited the two facilities to assist in the further development of the subspecialty clinics.

The project is supported by the Capacity Building Grant Fund (CBGF) received from the International Agency for the Prevention of Blindness (IAPB).

National

Operation Eyesight Universal

LVPEI continued to assist all the Operation Eyesight Universal (OEU) partner hospitals in India through training and mentoring during the year, with clinical and non-clinical teams making regular developmental visits to the partner centres along with the OE team. This year, the following centres were visited and evaluated:

- Siliguri Greater Lions Eye Hospital, Siliguri, West Bengal
- Indore Eye Hospital, Indore, Madhya Pradesh
- Thakur Sitaram Seva Kendra, Malda, West Bengal
- Little Flower Eye Hospital, Angamaly, Kerala

The achievements for the OEU – LVPEI network for the year are:

Total number of patients examined: 484,068

Total number of surgeries performed: 53,435

Centre for Community Ophthalmology

LVPEI is partnering with Seva Foundation, USA to provide eye care to the blind and visually impaired in underserved areas, with support from the International Agency for the Prevention of Blindness (IAPB). LVPEI (along with 8 other institutes globally) is part of the Centre for Community Ophthalmology (CCO) network, which is Seva's Clinton Global Initiative *So One Million Eyes See Again*, wherein 100 hospitals will perform an additional 1 million surgeries every year by 2015. Existing facilities will be expanded and transformed into efficient self-sustaining centres, while new ones will be developed.

Under this initiative, LVPEI partnered with several eye hospitals to help develop their centres. Initial needs assessment surveys were carried out at the following centres:

1. Bellampally Lions Eye Hospital, Bellampally, Andhra Pradesh
2. Sarat Laser and Eye Centre, Warangal, Andhra Pradesh
3. Chandraprabha Eye Hospital, Jorhat, Assam
4. Tejpur Eye Hospital, Tejpur, Assam
5. C L Gupta Eye Institute, Moradabad, Uttar Pradesh

Rotary Mahanagar Netralaya, Kolkata

In technical collaboration with LVPEI, an advanced secondary level eye care facility launched its services at Beliaghata in Kolkata, West Bengal from February 22, 2011. The new facility is committed to providing excellent and equitable eye care services to all irrespective of their socioeconomic status as per the LVPEI model. LVPEI assisted the centre in infrastructural development, training of clinical and non-clinical teams, and implementation of standard operating procedures.

Seeing is Believing

As part of its 'Seeing is Believing' project, Standard Chartered Bank and LVPEI set up 40 Vision Centres over a period of 3 years. An evaluation of the Vision Centres of Venu Eye Institute was conducted in November 2010. The Phase III workshop was conducted by Standard Chartered Bank (SCB), UK in Kuala Lumpur, Malaysia from January 10-11, 2011 to review the collective achievements of various projects (including issues of sustainability) supported by SCB under the Seeing is Believing project. Kovai Vilas presented the evaluation results of the 40 Vision Centres program, implemented under the project in Delhi, Uttar Pradesh, Madhya Pradesh, Tamil Nadu of India during 2008 – 2010.

Other Activities

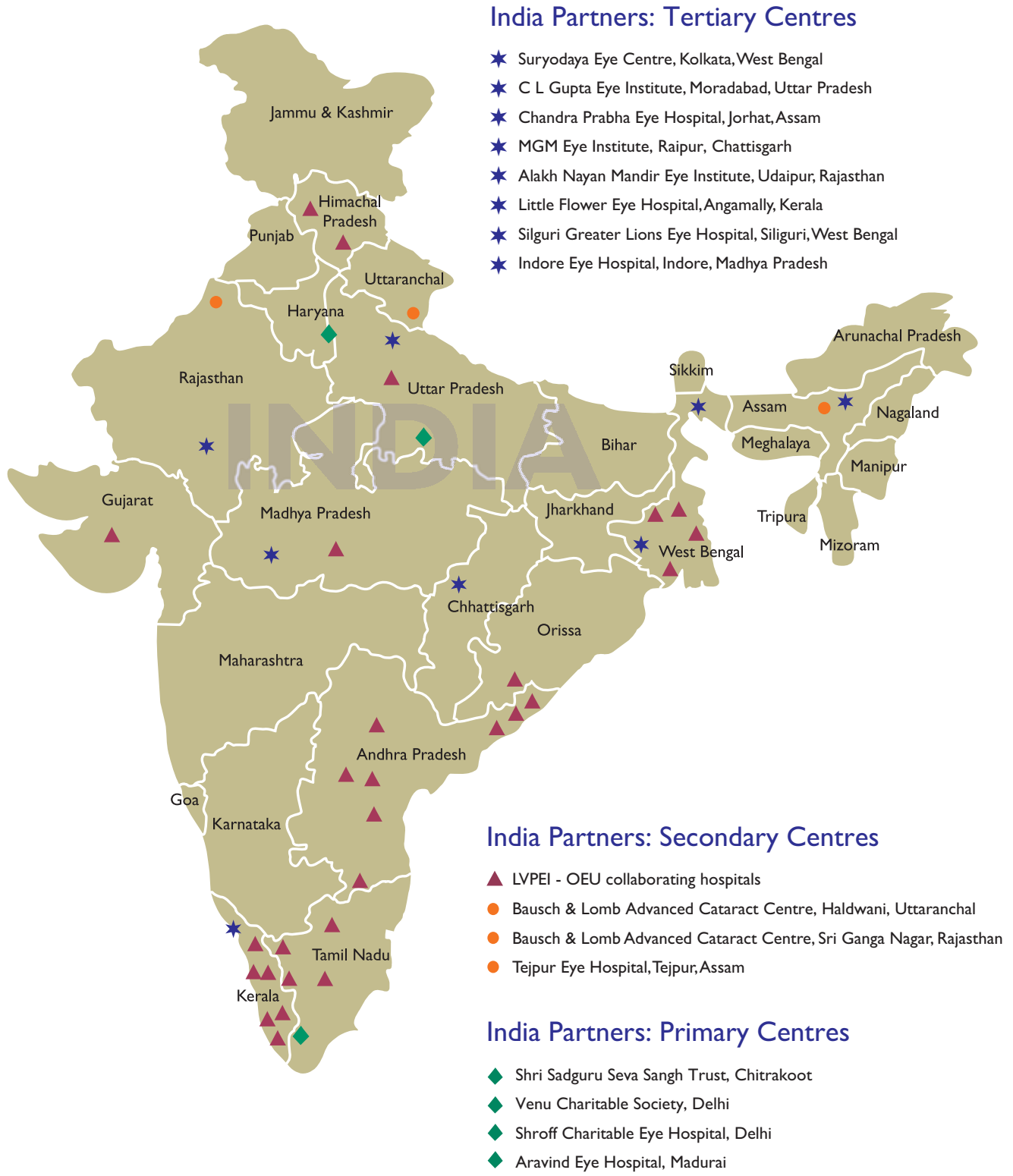
Situational analysis for the development of a comprehensive eye care facility was carried out in the following regions:

- The north eastern states of India — Sikkim and Assam
- Eastern Uttar Pradesh
- Uttarakhand

Needs assessment visits were done for the following centres:

- Lions tertiary eye care facility at Kolkata
- Lions tertiary eye care facility at Bangalore
- Rotary Eye Hospital, Udhampur, Jammu & Kashmir
- Velmegna Good News Society, Bidar, Karnataka
- Pushpak Health Care Services, Navi Mumbai, Maharashtra

National Collaborating Centres



While the year 2009 – 2010 saw many new beginnings for the Education Centre, 2010 – 2011 was no exception. The year began with the celebration of the 10th anniversary of our Bausch & Lomb School of Optometry, which was marked by presentations by renowned international faculty and many unique activities with students from all over the country visiting. This year also saw us consolidating our international relationships through Clinical Rotations of residents from countries as far off as USA and Africa and some eminent guest lectures – both as part of Global Leaders' Lecture Series and as key speakers at conferences and symposia.

A significant milestone was the launch of webcasting of all our morning classes as well as CMEs, thereby giving an opportunity to our alumni and other ophthalmologists to benefit from LVPEI's education programs in the virtual world.

The Education Centre this year trained 210 ophthalmologists and 681 other eye care professionals, while 1460 delegates participated in our CMEs.

As we step into the new decade we aim to extend subspecialty fellowship programs to Bhubaneswar and Visakhapatnam campuses and also strengthen other training programs. We will be revisiting the curriculum of the long-term and short-term fellowship programs and also assess the need for new short-term hands-on training courses.

The coming year will mark the Silver Jubilee of the Institute and many landmark CME programs are planned.



News from Bausch & Lomb School of Optometry

The School Celebrates its 10th Anniversary

The 10th anniversary celebrations and convocation of LVPEI's Bausch & Lomb School of Optometry (BLSO) were marked by excitement and the fervor of competitions, cultural events, exhibitions and talks. The three-day event (September 3-5, 2010) began with an exhibition by optometry students with themes such as low vision navigation, visual illusions, eye dissections, nutrition, eye health education and contact lenses and spectacles. International guests, faculty and fellows, visiting optometry students, schoolchildren and their parents visited the models and exhibits. Songs, dances, skits and an alumni get-together brightened the occasion.



Students check out each other's exhibits

An essay competition was held in 22 Hyderabad schools, with 416 children writing on "Eye and eye care". Winners and runners-up were chosen from each school to receive prizes. Prizes were also given to the winners and runners-up of the exhibits and quiz competitions.

An inter-collegiate quiz competition was held, judged by senior BLSO faculty Dr Shrikant Bharadwaj and Dr Vijaya K Gothwal. The Elite School of Optometry beat the Bausch and Lomb School of Optometry in a nail-biting tie-breaker. The other four participating optometry schools were Lotus College of Optometry (Mumbai),

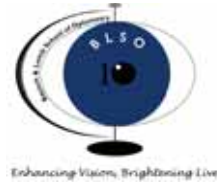


Prof Jill Keeffe presents a certificate to a student

A 'live' exhibit – first-hand experience of how visually impaired persons navigate



Manipal College of Allied Health Sciences (Manipal), Martin Luther Christian University (Shillong) and Bharathi Vidyapeeth School of Optometry (Pune).



The prize for designing the 10th anniversary logo was won by faculty Sangeetha Srinivasan, while alumnus Vinay Swaroop Balla walked away with the best tagline award.

International Symposium on Optometry

To coincide with the celebrations, on September 5, 2010, a seminar was held with distinguished names from the world of optometry delivering insightful talks. They included Prof Earl Smith III, Dean of the University of Houston College of Optometry, Texas, USA; Prof Desmond Fonn, Director of Centre for Contact Lens Research & Professor at the School of Optometry, University of Waterloo, Ontario, Canada; Prof Fiona Stapleton, Head of the School of Optometry and Vision Science at University of New South Wales, Australia; Prof Jill Keeffe, Head of the Population Health Unit, Centre for Eye Research Australia, University of Melbourne, Australia; and Dr G V S Murthy, Director of the South Asia Centre for Vision and Disability, Hyderabad.

The seminar provided an opportunity for young optometry students to interact with an international faculty and receive career guidance, particularly on postgraduate study opportunities abroad. Our faculty also had a brain-storming session with the guests on enhancing the quality of education at BLSO.

Later, at a press conference Prof Earl Smith III said that he was, in collaboration with the Brien Holden Vision Institute, developing "anti-myopia" glasses and contact lenses meant to arrest myopia. Dr Gullapalli N Rao, Chair, LVPEI stated that the institute was researching a new way of treating cataract. He pointed out that of the 75,000 cataract surgeries performed at LVPEI till date, 70% were done totally free of cost.



The graduating class with the faculty

Convocation for Bachelor of Science in Optometry Program

At the convocation for the 2006-2010 batch, 22 students who completed the Bachelor of Science program at BLSO [affiliated to the Birla Institute of Technology and Science (BITS), Pilani] received their degrees, to hearty applause from their proud parents and family. Prof B N Jain, Vice Chancellor, BITS, Pilani delivered the convocation address.

Ritika Kataria received the Outstanding Student award. Eight students passed with distinction, 12 with first division and 2 with second division. This was the 7th batch of students graduating from BLSO.

BSc Optometry New Batch

The Birla Institute of Technology and Science (BITS), Pilani had shortlisted 30 candidates for the Bachelor of Science in optometry at BLSO. After final selections 20 students were admitted into this year's program.

Scholarships 2010 – 2011

At the beginning of each academic year five students of each batch who had excelled the previous year receive a scholarship and a certificate. LVPEI has received a grant from **Optometry Giving Sight** for optometry education. Prof P K Sai Prakash, Principal, BLSO presented the certificates to the following students on Tradition Day (October 30, 2010).

Batch 2007 (Third year): Mr Labishetty Vivek, Ms Vaishnavi Raghuram, Ms Afreen Fathima, Mr Baggam Vijaya Preethi, Ms Kamalpreet Dhaliwal

Batch 2008 (Second year): Mr Deniye Gedara Sudeera Kelum Tissa Kumara, Mr Bandela Praveen Kumar, Ms Peguda Rajini, Ms Sunaina Mary Alex, Ms Malavita Mohottalalage Menaka Samanmali Malavita

Batch 2009 (First year): Ms Mekountchou Koumbo Ingrid Ornella, Ms Tran Minh Anh, Ms John Michael, Ms Mantena Reshitha, Ms Pratyusha R

Based on the Intermediate marks, the top five students to qualify for scholarships from the current batch are: Ms Yaramalla Vasavi, Mr Varadarajula Vidhaey Bhatt, Ms Marella Bhagyalakshmi, Mr Haresh Sandhugari and Mr Asadi Stevenson.



Prof Desmond Fonn, Director, CCLRU, University of Waterloo presents the Outstanding Student award to Ritika Kataria



Prof Sai Prakash, Principal, BLSO



Prof Fiona Stapleton, Head, SOVS, University of New South Wales presents the certificate to a student

Indian Eye Research Group Meeting

The 18th annual **Indian Eye Research Group (IERG)** meeting was jointly organized by LVPEI and the Centre for Cellular and Molecular Biology from July 31 – August 1, 2010, with 200 delegates participating. Three distinguished founder members of IERG, Dr P Namperumalsamy, Chairman, Aravind Eye Hospital; Dr S S Badrinath, Chairman Emeritus, Sankara Netralaya; and Dr Gullapalli N Rao, Chair, LVPEI were felicitated for their seminal contributions to eye care and eye research. The Bireswar Chakrabarti Oration Lecture was delivered by Dr Donita Garland from Scheie Eye Institute, University of Pennsylvania, USA. This year, all the four awards for best presentation were bagged by LVPEI – Kovai Vilas (Public Health) and Sandhya Subramanian (Clinical Research) won Best Paper awards, while Subhash Gaddipati (Basic Sciences) and Aravind Roy (Clinical Research) won Best Poster awards.

Prof D Balasubramanian, Director of Research, LVPEI announced the launch of an IERG-India ARVO chapter. The creation of a proposed Prof D Balasubramanian Oration award at future meetings was also announced.



Dr S S Badrinath interacts with the delegates



Dr Inderjeet Kaur with Dr Donita Garland



The IERG delegates and faculty

Continuing Education Programs

Kallam Anji Reddy Campus, Hyderabad

The Vision Rehabilitation Centres conducted the 23rd **Low vision Awareness Program (LAP)** from April 16-18, 2010. This is a very popular orientation program that offers a broad overview of low vision care and rehabilitation of the visually impaired. Delegates learn how to take care of patients with low vision, while providing them simple and easy-to-use low vision devices at their hospitals and clinics. The 45 participants included trainees and students of optometry, practicing ophthalmologists and optometrists and LVPEI students and residents.



The Low vision Awareness Program delegates

The 24th **Low vision Awareness Program (LAP)**, organized from September 27-28, 2010 was an interactive program, with lectures on identification of low vision, low vision devices, ocular conditions leading to visual impairment, integrating low vision in practice, education of the visually impaired, early intervention and supportive services. Teamwork on unique case discussions about specific eye conditions and hands-on exposure to low vision devices were some of the highlights. A total of 45 delegates participated.

The 44th **Indian Contact Lens Education Program** (ICLEP) basic course was conducted from September 6-9, 2010. Supported by Bausch & Lomb, the program featured lectures and wet lab sessions to train the 70 participating ophthalmologists and optometrists in the fitting of soft and Rigid Gas Permeable contact lenses. Three wet lab sessions were held with hands-on training and live video demonstrations.



Dr Gullapalli N Rao presents the Golden Apple Award to Dr P Namperumalsamy

The hugely popular **Eye-PEP (Postgraduate Education Program)** was held from September 21 to 26, 2010. In its third year now, Eye-PEP was attended by 210 postgraduate students from all over the country, while more than 500 viewers watched the live webcast live. The sessions ranged from basic eye examination techniques to subspecialty talks, focusing on ophthalmology and career orientation. The delegates enjoyed a host of stellar presentations from the guest speakers and the LVPEI faculty and had stimulating interactions. There were competitions that included postgraduate lectures, OSCE and postgraduate grand rounds with exciting prizes. The Eye-PEP Icon award was presented to Dr P Namperumalsamy, Chair, Aravind Eye Care System, who received the Golden Apple from Dr Gullapalli N Rao. The coveted Polished Apple for the most loved teacher was won by Dr Niranjan Pehere.

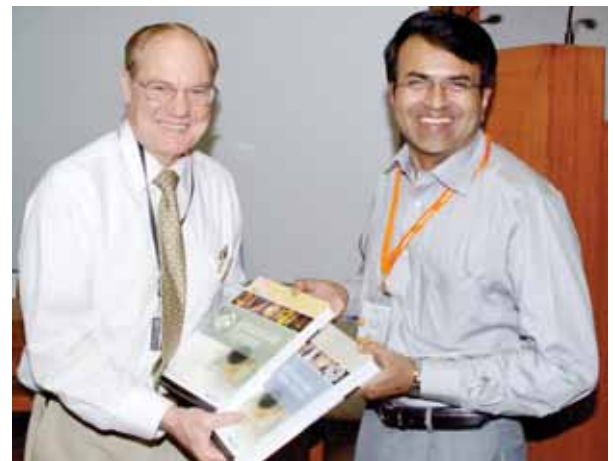


'Polished Apple' Dr Niranjan Pehere with Dr Javed Ali

Several LVPEI residents won awards at Eye-PEP:

- Maneck Nicholson – Best Postgraduate Lecture
- Ratnesh Sharma – 2nd Prize in Postgraduate Grand Rounds
- Siddharth Dikshit – 2nd Prize in OSCE (Objective Structured Clinical Exam)
- Rajyalakshmi R – 3rd Prize in OSCE

An **Ocular Oncology Course** was conducted by Dr Jerry Shields from December 4-5, 2010. A world-authority on ocular oncology, Dr Shields is Director of the Ocular Oncology Service at Wills Eye Institute and Professor of Ophthalmology at the Thomas Jefferson University in Philadelphia, USA. The course provided a comprehensive and systematic review of the tumors of the eyelid, ocular surface, uvea, retina and orbit. The content level ranged from basic to advanced and included pictorial demonstrations of diagnostic clinical features, and discussions on differential diagnosis, relevant investigations, management, follow-up protocol and prognosis. A case-based and interactive teaching format provided an optimal and friendly learning environment. Dr Shields interacted with the audience, fellows and residents and inspired both the young and the experienced alike. The course was attended by over 200 delegates. It was webcast live and watched around the world.



Dr Jerry Shields with Dr Santosh G Honavar

The 45th **Indian Contact Lens Education Program** (Basic and Advanced Courses) was conducted from December 9-13, 2010, with 66 delegates in the basic course and 68 in the advanced course. For the first time the program included live demonstrations on the fitting of multifocal, soft and rigid gas permeable (RGP) contact lenses.



Dr Varsha Rathi, Organising Secretary, ICLEP



Glaucoma Update, a full-day CME program was held on March 6, 2011 wherein 100 ophthalmologists and postgraduates from three centers of LVPEI – Hyderabad, Visakhapatnam and Bhubaneswar participated through videoconference. Conceptualized for postgraduates, practitioners of general ophthalmology and glaucoma specialists, the program covered the basic concepts, current status and recent advances in glaucoma in a mix of didactic and interactive sessions.



The Institute's Face Clinic conducted **Synapse 2011: A Multispecialty Update on Facial Aesthetic Surgery and Medicine** on March 13, 2011. The first ever meeting dedicated only to facial cosmetic surgery, Synapse 2011 was attended by dermatologists, maxillo-facial surgeons, oculoplastic surgeons and general plastic surgeons. In addition to talks by experts, there were live demonstrations of facial cosmetic procedures, skin lasers, a cadaver dissection course, and an Orthomax fracture plating workshop. Over 200 delegates and over 300 online viewers participated in the program. The Face Clinic caters to all aesthetic and reconstructive needs of the human face.



The Association of Parents of Childhood Glaucoma, an initiative of Dr Anil K Mandal (inset), held its 16th meeting on November 15, 2010. While parents shared their experiences, some of the children gave spontaneous song and dance performances.



Bhubaneswar Campus

The Institute's Bhubaneswar campus celebrated its 4th anniversary by conducting a CME program on **Neonatal Ophthalmology** on July 3, 2010. Prof Lingam Gopal from Sankara Nethralaya, Chennai was the resource faculty; LVPEI faculty from Hyderabad, Visakhapatnam and Bhubaneswar campus also delivered lectures. A total of 28 delegates attended the event, which was videoconferenced live to the two campuses with lively interaction among the participants.



Prof Lingam Gopal



Prof Brien A Holden

To commemorate the institute's 5th Foundation Day on January 15-16, 2011 a CME **EYE 2011 – Contemporary Practice in Ophthalmology** was organized, with 11 internationally acclaimed faculty from six countries contributing to the academic deliberations. Over 175 national and international ophthalmologists participated in the program. The highlight was a 3-D presentation of teaching slides – the first of its kind in Orissa.



Delegates at the seminar

GMR Varalakshmi Campus, Visakhapatnam

The Bug Stops Here, a seminar on corneal infections and inflammations was conducted from November 20-21, 2010. The program included case discussions and didactic lectures and was attended by 110 delegates.

lab. Professor Harry W Flynn, Jr, from the University of Miami, USA delivered a global guest lecture on "Endophthalmitis," through live videoconferencing from Bascom Palmer Eye Institute, Miami, FL, USA. The program was attended by 65 delegates.

A CME program **Concepts and Controversies – Cataract & Refractive Surgery** was conducted from February 26 – 27, 2011. The highlights were a live surgical demonstration and a phacoemulsification wet

A **Glaucoma Update** was conducted on March 6, 2011, as part of World Glaucoma Week celebrations, with 18 delegates attending the seminar.



Dr M Srinivasan, Medical Director, Aravind Eye Hospital, Chief Faculty for "The Bug Stops Here"



Dr Merle Fernandes speaks at "Concepts & Controversies" CME



Dr PVKS Varma at the Glaucoma Update

Other News

Graduation Day 2010

The Graduation Day of the 2nd batch of 7 Masters in Community Eye Health (MCEH) students and the 10th batch of 10 Diploma in Community Eye Health (DCEH) students was held on December 17, 2010 at LVPEI's Kallam Anji Reddy campus, Hyderabad. Dr Rajesh Noah, Executive Director, VISION 2020 India and others attended the ceremony. The course convenors were Mr M Srinivas and Dr Rohit Khanna.



Masters in Community Eye Health

Diploma in Eye Health Management

The Convocation Ceremony for the 2009 batch and the Commencement Ceremony for the 2010 batch of the Diploma in Eye Health Management (DEHM) students was held on July 30, 2010. Eight students graduated, while 7 new students have joined the program.



Diploma in Community Eye Health graduates

Program Management and Evaluation Course

The second batch of Program Management and Evaluation course was completed on December 18, 2010. This year 9 participants enrolled for the course, 3 were international (2 Nepal, 1 Bangladesh) and the rest were from different parts of India, representing various eye institutions. The two-week program is intended to train managers in the area of eye care to effectively manage programs so as to achieve the goal of VISION 2020: The Right to Sight program. The course convenors for the program were Ms Sethu Sheeladevi and Dr Harish Kumar.



The second batch of managers of the PME course

Residency Program Directors Course

The International Council of Ophthalmology conducts courses for Residency Program Directors in different countries to act as a change agent to improve the quality of residency training in ophthalmology. The first such course in India was held at L V Prasad Eye Institute, Hyderabad from October 4-5, 2010. The faculty included: Dr Karl Golnik, USA, Chair, Dr Santosh G Honavar, India, Co-chair, Dr Andrew Lee, USA, Dr Ashok Grover, India, Dr Eduardo Mayorga, Argentina, Dr Gabriella Palis, Argentina, Dr Rajvardhan Azad, India and Dr Venkatesh Prajna, India. Program directors from 60 postgraduate programs in India participated in the course.



Several of LVPEI's senior faculty have been appointed Visiting Adjunct Professors, Clinical Assistant Professors and Clinical Instructors

UNIVERSITY OF ROCHESTER
ROCHESTER, USA

Adjunct Professors

Taraprasad Das
Prashant Garg
Santosh G Honavar
Subhadra Jalali
Ajit Babu Majji
Annie Mathai
Gullapalli N Rao
G Chandra Sekhar

Adjunct Associate Professors

Rohit Khanna
Anil K Mandal
Milind Naik
Raja Narayanan
Padmaja K Rani
Virender S Sangwan
Pravin V Krishna

CASE WESTERN RESERVE UNIVERSITY
CLEVELAND, OHIO, USA

Clinical Instructors

Annie Mathai
Milind Naik
Somasheila Murthy
Rohit Khanna
Sirisha Senthil
Harsha BL Rao
R Muralidhar

Clinical Assistant Professors

Raja Narayanan
Rajeev Reddy Pappuru
Varsha Rathi
Mukesh Taneja

News in Brief

- Our collaboration with the University of Nairobi began with Dr Muchai Gachago and Dr Funjika coming to LVPEI for their clinical rotation.
- For the very first time we webcast the grand rounds of Cole Eye Institute of Cleveland Clinic as part of our advanced tele-education program. November 29, 2010
- LVPEI had the distinction of conducting the DNB practical final exams this year – a recognition from the National Board of Examinations.
- The annual meeting of the University of Rochester was telecast for the first time from March 18-19, 2011, with renowned speakers from across the globe delivering talks on various topics in ophthalmology.

Relearning the Basics!

Derek Tole, FRCOphth came for a 2-month stint at LVPEI. An accomplished surgeon at Bristol Eye Hospital, UK, he came for a short-term training program to hone his skills in manual small incision cataract surgery (MSICS) as, he points out, many ophthalmologists today are "machine dependent", with phacoemulsification being the preferred procedure. "It was a steep learning curve," he smiles!

Derek will be part of a hospital team headed to Mbarara in Uganda to train doctors in MSICS. Phacoemulsification, being an expensive procedure, calls for a large investment coupled with a high cost of disposables and is not suited to



Dr Derek Tole examines a patient at LVPEI, Hyderabad campus

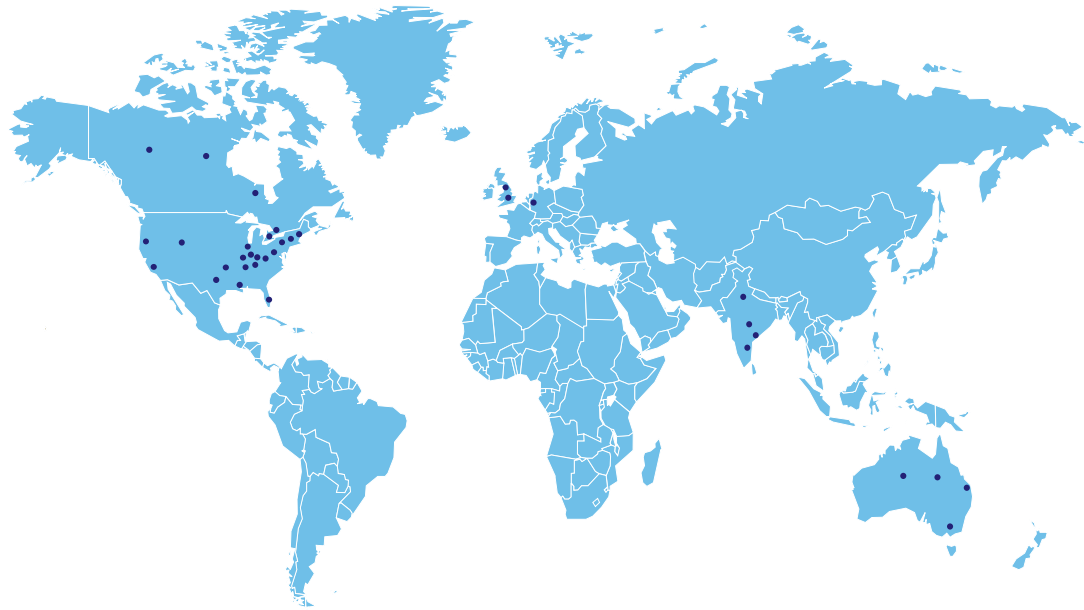
the country at this stage of their economic development. The training is part of an exchange program between the University Hospital Bristol and other UK hospitals on the one hand and units in Uganda, Kenya and Tanzania on the other, under the aegis of the International Centre for Eye Health, UK and VISION 2020: The Right to Sight.

"What strikes you here is the high number of infections, penetrating injuries, chemical injuries, trauma...the etiology of the infections is completely different from that in the UK." Often delays on the part of agricultural labourers in seeking treatment for trauma and injuries, compounded by dependence on alternate remedies, leads to a higher number of fungal infections, thus pushing up the number of corneal transplants required. He admitted ruefully that the six-and-a-half-day work week "was a bit of a shock to the system! At home our day starts at 8, not 7!"

Derek is Medical Director of Bristol Eye Bank and spent his second month in the stem cell and microbiology laboratories at LVPEI and the Eye Bank. "I'm impressed," he said, "this is probably the biggest eye bank in the world, processing over 1500 corneas annually, with over 1200 transplants being carried out at LVPEI – the largest by a single organisation."

For LVPEI too Derek's training has been very satisfying – the skill transfer will help extend much needed eye care to African nations, such as Uganda, Kenya and Tanzania.

Guest Lectures



The wide network LVPEI has established with institutions and organisations worldwide enables it to draw on an international resource base of senior consultants and experts in every field of eye care.

Global Leaders: Lecture Series

In keeping with our effort to engage with learning and knowledge sharing on a global platform, and make opportunities for such engagements available to all those who are part of LVPEI, the Education Centre initiated the Global Leaders Lecture Series last year. The series brings the best minds in ophthalmology and vision sciences in interaction with the faculty, fellows and trainees at LVPEI's three campuses (Hyderabad, Bhubaneswar and Visakhapatnam) through real-time videoconferencing. During the past year, we have been privileged to listen to lectures from, and hold discussions with 8 eminent researchers and practitioners from across three continents.

Prof William H Swanson, Professor of Optometry, Indiana University School of Optometry, Bloomington, Indiana, USA, delivered a lecture on '*Perimetry for the 21st century: how we got here and where we are headed*'. April 1, 2010

Dr Claude F Burgoyne, Senior Scientist and Research Director, Optic Nerve Head Research Laboratory, Devers Eye Institute, Portland, Oregon, USA delivered a lecture on '*Optic nerve head biomechanics – clinicians and engineers in collaboration at Devers Eye Institute and around the world*'. May 25, 2010

Prof Frank Martin, Clinical Professor, Department of Pediatrics and Ophthalmology, University of Sydney, Australia spoke on '*Strabismus Syndromes*'. July 8, 2010

Dr Francis S Mah from the University of Pittsburgh Medical School, Pittsburgh, PA, USA delivered a talk on '*Adeno, HSV and VZV external ocular disease: State of the art management 2011*'. December 18, 2010

Dr Rosalind A Stevens, Professor of Ophthalmology, Dartmouth Hitchcock Medical School, Center, Lebanon, New Hampshire, USA delivered a lecture on '*Retinopathy of prematurity*'. January 5, 2011

Dr Cynthia J Roberts, Martha G and Milton Staub Chair for Research in Ophthalmology, Professor of Ophthalmology and Biomedical Engineering, The Ohio State University, Columbus, Ohio, USA delivered a talk on '*Clinical corneal biomechanics*'. February 10, 2011

Dr Harry W Flynn, Jr, Professor & The J Donald M Gass Distinguished Chair in Ophthalmology, Bascom Palmer Eye Institute, University of Miami, Miami, FL, USA delivered a talk on '*Endophthalmitis*'. February 26, 2011

Dr Jonathan H Lass, Chair, Department of Ophthalmology and Visual Sciences, Case Western Reserve University, Cleveland, Ohio, USA spoke on '*Endothelial survival: Are we giving up the future*'. March 4, 2011



Guest Lectures

'Diagnostic and therapeutic challenges in uveitis' by **Dr Jyotirmay Biswas**, Head, Department of Ocular Pathology & Uveitis, Sankara Nethralaya Medical Research Foundation, Chennai. May 11, 2010

'Mental health issues in today's world' by **Dr Diana Montieroer**, counseling psychologist, Hyderabad. May 12, 2010

'Decolonising the Indian mind: Culture holds the key' by **Prof Sachidananda Mohanty**, Professor of English, University of Hyderabad, Hyderabad. June 9, 2010

"Retinoblastoma" by **Dr Lingam Gopal**, Director of Research, Sankara Nethralaya, Chennai. June 29, 2010



'Rose K lens' by **Dr Paul Rose**, designer of the Rose K contact lens, from Hamilton, New Zealand. August 11, 2010

Dr Paul Rose at LVPEI

'The case for peripheral treatment strategies for myopia' by **Prof Earl L Smith III**, Greeman Petty Professor and Dean, College of Optometry, University of Houston, Texas, USA. September 6, 2010



Prof Earl L Smith III speaks to a student at the BLSO 10th anniversary exhibition

'Tissue engineering for skin and corneal epithelial cells' by **Prof Sheila McNeil**, Professor of Tissue Engineering, Department of Materials Science and Engineering, The Kroto Research Institute, University of Sheffield, UK. September 22, 2010

"What have we learned about eye disease from the Los Angeles Latino Eye Study" by **Dr Rohit Varma**, Professor of Ophthalmology, Doheny Eye Institute, Los Angeles, California, USA. September 30, 2010

"Wait, wait don't tell me: Recognizing the distinctive sign in neuro-op" by **Dr Andrew G Lee**, Chair, Department of Ophthalmology, The Methodist Hospital in Houston, Texas. October 5, 2010

'Introduction to using "Articulate Suite" to transform passive PowerPoint lectures into web-based rich interactive activities: A tool every teacher can use' by **Dr Eduardo Mayorga**, Head, Eye Department, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina. October 6, 2010

'Concept map in education' by **Dr Ana Gabriella Palis**, Residency Program Coordinator, Department of Ophthalmology, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina. October 6, 2010

'Exudative retinal detachment' by **Dr Anita Agarwal**, Consultant, Vanderbilt Eye Institute, Nashville, USA. October 27, 2010

'Pertinent pupillary problems' by **Dr Karl C Golnik**, Neuro-ophthalmologist, Cincinnati Eye Institute, USA. November 10, 2010

'Refractive and corneal changes with overnight orthokeratology' by **Dr Sarita Soni**, Professor of Optometry and Vice Provost for Research, Indiana University, Bloomington, USA. December 9, 2010

'Science technology and society interface' by **Dr Wiebe E Bijker**, Professor of Technology & Society Interface, University of Maastricht, Netherlands. January 12, 2011

'One retinoblastoma world' by **Prof Brenda L Gallie**, Professor, University of Toronto, Toronto, Canada. January 13, 2011

'The science and art behind current approaches to management of glaucoma' by **Dr Karim F Damji**, Professor of Ophthalmology, University of Alberta, Edmonton, Canada. January 14, 2011

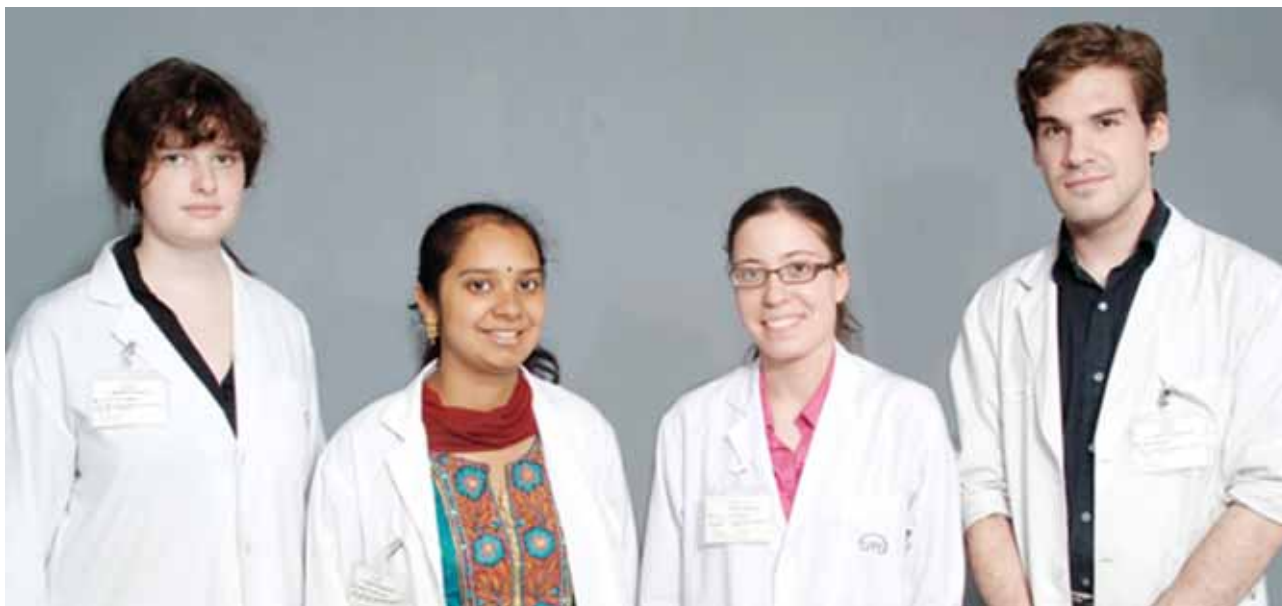
'Myopia' by **Prof Brien A Holden**, Scientia Professor, University of New South Wales; Founder and Director, Cornea and Contact Lens Research Unit, SOVS, UNSW and Deputy CEO, Vision CRC, Sydney, Australia. January 21, 2011



'Project Prakash – studies on the plasticity of vision' by **Prof Pawan Sinha**, Associate Professor of Computational and Visual Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, USA. January 31, 2011

'Heritable disorders of connective tissue' by **Dr Irene H Maumenee**, Professor of Ophthalmology, University of Illinois, Illinois, Chicago, USA. February 15, 2011

MIT – India Program: A Great Opportunity



From Left: Laura Levin Gelba, Swetha Kambhampati, Lindsay Johnson, Ethan Solomon

The Massachusetts Institute of Technology (MIT) International Science and Technology Initiatives (MISTI) is a pioneering program in applied international studies, connecting MIT students and faculty with research and innovation around the world, through a network of premier corporations, universities and research institutes. The MIT–India Program facilitates dynamic connections between the thinkers and idea-makers of the MIT community and their counterparts in India. Every year top MIT undergraduates and graduates come for a summer internship at outstanding Indian corporations, universities and research institutes, working on a project of their choice under a preceptor/mentor.

LVPEI has been a host for the MIT–India Program since 2009. Last year 4 students interned here.

It's been wonderful at LVPEI because I always wanted to get some clinical exposure. A lot of things are very different from the US. Here we had an opportunity to do both research and to shadow doctors in the clinics. In the US, you cannot go to an operating room unless you are a medical student. The doctors here see around 80 patients per day, while in the US, a doctor sees 8-9 patients per day. So the stress levels are quite different. Some of the critical cases I have seen here have been eye-openers.

I will begin my first academic year at Stanford medical school soon and I'm considering taking up oncology, may be pediatric oncology. After coming here, I am also considering ophthalmology. If I do take up ophthalmology, I will come back to LVP in the 4th semester.

Swetha Kambhampati, graduated with a Bachelor's degree in biology

It is a great opportunity to be at LVP. I got to see a lot of surgeries. We don't have any hospital that offers treatment free of cost. It is really interesting to see all this. What's good here is that we get to see the clinics and work in labs at the same time. It's really important to be able to see patients so that my research is not just for myself but has some relevance to human life.

Lindsay Johnson, pursuing a Bachelor's in Neuroscience

Coming to India and to LVPEI was a great experience. If I had come with my parents, I would have been just a tourist. But this was different. I remember a strange incident when I went to Golconda Fort. A family came up to me and handed me their baby – they wanted me to pose for a photograph holding their baby. I did not understand what was going on. So it's interesting how I think people here are different from me, but people here think I am different from them (laughs)!

Laura Levin Gelba, pursuing a Bachelor's in Cognitive Science in Psychology

It was interesting to get a first-hand experience in the clinical areas of LVPEI. I could also observe in the OR, which is something I cannot do in the US. So I got a good clinical exposure and also got to shadow the doctors.

Ethan Solomon, pursuing a Bachelor's in Neuroscience

My Experience in the Comprehensive Ophthalmology Training Program

By Jaafar Kadiri

I am the first ophthalmologist from my town and I came to LVPEI to learn to convert from extra capsular cataract extraction (ECCE) to small incision cataract extraction (SICS) in order to manage a secondary care unit at the Government Specialist Hospital in my home town Auchu, Edo state, Nigeria. I had skills for ECCE only. They wanted modern cataract surgery there but cannot afford the phacoemulsification equipment at present, so they decided to settle for small incision cataract surgery.

I was asked to suggest where the training should take place. I searched on the internet and found only two WHO recognized eye training institutions in India that could offer me this training — Aravind Eye Hospital and L V Prasad Eye Institute. The part sponsors for my training, Rotary International, Kolkata chose L V Prasad, because one of its members had undergone training in phaco here. The government of Edo state that owns the specialist hospital where the Rotary Eye Centre will be located was supposed to meet the remaining cost of the sponsorship. However, they have yet to do so.

I am retired from government service and saw this as a challenge to improve my skills. I decided to commit my own resources for the training, hoping that the government will reimburse me and arrived at LVPEI on November 1, 2010.

At L V Prasad Eye Institute I was posted for almost a month at the LVP – Zeiss International Academy of Advanced Ophthalmic Education before I went on to various subspecialties like the cornea and anterior segment, glaucoma, oculoplasty, pediatrics, neuro-ophthalmology, retina and emergency management. Since I wanted to convert to SICS, the education office here, very thoughtfully, broadened my training program! Instead of just converting from ECCE to SICS, they made it a six months' training in comprehensive ophthalmology, of which I am the first trainee. This afforded me an opportunity to have up-to-date theoretical, clinical and surgical knowledge and experience in all the other ophthalmological subspecialties.



Jaafar Kadiri examining a patient

Although the ECCE to SICS conversion learning curve was particularly steep for me, over the allotted six months I acquired enough skills and confidence to the extent of operating independently, with minimal supervision, because of the highly dedicated fellows of LVPEI who were assigned to train me.

It was not easy — there were happy times and plenty of sad times, like when we could not help a patient much. I tried to limit the sad times. I made up my mind that the outcome of all patients had to be good on the first post op day and all the subsequent days. I had to balance my desire to learn with the trainers' advice and know when to let them take over for the benefit of the patient. I succeeded, despite this restraint on my part, in operating independently with minimal supervision and all the trainers were comfortable with me.

I had other challenges like getting adjusted to the 7 AM sharp ophthalmology class, the work on Saturdays and even on Sundays when I had to do post ops for Saturday's operations. This affected my health also. I came to LVPEI from Nigeria with 73 kilos and am going back with 68 kgs, thankful for the invention of the belt which can still hold up my loose trousers!

There are no words to express my deep appreciation to the founder, directors, assistant directors, and all the other staff in various department whom I have interacted with, and whom I have not interacted with, but whose tireless efforts made my stay at LVPEI, a world ophthalmological centre of excellence worth it! I look forward to continuing my phaco training in the near future.

Jaafar's wife Medina is professor of algae at the University of Benin. His children are pursuing their careers... Hussein is studying computer engineering, Hassanat economics, Juwarat medicine and Mukhtar is a petroleum engineer.



Jaafar with his family — the twins Hussein and Hassanat, Medina and Jaafar, with Juwarat and Mukhtar

Ophthalmology Education Programs

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

Cornea & Anterior Segment

24 months

Dr Archana Singh	Agra, Uttar Pradesh
Dr Magie Mathew	Puduchery
Dr Charuta J Puranik	Thane, Maharashtra
Dr P Vishwamithra	Visakhapatnam, Andhra Pradesh
Dr Rajat Jain	New Delhi
Dr Anil Raj K S	Davangere, Karnataka
Dr Alok Sati	Patna, Bihar

3 months

Dr Pallavi Nilakhe	Mumbai, Maharashtra
Dr Vikas Tyagi	New Delhi
Dr Simpy Rajpal	New Delhi
Dr Harsh Mepani	Kutch, Gujarat
Dr Chandrayee Roy	Kolkata, West Bengal
Dr Arundhati	Guwahati, Assam
Dr Ch Sindu Sulekha	Karimnagar, Andhra Pradesh

Bhubaneswar

Dr Nutan Bondarde	Nashik, Maharashtra
Dr Mahmood Mujtaba	Bangladesh

Visakhapatnam

Dr Abdullah Saad Al-roabie	Riyadh, Saudi Arabia	Dr Mekhla Naik	Mumbai, Maharashtra
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Glaucoma

24 months

Dr Paaraj Dave	Bhavnagar, Gujarat
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3 months

Dr Archana Pokharel	Kathmandu, Nepal
Dr Aryn Chagani	Mumbai, Maharashtra
Dr Parul Singh	Haldwani, Uttarakhand

Retina Vitreous

24 months

Dr Manish Kumar Singh	Aurangabad, Maharashtra
Dr Mudit Tyagi	Ahmedabad, Gujarat
Dr Odarasu M Uhumwangho	Lagos, Nigeria
Dr Kshitiz Kumar	New Delhi
Dr Fatson Lichi	Lusaka, Zambia

3 months

Dr Anil Kumar	Karimnagar, Andhra Pradesh
Dr M Vani Reddy	Karimnagar, Andhra Pradesh
Dr Madhavi Latha	Hyderabad, Andhra Pradesh

Bhubaneswar

Dr Ravinder Malik	Panchkula, Haryana
Dr Nikhil Sardar	Mumbai, Maharashtra
Dr Aparajita Choudhury	Allahabad, Uttar Pradesh
Dr Shailesh Agarwal	Surat, Gujarat (1 month)
Dr Rashmi Ranjan Mohanty	Rourkela, Orissa (1 month)

Comprehensive Ophthalmology

36 months

Dr Supriya Chinta	Hyderabad, Andhra Pradesh
Dr Rushmika Singla	Belgaum, Karnataka
Dr Bhupesh Singh	Lucknow, Uttar Pradesh
Dr Piyush Bansal	Pune, Maharashtra

6 months

Dr Jaafar Kadiri	Lagos, Nigeria
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Bhubaneswar

Dr Batriti S Wallang	Shillong, Meghalaya
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Visakhapatnam

Dr Debarati Saha	Kolkata, West Bengal
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Pediatric Ophthalmology (24 months)

Dr Sumit Monga	New Delhi
Dr Bhamy Hariprasad Shenoy	Davengere, Karnataka

Dr Adhi Wicaksono	Jakarta, Indonesia
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Ophthalmic Plastic Surgery, Orbit & Ocular Oncology

24 months

Dr Fairouz PM
Dr Kruti Mody

Cannanore, Kerala
Mumbai, Maharashtra

3 months

Dr Lily Daniel Chennai, Tamil Nadu
Dr Ankit Bhavsar Ahmedabad, Gujarat
Dr Pooja Deshmukh Nagpur, Maharashtra
Dr Emmanuel M Nijenze Muranya, Kenya
Dr Md Nazimul Hoque Dhaka, Bangladesh
Dr Breguadze Eliso Tbilisi, Georgia, USA

Bhubaneswar

Dr Eliya Shrestha Pokhara, Nepal

Manual Small Incision Cataract Surgery (1 month)

Dr N Karthika Hyderabad, Andhra Pradesh
Dr Shyam Sunder Tirupati, Andhra Pradesh
Dr Sujata Dabhadkar Mumbai, Maharashtra
Dr Kavitha Raga Aurangabad, Maharashtra
Dr Fatima Vas e Menezes Mesquita Goa
Dr Derek Tole Bristol, United Kingdom

Bhubaneswar

Dr J Thakuria Jalpaiguri, Assam
Dr Sanjukta Mohapatra Bhubaneswar, Orissa (2 months)

Phacoemulsification (1 month)

Dr Jessica Prasada Rao Hyderabad, Andhra Pradesh
Dr Mallikarjun Ragi Hyderabad, Andhra Pradesh
Dr Anil Hyderabad, Andhra Pradesh
Dr Tina Damani Hyderabad, Andhra Pradesh
Dr Adala Sadana Tirupati, Andhra Pradesh
Dr Vaishnavi Batmanabane Puduchery
Dr Rashi Ray Malda, West Bengal
Dr Sudip Kumar Baidya Kolkata, West Bengal
Dr Purnima S Patel Los Angeles, US
Dr Sheila Marco Nairobi, Kenya
Dr Aliya Rashid Srinagar, Jammu & Kashmir

Bhubaneswar

Dr Kiran Sharma Bengaluru, Karnataka
Dr Pankaj Pradeep Mangulkar Nashik, Maharashtra
Dr Rinchen Lama Kolkata, West Bengal
Dr Ranjit Gogoi Shiva Sagar, Assam

Visakhapatnam

Dr P R Niveditha Reddy Kurnool, Andhra Pradesh
Dr Sarvani M Nellore, Andhra Pradesh
Dr Gunay Aleiva Baku, Azerbaijan
Dr Lennart Elzee Ulm City, Germany
Dr Abdullah Saad Alrobaie Riyadh, Saudi Arabia
Dr Dayanand S Nijwante Latur, Maharashtra
Dr Nirmal Kumar Narsaria Cuttack, Orissa

Retina Laser (1 month)

Dr Abhishek B Dagar New Delhi
Dr Brijesh Gupta New Delhi
Dr Girish R Bhat Mumbai, Maharashtra
Dr M B Deshkar Nagpur, Maharashtra
Dr Somy Dulani Wardha, Maharashtra

Dr Amit Srivastava Bhopal, Madhya Pradesh
Dr Nitin Mittal Lucknow, Uttar Pradesh
Dr Rajesh Gupta Kota, Rajasthan
Dr Kurada Padma Hyderabad, Andhra Pradesh
Dr Aparna Dornadula Hyderabad, Andhra Pradesh

Retinopathy of Prematurity (1 month)

Dr Prakash V Suranagi Davangere, Karnataka
Dr Anshuman Sinha Ranchi, Jharkhand

Vitrectomy Training (1 month)

Dr Patricia Schwacha Germany

LVP - Zeiss Basic Course in Ophthalmic Diagnostics (1 month)

Dr Siva Kumar Wurity	Hyderabad, Andhra Pradesh	Dr K S Preethi	Belgaum, Karnataka
Dr S Arjun, Vidyanagar	Hyderabad, Andhra Pradesh	Dr Rahul Khodbok	Belgaum, Karnataka
Dr Swapnil Chitkul	Hyderabad, Andhra Pradesh	Dr Jasna Rabia Rahman	Bengaluru, Karnataka
Dr Savitha Alladi	Hyderabad, Andhra Pradesh	Dr Soumya Sharat	Bengaluru, Karnataka
Dr Sruthi	Hyderabad, Andhra Pradesh	Dr Rachitra Sarangi	Bengaluru, Karnataka
Dr U Anusha	Hyderabad, Andhra Pradesh	Dr Soumya Basanth	Tumkur, Karnataka
Dr B Haritha	Hyderabad, Andhra Pradesh	Dr Anand G Gannaur	Tumkur, Karnataka
Dr Manga Venkat	Visakhapatnam, Andhra Pradesh	Dr Bhavana HC	Tumkur, Karnataka
Dr Ch Srinivasa Reddy	Guntur, Andhra Pradesh	Dr Priyank Solanki	Tumkur, Karnataka
Dr Prashant Kumar	Guntur, Andhra Pradesh	Dr Somashekhar	Gokak, Karnataka
Dr Krishna Priya K V R	Guntur, Andhra Pradesh	Dr Shylaja S Chintamani	Chikkaballapura, Karnataka
Dr T Sada Siva Rao	Guntur, Andhra Pradesh	Dr Soumya Ganesh K	Mysore, Karnataka
Dr Ravi Shekar	Adilabad, Andhra Pradesh	Dr Rohini Naik	Bijapur, Karnataka

Ms Atchira A Sangma	Shillong, Meghalaya	Optometry
Mr Ginsuankhup Tunngnung	Shillong, Meghalaya	Optometry
Mr Hopeful Khongstia	Shillong, Meghalaya	Optometry
Ms Kaushila Dhakal	Shillong, Meghalaya	Optometry
Mr Krishna Pancholi	Birmingham, UK	Optometry
Mr Prathna Vadolia	Birmingham, UK	Optometry
Mr Krishna Patel	Birmingham, UK	Optometry
Ms Simka Varma	Birmingham, UK	Optometry
Ms Priya Raiyani	Birmingham, UK	Optometry
Mr Prabhdeep Sandhu	Birmingham, UK	Optometry
Mr Jasvinder Sikand	Birmingham, UK	Optometry
Ms Reena Chahal	Birmingham, UK	Optometry
Ms Roshni Minhas	Birmingham, UK	Optometry
Ms Diana Prabhu Das	Birmingham, UK	Optometry
Ms Simran Grewal	Birmingham, UK	Optometry
Ms Carina Trin	Sydney, Australia	Optometry
Ms Rebecca Li	Sydney, Australia	Optometry
Ms Nodie Errington	Sydney, Australia	Optometry
Ms Ambiga Theivendradas	Melbourne, Australia	Optometry
Ms Anh Nguyen	Melbourne, Australia	Optometry
Mr Nalin Singh	New Delhi	Optometry
Ms Shravani Mikkilineni	Hyderabad, Andhra Pradesh	Medical Student
Dr Amit Sangave	Pittsford, New York	Medical Student
Dr Abhishek Dagar	New Delhi	Administration
Mr B Gajapathi Rao	Hyderabad, Andhra Pradesh	Administration
Mr Giridhar Dasari	Mumbai, Maharashtra	Administration
Dr Ahtesham Ul Haq	Kolkata, West Bengal	Summer Internship
Ms Lindsay Johnson	Cambridge, USA (MIT India Program)	Administration
Ms Swetha Kambhampati	California, USA (MIT India Program)	Administration
Ms Laura Levin-Gleba	New York, USA (MIT India Program)	Administration
Mr Ethan Solomon	Cambridge, USA (MIT India Program)	Administration
Mr Sai Srujan	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Mr Nabeel, Ahmed	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Mr P Sai Sashanka	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Mr R Maheshwar Reddy	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Mr A Varun	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Ms Sukanya Chakraborty	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration
Ms Bhanu Gupta	Hyderabad, Andhra Pradesh (BITS Practice School)	Administration

Bhubaneswar

Dr Neelam Sapra	New Delhi	Microbiology
Mr Sanjay Thomas	New Delhi	Microbiology
Mr Ogunniyi Abiodun	Nigeria	Microbiology
Ms Seema Ghosh	Siliguri, Assam	Counselling
Ms Nimlamu Sherpa	Siliguri, Assam	Counselling
Mr Jitendriya Sarangi	Bhubaneswar, Orissa	Patient Care

Visakhapatnam

Mr Amardeep Singh Bedi	New Delhi	Stratus & Cirrus OCT
Mr Murad R	Kolkata, West Bengal	Optometry
Mr Ch Kiran Kumar	Visakhapatnam, Andhra Pradesh	OPD Procedures

Clinical Rotation

Dr Virginia Utz	Rocky River, USA
Dr Jeffrey Tan	Fremont, USA
Dr Hammond Benjamin P	Rochester, USA
Dr Vandana Reddy	Rochester, USA
Dr Atif Collins	Cleveland, USA
Dr Rahul Mandiga	Cleveland, USA
Dr Chris Brown	Cleveland, USA
Dr Benjamin Nicholson	Cleveland, USA
Dr Mark Fernandez	Durham, United Kingdom

Optometry Education Programs

4-year Bachelor of Science in Optometry (2010 batch)

Mr M Vinod Kumar	Rangareddy, Andhra Pradesh	Mr Varadarajula Vidhaey Bhatt	Nizamabad, Andhra Pradesh
Ms D Chandana	Hyderabad, Andhra Pradesh	Mr Asadi Stevenson	Nizamabad, Andhra Pradesh
Ms Amarah Sharmeen	Hyderabad, Andhra Pradesh	Ms Marella Bhagyalakshmi	Visakhapatnam, Andhra Pradesh
Mr Harish Sandhugari	Adilabad, Andhra Pradesh	Ms N Sravanthi	Mahaboobnagar, Andhra Pradesh
Mr Putta Rambabu	Nalgonda, Andhra Pradesh	Ms Syeda Shafia Mehveen	Mahaboobnagar, Andhra Pradesh
Ms V Aparna	Nalgonda, Andhra Pradesh	Ms Yaramalla Vasavi	Khammam, Andhra Pradesh
Mr Mohammad Fareed Khan	West Godavari, Andhra Pradesh	Ms Adike Amulya	Warangal, Andhra Pradesh
Mr Marupally Abhilash Goud	Medak, Andhra Pradesh	Ms Movva Srilatha	Krishna district, Andhra Pradesh
Ms Veeravalli Tabita Naomi	Srikakulam, Andhra Pradesh	Mr Tshering Dorjee	Kalimpong, Darjeeling
Ms Sakshi Shivahare	Banda, Uttar Pradesh	Mr Bikash Gyawali	Seti, Nepal

Fellowship in Optometry (2 years)

Mr S Manikandan	Thiruninravur, Tamil Nadu	Mr Venkatesan	Thiruvannamali, Tamil Nadu
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Fellowship in Optometry (1 year)

Mr Abir Lal Mondal	Kolkata, West Bengal	Ms Tasneem Fatima	Lucknow, Uttar Pradesh
Ms Bilkis Parven	Kolkata, West Bengal	Ms Ghausia Fatmi	Darbhanga, Bihar
Mr Snehasis Das	Kolkata, West Bengal	Mr Shashi Kant Chaudhary	Vaishali, Bihar
Ms Ananya Datta	Kolkata, West Bengal	Ms Neelam Rajendra Pingle	Thane, Maharashtra
Mr Sujoy Mukherjee	Kolkata, West Bengal	Ms Priyanka Prakash Kurkute	Mumbai, Maharashtra
Mr Nilanjan Pal	Kolkata, West Bengal	Ms Jyoti Mukesh Dodhi	Mumbai, Maharashtra
Ms Sonali Mandal	Kolkata, West Bengal	Ms Sarita M Deshpande	Raigad, Maharashtra
Mr Anirban Dutta	Purulia, West Bengal	Ms Seema Banerjee	Dhanbad, Jharkhand
Mr Md Mosaib Omaer	Burdwan, West Bengal	Ms Swati Kakar	New Delhi
Ms Ch Sirajum Monira	Burdwan, West Bengal	Ms Krishna P Bhakthan	Kochi, Kerala
Mr Sonauddin Ahmed	Malda, West Bengal	Mr Sudipta Samanta	24 Parganas, West Bengal

Vision Technicians Training (1 year)

	ANDHRA PRADESH		
BIHAR			
Mr Intekhab Alam		Ms A Prasanna	Ms Asadi Ramadevi
HARYANA	Adilabad	Ms Areboina Prasanna	Ms N S Shamshunnisa Begum
Ms Honey Arori	Mr Srinivas Cheekati	Ms Boddu Rani	Mr B Venkat Subbareddy
ORISSA	Ms D Pravalika	Ms Srilaxmi	Mr Naru Raja Sekhar Reddy
Mr Samir Sater	Mr Athram Sudharshan	Ms M Nagalakshmi	Mr Busi Sundaraiah
Ms Bhakti Satapathy	Mr Y Shankar	Ms Pantangi Vihari	Mr Kokkilagadda Nagasrinu
Ms Soumya Priyadarshini	Mr Kumra Sudharshan	Mr Musunoori Naresh	
Ms Haripriya Das	Chittoor	Mr Madipally Gopala Rao	Ranga Reddy
Ms Chhabina Sethy	Ms D Rebecca Rupa		Ms V Lavanya
Mr Bibhujit Rout	Ms M Shobha Rani	Krishna	Mr Bhavani Prasad M
Mr Gopinath Das	Guntur	Mr Sandeep Pallapogu	Mr Esther Joseph
Ms Minati Behara	Ms S K Hasina	Ms Mukkamala Nagaswarupa	Mr Ganesh Deshmukh
Ms Saraswathi Samal	Hyderabad	Ms Sattiwada Chandra Kala	
TAMIL NADU	Mr Chandrakanth Ganga	Mr Pallepogu Sateesh	Srikakulam
Mr G Boopathi	Mr Mahendar Guduru	Mahaboobnagar	Ms K Kalyani
Mr V Bharath	Ms M Srujana Reddy	Ms Madhu Kalmuri	Mr M Srinivas Rao
UTTAR PRADESH	Mr G Vara Prasad	Ms Shireesha D	Ms S Kalyani
Mr Suneet Sudhakar Mishra	Khammam	Mr Sudhakar Kalmuri	Mr K Krishna
Mr Mithilesh Kumar Pandey	Mr E Kiran Kumari	Mr Boya Shiva Krishna	Mr G Srinivas Rao
Mr Shashank Pandey	Mr SK Shamim Parveen	Mr Kalmuri Sudhakar	Mr Kameswar Rao
Mr Ram Vishal C	Ms CH Parvathi		Ms Bendi Vineetha
Mr Gufran Ahmad	Ms M Vinoda	Nizamabad	
	Ms MD Nazma	Mr T Mahesh	Vijayawada
	Ms Thota Vijayalaxmi		Ms Lam Jyothsna
	Ms M Savithri	Prakasham	
	Ms Dharavath Venkatalaxmi	Ms G Ganga Bhavani	Visakhapatnam
	Ms Guguloth Sharadha	Ms Y Raja Mani	Ms K Revathi
	Ms Kalpana Devi	Ms Ushanjali	Ms P Ramadevi
		Ms Manasa Kamarajugadda	Ms G Madhavi Latha
		Ms Yalakapati Mani	Ms D Ramanamma
			Ms T Jayalaxmi

ANDHRA PRADESH

Ms G Sravani
Ms P Varalaxmi
Ms A Rani
Ms T Venkata Laxmi
Mr G Appala Raju
Mr B Karthik
Ms Gali Sravani
Ms Guntuboina Madhavi Latha
Ms Pithana Ramadevi
Ms T Venkata Lakshmi
Mr Tanara Satish
Mr G Kiran Kumar
Mr CH Ram Mohan Rao

Vizianagaram

Mr S Krishna

West Godavari

Ms Santhosha Roopa G
Ms Rakshana Kumari Pathala
Mr Chandra Sekhar Penumaka
Mr Shaik Kareemulla

Optometry Observership (1 month)

(Reliance – Vision Express)

Ms Bineeta Das	Hyderabad, Andhra Pradesh	Mr Amit P	Nashik, Maharashtra
Mr G Sandeep	Hyderabad, Andhra Pradesh	Mr Durgesh Choudhari	Mumbai, Maharashtra
Ms Bindu Sandhya	Hyderabad, Andhra Pradesh	Ms Laxmi Ravindran Nair	Mumbai, Maharashtra
Mr P Desai Reddy	Hyderabad, Andhra Pradesh	Ms Sweta Solanki	Mumbai, Maharashtra
Mr Rajesh K	Hyderabad, Andhra Pradesh	Ms Anshuka Jaiswal	Mumbai, Maharashtra
Mr Mahesh	Hyderabad, Andhra Pradesh	Mr Hozefa Chamelawala	Mumbai, Maharashtra
Mr P Narsaiah	Hyderabad, Andhra Pradesh	Mr Hardew Mahto	Mumbai, Maharashtra
Mr Vijaya Kumari	Adilabad, Andhra Pradesh	Ms Hemangi Gawali	Mumbai, Maharashtra
Mr M Raju	Warangal, Andhra Pradesh	Ms Hetvi C Josh	Mumbai, Maharashtra
Mr S Madhu	Nellore, Andhra Pradesh	Ms Dimpal Kaware	Mumbai, Maharashtra
Mr Yogesh Kumar Shukla	Kanpur, Uttar Pradesh	Ms Supriya Awari	Mumbai, Maharashtra
Mr Manesh Kumar	Ghaziabad, Uttar Pradesh	Mr Rohit R Kadam	Panvel, Maharashtra
Ms Sakshi Varsheny	Bijnor, Uttar Pradesh	Mr Vinod Pradhan	Panvel, Maharashtra
Mr Rajendra Kaur	Noida, Uttar Pradesh	Mr Vidyadhar Swami	Pune, Maharashtra
Mr Shahnawaz Ala	Noida, Uttar Pradesh	Ms Manisha L Jori	Pune, Maharashtra
Mr Manish Shukla	Kanpur, Uttar Pradesh	Mr Shailesh B	Pune, Maharashtra
Mr Dileep Kumar	Lucknow, Uttar Pradesh	Ms Smita A Mane	Sangli, Maharashtra
Mr Bhupendra Kumar Yadav	Marhat, Uttar Pradesh	Mr Rami Reddy	Chennai, Tamil Nadu
Mr Palak Chandrakanth Patel	Ahmedabad, Gujarat	Mr Karthik J	Coimbatore, Tamil Nadu
Mr Karan Joshi	Ahmedabad, Gujarat	Ms Anitha	Kadambathur, Tamil Nadu
Ms Nidhi H Rajpura	Ahmedabad, Gujarat	Mr Mohamed Ismail	Cuddalore, Tamil Nadu
Ms Megha Awasthi	Ahmedabad, Gujarat	Mr Suneesh	Bengaluru, Karnataka
Ms Saumya Samuel	Ahmedabad, Gujarat	Mr Debasish Chandra	Mysore, Karnataka
Ms Sonal Rola	Surat, Gujarat	Mr Sanil	Kayamkulam, Kerala
Mr Shehzad A Kachwale	Baroda, Gujarat	Ms Neena Das	Kottayam, Kerala
Mr Yunus Chasmawala	Baroda, Gujarat	Mr Renjith Kumar	Idukki, Kerala
Ms Aarthi R Dayagal	Navsari, Gujarat	Ms Any Varghese	Ernakulam, Kerala
Ms Tapasya Tyagi	Jaipur, Rajasthan	Mr Ajeeb Y	Trichur, Kerala
Mr Suman Choudhari	Jaipur, Rajasthan	Mr Rohit Aggarwal	New Delhi
Mr Vishnu Dutt Swami	Jaipur, Rajasthan	Mr Ramashander Gupta	New Delhi
Mr Rahul Sharma	Sahibganj, Jharkhand	Mr Md Kamyab	New Delhi
Ms Vijaya Khatri	Chaibasa, Jharkhand	Mr Manoj Chauhan	New Delhi
Ms Ria Banerjee	Dhanbad, Jharkhand	Mr Nitesh Srivastav	New Delhi
Mr Mujahid Ahmed	Patna, Bihar	Mr Anas Manzoor	New Delhi
Mr Amal Gosh	Midnapur, West Bengal	Mr Herojit Asem	Imphal, Manipur
Mr Jani Jamalul Lail	Malda, West Bengal	Ms Ranjana Kale	Bhilai, Chhattisgarh
Mr Bidyut Bikash Saika	Dhemaji, Assam		

Visakhapatnam

Mr Lakshna Suresh Bhenwal	Mumbai, Maharashtra	Mr Brajesh Kumar Mishra	Kaimur, Bihar
Mr Shivaji Pise	Mumbai, Maharashtra	Mr Rajesh Jha	Patna, Bihar
Mr Darshil Pravin Gutka	Mumbai, Maharashtra	Mr Ratesh Pandey	Lucknow, Uttar Pradesh
Mr Syed Viqar Ahmed Naqvi	Navi Mumbai, Maharashtra	Mr Chandra Vir Singh	Agra, Uttar Pradesh
Mr Kushal Prashant Shroff	Nandurbar, Maharashtra	Ms K Viji	Chennai, Tamil Nadu
Mr Abhay Kumar	Koderma, Jharkhand	Mr Suyambulingadurai	Tirunelveli, Tamil Nadu
Ms Sweta Kumari	Ranchi, Jharkhand	Ms Shoba Kumaresan	Kanyakumari, Tamil Nadu
Mr Shigil Nair	Gurgaon, Haryana	Ms B D Veena	Chitradurga, Tamil Nadu

Mr Mahendra Pratap Singh
Ms Sharmistha Biswas
Ms Aniruddha Banerjee
Mr Iman Ghosh
Mr Sandeep Chakrabarti
Mr Bikas Kumar Gupta
Mr Binil Kumar Ninan

Gwalior, Madhya Pradesh
Burdwan, West Bengal
Howrah, West Bengal
Kolkata, West Bengal
Kolkata West Bengal
Sun Sari, Nepal
Mumbai, Maharashtra (2 months)

Ms M Maheshwari
Mr K Nisarg Patel
Mr Vikas Mani Tripathi
Mr Chandra Sekhar MD
Mr Mahesh Shanmugam
Mr Haseem Kolhar

Coimbatore, Tamil Nadu
Ahmedabad, Gujarat
Jaipur, Rajasthan
Mandya, Karnataka
Bengaluru, Karnataka
Bijapur, Karnataka

Optometry Internship (1 year)

Bhubaneswar

Mr Ramesh Kumar
Mr Subhash Kumar

Nalanda, Bihar
Nalanda, Bihar

Ms Archayeeta Rakshit
Mr Gopal Varshney

Kolkata, West Bengal
Aligarh, Uttar Pradesh

Visakhapatnam

Mr Shaik Kareemullah
Mr S Anand Kumar
Mr Arnab Ghosh
Mr Ashotosh Kumar Singh

Krishna District, Andhra Pradesh
Mahabubnagar, Andhra Pradesh
Siwan, Bihar
Siwan, Bihar

Mr Yogesh S Dhumal
Mr Lokesh Girish
Mr Ramdas Laxman Gore
Ms Apoorva Karsolia

Pune, Maharashtra
Pune, Maharashtra
Ahmednagar, Maharashtra
New Delhi

Low Vision and Rehabilitation (3 months)

Mr R Yungandhar Reddy
Mr Venkatesh
Ms N Dharani
Mr E Ramdas
Mr K Ravinder Mavala
Ms Poojan Deep Kaur

Mahaboobnagar, Andhra Pradesh
Karamchedu, Andhra Pradesh
Visakhapatnam, Andhra Pradesh
Markapuram, Andhra Pradesh
Adilabad, Andhra Pradesh
Moradabad, Uttar Pradesh

Ms Geetha Ramakrishnan
Dr Innocent Emeruera
Mr Fredrick Mwaniki Karamba
Ms Swapna Rani Mohapatra
Ms Mercyba

Selangor, Malaysia
Anglo Jos, Nigeria
Nairobi, Kenya
Bhubaneswar, Orissa
Bhubaneswar, Orissa

Eye Banking

Eye Bank Technicians (3 months)

Mr Jahir Burhan
Mr Neeraj
Mr Kallanagouda A Patil
Mr Pawan Sain
Mr Bharath Kumar Sharma
Mr Ashok Singh
Mr C Rothuamlina
Mr Mintewab Neberu

Siliguri, West Bengal
Hissar, Haryana
Bijapur, Karnataka
Jaipur, Rajasthan
Jaipur, Rajasthan
Jaipur, Rajasthan
Aizawl, Mizoram
Addis Ababa, Ethiopia (2 weeks)

Mr K Srikanth
Mr Y Balakrishna
Mr B Mahesh Kumar
Ms Kakileti Swarna Latha
Mr K V S Ganesh
Mr Himanshu Jain
Mr Satya Ranjan Rout

Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Srikakulam, Andhra Pradesh
Kakinada, Andhra Pradesh
Indore, Madhya Pradesh
Bhubaneswar, Orissa

Eye Donation Counsellors (3 weeks)

Mr N Srinivas Reddy
Mr T Raju
Mr T Kishan Reddy
Ms Krishna Veni
Ms Reshma Sultana
Ms Renuka
Ms Sandhya Rani
Mr Ashok
Mr Uma Maheshwar Rao
Ms Kishore
Ms Sujatha
Mr Srinivasulu Reddy
Ms Grace
Mr Umesh Ch Dutta
Mr Raghavendra Kumar Rai

Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Hyderabad, Andhra Pradesh
Visakhapatnam, Andhra Pradesh
Visakhapatnam, Andhra Pradesh
Visakhapatnam, Andhra Pradesh
Kadapa, Andhra Pradesh
Aizawl, Mizoram
Jorhat, Assam
Chandigarh (1 month)

Mr Manoj Gulati
Mr Padma Raj Bharati
Mr Bhola Bahadur Khatri
Mr Madhusudan Pihan
Ms Niharika Mohapatra
Ms Madhabi Rani Behera
Ms Debasmita Sur
Mr Ramachandar Gurjar
Mr Vishnu Kumar Sharma
Ms Rakhi Rathore
Mr K C Mathews
Mr Eldho T Varghese
Mr Biplab Roy
Mr Krishna Kumar Singh

Seattle, USA
Kathmandu, Nepal
Kathmandu, Nepal
Bhubaneswar, Orissa
Bhubaneswar, Orissa
Bhubaneswar, Orissa
Bhubaneswar, Orissa
Jaipur, Rajasthan
Jaipur, Rajasthan
Jaipur, Rajasthan
Angamaly, Kerala
Angamaly, Kerala
Kolkata, West Bengal
New Delhi

Eye Bank Managers (1 week)

Mr Mahendra Rai
Ms Surpiya Hirve
Ms Uma Jhawar

Neemuch, Madhya Pradesh
Mumbai, Maharashtra
Indore, Madhya Pradesh

Ms Debasmita Sur
Mr Zelalem Mengesha

Bhubaneswar, Orissa
Addis Ababa, Ethiopia

Community Eye Health & Community Based Rehabilitation

Master's in Community Eye Health

(A collaborative program with the University of New South Wales, Australia)

Mr Sappati Vasantha Rao	Srikakulam, Andhra Pradesh	Mr V V Suresh	Nellore, Andhra Pradesh
Mr R Venkata Ramana	Srikakulam, Andhra Pradesh	Mr R L V Chandra Sekhar	Kandukuru, Andhra Pradesh
Mr B V M Prasada Rao	Srikakulam, Andhra Pradesh		

Diploma in Eye Health Management (1 year)

Ms Sridevi Gummadi	Guntur, Andhra Pradesh	Ms Sirisha Nadella	Vijayawada, Andhra Pradesh
Mr Subhani Chintapalli	Guntur Andhra Pradesh	Mr Gopalarao Karukola	Srikakulam, Andhra Pradesh
Mr Ganesh Balla	Visakhapatnam, Andhra Pradesh	Mr Manoj Kumar Sahoo	Bhubaneswar, Orissa
Mr Siva Naresh Ramineedu	Krishna, Andhra Pradesh		

Diploma in Community Eye Health (6 months)

Ms Padma Devulapally	Nalgonda, Andhra Pradesh	Mr Maneesh Kumar V	Kadapa, Andhra Pradesh
Mr Linganna Jadi	Adilabad, Andhra Pradesh	Mr Ravi Kumar Donthala	Kadapa, Andhra Pradesh
Mr Jalender E	Karimnagar, Andhra Pradesh	Mr Rama Krishna Marlapati	Guntur, Andhra Pradesh
Mr Rajender Chidurala	Warangal, Andhra Pradesh	Dr Shreenivas Shouri	Anantapur, Andhra Pradesh
Mr Jayasankara Prasad Rao B	Srikakulam, Andhra Pradesh	Mr Mohd Shamim Akhter Khan	Rupandehi, Nepal
Mr Venkat Rao D	Visakhapatnam, Andhra Pradesh	Mr Tulasi Prasad Dahal	Jhapa, Nepal
Ms Chiang Te-Ju	New South Wales, Australia		

Certificate Course in Program Management and Evaluation (5 days)

(Supported by National Programme for Control of Blindness and State Blindness Control Society)

Dr P V Prasad	Kakinada, Andhra Pradesh	Dr J Ram Mohan	Mahabubnagar, Andhra Pradesh
Dr M Manjulamma	Nellore, Andhra Pradesh	Dr Nagarjuna Swarna	Eluru, Andhra Pradesh
Dr Mansingh	Vikarabad, Andhra Pradesh	Dr P R Sivasankar	Ananthapur, Andhra Pradesh
Dr P Sudhakar	Kurnool, Andhra Pradesh	Dr B Venkata Narsaiah	Khammam, Andhra Pradesh
Dr V Rami Reddy	Kadapa, Andhra Pradesh	Dr Bheem Singh	Nizamabad, Andhra Pradesh
Dr Ravindar Goud	Hyderabad, Andhra Pradesh	Dr R Champatha Rao	Adilabad, Andhra Pradesh
Dr B Motilal	Hyderabad, Andhra Pradesh	Dr Ch Kanthaiah	Karimnagar, Andhra Pradesh
Dr L Amar	Nalgonda, Andhra Pradesh	Dr K Vijayakumar	Warangal, Andhra Pradesh
Dr M Mohan Rao	Visakhapatnam, Andhra Pradesh	Dr K Rajesh Kumar	Chittoor, Andhra Pradesh
Dr K N Murthy	Vizianagaram, Andhra Pradesh		

Certificate Course in Program Management and Evaluation (2 weeks)

Mr Bindeshwar Mahato	Morang, Nepal	Mr Pradeep Peteti	Hyderabad, Andhra Pradesh
Mr Sudhir Kumar Thakur	Siraha, Nepal	Mr B S Davi Raju	Srikakulam, Andhra Pradesh
Ms Syeda Asma Rashida	Dhaka, Bangladesh	Ms Aruna Rani Regu	Srikakulam, Andhra Pradesh
Mr Sanjeeb Paul	Darjeeling, West Bengal	Mr Binoy Kurian	Palakkad, Kerala
Ms Antusha Bhattacharya	Darjeeling, West Bengal		

Community Eye Care and Community Based Rehabilitation (2 weeks)

M S Reddy Lions Eye Hospital, Hyderabad

Mr Gopal Vooradi	Karimnagar, Andhra Pradesh	CEC coordinator
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Internship in Public Health (6 weeks)

Ms Neha Mehta	University of Berkeley, CA, USA
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Field Workers Training Program (6 weeks)

Bhosle Gopal Rao Patel Eye Centre, Mudhol, Adilabad district

Mr Gadadhala Sayanna	Puspur, Lokeshwam	Coordinator
Mr Shyam S	Malegow, Kubera	CEC field service organiser
Mr Sayanna K	Timmapur, Bhainsa	CEC field service organiser
Ms Sandhya M	Naleswar, Navipet	CEC field service organiser

CEC: Community Eye Care
CBR: Community Based Rehabilitation

Ms Madhu Verma N	Nagar Lokeshwaram	CEC field service organiser
Ms Karuna Gaddam	Vannel, Navipet	CEC field service organiser
Ms Neela Chatla	Navipet, Nizamabad	CBR field service organiser
Mr Babu Rao Sonkamble	Mudhol	CBR field service organiser
Mr Rahul Gunderao	Bijur, Bhainsa	CBR field service organiser
Ms Sumitha S	Kissan Galli, Bhainsa	CBR field service organiser

Kuchukulla Ramachandra Reddy Eye Centre, Thoодукurthy, Mahaboobnagar district

Ms Sunitha Toom	Polepally, Bijinapally	CBR field service organiser
Mr Venkataiah Kumara	Nakkalapally, Peddakottapally	CBR field service organiser
Mr Kothapally Raju	Indrakal, Nagarkurnool	Supervisor
Ms Rajitha K	Nagarkurnool	CEC field service organiser
Ms Prameela E	Achampet	CEC field service organiser
Ms Bhavani S	Alwala, Peddamandadi	CEC field service organiser
Ms Yashoda P	Chukkayapalli, Kollapur	CEC field service organiser
Ms Leelavathi K	Lingala	CEC field service organiser
Ms Padmavathi D	Bijinapally	CEC field service organiser
Ms Haritha A	Antayapally, Ghanapur	CEC field service organiser

Venkata Lakshmi Eye Centre, Karamchedu, Prakasam district

Mr Chiranjeevi Telagatoti	Punuru, Yaddanapudi	CBR field service organiser
Mr Madhava Rao Chadalawada	Chirala	CBR field service organiser
Mr Seetharamaiah Chennupati	Nagulapalem, Parachur	Supervisor
Mr Shyam Tekkam	Yuddanapudi	CEC field service organiser
Mr Prabhudas Nadendra	Chirala	CEC field service organiser
Mr Anand Babu Kavuri	Vetapalem	CEC field service organiser
Ms Kanthamma	Ballikurava	CEC field service organiser
Ms Madhavi	Yanamadala	CEC field service organiser

Seshanna Chennawar Eye Centre, Adilabad, Adilabad district

Mr Rakesh Mukkera	Jainath, Adilabad	CBR field service organiser
Mr Santosh Meshram	Jainath, Adilabad	CBR field service organiser
Mr Krishnamachary Erroju	Ichoda, Adilabad	Supervisor
Mr Narsing Nadukunti	Sirsana, Bella	CEC field service organiser
Mr Suresh Dumma	Sirsana, Bella	CEC field service organiser
Mr Bheem Rao S	Jainur	CEC field service organiser
Mr Vilas L	Gudihathnoor	CEC field service organiser
Mr Sunil L	Gudihathnoor	CEC field service organiser
Mr Goutham Kumar M	Degama, Bazarthnoor	CEC field service organiser

Siloam Eye Centre, Madanapalle, Chittoor district

Mr Subbanarasaiah Bukkapatnam	Madanapalle	CBR field service organiser
Mr Anand D	Madanapalle	Coordinator
Mr Ameenulla S	Madanapalle	Vision Centre Coordinator

Swarna Bharat Eye Centre, Venkatachalam, Nellore district

Mr Ramesh Vidavaluru	Chittamuru, Nellore	CBR field service organiser
Mr Rajesh Voosi	Dargamitta, Nellore	Supervisor
Mr Murali Devareddy	Chittamuru, Nellore	CEC field service organiser
Mr Venkateshwara Rao A	Yellasiri, Chillakuru	CEC field service organiser
Mr Chengaiah M	Ojili	CEC field service organiser

Sudhakar & Sreekanth Ravi Eye Centre, Markapuram, Prakasam district

Mr Vijay Kumar Racheeti	Markapuram	CBR field service organiser
Mr A Ashok Kumar	Markapuram	CBR field service organiser
Mr Shaik Abdul Suhel Basha	Cumbum	Coordinator
Mr Shaik Anwar Basha	Cumbum	CEC field service organiser
Mr Anub Babu Pothipogu	Giddaluru	CEC field service organiser
Mr Vijay Kumar Racheeti	Markapuram	CEC field service organiser
Ms Sarada Ch	Markapuram	CEC field service organiser

Sudhakar & Sreekanth Ravi Eye Centre, Kandukuru, Prakasam district

Ms Korikamma Devarapalli	Medarametla, Korisapadu	CBR field service organiser
Mr Manohar Banala	Oguru	Supervisor
Mr Suneel Kumar Boodala	Atmakur, Ulapadu	CEC field service organiser
Mr Sudhakar Kola	Ulavapadu	CEC field service organiser
Mr Bhaskar Rao Baddepudi	Medarmetla	CEC field service organiser

Mr Suresh P	Kothapatnam	CEC field service organiser
Mr Jayapal N	C S Puram	CEC field service organiser
Mr Chanti Enagaluri	Ulavapadu	CEC field service organiser
Mr Hajarath P	Lingasamudram	CEC field service organiser

LVPEI – VST Vision Screening Centre, Ramnagar, Hyderabad

Mr Surender Reddy Narra	Hyderabad	CEC field service organiser
Mr Veeru Matam	Hyderabad	CEC field service organiser
Mr Shanker Mamilla	Kismatpur	CEC field service organiser

LVPEI, GMR Varalakshmi Campus, Visakhapatnam

Mr Yerrapatrudu R	Narsipatnam, Golugonda	Coordinator
Mr G Ram Babu	Visakhapatnam	Coordinator
Mr Sanjeev Kumar G	Moturvanipalem, Parwada	CEC field service organiser
Mr Durga Rao M	Boni, Anandpuram	CEC field service organiser
Ms Latha M R S	Gopalapatnam, Chinnagatti	CEC field service organiser
Mr G Sanjeev Kumar	Parwada	CEC field service organiser
Ms G Govindamma	Chinnagadili	CEC field service organiser
Ms B Maheshwari	Chinnagadili	CEC field service organiser
Ms S Rebacca Latha	Chinnagadili	CEC field service organiser
Mr Dhanaji	Chandrawaram	CEC field service organiser
Mr Prasanna Kumar	S Kota	CEC field service organiser

LVPEI, Kode Venkatadri Chowdary Campus, Vijayawada

Mr Sai Satyanarayana Murthy P	Nidadavolu	Optical sales
Ms Madhuri Gullapalli	Vijayawada	Patient counselor
Ms Lakshmi Suneetha Jammula	Vijayawada	Patient counselor
Ms Devi Prasanna K	Vijayawada	Pharmacists
Mr Challagali Prem Sagar	Vijayawada	Coordinator
Ms Chagantipati Tulasi	Chodavaram	CEC data entry operator
Ms Akarapu Nirmala	Tadigadapa	CEC field service organiser
Ms Zilla Krupa Kumari	Tadigadapa	CEC field service organiser
Ms Vepuri Martha	Tadigadapa	CEC field service organiser

Rotary Mahanagar Netralaya, Kolkata, West Bengal (1 month)

Mr Sanjay Kumar Patra	Kolkata, West Bengal	Optometrist
Mr Hiralal Chakraborty	Howrah, West Bengal	Optometrist
Ms Iram Rashid	Kolkata, West Bengal	Observer/Administrator
Ms Minati Khatua	Midnapur, West Bengal	OT Nurse
Ms Sushmita Das	Kolkata, West Bengal	Receptionist
Mr Ahin Mitra	Bongaon, West Bengal	OT Technician

Sight to ReSight – Vision Health Guardians

Ada Blindness Free Village Program

Mr A Mahesh	Jainath, Adilabad
Mr P Devanna	Jainath, Adilabad
Mr M Raju	Jainath, Adilabad
Mr B Anil	Jainath, Adilabad
Mr T Rajeshwar	Jainath, Adilabad
Mr B Raju	Jainath, Adilabad
Mr Narashimulu	Jainath, Adilabad
Mr P Narsing	Jainath, Adilabad
Mr Dhattu	Jainath, Adilabad

Achampet Vision Centre Region

Ms M Lakshmi	Achampet
Ms Jahangir Begum	Bommanpally
Ms K Venkatamma	Siddapur
Ms N Sujatha	Achampet
Ms M Kamma	Nadimpally

Bhainsa Vision Centre Region

Ms Krishna Leela	Vainas
Ms V Keval	Degam
Mr Gandhar	Eggam & Bulgoan
Ms B Lakshmi	Mangri

Kallur Vision Centre Region

Ms M Rajavva	Gollamada
Ms K Sulochana	Penchikalapadu
Ms N Lakshmi	Andakur
Ms Ch Padma	Kallur
Ms J Lavanya	Bhurgupalli

Nagarkurnool Vision Centre Region

Ms R Bhagyalakshmi	Nagarkurnool
Ms Nirmala	Nagarkurnool
Ms G Suvarna	Sripur
Ms K Navya	Yendabetla
Ms Saida Begum	Peddammudunoor

Field investigators for Andhra Pradesh Eye Disease Follow-up Study (APEDS-II) (1 month)

Mr Md Imtiaz Rahim	Mahabubnagar, Andhra Pradesh	Mr B Raghavender	Mahabubnagar, Andhra Pradesh
Mr Raghu Swamy	Mahabubnagar, Andhra Pradesh	Mr D Ramdasu	Nalgonda, Andhra Pradesh

Orientation Program for Field Staff (2 days)

(Sponsored by Luxottica India Eyewear Pvt Ltd., Gurgaon, Haryana)

Mr Ashutosh Vaidya	National Sales Head	Mr Adaviprasana V N	Sr Territory Sales Officer
Mr Naveen Kumar SA	Territory Sales Manager	Mr Kishore Padma	Sr Territory Sales Officer
Mr T Henry Benil Kumar	Territory Sales Manager	Mr Lakshmikanthan D	Sr Territory Sales Officer
Mr Narender Kumar	Territory Sales Manager	Mr Ajeet Singh Sengar	Sr Territory Sales Officer
Mr Akbar H Kadwani	Territory Sales Manager	Mr Prahar Patel	Sr Territory Sales Officer
Mr Gagan Tiwari	Territory Sales Manager	Mr Prakash Rathore	Sr Territory Sales Officer
Mr Tirthankar Mukhopadhyay	Territory Sales Manager	Mr Vineet Sharma	Sr Territory Sales Officer
Mr Arunava Chakraborty	Territory Sales Officer	Mr Pradeep Kumar Tyagi	Sr Territory Sales Manager
Mr Pritam N Gite	Territory Sales Officer	Mr Sandeep Kumar Singh	Sr Territory Sales Manager
Mr Amit Verma	Territory Sales Manager	Mr Akash Deep Deb	Sr Territory Sales Manager
Mr Sudipto Chatterjee	Territory Sales Manager	Mr Gunasekaran M	Sr Territory Sales Officer
Mr Sumit Chopra	Territory Sales Manager	Mr Ramesh Kumar Sahay	Sr Territory Sales Manager
Mr P Sunil Chakrapani	Territory Sales Officer	Mr S Tamil Mani	Sr Territory Sales Officer
Mr Manish Kumar Yadav	Territory Sales Manager	Mr Harsha M	Sr Territory Sales Officer
Mr Arun VA	Territory Sales Manager	Mr Sujoy Bose	Sr Territory Sales Officer
Mr Sherry P George	Territory Sales Officer	Mr Gaurav Kuthiala	Sr Territory Sales Officer
Mr Ajay Bhaya	Territory Sales Officer	Mr N Chandra Shekar	Sr Territory Sales Manager
Mr R Kamesh Mani	Brand Sales Manager	Mr Rashid Khan	Brand Sales Manager
Mr Haresh Babu	Brand Sales Manager	Mr Rohit Chauhan	Brand Sales Manager
Mr Amitav Sarkar	Regional Sales Manager		

Central Audio-Visual Unit

Six international and regional awards for LVPEI videos were the highlights of the year for the Central Audio-Visual Unit. Prizes were won by Dr G Chandra Sekhar, Dr Sirisha Senthil, Dr Virender S Sangwan, Dr Anil K Mandal, Dr Surbhi Joshi, Dr Santosh G Honavar, Dr Avinash Pathengay, and Dr Savari Desai.

Details in Honors & Awards, page 34

Videos Edited (surgical) – 379; Videos Produced – 35

- ✦ 20 years of comprehensive care for children with congenital glaucoma – Dr Anil K Mandal
- ✦ Botulinum toxin: Therapeutic applications in oculoplastics – Dr Swathi Kaliki, Dr Milind N Naik
- ✦ Ahmed™ Glaucoma Valve (AGV™) with Boston keratoprosthesis – Dr Sirisha Senthil, Dr Mukesh Taneja, Dr V S Sangwan
- ✦ Management of pediatric cataract – Dr Amit Gupta, Dr R Muralidhar
- ✦ Sutureless oral mucus membrane graft in management of ocular sequelae of Stevens Johnson Syndrome: Works wonders – Dr Surbhi Joshi, Dr Santosh G Honavar
- ✦ Suturing techniques for beginners – Dr Swathi Kaliki, Dr Milind N Naik
- ✦ Management of intra-operative and postoperative complications with Ahmed Glaucoma Valve implant – Dr Sirisha Senthil
- ✦ Ocular surface squamous neoplasia: Tips and tricks – Dr Savari Desai, Dr Santosh G Honavar
- ✦ An extraordinary foreign body – Dr Milind N Naik, Dr Manju Meena
- ✦ Hyaluronic acid filler in the management of congenital eyelid malposition – Dr Milind N Naik, Dr Manju Meena
- ✦ Pellucid marginal corneal degeneration: An update – Dr MS Sridhar, Dr Pravin K Vaddavalli
- ✦ Sebaceous gland carcinoma: The leading masquerade – Dr Santosh G Honavar, Dr Surbhi D Joshi
- ✦ Shield ulcer complication of vernal keratoconjunctivitis: Not a true ulcer – Dr MS Sridhar, Dr Pravin K Vaddavalli
- ✦ Surgical management of a complicated cataract following trabeculectomy in a 85-year-old patient – Dr Anil K Mandal, Dr Ratnesh Sharma
- ✦ Simultaneous trabeculectomy and scleral fixated IOL implantation in the management of unilateral aphakia and co-existing glaucoma – Dr Sirisha Senthil, Dr G Chandra Sekhar
- ✦ Management of failing filtering bleb – Dr Sirisha Senthil
- ✦ Bow tie technique – Dr Manjushree Bhate
- ✦ Short tag technique – Dr Manjushree Bhate
- ✦ Lighting up lives: eye donation – Sai Sashanka Paladugu (BITS student), Shobha Mocherla, Brinda Ramchandran
- ✦ MIVS Wound Construction Technique – Dr Raja Narayanan
- ✦ Management of bleb leak – Dr Sirisha Senthil
- ✦ Opting for optometry – Dr Shrikanth Bharadwaj
- ✦ Ophthalmology training in India – Dr Tarjani Dave, Dr Santosh G Honavar
- ✦ Teacher of teachers: Dr Namperumalsamy – Dr Sirisha Senthil
- ✦ Eye-PEP 2010 menu based multimedia DVD
- ✦ EyeSmart Electronic Medical Records (EMR) connecting technology & eye care – Dr Antony Vipin Das
- ✦ Combined trabeculotomy-trabeculectomy in infantile glaucoma with acute hydrops – Dr Anil K Mandal
- ✦ Combined trabeculotomy-trabeculectomy in congenital glaucoma with SWVS – Dr Anil K Mandal
- ✦ The OPAI 2009-2010 video yearbook – Dr Milind Naik
- ✦ Surgical outcome of early onset glaucoma in children with Axenfeld-Riegers Anomaly – Dr Anil K Mandal, Dr Pradeep K Reddy
- ✦ Applanation tonometry (educational video with ALCON's support) – Dr Sirisha Senthil
- ✦ Portable tonopen (educational video with support from Alcon) – Dr Vanita Pathak-Ray
- ✦ MRD video medical records filing and maintenance – Kishore Babu
- ✦ Cataract surgery counseling (Telugu) – Manjula ES, Dr Sirisha Senthil
- ✦ Congenital glaucoma – A learner's perspective – Dr Aparna Rao

Prof Brien Holden Eye Research Centre

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

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

Research Profile

Research at HERF is focused on:

- a) the molecular and functional genomics of inherited and complex eye diseases,

- b) devising molecular diagnostics for early detection and seeking targets where effective intervention can occur,
- c) microbiology of eye infections, and
- d) stem cell technology to treat some eye disorders.

New Developments During the Year

Research at HERF has progressed smoothly with two new additions this year. Besides our continuing work in the areas of molecular and functional genetics of eye diseases, cell biology and stem cell-based therapy for damaged corneas, and microbiology of eye infections, we added two new themes. One is the work initiated by Dr Shrikant R Bharadwaj in the area of the development of vision in infants – eye movements, coordination and binocular vision. This is a new area involving physiological optics and related areas of vision science. The other is a Wellcome Trust bilateral grant that we have received in the area of Research & Development for Affordable Healthcare in India. In this project, we will be evaluating a biocompatible synthetic polymer sheet on which we grow limbal stem cells and compare this with culturing on human amniotic membrane. Dr Virender Sangwan is leading this project and cell biologists Drs M Indumathi and Charanya Ramachandran are involved in the experiments.



The other pleasant news is that the Indian Department of Biotechnology (DBT), which has been funding our work through a 'program support' mode, has been satisfied with our progress and has asked us to apply for expansion of the project into a 'Centre of Excellence' (CoE) mode. This would allow us to initiate dream projects such as (a) studying the genetic epidemiology of eye diseases, by studying the same 5000 subjects whom we had examined under a previous study, the Andhra Pradesh Eye Disease Study (APEDS) over a decade ago, and (b) initiate gene therapy work on patients with the condition called Leber Congenital Amaurosis. We are hoping that this CoE proposal will be successful.

Support and Recognition

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

Likewise, collaborative research has been initiated with colleagues in Australia, Canada, Japan, Brazil and Tunisia through the DBT-sponsored bilateral Indo-Australian and Indo-Canadian programs and the DST-sponsored India-Japan, Indo-Tunisian and Indo-Brazilian programs. In addition, HERF is one of the four pillars of the multinational research and development group called Vision Cooperative Research Centre (operating from Sydney, Australia), and conducts research on its behalf on a series of clinical studies such as antibacterial contact lenses and corneal onlays.

The Institute is recognized as an external research centre by the University of Hyderabad, Hyderabad; Birla Institute of Technology & Science (BITS), Pilani; and the University of New South Wales, Sydney, Australia. This enables research scholars from LVPEI to register with, and obtain their PhD degrees from these universities. Collaborative research has also been forged with colleagues at the Centre for Cellular & Molecular Biology (CCMB), Centre for DNA Fingerprinting & Diagnostics (CDFD), and University of Hyderabad – all in Hyderabad, at the Indian Institute of Science, Bangalore, and Indian Statistical Institute (ISI), Kolkata. These have allowed researchers at LVPEI to access state-of-the-art equipment and sophisticated facilities at these institutions.

Clinical Research

LVPEI's multidisciplinary clinical research is of international standards and is sponsored by Indian funding agencies and multinational companies from USA and France. The group conducts not only intramural clinical research, but also participates in multicenter clinical trials. Each clinical research project and trial goes through a rigorous

examination by an independent Institutional Review Board (IRB), for its scientific and ethical aspects and only those that are approved are taken up. A list of clinical research projects currently being conducted at HERF is given later in the section.

Champalimaud Translational Centre

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

Research at C-TRACER will focus on the following areas:

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

Fourth Annual Antonio Champalimaud Research Symposium

The Fourth Annual Antonio Champalimaud Research Symposium was held on January 30, 2011. The Champalimaud Keynote Oration was given by Professor Narsing A Rao of Doheny Eye Institute, University of Southern California, Los Angeles on various aspects of uveitis. This was followed by talks by Dr Kanuri VS Rao of the International Centre for Genetic Engineering & Biotechnology, New Delhi, who spoke on the system biological approach to drug targets in tuberculosis, Professor Pawan Sinha of MIT, Cambridge, MA, USA on the neural rewiring occurring in children after they have been provided surgical treatment for congenital cataract, Professor Jose Cunha-Vaz of AIBILI, Coimbra, Portugal on biomarkers for the progression of diabetic retinopathy, and Dr Joaquim Murta of the ophthalmology department of the University of Coimbra, Portugal on corneal transplantation and its future trends.

Hyderabad Eye Research Foundation

Ethics Committee

Chair

Justice T N C Rangarajan

Former Judge, High Courts of Madras and Andhra Pradesh
Hyderabad

Member Secretary

Dr Harsha BL Rao

Ophthalmologist, L V Prasad Eye Institute
Hyderabad

Members

Dr Padmaja Kumari Rani

Ophthalmologist, L V Prasad Eye Institute
Hyderabad

Dr Subhabrata Chakrabarti

Scientist, L V Prasad Eye Institute
Hyderabad

Dr Usha Raman

Associate Professor
University of Hyderabad
Hyderabad

Ms Gayathri Ramachandran

Retired IAS officer
Hyderabad

Dr Madhukar Reddy

Ophthalmologist, Drishti Eye Clinic
Hyderabad

Dr Nuzhat Aziz

Obstetrician, Fernandez Hospital Pvt Ltd
Hyderabad

Dr Roy Verghese

Consultant physician, Elbit Diagnostics
Hyderabad

Research Advisory Board

Prof Dipankar Chatterji

Molecular Biophysics Unit
Indian Institute of Science, Bangalore

Dr Alka Sharma

Joint Director
Department of Biotechnology
New Delhi

Dr Anuradha Lohia

CEO
Wellcome Trust – DBT India Alliance
Hyderabad

Dr Ghanshyam Swarup

Scientist
Centre for Cellular & Molecular Biology
Hyderabad

Prof D Balasubramanian

Director of Research
L V Prasad Eye Institute
Hyderabad

Dr Ch Mohan Rao

Director
Centre for Cellular & Molecular Biology
Hyderabad

Dr Seyed E Hasnain

Professor, Biological Sciences
Indian Institute of Technology
New Delhi

Lt Gen D Raghunath

Principal Executive
Sir Dorabji Tata Centre for Research in Tropical Medicine
Indian Institute of Science Campus, Bangalore

Plus scientist members of Hyderabad Eye Research Foundation Board

Research Projects

Program support on translational research on eye diseases

Investigators: D Balasubramnian, Chitra Kannabiran, Geeta K Vemuganti, Subhabrata Chakrabarti, Inderjeet Kaur

Support: Department of Biotechnology, India (Program support grant)

India has about 15 million blind people. Of these, about 10 million are cataract blind, about 1.2 million are blind due to uncorrected refractive errors, and another 1.0 million due to infection of the eye. All these are easily managed through effective national level programs since, in each of these cases, ready and effective solutions are available, and no new research is needed. But the rest of the blindness burden is due to corneal dystrophies, glaucoma, retinal disorders and inherited problems. In these instances, basic research and its application and translation are badly needed. Fortunately, the status of research in these areas in India is of the same level and quality as elsewhere, and the connection between basic researchers and clinicians is good and mutually

productive, particularly in ophthalmology. We need to take advantage of this combination and hence the need for translational research on eye diseases.

The program has the following R&D projects:

Focal Theme 1: Stem Cell Biology and Therapy

Project A: Establishment of a centre for translational research in stem cells

Focal Theme 2: Molecular Genetics of Ocular Diseases

Project B: Translational research in the genetics of retinal diseases

Project C: Molecular genetic study of retinopathy of prematurity

Project D: Identifying candidate genes associated with raised intraocular pressure in primary open angle glaucoma

Project E: Molecular phenotyping of genetic mutations leading to eye disorders – functional studies on the disorder associated proteins

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

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

Investigators: Inderjeet Kaur, Ganeswar Musadda, Sonika Rathi, Subhadra Jalali, Padmaja K Rani, Subhabrata Chakrabarti

Support: Department of Biotechnology, India

Retinopathy of prematurity (ROP) is a leading cause of blindness in premature children and one of the priority areas of WHO's VISION 2020: The Right to Sight global initiative. In order to understand the underlying genetic etiology contributing to this complex disorder, an assessment of its incidence along with maternal and neonatal risk factors was done at LVPEI, with collaborating neonatal intensive care units at Hyderabad, India. The initial study revealed a significant difference in the incidence of ROP amongst singletons and twin cohorts and the gestational age of less than 30 weeks was a significant maternal risk factor. A comprehensive genetic analysis of candidate genes involved in the development of early retinal vasculature and angiogenesis by customized genotyping and resequencing is in progress. Additionally, the vitreous humor levels of growth factors and genes involved in angiogenesis is being assessed in patients with advanced stages of ROP by multiplex bead array method to assess the concordance between the protein expression and genetic association data. Candidate gene screenings on cases of familial exudative vitreoretinopathy (FEVR) are under way, which would be followed by genotype-phenotype correlation.

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

Investigators: Subhabrata Chakrabarti, Anil K Mandal, Ivan M Tavares,¹ Jose P C Vasconcellos,² Monica Mello²

Support: Department of Science and Technology, India (Indo-Brazil collaborative program)

Primary congenital glaucoma (PCG) results in an irreversible blindness in children and is largely attributed to mutations in the *CYP11B1* and *LTBP2* genes. While the estimates of mutation frequencies vary widely across populations, there are subtle commonalities with respect to the prevalent mutation among different populations that occur on a uniform haplotype background. The mutation spectrum of *CYP11B1* among PCG patients from Brazil and India provides a unique opportunity to unravel the similarities and dissimilarities in the genetic basis of PCG patients and further decipher their origin and migration across these populations.

Central India Eye and Medical Diseases Study

Investigators: Subhabrata Chakrabarti, Jonas Jost,³ Vinay Nangia,⁴ Inderjeet Kaur

Support: University of Heidelberg, Germany

The Central India Eye and Medical Diseases Study (CIEMS) is a clinical and population genomic study in a rural central Indian region (Nagpur) on 5000 individuals over 40 years of age. It aims to dissect the underlying clinical and genetic mechanisms in various ocular and other systemic diseases in order to understand their

¹Vision Institute, Federal University of Sao Paulo, Brazil ♦ ²Campinas State University, Sao Paulo, Brazil ♦ ³Department of Ophthalmology, University of Heidelberg, Mannheim, Germany ♦ ⁴Suraj Eye Institute, Nagpur, India

prevalence and etiology. The clinical and genetic risk factors in different ocular traits are being characterized through genome-wide association studies, candidate gene screening, genotype-phenotype correlation and gene-environment interactions.

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

Investigators: Subhabrata Chakrabarti, Anil K Mandal, Guemira Fethi,¹ E A Mhd Ali,² Douik Hayet,² G Abderraouf,³ Harzallah Latifa,³ Jihene Bouassida³

Support: Department of Science and Technology, India (Indo-Tunisia collaborative program)

Primary congenital glaucoma (PCG) attributed to mutations in the *CYP11B* gene affects different populations worldwide. These mutations exhibit a strong geographical clustering based on a uniform haplotype background as evidenced from the mutation spectrum among PCG patients in Morocco, Saudi Arabia and India. So far, there are no reports on the genetics of PCG in Tunisia. In the present study, we have characterized that a specific mutation G61E among Tunisian patients may have a strong founder effect as seen in Saudi Arabians. The current analysis addresses the similarities and dissimilarities in the genetic basis of PCG in Tunisia and India and aims to understand the origin and migration of common mutations such as G61E across these two populations.

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

Investigators: Subhabrata Chakrabarti, Partha P Majumder,⁴ Luba Kalaydijeva,⁵ Inderjeet Kaur, Anil K Mandal, K Narayanasamy,⁶ Jamie Craig,⁷ Ivailo Tournev,⁸ Silvia Cherninkova⁸

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

In continuation of the ongoing genetics work in PCG, the present study is based on identifying the n characterized genes in PCG through the model of human evolution. The premise is based on the background of the evolution and migration of gypsies from India. The cohort comprises an isolated population (gypsies) derived from an ancestral population (Indian), which was founded in the recent timescale of evolution, as a result of which it would have undergone a minimum number of genetic recombinations. The study employed GWAS methods in PCG cases that do not harbour *CYP11B* mutations and controls in both the cohorts using the 1.8 million SNP Affymetrix array to delineate large regions of homozygosity and shared haplotypes. These shared regions between the two groups would be further refined by targeted sequencing to discover the causal mutations PCG.

Genetics of Lebers Congenital Amaurosis (LCA)

Investigators: Chitra Kannabiran, Rachna Shukla, Neerja Sharma, Subhadra Jalali

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

Retinal dystrophies are degenerative disorders of the retinal photoreceptors resulting in irreversible blindness. They are caused by single gene defects and are extremely heterogeneous in genetic causation. We are studying the genetics of different types of dystrophies including congenital forms (LCA) and later-onset forms. Screening of LCA genes is being done in >130 cases with LCA. This has revealed pathogenic changes in a few patients. Further studies will help determine the frequency of known LCA gene mutations in Indian patient populations.

Identification of genes causing Retinitis Pigmentosa (RP)

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

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

Retinitis pigmentosa is one of the major forms of incurable blindness across the world. It is a genetic disorder that is inherited in different Mendelian, mitochondrial forms and is extremely genetically heterogeneous. We are using homozygosity screening to localize and identify genes responsible for recessive RP. Novel mutations have been identified in a subset of families. In the case of dominant RP, we used linkage mapping to localize the gene to chromosome 6. Further studies are in progress to identify genes for both dominant and recessive RP in Indian families.

Genetic and functional studies in congenital hereditary cataract

Investigators: Chitra Kannabiran, Surya Prakash G Ponnam, Ramesh Kekunnaya, Jyoti Matalia,⁹ Sushma Tejwani,⁹ BSR Murthy,¹⁰ Ghanshyam Swarup,¹¹ Linda Musil¹²

Support: Council of Scientific & Industrial Research, India

Congenital hereditary cataracts occur in infants and children and are inherited as single gene defects commonly through autosomal dominant and recessive modes of inheritance. We carried out a genetic screen of several known genes for hereditary cataract in several families with autosomal forms of cataract. Interesting pathogenic mutations found in gap junction protein gene including the connexin-50 protein were studied further by cloning and expression in cell lines. We found that a connexin-50 frameshift mutation that causes recessive cataract fails to localize to the cell membrane and is retained within the endoplasmic reticulum. These observations suggest a basis for this mutant protein to cause cataract.

¹Institut Salah Azaiz, Tunis, Tunisia ♦ ²Service d'Ophthalmologie, Habib Thameur Hospital, Tunis, Tunisia ♦ ³Service de Biologie Clinique, Institut Salah Azaiz, Tunis, Tunisia ♦ ⁴Indian Statistical Institute, Kolkata ♦ ⁵University of Western Australia, Perth, Australia ♦ ⁶The Centre for Genomic Applications, New Delhi ♦ ⁷Department of Ophthalmology, Flinders University, Australia ♦ ⁸Medical University, Sofia, Bulgaria ♦ ⁹Narayana Nethralaya, Bangalore ♦ ¹⁰Arvind Eye Hospital, Hyderabad ♦ ¹¹Centre for Cellular and Molecular Biology, Hyderabad ♦ ¹²Oregon Health and Science University, Portland, Oregon, USA

Characterization of the SLC4A11 gene responsible for corneal endothelial dystrophy

Investigators: Chitra Kannabiran, Neerja Sharma

Support: Champalimaud Foundation, Portugal

Our previous studies involved mapping and identification of the causative gene for the recessive form of congenital hereditary endothelial dystrophy (CHED), a disease involving corneal opacities in infants and young children. The gene identified by us and others was the sodium bicarbonate transporter-related gene, *SLC4A11*. We are studying the wild type and mutant proteins (found in CHED patients) encoded by this gene in order to understand its properties and its pathogenic basis using suitable cell lines.

Jhaveri Microbiology Centre

Loop-mediated isothermal amplification method for the diagnosis of viral retinitis caused by Herpes Simplex, Varicella Zoster and Cytomegalo Viruses

Investigators: G Ashok Kumar Reddy,¹ B Praveen Kumar, Inderjeet Kaur, Rajeev Kumar Reddy, Annie Mathai

Support: Department of Science and Technology, India

This project aims at developing a novel nucleic acid amplification method called loop-mediated isothermal amplification (LAMP) for the diagnosis of viral retinitis, caused by Herpes Simplex, Varicella Zoster and Cytomegalo Viruses. The most significant advantage of LAMP is the ability to amplify specific sequences of DNA under isothermal conditions between 63°C and 65°C, thereby obviating the need for a thermal cycler. Detection of the amplification is achieved simply by a change of color with the addition of SYBER green dye.

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

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

Investigators: Virender S Sangwan, D Balasubramanian, Indumathi Mariappan, Geeta K Vemuganti, Sheila Macneil²

Support: Wellcome Trust, United Kingdom

When the outer epithelial layer of the cornea is damaged by chemical or fire burns, vision is compromised. In certain situations, it is possible to use stem cell therapy to generate a functional outer corneal layer, by isolating

Genetics of retinoblastoma

Investigators: Chitra Kannabiran, Vidya Latha Parsam, Md Javed Ali, Santosh Honavar, Geeta Vemuganti

Support: Champalimaud Foundation, Portugal

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

Molecular characterization of nonsporulating filamentous fungi isolated from microbial keratitis

Investigators: G Ashok Kumar Reddy, Prashant Garg, Usha Gopinathan, Chitra Kannabiran

Support: Council of Scientific & Industrial Research, India

Microbial keratitis remains a leading cause of blindness worldwide. Among severe infective forms of keratitis, fungal keratitis is the most common in many developing countries like China, India, Ghana and Nepal. More than 105 species of fungi, classified in 56 genera, have been reported to cause mycotic keratitis. Of the different filamentous fungi isolated from mycotic keratitis there were a significant number of unidentified fungi due to lack of sporulation. Accurate identification of these fungi is essential for the selection of appropriate antifungal drugs for treating these infections. The aims of the study are assessing the species distribution of nonsporulating molds isolated from patients with mycotic keratitis by molecular methods and studying the treatment outcome of keratitis caused by nonsporulating molds.

¹GHR Micro Diagnostics, Hyderabad ♦ ²University of Sheffield, UK

at Sheffield University promises to be valuable. In this proposal, we aim to develop and clinically evaluate the use of the polymer membrane as a replacement for the human amniotic membrane. If successful, this will provide a safer, affordable, and more accessible alternative to the human amniotic membrane.

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

Investigators: Indumathi Mariappan

Support: Department of Science & Technology, India

The ciliary margin zone is known to harbor retinal stem cells in lower vertebrates and plays an active role in the regeneration of the adult retina. Proliferating stem-like cells were also reported in the ciliary-pigmented epithelium (CPE) of higher mammals like the mouse and rat. These CPE cells were shown to differentiate into RPE cells and retinal neurons including the photoreceptor cells. This study aims to culture and characterize the human ciliary-pigmented epithelium derived retinal stem cells (RSCs) using donor eyeballs collected from the eye bank (after the removal of the corneo-scleral discs for corneal transplantation) as the tissue source and to identify suitable culture conditions for the differentiation of RSCs into different retinal cell types.

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

Investigators: Virender Sangwan, Indumathi Mariappan

Support: Indo-Australian Biotechnology Fund, Department of Biotechnology, India

This project aims to produce surface modified therapeutic contact lenses for in vitro culture and delivery of limbal epithelial cells for the treatment of ocular surface diseases. The project also includes a 'proof of concept' clinical trial in order to establish the safety and efficacy of this technique in comparison to the established technique of corneal epithelial transplantation using human amniotic membrane (hAM) as a culture substrate. Plasma polymer coating technique allows exact control over the film thickness and with an appropriate chemistry; we anticipate that this technique would offer a better alternative to hAM for culturing limbal epithelial cells and their subsequent delivery on to the corneal surface.

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

Investigators: Geeta K Vemuganti, Santosh G Honavar, Vijay Anand P Reddy¹

Support: International Atomic Energy Agency, Austria

Dry eye condition due to failure or improper tear fluid secretion by lachrymal glands is a serious problem in patients undergoing radiation treatment for ocular tumors. With the aim of providing cell therapy for treating

lacrimal gland dysfunction, our group has initiated work on culturing lacrimal gland cells using tissues that were harvested from patients undergoing exenteration. The preliminary results show that the lacrimal gland epithelial cells (LGEC) can be isolated from the source tissues by using an collagenase and hyaluronidase enzyme cocktail and can be cultured on denuded human amniotic membrane, matrigel and collagen. Further characterization of the cultured cells is in progress.

Evaluation and characterization of cancer stem cells in retinoblastoma tumor

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

Support: Indian Council of Medical Research, India

It is believed that a tumor tissue originates from a mutated stem cell and these stem-like cancer cells could influence disease prognosis and response to therapy. This study attempts to identify stem-like cells present in retinoblastoma tumors by characterizing different subpopulations of cells based on their light scatter properties and differential marker expression by FACS analysis. Our results indicate the presence of two different cell types in Rb tumors. The small cells designated as FSC_{low}/SSC_{low} were positive for CD44 and negative for CD133, CXCR4 and CD90 and the large cells designated as FSC_{high}/SSC_{low} were positive for all the above markers. RT-PCR analysis revealed that the sorted FSC_{low}/SSC_{low} cells expressed high levels of retinal progenitor markers PROX1 and Syntaxin1A and, therefore, could represent the stem-like cells of Rb tumors.

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

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

Support: Department of Biotechnology, India

Retinal dystrophy is a genetic disorder and also an age related disease resulting in gradual degeneration of the photoreceptors and the RPE cells. Therefore, cell replacement therapy offers great promise in treating such diseases. However, an adult human retina does not harbor any stem cells to regenerate the lost cells. This has initiated a search for suitable cell sources that can give rise to the retinal cells. Recently, it was shown that adult somatic cells can be reprogrammed to ES-like cells by ectopic expression of certain genes implicated in stemness and pluripotency. These cells were christened as induced pluripotent stem cells (iPSCs). Our group has initiated basic research towards exploring the feasibility of using iPSC cells generated from adult dermal fibroblasts as the stem cell source for deriving retinal cells. Towards this direction we have derived and characterized miPS lines and also established protocols for differentiating them into RPE cells. Efforts are now directed towards establishing patient-specific human iPSC cells.

¹Apollo Hospitals, Hyderabad

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

Investigators: Santosh G Honavar, Geeta K Vemuganti

Support: National Childhood Cancer Foundation, USA

The objectives of the study are:

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

Expected outcomes: The event-free survival and overall survival distributions will be estimated for patients with high-risk features (treated with adjuvant chemotherapy) and separately for subjects without high-risk features (treated with enucleation alone). Toxicities associated with the adjuvant therapy for patients with high-risk

features will be descriptively summarized. The study is still in the active recruitment phase.

Indian Council of Medical Research National Retinoblastoma (ICMR) Registry

Investigators: Santosh G Honavar, Vijay Anand P Reddy, Himika Gupta

Support: Indian Council of Medical Research, India

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

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

Research in Biochemistry

Protein structural analysis of the dichotomy in the cataract phenotypes seen associated with various mutations in human gamma – crystallin

Investigators: D Balasubramanian, V Pulla Rao Vendra

Support: Department of Biotechnology, India

Over 16 mutations seen in gamma crystallin genes are associated with congenital cataracts. Our analysis shows an intriguing dichotomy; mutations in the N-terminal domain (N-td) of these two-domain proteins are associated with peripheral cataracts, while those in the C-terminal domain (C-td) lead to nuclear cataract. We investigated this dichotomy by comparing the structural properties of the various mutant proteins. We chose to work with human gamma-D- crystallin (HGDC) as the representative protein, since its structure both in the crystalline and solution state are known. The cDNAs of wild type (wt), and various mutants were cloned, and the resultant proteins isolated. The conformational properties and structural stability of the proteins were

compared using spectroscopic analysis. Their ability to bind Ca^{2+} was studied using the mimic dye Stains-all. Comparative modeling of wt and mutants was also done. We found that: (1) C-td mutants are far less soluble than the wt or N-td mutants; (2) N-td mutants, while structurally very similar to wt, display minor 'sticky patches' in their tertiary structure, promoting inter-protein aggregation, whereas C-td mutants expose a far larger number of apolar residues; (3) while wt and N-td mutants bind to the Ca^{2+} -mimic dye Stains-all, C-td mutants do so far weaker, suggesting that the Greek Key folds (Ca^{2+} binding sites) in the C-terminal domain are disturbed in them but maintained in the N-td mutants. We conclude that partial unfolding of the C-terminal structural motif in the C-td proteins (not seen in the N-td mutants) destabilizes the structural integrity and stability, causing rapid aggregation, weakened Ca^{2+} binding and possible activation of proteolysis, while N-tds display 'native state aggregation'. These structural differences between the N-td and C-td mutants appear to lead to the phenotype differences.

Visual Optics and Psychophysics Laboratory

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

Investigators: Shrikant R Bharadwaj, Geeta Sravani, Asa Narasaiah, Vaishnavi Raghuram, Vivek Labhisetty, Samrat Sarkar

Support: Ramalingaswami Fellowship, Department of Biotechnology, Government of India

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

Focusing and eye-alignment responses will be stimulated using a custom-designed (in collaboration with the Indiana University School of Optometry) stimulation channel and these responses will be recorded using non-invasive photorefractometry and eye-tracking techniques. The equipment is fully calibrated and experiments are currently underway to understand the characteristics of focusing and eye-alignment in the presence of differences in retinal image quality in the two eyes (Anisometropia).

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

Investigators: Shrikant R Bharadwaj, Veerendranath Pesala, Sangeetha Srinivasan, Ramesh Raskar,¹ Vitor Pamaplona¹

Support: Ramalingaswami Fellowship, Department of Biotechnology, India

Uncorrected refractive errors (short-sightedness, long-sightedness, etc) are the largest cause of avoidable blindness in rapidly developing countries like India. The effectiveness of population-based vision screening programs will be significantly enhanced by employing a rapid, cost-effective and quantitative method for estimating these refractive errors. A novel cell-phone based technique (NETRA) has been designed to rapidly quantify the refractive-error status of the eye by the Camera Culture Group at MIT, Boston and we are involved in the clinical testing and calibration of this device to ensure its worthiness to be used as a screening tool in the community.

The optical set-up of NETRA consists primarily of a microlens array that is retrofit on a high-resolution cell-phone to display a spatially resolved pattern of red-green lines to the subject. Refractive error is estimated by the patient (with or without the aid of a technician) by aligning the red-green patterns using a custom-designed user-interface on the cell-phone. The data gets stored on the cell-phone and can be retrieved using standard data transfer procedures. The results on 30 adults thus far show that the refractive errors estimated by NETRA are within $\pm 0.5D$ of standard clinical refraction measurements – basically, NETRA performs very closely to standard clinical procedures. The key to the success of NETRA is threefold: 1) its cost-effectiveness, 2) type of cell-phone used and 3) the ease of the user-interface. The projected cost of the optical set-up is a mere \$2 (excluding the cell-phone). In its current state, NETRA requires a high-end cell phone with good spatial resolution. The red-green patterns projected in the cell-phone should have a good resolution to support the precise measurement of refractive error. Efforts are under way to make NETRA usable on any regular cell-phone. The instructions for user-interface are currently in English and efforts are also under way to provide instructions in the local languages.

¹Camera Culture Group, Media Labs, MIT, Boston, USA

Ocular Microbiology Service, LVPEI, Bhubaneswar

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

Investigators: Savitri Sharma, DV Singh¹

Support: Department of Science and Technology, India

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

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

Investigators: Savitri Sharma, Ashok Reddy, BNR Subudhi,² Sujata Das, Srikant K Sahu, Somasheila Murthy

Support: Department of Biotechnology, India

Epidemic keratoconjunctivitis (EKC), characterized by inflammation of the conjunctiva and cornea, produces a sudden onset of acute follicular conjunctivitis and stromal keratitis and is a worldwide problem causing significant and sometimes lasting morbidity. Human adenoviruses

(HAdVs) HAdV-D8, -D19, and -D37 are believed to be the most common pathogens causing EKC. It is only recently that another organism has come to be associated with EKC. We observed a seasonal outbreak of EKC that clinically mimicked viral EKC but was proven to be a microsporidial infection by laboratory investigations. Though EKC is usually caused by adenovirus type 8, 19 and 37, the association of microsporidia with EKC has not been studied so far.

In this study, we plan to investigate the seasonal EKC that occurs in Orissa and other parts of the country year after year. The study will determine the clinical spectrum of the disease in patients and characterize the adenovirus and microsporidia isolated from patients with epidemic keratoconjunctivitis. The study will also investigate the presence of microsporidia/adenovirus in the eyes of healthy individuals and patients with diseases other than keratoconjunctivitis. Fifty patients with EKC have been recruited in the study and their corneal scrapings have been tested by microscopy and PCR for microsporidia and adenoviruses. Sequencing studies are being undertaken to find the species and serotypes involved.

Co-relation of mycobacterial DNA load in aqueous humor measured by real-time polymerase chain reaction with clinical characteristics of presumed ocular tuberculosis (BOYSCAST fellowship)

Investigator: Soumyava Basu

Support: Department of Science and Technology, India

Real-time PCR was performed using DNA extracted from aqueous/vitreous humor samples with hydrolysis probes, dually labeled with fluorescein and a dark quencher. Specific primers targeting the IS6110 multicopy element of *M tuberculosis* were designed and matched to respective probes in UPL web-based system. DNA amplification was performed using the Light Cycler 480 platform (Roche Applied Science, Indianapolis, IN), with all samples being tested in triplicate. Five samples from four patients have been analyzed with the following results:

Patient	Diagnosis (sample)	Real-time PCR	Bacterial genome load (in grams)
1a	Anterior Uveitis (Diluted vitreous)	Negative	–
1b	Anterior Uveitis (Undiluted vitreous)	Negative	–
2	Panuveitis (aqueous)	Positive	1.15×10^{-14}
3	Neuroretinitis (aqueous)	Negative	–
4	Posterior Uveitis (aqueous)	Positive	2.23×10^{-13}

¹Institute of Life Sciences, Bhubaneswar ♦ ²MKCG Medical College, Berhampur, Orissa

Research scholars at Prof Brien Holden Eye Research Centre

BASIC RESEARCH

Kallam Anji Reddy Molecular Genetics Laboratory

Indu Shree Rajan Babu, Neeraja Sharma Cherukupalli, Saritha Katta, Srujana Nagireddy, Vidya Latha Parsam, Surya Prakash Goud Ponnamp, Ganeswara Rao, K Nageswara Rao, Sonika Rathi, Nishika Sahini, Rachna Shukla

Sudhakar & Sreekanth Ravi Stem Cell Biology Laboratory

Subhash Gaddipati, Subba Rao M, Savitri Maddileti, Rohini Nair, Naresh Poliseti, Purushotham Reddy, Raja Lakshmi S, Murali Mohan Sagar, Shubha Tiwari, Vasundhara Vauhini, Mangalangi U

Research in Biochemistry Laboratory

Venkata Pulla Rao

Jhaveri Microbiology Centre

Praveen Kumar Balne

Post-doctoral research associates

Madhavi Latha Chalasani, Charanya Ramachandran

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Study Optometrists

Bidula Das, Rekha G, Anand K, Debasis Mohapatra, Veerendranath Pasala, Bikash Samal, Mukesh Kumar Singh

Clinical Research Coordinators

Samuel Clement, Sateesh Kumar, Bikash Chandra Mohanta, Bibhudatta Mohanty, Savitha Narayan, K M Prashanti, Sreedevi Rayasam, Preeti Semwal, Suman Thadishetti, Vishal Vennu

Support staff

Shobha Laxmi, Lokesh, Aparajita Mallick, Laxmipriya Pattanaik, Rupasree, Susant Kumar Sahoo, Preeti Tornal

LVPEI, Bhubaneswar

Ocular Microbiology Service

Sarita Kar, Praveen Kumar Balne

PhDs awarded in 2010

Kovai Vilas (University of New South Wales, Sydney, Australia)

Guru Prasad Manderwad (Birla Institute of Technology & Science, Pilani)

Naresh Poliseti (University of Hyderabad)

K Purushotham Reddy (Birla Institute of Technology & Science, Pilani)

Basic Research Projects

Name of the Project	Project Investigators	Supported by	Duration
Genetic evaluation of factor B and complement component C2 in the susceptibility to age related macular degeneration	Dr Inderjeet Kaur	Department of Science & Technology, India	2007-2010
Programme support on translational research on eye diseases	Project A: Dr Geeta K Vemuganti Project B: Dr Chitra Kannabiran Project C: Dr Inderjeet Kaur Project D: Dr S Chakrabarti Project E: Prof D Balasubramanian	Department of Biotechnology, India	2007-2012
Molecular studies on hereditary cataract	Dr Chitra Kannabiran	Council of Scientific & Industrial Research, India	2007-2010
Loop mediated isothermal amplification method for the diagnosis of viral retinitis caused by herpes simplex varicella zoster and cytomegalo viruses	Dr G Ashok Kumar Reddy ¹	Department of Science & Technology, India	2008-2010
Cultivation and characterization of human lacrimal gland cells for potential clinical application for post radiotherapy xerophthalmia	Dr Geeta K Vemuganti Dr Santosh G Honavar Dr Vijay Anand P Reddy ²	International Atomic Energy Agency, Austria	2008-2012
Study of the role of vitreous liquefaction in age-related nuclear cataract	Prof D Balasubramanian Dr Pravin V Krishna	Department of Biotechnology, India	2009-2011
An advanced surface for the cell therapy of limbal epithelium for ocular surface disease: Proof of concept and clinical trials	Dr Virender S Sangwan Dr Indumathi Mariappan	Department of Biotechnology, India	2008-2011
Molecular characterization of nonsporulating filamentous fungi isolated from microbial keratitis	Dr G Ashok Kumar Reddy	Council of Scientific & Industrial Research, India	2009-2012
Evaluation and characterization of cancer stem cells in retinoblastoma tumor	Dr Geeta K Vemuganti	Indian Council of Medical Research, India	2008-2011
Genetic and phenotypic comparison of primary congenital glaucoma in India and Brazil	Dr Subhabrata Chakrabarti Dr Ivan M Tavares ³ Dr Monica Mello ⁴	Department of Science & Technology, India	2009-2012
Central India Eye & Medical Study	Dr Subhabrata Chakrabarti Dr Jonas Jost ⁵	University of Heidelberg, Germany	2009 onwards
Genetic comparison of primary congenital glaucoma in India and Tunisia - understanding the possible founder effects	Dr Subhabrata Chakrabarti Prof G Fethi ⁶	Department of Science & Technology, India	2009-2011
Generation of disease specific induced pluripotent stem cells from dermal fibroblasts of patients with retinal dystrophy	Dr Indumathi Mariappan Dr Chitra Kannabiran Dr Subhadra Jalali Dr Milind Naik	Department of Biotechnology, India	2009-2011
Molecular mechanism of pathogenesis of glaucoma caused by mutation in optineurin	Prof D Balasubramanian Dr Subhabrata Chakrabarti Dr Ghanshyam Swarup ⁷	Department of Biotechnology, India	2010-2013
National Retinoblastoma Registry	Dr Santosh G Honavar Dr Himika Gupta	Indian Council of Medical Research, India	2009-2012
Development of a synthetic biodegradable cell carrier membrane for the transplantation of cultured cells or freshly excised autologous tissue (limbal segments or oral mucosa) for diseases of the cornea	Prof D Balasubramanian Dr Virender S Sangwan Dr Geeta K Vemuganti	Wellcome Trust, UK	2010-2013
Derivation of retinal neurons from ciliary pigmented epithelium of the human eye	Dr Indumathi Mariappan	Department of Science & Technology, India	2010-2013
Preservation and use of adult stem cells and the use of biomaterial scaffolds for clinical applications	Dr Virender S Sangwan Dr Jose D dos Santos ⁸	Department of Science & Technology, India	2011-2014
Ocular infections caused by Staphylococcus species: Study of clinico-microbiologic features, virulence markers and genome profile.	Dr Savitri Sharma Dr DV Singh ⁹	Department of Science & Technology, India	2009-2011
Investigation of epidemic keratoconjunctivitis in Orissa and Andhra Pradesh: Epidemiological profile, clinical spectrum and molecular characterization of causative agents	Dr Savitri Sharma Dr Ashok Kumar Reddy Dr BNR Subudhi ¹⁰	Department of Biotechnology, India	2010-2012
Molecular diagnostics for ocular tuberculosis	Dr Soumyava Basu	BOYSCAST fellowship, Department of Science and Technology, India	2010
Neural control of focusing and eye-alignment during visual development	Dr Shrikant Bharadwaj	Department of Biotechnology Ramalingaswami fellowship	2010-2014

¹GHR Micro Diagnostics, Hyderabad ♦ ²Apollo Hospitals, Hyderabad ♦ ³Vision Institute, Federal University of Sao Paulo, Brazil ♦ ⁴Campinas State University, Sao Paulo, Brazil ♦ ⁵Department of Ophthalmology, University of Heidelberg, Mannheim, Germany ♦ ⁶Institut Salah Azaiz, Tunis, Tunisia ♦ ⁷Centre for Cellular and Molecular Biology, Hyderabad, India ♦ ⁸Biosskin-Rud Eng, Portugal ♦ ⁹Institute of Life Sciences, Bhubaneswar ♦ ¹⁰MKCG Medical College, Berhampur, Orissa

Clinical Research Projects

Name of the Project	Project Investigators	Supported by	Duration
A randomised double-masked active controlled phase 3 study of the efficacy, safety and tolerability of the repeated doses of intra vitreal VEGF trap-eye in subjects with neovascular age related macular degeneration (AMD) View 2 study	Dr Taraprasad Das Dr Raja Narayanan	Bayer HealthCare, Germany	2008-2011
Comparative, randomized, open trial on the anti-inflammatory efficacy of diclofenac released from an intraocular lens versus administration of 0.1% diclofenac eye-drops in the prevention of post-operative inflammatory manifestations after cataract surgery. Ancillary study: 1 year follow-up of the safety	Dr Virender S Sangwan	IOL Tech Carl Zeiss MediTec, France	2006-2012
A phase 2/3 randomised,controlled double-masked multi-center comparative trial in parallel groups to compare the safety and efficacy of intravitreal injections of 0.3mg pegaptanib sodium (Macugen) given as often as every 6 weeks for 2 years, to sham injections in subjects with Diabetic Macular Edema (DME) involving the center of the macula	Dr Subhadra Jalali	Pfizer, USA	2006-2011
Micro current stimulation for retinitis pigmentosa 650 device pilot study	Dr Subhadra Jalali	Scyfix, USA	2007-2010
Protein Kinase C β Inhibitor - reduction in the occurrence of center-threatening Diabetic Macular Edema. B7A-MC-MBDL	Dr Subhadra Jalali	Eli Lilly, India	2005-2010
A double-masked, randomized, controlled phase 3 study of the efficacy, safety, and tolerability of repeated intravitreal administration of VEGF trap-eye in subjects with macular edema secondary to Central Retinal Vein Occlusion (CRVO)	Dr Raja Narayanan	Regeneron Pharmaceuticals Inc., USA	2010-2012
ENDURE Study	Dr Somasheila Murthy	Novartis, India	2010-2011
Ocular surface complaints in glaucoma patients	Dr G Chandra Shekar	Alcon, USA	2010-2011
MMT Study	Dr Vanita Pathak-Ray	Allergan, USA	2010-2011
A study of unilateral retinoblastoma with and without histopathologic high-risk features and the role of adjuvant chemotherapy – a groupwise phase III study	Dr Santosh G Honavar	National Childhood Cancer Foundation, USA	2009-2014
Pilot study in preparation for the Ganciclovir-Intravitreal versus Systemic-Cytomegalovirus Retinitis trail (Pilot GIVCyT)	Dr Annie Mathai	National Institutes of Health, USA	2010-2011
A phase II prospective,randomized, multi-centre, diabetic macular edema dose ranging, comparator study evaluating the efficacy and safety of PF-04523655 versus laser therapy (DEGAS)	Dr Soumyava Basu	Pfizer, USA	2010-2012
In-House Studies			
Epidemic kerato-conjunctivitis study: Epidemiological profile, clinical spectrum and molecular characterization of causative agents i.e., microsporidia in kerato-conjunctivitis	Dr Savitri Sharma	Department of Biotechnology, India Grant study	July 2010 onwards
Needling Study: Efficacy and safety of needling with adjunctive MMC injection of failing or failed blebs	Dr Vanita Pathak-Ray	NA	June 2010 onwards
Voriconazole study: Efficacy of 1% voriconazole compared to 5% Natamycin drops in the treatment of mycotic keratitis	Dr Savitri Sharma Dr Prashant Garg Dr Merle Fernandes	NA	November 2010 onwards

Publications

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Presentations

Mohd Javed Ali

International

Invited speaker

Emirates Ophthalmic Conference, Dubai. December 8-12, 2010
Topic: Comprehensive approach to lacrimal evaluation

National

Invited speaker

Hyderabad Ophthalmic Association meeting, Hyderabad. April 2010

Topics: Good DCR – tips and tricks
Evaluation of watering eye

Oculoplasty update meet, Maharashtra Ophthalmic Association, Latur, Maharashtra. August 2010

Topics: Logical approach to orbital tumors
Overview of lid tumors
External DCR – simple tips

CME, Indian Council of Medical Research, Guwahati. September 2010

Topic: Retinoblastoma: Clinical presentations and focal therapy

Oculoplasty CME 2010, Mamta Medical College, Khammam. October 2010

Topics: Approaches to orbit
Malignant lid tumors
External DCR – simple tips

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Histopathology of retinoblastoma following neoadjuvant chemotherapy
RBI mutations and its clinical correlation

Invited faculty

Topics: Principles of chemotherapy and radiotherapy
CNLDO and its management
Swinging lower lid approach
External DCR: tips and tricks

Invited speaker

Shankar Foundation meet, Shankara Foundation Hospital, Visakhapatnam. November 2010

Topics: Are Grand Rounds still relevant?
Clinical spectrum of retinoblastoma

CME, Narayana Medical College, Nellore. December 2010

Topics: Simplifying entropion
Tackling ectropion

Nellore Ophthalmic Association meeting, Nellore. December 2010

Topics: Evaluation of orbits
Orbital surgeries
How does retinoblastoma present?

Invited faculty

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topic: Nasal endoscopy: Nuts and bolts

Hemalatha Arunachalam

International

Paper presentation

10th International Conference on Low Vision, Kuala Lumpur, Malaysia. February 20-24, 2011

Topic: Meeting the educational needs of children with visual impairment – a study from India

Bhupesh Bagga

International

American Society of Cataract and Refractive Surgery symposium, San Diego, USA. March 25-29, 2011

Free paper

Topic: Endothelial failure after collagen cross-linking

Poster presentation

Topics: Comparison of deep anterior lamellar keratoplasty and penetrating keratoplasty in acanthamoeba keratitis
Outcomes of cataract surgery in scleritis

National

Invited faculty

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topic: Decision making in non-infectious keratitis

Deepak K Bagga

International

Co-chair/ Free papers

10th International Conference on Low Vision, Kuala Lumpur, Malaysia. February 20-24, 2011

Topics: Utility values in the visually impaired Indian population
Simulated experiences of visual impairment among optometry students and ophthalmology residents

National

Free paper

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Assessing depression in persons with vision loss

D Balasubramanian

International

Invited speaker/Chair, session

2nd Eurasia Bio Conference, Russian Biotechnology Society, Moscow. April 12-15, 2010

Invited speaker

MIT and Genzyme Labs, Massachusetts Institute of Technology, Boston, MA, USA. April 25, 2010

The Indus Entrepreneur (TiE), Cambridge, MA, USA. April 25, 2010

Grand Rounds, University of Pennsylvania, Pennsylvania, USA. April 26, 2010

Seminar, Wilmer Eye Center, Johns Hopkins Hospital, Baltimore, MD, USA. April 29, 2010

Seminar, National Institutes of Health, Bethesda, MD, USA. April 30, 2010

Grand Rounds Seminar, University of Colorado Medical School, Colorado, USA. May 7, 2010

Secretary General

Officers Meeting, The Academy of Sciences for the Developing World (TWAS), Paris, France. July 26-27, 2010

Invited speaker

Indo-Danish Symposium, Odense University Hospital, Odense, Denmark. September 2-3, 2010

Participant

Inauguration of the Champalimad Centre for the Unknown, Lisbon, Portugal. October 4-8, 2010

Asia-ARVO meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

National

Invited speaker

DBT-sponsored training program, Administrative Staff College of India, Hyderabad. June 2, 2010

Member

Academic Council Meeting, Tata Institute of Fundamental Research, Mumbai. July 30, 2010

Research Advisory Council Meeting, Centre for DNA Fingerprinting and Diagnostics, Hyderabad. August 6-7, 2010

Discussion on Synthetic Life: Myth & Reality, Indian Institute of Science, Bangalore. August 19, 2010

Invited speaker

Golden Jubilee celebrations, Indian Institute of Technology, Kanpur. September 12, 2010

Chair

XXIV LSRB meeting, Defence Research and Development Organisation, New Delhi. September 15, 2010

Invited speaker

VISION 2020 workshop on Research for Global Blindness Prevention, Aravind Eye Care System, Madurai. September 28-29, 2010

Member

Selection Committee for Senior and Chair Professorships meeting, Indian Institute of Technology Madras, Chennai. November 23, 2010

Institutional Committee for Stem Cell Research and Therapy meeting, Reliance Life Sciences, Mumbai. November 29, 2010

Indian National Science Academy Selection Committee meeting, New Delhi. December 1, 2010

Invited speaker

Convocation Address, Jagadish Bose Centre for Science Talent, Kolkata. December 17, 2010

Foundation Day Lecture, National Institute of Science Education and Research, Bhubaneswar. December 28, 2010

Chennai Chemistry Conference, Indian Institute of Technology Madras, Chennai. February 11, 2011

Prof Amar Bhaduri Memorial Lecture, University of Calcutta, Kolkata. February 15, 2011

Mellanby Oration, Central Drug Research Institute, Lucknow. February 17, 2011

BioAsia 2011, Government of Andhra Pradesh, All India Biotech Association, Hyderabad. February 24, 2011

Member

Assessment Committee meeting, National Brain Research Centre, Manesar, Haryana. February 25, 2011

Chair

SAAC meeting, Christian Medical College, Vellore. February 28, 2011

Sayan Basu

National

Invited faculty

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topic: Symposium on ocular surface disease

Soumyava Basu

National

Invited faculty

Retnet India annual meeting, New Delhi. April 9-10, 2010

Invited speaker

Diabetes 2010 – CME, IMA Academy of Medical Specialities, Bhubaneswar. May 31, 2010

Topic: Diabetic retinopathy – current trends in management

Symposium on Uveitis, eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad.

October 1-3, 2010

10th annual meeting of Uveitis Society of India/1st International Workshop on Ocular Tuberculosis, Chandigarh.

October 27-31, 2010

Topic: Tubercular retinal vasculitis

FUSION 2010, a joint meeting of Orissa State Ophthalmological Society (OSOS) and Eastern India Zonal Ophthalmological Congress (EIZOC), Bhubaneswar. November 13-14, 2010

Topic: OCT in retinal disease

Shrikant Bharadwaj

International

Poster presentation

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, FL, USA. May 2-6, 2010

Topics: Impact of lens-induced anisometropia on accommodative responses to step and ramp stimuli in adults

Comparison of a novel cell phone-based refraction technique (NETRA) with objective clinical retinoscopy

Characteristics of pupil responses during human visual development

Asia-ARVO Meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Inter- and intra-subject variability of luminance-slope calibration in eccentric photorefraction

National

Invited speaker

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Characteristics of pupil responses during human visual development

Elite School International Conference on Optometry and Vision Science (EVIOC 2010), Sankara Netralaya, Chennai. August 12-14, 2010

Topic: Neural control of ocular accommodation

US-India Network Enabled Research Collaboration Workshop, US National Science Foundation and Indian Education and Research Network (ERNET), New Delhi. December 5, 2010

Topic: Fostering optometric training through web-based collaborations.

Sunita Chaurasia

International

American Academy of Ophthalmology meeting and Subspecialty Day program, Chicago, USA. October 16-19, 2010

Poster presentation

Topic: Neonatal keratitis: A 5-year experience at a tertiary care center

Free paper

Topic: Outcomes of DSEK in pediatric eyes

2nd Asia Cornea Society biennial scientific meeting, Kyoto, Japan. December 1-3, 2010

Invited faculty

Topics: Outcomes of DSEK in failed penetrating grafts
Long-term outcomes of penetrating keratoplasty after cultivated limbal epithelial transplantation in eyes with chemical injury

Poster presentation

Topics: Clinical profile of graft detachment and outcomes of rebubbling after DSEK
Neonatal keratitis: A 5-year experience at a tertiary care center

National

Poster presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topics: Neonatal keratitis: A 5-year experience at a tertiary care center
Outcomes of DSEK in paediatric eyes

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Invited faculty

Topics: Management of Descemet's membrane detachment following cataract surgery
Evaluation of dry eyes

Free paper

Topics: Outcomes of DSEK in failed grafts
Conjunctival tuberculosis – clinical dilemma
Long-term outcomes of penetrating keratoplasty after cultivated limbal epithelial transplantation

Poster presentation

Topics: Outcomes of rebubbling for posterior graft detachment after DSEK
Neonatal keratitis – case series
Outcomes of DSEK in paediatric eyes

Subhabrata Chakrabarti

International

Participant

Board of Governors meeting, Information, Planning and Exchange meeting, Associate Advisory Board meeting, World Glaucoma Association, Fort Lauderdale, FL, USA. April 30 – May 3, 2010

Invited speaker

Annual meeting of Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, USA. May 1-6, 2010

Topic: The susceptibility of extracellular matrix-related gene variants in age-related macular degeneration

Participant

First strategic meeting of Indo-Tunisian joint research program, Tunis, Tunisia. June 21-26, 2010

Invited speaker

Institut Salah Aziz, Tunis, Tunisia. June 25, 2010

Topic: Molecular and functional genomics of primary congenital glaucoma

Centre for Eye Research, University of Melbourne, Melbourne, Australia. October 6, 2010

Topic: Molecular genomics of primary congenital glaucoma

Participant

Fifth strategic meeting of Indo-Australian joint research program, Melbourne, Australia. October 4-8, 2010

Organising member

Annual meeting of The Academy of Sciences for the Developing World (TWAS), Hyderabad. October 18-22, 2010

Invited speaker

1st Asia-Pacific Joint Glaucoma Congress, Taipei, Taiwan. December 5, 2010

Topic: What do glaucoma genes tell us about glaucoma pathogenesis

Asia-ARVO Meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Molecular genetics of age-related macular degeneration in the Indian scenario

National

Invited speaker

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

National Institute of Biomedical Genomics, Kalyani, West Bengal. December 23, 2010

Topic: What do glaucoma genes tell us about glaucoma pathogenesis

Annual meeting of Indian Association of Community Ophthalmology (INACO), Kolkata. December 26, 2010

Topic: Molecular genetics of age-related macular degeneration: The Indian scenario

Annual meeting of International Society of Genetic Eye Diseases and Retinoblastoma (ISGEDR), Bangalore. January 14-16, 2011

Topic: Molecular mechanisms in primary congenital glaucoma: Recent trends and future prospects

UGC-SAP meeting on Genomics of complex diseases, Guru Nanak Dev University, Amritsar. March 16, 2011

Topic: Genomics of a complex blinding disorder

Beula Christy

International

Poster presentation

Annual meeting of Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, USA. May 1-6, 2010

Topic: Outcomes of low vision rehabilitation using the Effectiveness of Low Vision Rehabilitation Training (ELVRT) instrument

Sujata Das

International

Poster presentation

World Cornea Congress VI, The Cornea Society, Boston, USA. April 7-9, 2010

Topic: Fusarium keratitis at a tertiary eye care centre in India

American Society of Cataract and Refractive Surgery symposium, Boston, USA. April 10-14, 2010

Poster presentation

Topic: Comparison of techniques of measuring anterior chamber depth and corneal curvature in Indian eyes

Invited faculty

Topic: Clinico-microbiological profile of wound infection following sutureless cataract surgery

Annual meeting of Asia-Pacific Academy of Ophthalmology, Beijing, China. September 16-20, 2010

Topic: Clinical applications of in vivo confocal microscopy in fungal keratitis

26th Congress of Asia Pacific Academy of Ophthalmology, Sydney, Australia. March 20-24, 2011

Topics: In-vivo confocal microscopy of fungal keratitis

Clinching exotic organisms in the laboratory

The rise of microsporidial keratitis

Challenges in the management and diagnosis of fungal keratitis

National

Invited speaker

Annual conference of Indian Association of Medical Microbiologists (Orissa Chapter), L V Prasad Eye Institute, Bhubaneswar. August 8, 2010

Topic: Infections of the anterior segment of the eye and orbit

Invited faculty

CME on Eye Banking, Indira Gandhi Hospital, Rourkela, Orissa. August 24, 2010

Topic: Eye banking – giving the gift of sight

Invited speaker

CME on infective keratitis, Dr Shroff's Charity Eye Hospital, New Delhi. October 29, 2010

Topic: Microsporidia: The new bug in town

FUSION 2010, a joint meeting of Orissa State Ophthalmological Society and Eastern India Zonal Ophthalmological Congress, Bhubaneswar. November 13-14, 2010

Topic: IOL choice must match my patients' need!

Free paper

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topics: Streptococcus pneumoniae keratitis: Fortified antibiotics or fluoroquinolones?

Refractive outcome of cataract surgery using partial coherence interferometry and ultrasound biometry

Taraprasad Das

International

Discussant

Fluidics in modern vitreous surgery, Expert Round Table meeting, Ophthalmology Times Europe, Zurich. April 2010

Poster presentation

Annual meeting of Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, USA. May 1-6, 2010

Topic: Change in the retinal laser practice pattern with induction of pattern scan laser system in a tertiary eye care institute in India

Invited speaker

Asia Pacific Academy of Ophthalmology meeting, Beijing, China. September 16-20, 2010

Topics: Anti-angiogenesis in diabetic macular edema
Retina laser training and capacity building

X biennial SAARC Academy of Ophthalmology and Ophthalmology Society of Bangladesh meeting, Dhaka, Bangladesh. March 4-8, 2011

Topics: Are EVS recommendations for post cataract surgery endophthalmitis management relevant a decade and half after its first publication?

Is anti VEGF treatment cost effective in developing countries?

26th Congress of Asia Pacific Academy of Ophthalmology, Sydney, Australia. March 20-24, 2011

Topics: Post cataract surgery endophthalmitis management
Diabetic retinopathy burden in India
Anti VEGF in AMD

National

Invited faculty

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topic: Training of ophthalmic personnel – models and implementation

Eastern India Zonal Ophthalmological Congress mid-year conference, Disha Hospital, Barrackpore, West Bengal.

June 19-20, 2010

Topic: Pascal

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Poster presentation

Topic: Is 23g vitrectomy cost effective in developing countries

Paper presentation

Topics: Should residency program in India focus more on skill transfer?

Older antibiotics are still good against methicillin resistant staphylococcal ocular infections

Invited speaker

Retina 2010, Aravinda Eye Hospital, Vijayawada. August 22, 2010

Topics: Diabetic macular edema, laser, steroid, anti VEGF
Endophthalmitis – management guidelines

Live Surgery & Symposium, Suryodaya Eye Hospital, Calcutta Medical Research Foundation, Kolkata. August 29, 2010

Topics: Paradigm shift in vitreous surgery
Vitreoretinal fellowship

SN-ARVO Summer Eye Research Conference, Sankara Nethralaya, Chennai. September 9-11, 2010

Topics: Diabetic retinopathy: from bench to population
Linkage and partnership in diabetic retinopathy screening

CME on Retina Vitreous, Radhatri Nethralaya, Madras. September 12, 2010

Topic: Management of endophthalmitis

International Symposium on Community Ophthalmology, Indian Association of Community Ophthalmology, Kolkata. October 29-31, 2010

Topics: Public private partnership in centre of excellence in eye care
Linkages and partnership in diabetic retinopathy screening

Chief guest/Invited speaker

Chhattisgarh State Ophthalmological Society annual meeting, Raipur. January 8-9, 2011

Topics: Endophthalmitis management a decade and half after the first EVS publication
Paradigm shift in AMD management
Management of diabetic retinopathy beyond the ETDRS recommendations

Invited faculty

Diabetic Retinopathy & Macula, Suraj Eye Institute, Nagpur. March 5-6, 2011

Topics: World & India burden of diabetes & diabetic retinopathy
Eales' disease, diagnosis & management

Merle Fernandes

International

28th Congress of the European Society of Cataract & Refractive Surgeons, Paris, France. September 4-8, 2010

Free paper

Topic: Outcome of Excimer laser with MEL 80 for low to high myopia with and without iris registration

Poster presentation

Topics: Intracameral Amphotericin B for recurrence of fungal keratitis after therapeutic penetrating keratoplasty
Exaggerated sub-epithelial fibrosis presenting as a thick membrane following anterior stromal punctures for bullous keratopathy

X biennial SAARC Academy of Ophthalmology and Ophthalmology Society of Bangladesh meeting, Dhaka, Bangladesh. March 4-8, 2011

Chief Instructor/Co-instructor

Topics: Allergic eye disease: Pathogenesis & introduction to clinical types
Shield ulcer
All that itches is not allergy
Infections keratitis: Common presentations of uncommon organisms
Surgical management of bacterial keratitis
HSV Keratitis: HSV keratitis in children, the spectrum

Invited speaker

Topics: Which PK to pick up?
Keratoprosthesis: an introduction
Pediatric penetrating keratoplasty: A viable option in developing countries?
LASIK basics before you proceed
Thin cornea: What next?

National

Organising Secretary/Host faculty

The Bug Stops Here, seminar on Corneal Infections and Inflammations, L V Prasad Eye Institute, Visakhapatnam. November 20-21, 2010

Topics: All that itches is not allergy
Surgical management of bacterial keratitis
Pathogenesis of HSV keratitis
Multi-drug resistant Gm negative bacterial keratitis

Invited speaker

Warangal Ophthalmic Association meeting, Warangal. December 2010

Topics: Phakic intraocular lenses
Management of microbial keratitis

Organising Secretary/Host faculty

Concepts and Controversies: Cataract and Refractive Surgery meeting, L V Prasad Eye Institute, Visakhapatnam. February 26-27, 2011

Topics: Get in the groove
Phakic ICLs: To do or not to do?
Subluxated cataract managed with modified Cionni Ring

Prashant Garg

International

World Cornea Congress VI, The Cornea Society, Boston, USA. April 7-9, 2010

Invited speaker

Topic: Trends in Infectious keratitis in developing nations

Paper presentation

Topic: Deep anterior lamellar keratoplasty in macular corneal dystrophy: Visual outcomes & complications

Invited speaker/Co-chair, session

Asia Pacific Academy of Ophthalmology meeting, Beijing, China. September 16-20, 2010

Topics: Emerging trends in bacterial and parasitic keratitis in India
Is post-cataract endophthalmitis or the rise? Global update on epidemiology
Blebitis and endophthalmitis with glaucoma surgery

Invited speaker/faculty

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Topics: New treatment for atypical fungal and parasitic ocular infections
Recent advances in diagnosis and management of fungal keratitis
Role of confocal microscopy in microbial keratitis

Invited faculty

XVI International Course of Cornea & Refractive Surgery, Cornea Society of Mexico, Cancun, Mexico. October 28-31, 2010

Topics: Anterior lamellar keratoplasty (DALK) – experience with anterior stromal pathologies
DSAEK simple procedure – think twice
Phaco in eyes with radial keratotomy
Keratoconus with VKC, a therapeutic challenge
Mycotic infections, diagnosis and treatment
Split in Descemet membrane during big bubble deep anterior lamellar keratoplasty
Bubble or no bubble – how to complete deep anterior lamellar keratoplasty
DALK in microbial keratitis: Experience in Acanthamoeba Keratitis

Invited speaker/Moderator, session

Asia Pacific Academy of Ophthalmology meeting, Sydney, Australia. March 20-24, 2011

Topics: Cornea & external eye disease: My surgical approach to DSEK
Challenges in microbial keratitis – Asia v/s rest of the world
Fungal keratitis – a unique challenge for Asia Pacific region
Challenges and progress in ophthalmic education in India

National

Invited faculty

CME, Gombai Netralaya, Neemuch. May 2, 2010

Topics: Work-up of a case of corneal ulcer
Pathophysiology of fungal keratitis and its implications in management
Recent advances in management of microbial keratitis
Lamellar corneal surgery – history repeats itself

Narayanam CME, Kerala Ophthalmic Society, Kochi. August 29, 2010

Topics: Medical management of microbial keratitis
Pathophysiology of fungal keratitis
Microsporidiosis
Lamellar surgery – why, when, and how
Corneal transplantation – what I must know
Eye banking – quality controls

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Live surgery

Topic: Phacoemulsification under topical anesthesia

Invited speaker

Topics: Corneal infections – Paradigm for surgical management
Challenges and emerging trends in management of corneal infections
In-vivo confocal microscopy
Infection of suture-less wound of cataract surgery
DALK for microbial keratitis
Panel discussion – premium IOLs

Usha Gopinathan

International

Invited faculty

49th annual meeting of Eye Bank Association of America, South Carolina, USA. June 2-5, 2010

Participant

Executive Management Program – High Potentials Leadership Program, Harvard Business School, Boston, USA. June 6-11, 2010

Invited faculty

SightLife meeting, Seattle, USA. June 12-15, 2010

Flaum Eye Institute, University of Rochester, New York, USA. June 16-23, 2010

The 2nd Asia Cornea Society Biennial Scientific Meeting, Kyoto, Japan. December 1-3, 2010

National**Invited faculty**

Symposium on *Challenges and Current Status in Eye Banking/Eye Donation*, M K International Eye Bank, Indore. May 2, 2010

VISION 2020: The Right to Sight – India, National Workshop to prepare an 'Advocacy roadmap for eye care for India', New Delhi. May 13-14, 2010

Participant

Workshop on *Evidence based management practices*, Lions Aravind Institute of Community Ophthalmology, Madurai. October 4-5, 2010

Invited faculty

VISION 2020: The Right to Sight – India. World Sight Day 2010 "Countdown to 2020", a two-day national event, Mumbai. October 13-14, 2010

Participant

Management Development Program on Accounting and Finance for Non Finance Hospital Administrators, Parama Health Care P Ltd (Chennai), Hyderabad. November 12-14, 2010

Invited faculty

CME on Eye Banking, All India Institute of Medical Sciences, New Delhi. December 11, 2010

Vijaya K Gothwal**International****Invited speaker**

The World Ophthalmology Congress, Berlin, Germany. June 5-9, 2010

National**Course Convenor/In-house faculty**

Low vision Awareness Program (LAP), LVPEI, Hyderabad. April 16-18, 2010

Free paper

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Invited speaker

Elite School International Conference on Optometry and Vision Science (EVIIOC 2010), Sankara Netralaya, Chennai. August 12-14, 2010

Course Convenor/In-house faculty

Low vision Awareness Program (LAP), LVPEI, Hyderabad. September 27-28, 2010

Amit Gupta**International****Paper presentation**

26th Congress of Asia Pacific Academy of Ophthalmology, Sydney, Australia. March 20-24, 2011

Topic: Exotropic Duane Retraction syndrome

National**Invited faculty**

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Paper presentation

Topic: Astigmatism in pediatric cataract surgery with different incisions

Poster presentation

Topic: Inferior mesodermal agenesi: A rare entity

Video presentation

Topic: Pediatric cataract surgery

Santosh G Honavar**International****Invited faculty**

American Society of Ophthalmic Plastic and Reconstructive Surgery Scientific Symposium, Chicago, USA.

October 13-14, 2010

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Invited faculty/Chair, Program Committee

26th Congress of Asia Pacific Academy of Ophthalmology, Sydney, Australia. March 20-24, 2011

National**Invited Faculty/Chair**

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Organizing Secretary/Faculty

Eye-PEP 2010 (Postgraduate Education Program), L V Prasad Eye Institute, Hyderabad. September 21-26, 2010

Organizer/Chair/Faculty

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Organizer/Faculty

ICO Course for Residency Program Directors, L V Prasad Eye Institute, Hyderabad. October 4-5, 2010

Invited faculty/Chair

21st annual meeting of Oculoplastics Association of India, Mumbai. November 19-21, 2010

Annual meeting of International Society of Genetic Eye Diseases and Retinoblastoma (ISGEDR), Bangalore. January 14-16, 2011

Invited faculty

Chrysalis 2011, Sankara Netralaya, Chennai. January 16-17, 2011

Subhadra Jalali**International****Poster presentation**

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Topic: Influence of birth weight and gestational age in ROP among multiple pregnancies

Invited speaker

5th Asia Pacific Vitreoretinal Society meeting, Singapore. November 19-21, 2010

Topic: Non-ROP neonatal retinal diseases – presentations and management

Asia-ARVO meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Electroretinographic characterization of rod monochromatism

10th biennial conference of SAARC Academy of Ophthalmology, Dhaka, Bangladesh. March 5-8, 2011

Topic: Setting up of a ROP screening centre

Islamia Eye Hospital, Dhaka. March 8-10, 2011

Visiting Professor

Topic: Current guidelines for ROP screening in developing countries

Invited speaker

Combined meeting for Neonatologists and Ophthalmologists,

Topic: ROP screening and the way to go

National

Invited speaker

National Retina Advisory Board meeting, Allergan, Chennai.

May 30, 2010

Topic: Pathogenesis in retinal vein obstructions

CME for postgraduates, Sarojini Devi Eye Hospital, Hyderabad. July 28, 2010

Topic: Understanding clinical visual electrophysiology

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topics: Aquatic aeromonas in eye infections – 5 years' review
Refractive outcome of simultaneous silicone oil and cataract removal with intraocular lens implantation (combined surgery)

Changes in the thickness (inner & outer retinal layers) of retina in patients with retinitis pigmentosa (RP)

Molecular genetic analysis of Leber's congenital amaurosis (LCA) in Indian patients

Molecular genetic analysis of Norrie Disease pseudoglioma gene in FEVR patients and Indian ROP babies

Case series of term babies presenting with FEVR within 45 days of life

CME for pediatricians and ophthalmologists, Ophthalmic Society of Varanasi, Varanasi. September 19, 2010

Topic: Retinopathy of prematurity: Practical guidelines

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topic: Current strategies in ROP

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topics: Current guidelines for ROP screening

Current guidelines for management of familial exudative vitreoretinopathy

Chitra Kannabiran

International

Poster presentation

Annual meeting of Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, USA. May 1-6, 2010

Invited speaker

Genetics symposium, Asia-ARVO meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Homozygosity screening of families with autosomal recessive retinitis pigmentosa by SNP arrays

National

Invited speaker

Vasavi Medical and Research Centre, Hyderabad, June 19, 2010

Topic: Genetics of hereditary retinal degenerations

Chair, free paper session

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Judge, poster session

St Ann's College, Mehdiapatnam, Hyderabad. August 18, 2010

Invited speaker

Annual meeting of International Society for Genetic Eye Disorders and Retinoblastoma, Bangalore. January 14-16, 2011

Topics: Mapping of a novel locus for ADRP

In vitro expression and localization of human GJA8/connexin 50 mutants associated with congenital hereditary cataracts

Inderjeet Kaur

International

Invited speaker

XIX International Society for Eye Research meeting, Montreal, Canada. July 18-23, 2010

Topic: Biomarker identification in POAG: A preliminary experience from an Indian cohort

Centre for Eye Research, University of Melbourne, Melbourne, Australia. October 8, 2010

Topic: A molecular genetic study of retinopathy of prematurity

21st general meeting of The Academy of Sciences for the Developing World (TWAS), Hyderabad. October 19-22, 2010

Topic: Genetics of retinopathy of prematurity: A potentially blinding disorder in pre-term babies

National

Organizing secretary

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Invited speaker

Recent advances in ocular genetics and gene therapy, Narayana Nethralaya, Bangalore. December 14, 2010

Topic: Genetics of age related macular degeneration: an update

Scientific organizer

Mahatma Gandhi National Institute of Research and Social Action, Institute of Genetics, Hyderabad. December 2010

Topic: Genetics of age related macular degeneration

Invited speaker

International Society of Genetic Eye Diseases meeting, Bangalore. January 14-15, 2011

Topic: Genetics of retinopathy of prematurity: A potentially blinding disorder in pre-term babies

UGC-SAP meeting on Genomics of complex diseases, Guru Nanak Dev University, Amritsar. March 16, 2011

Topic: Molecular mechanisms and risk assessment in a complex age-related eye disease

Ramesh Kekunnaya

International

Invited faculty

Research Seminar, Jules Stein Eye Institute, Los Angeles, USA. May 14, 2010

Topic: Effect of strabismus surgery on Torticollis caused by congenital superior oblique palsy in children

Annual meeting of Asia-Pacific Academy of Ophthalmology, Beijing, China. September 16-20, 2010

Topic: Strabismus surgery under topical anesthesia

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Topics: Comprehensive approach to pediatric cataract surgery
Comprehensive approach to strabismus surgery

Poster presentation

Topic: Effect of strabismus surgery in congenital SOP

International Ophthalmology Conference, NHG Institute Suntec, Singapore. November 16-18, 2010
Topics: Congenital cranial dysinnervations disorders
Posterior capsular management in pediatric cataract surgery

Invited faculty/Moderator/Chair

102 years' celebrations of Cicendo Eye Hospital, Bandung, Indonesia. January 7-9, 2011

Topics: Evaluation of a case of nystagmus
Strabismus surgery under topical anaesthesia
Inferior oblique surgeries
Congenital optic disc anomalies
What's new in amblyopia

Annual meeting of American Association for Pediatric Ophthalmology and Strabismus, San Diego, USA.
March 30 – April 3, 2011

Invited speaker

Topic: Risk factors for consecutive exotropia after vertical rectus transposition for esotropic Duane's retraction syndrome

Poster presentation

Topics: Surgery for bilateral esotropic Duane's retraction syndrome: Indications and outcomes
Surgical outcomes in partially accommodative esotropic Duane syndrome
Medial rectus recession following vertical rectus transposition in esotropic Duane's retraction syndrome

National

Invited faculty

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topic: What's new and important in 2010?

Strabismus Society of India annual meeting, Jaipur.
December 18-19, 2010

Topic: Strabismus surgery under topical anaesthesia

Invited faculty/Video presentation

69th All India Ophthalmological Society meeting, Ahmedabad.
February 3-6, 2011

Topics: IOL implantation in children
Comparing astigmatism in pediatric cataract surgery via corneal vs scleral tunnel incision
Inferior oblique surgeries

Invited faculty

Postgraduate Education program, M M Joshi Eye Hospital, Hubli. February 26-27, 2011

CME, Mysore Medical College, Mysore. March 23, 2011

Siddharth Kesarwani

National

Invited faculty

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topic: Ocular myasthenia: A diagnostic graveyard

Indian Association of Pediatrics meeting, Sundargarh, Orissa.
May 21, 2010

Topic: Pediatric ophthalmology: Myths and truths

Organising Secretary/Host faculty

Neonatal Ophthalmology meeting, L V Prasad Eye Institute, Bhubaneswar. July 3, 2010

Topic: Congenital cataract and management issues

Invited faculty

Strabismus Society of India annual meeting, Jaipur.
December 18-19, 2010

Topics: Ocular myasthenia
Alternative management of amblyopia

69th All India Ophthalmological Society meeting, Ahmedabad.
February 3-6, 2011

Topics: Surgical management of double elevator palsy
Management of end-stage corneal disease

Rohit Khanna

International

Invited speaker

28th Congress of the European Society of Cataract & Refractive Surgeons, Paris, France. September 4-8, 2010

Topics: Blindness in developing countries, prevention and treatment
The LV Prasad model for prevention and treatment of blindness in India

Pravin V Krishna

International

Invited speaker

World Cornea Congress VI, The Cornea Society, Boston, USA.
April 7-9, 2010

Invited speaker/Poster/Video presentation

American Society of Cataract and Refractive Surgery symposium, Boston, USA. April 10-14, 2010

Invited speaker

Eye Bank Association of America, Cornea Society Fall Symposium, Chicago, IL, USA. October 15, 2010

Invited faculty

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

33rd Inter-American Course of Ophthalmology, CURSO 2010, Miami, FL, USA. October 25, 2010

S Krishnaiah

International

Guest speaker

Emergency Medical Treatment and Wound International Forum, International 1st Global Trauma Forum, Chongqing, China. August 21-22, 2010

Topic: Ocular trauma in a rural population of southern India

Invited speaker

Asia Pacific Academy of Ophthalmology Congress 2011, Sydney, Australia. March 20-24, 2011

Topic: Risk factors for age-related macular degeneration: Findings from the Andhra Pradesh Eye Disease Study in south India

B Lakshmi

National

Invited speaker/Co-chair, session

35th All India Optometry Conference, Jaipur.
January 28-30, 2011

Topic: Changes in thickness of retina in patients with retinitis pigmentosa (RP)

Ajit Babu Majji

National

Chair, session/Invited speaker

Symposium on Diabetic Retinopathy, Dr Thakor Bai V Patel Eye Institute, Baroda. April 11, 2010

Topics: Diabetic retinopathy screening: Where do we stand today?

Upcoming trends in surgical management of diabetic retinopathy

Invited speaker

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topics: Role of general ophthalmologist in ARMD
Proliferative diabetic retinopathy with combined retinal detachment

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Macular edema

Management of posterior dislocation of nucleus

Post-operative endophthalmitis: Interventions after initial management

Chair, session/Invited speaker

North Zone Ophthalmic Society Meeting, Mussoorie, Uttarakhand. October 22-24, 2010

Topics: Diabetic retinopathy – challenges ahead

Guidelines for prophylactic treatment of peripheral retinal lesions

Invited speaker

Karnataka State Ophthalmic Society annual conference, Udipi, Karnataka. October 29-31, 2010

Topics: Recent advances in VR techniques & enzymatic vitrectomy
Fundus fluorescein angiography – interesting cases

Bio-ethics conference, All India Institute of Medical Sciences, New Delhi. November 18-20, 2010

Topic: Procedures & checklists of an Ethics Committee

Dr Gullapalli Venkateswar Rao Oration

Guntur Ophthalmic Association meeting, Guntur.

November 20, 2010

Topic: Diabetic retinopathy challenges ahead

Invited speaker

Kerala State Ophthalmic Society annual conference, Kochi. November 26-28, 2010

Topics: Current concepts in management of diabetic retinopathy
Management of fungal endophthalmitis

Organising secretary/Invited speaker

Vitreo Retinal Society of India annual conference, Mysore, Karnataka. December 2-4, 2010

Topic: Diabetic retinopathy: Challenges ahead

Judge, session/Invited faculty

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topics: Instruction Course on FFA

Advances in macular surgery

Tamponade agents: My choice

Acute endophthalmitis – Approach

Anil K Mandal

International

Discussant

Indo-Tunisian Project on Genetics of Primary Congenital Glaucoma, Institut Salah Aziz, Tunis, Tunisia. June 21-26, 2010

American Academy of Ophthalmology meeting and Subspecialty Day program, Chicago, USA. October 16-19, 2010

Invited faculty

Topics: Etiology & management of neovascular glaucoma in 2010

Complications following glaucoma filtering surgery:

Face them boldly, manage them efficiently

Poster presentation

Topic: Surgical outcome of primary combined trabeculectomy-trabeculotomy in glaucoma with Sturge-Weber Syndrome

National

Invited faculty

Suryodaya Glaucoma Update, Suryodaya Eye Centre, Calcutta Medical Research Institute, Kolkata. September 12, 2010

Topics: Live surgery – trabeculectomy with trabeculotomy phaco-trabeculectomy

Trabeculectomy

Twenty years of trabeculectomy with trabeculotomy

SICS trabeculectomy

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Invited speaker/Chair, session

Topic: An overview of the management of the pediatric glaucoma

Video presentation

Topic: 20 years of comprehensive care for children with congenital glaucoma

Invited faculty/Moderator

1st International meeting on Community Ophthalmology, Indian Association of Community Ophthalmology, Kolkata.

October 29-31, 2010

Keynote address: Congenital glaucoma

5th International Congress on Glaucoma Surgery, International Association of Glaucoma Surgeons, New Delhi.

November 11-13, 2010

Video presentation

Topic: Primary combined trabeculotomy-trabeculectomy in a child of infantile glaucoma with acute hydrops

Invited faculty

Topics: Long-term outcome of trabeculotomy-trabeculectomy in primary congenital glaucoma

Pediatric glaucoma: Our combined experience

20th annual conference of Glaucoma Society of India, New Delhi. November 14, 2010

69th annual conference of All India Ophthalmological Society, Ahmedabad. February 3-6, 2011

Free paper

Topic: Surgical outcome of early onset glaucoma in Axenfeld-Rieger's (AR) Syndrome

Video presentation

Topics: Twenty years of comprehensive care for children with congenital glaucoma

Surgical management of a complicated cataract following trabeculectomy in an 85-year-old patient

Chief instructor

Topic: Holistic care for children with congenital glaucoma

Invited speaker

Awareness program on glaucoma, Developmental Authority of Shantiniketan and Sriniketan, Bolpur, West Bengal.

February 18, 2011

Indumathi Mariappan

National

Free paper

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Derivation and characterization of Induced Pluripotent Stem Cells (iPSCs)

Invited speaker

43rd annual conference of Indian Pharmacological Society (IPS-2010) & International Symposium on Pharmacology & Translational Research, National Institute of Nutrition, Hyderabad. December 13-16, 2010

Topic: Stem cells for ocular therapy

Srinivas Marmamula

International

Paper presentation

World Congress on Refractive Errors & World Congress on Optometric Education, Durban, South Africa.

September 20-22, 2010

Topic: Rapid Assessment of Refractive Errors (RARE)

National

Invited speaker

Elite School of Optometry International Conference on Optometry and Vision Science (EVIIOC 2010), Sankara Netralaya, Chennai. August 12-14, 2010

Topics: Role of optometry school in public health

Barriers for uptake of services for refractive error and presbyopia

Community Ophthalmology Society of India meeting, Venu Eye Institute and Research Centre, New Delhi.

November 26-27, 2010

Topic: LVPEI initiatives in community eye care

Annie Mathai

International

Invited speaker

26th Congress of Asia Pacific Academy of Ophthalmology, Sydney, Australia. March 20-24, 2011

National

Invited speaker

2nd Retnet India meeting, New Delhi. April 9-10, 2010

Topic: Intraocular lymphomas – masquerade syndrome

The South-East Zonal meeting of the Allergan National Retina Board, Hyderabad. June 13, 2010

Topic: Retinal vein occlusion – treatment landscape

AMD meeting, L V Prasad Eye Institute & Novartis, Hyderabad. July 25, 2010

Topic: Anti-VEGF monotherapy for AMD

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Photocoagulation and its follow-up management in diabetic retinopathy

Post-op endophthalmitis – preventive aspects and HIC guidelines

Vitreoretinal interface and posterior vitreous detachment

Ashik Mohamed

International

Poster presentation

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, FL, USA. May 2-6, 2010

Topic: Lens growth in the Indian population

Asia-ARVO Meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Change in the apparent volume of human crystalline lenses during simulation of accommodation

National

Paper presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Age-related changes in the optomechanical properties of human lenses: A comparison of Indian & American eyes

R Muralidhar

International

American Academy of Ophthalmology annual meeting, Chicago, USA. October 16-19, 2010

Free paper

Topic: Outcomes of Descemet's stripping endothelial keratoplasty in children – a retrospective case series

Poster presentation

Topics: Rotational autokeratoplasty in pediatric age group for non-progressive central corneal scars

Neonatal infectious keratitis – a five-year experience at a tertiary eye care center

Fate of transplanted oral mucosal epithelial cells on an ocular surface of a patient with bilateral severe limbal stem cell deficiency

Comparing post operative astigmatism after cataract surgery with different incisions in pediatric age group

2nd Asia Cornea Society biennial scientific meeting, Kyoto, Japan. December 1-3, 2010

Free paper

Topics: Descemet's stripping endothelial keratoplasty (DSEK) in eyes with failed penetrating keratoplasty (PK)

Long-term outcomes of keratoplasty in patients with autologous cultivated stem cell transplantation following chemical injury

Poster presentation

Topics: Neonatal infectious keratitis – a five-year experience at a tertiary eye care center

Outcome of rebubbling for graft detachment following Descemet's stripping endothelial keratoplasty (DSEK)

Asia-ARVO meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topics: Outcome of the repeat DSEK after failed primary endothelial keratoplasty

Deep anterior lamellar keratoplasty in a case of congenital corneal keloid

National

Poster presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topics: Rotational autokeratoplasty in pediatric age group for non-progressive central corneal scars

Neonatal infectious keratitis – a five-year experience at a tertiary eye care center

Outcomes of Descemet's stripping endothelial keratoplasty in children – a retrospective case series

Fate of transplanted oral mucosal epithelial cells on an ocular surface of a patient with bilateral severe limbal stem cell deficiency

Invited faculty

Bombay Ophthalmic Society meeting, Mumbai.

August 14-15, 2010

Topics: Outcomes of cultured oral mucosal epithelial transplantation (COMET) in cases of bilateral severe stem cell deficiency following chemical injuries
Approach to infective keratitis in a pediatric age group

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Poster presentation

Topics: Rotational autokeratoplasty in pediatric age group for non-progressive central corneal scars
Neonatal infectious keratitis – five-year experience at a tertiary eye care center
Outcomes of Descemet's stripping endothelial keratoplasty in children – a retrospective case series:
Fate of transplanted oral mucosal epithelial cells on an ocular surface of a patient with bilateral severe limbal stem cell deficiency
Mooren's ulcer in a pediatric patient
Deep anterior lamellar keratoplasty in a case of congenital corneal keloid
Outcome of rebubbling for graft detachment following Descemet's stripping endothelial keratoplasty (DSEK)
Comparing post operative astigmatism after cataract surgery with different incisions in pediatric age group
Outcomes of unilateral traumatic cataract in preschool children – 5 year analysis at a tertiary care center

Free paper

Topics: Descemet's stripping endothelial keratoplasty (DSEK) in eyes with failed penetrating keratoplasty (PK)
Long term outcomes of keratoplasty in patients with autologous cultivated stem cell transplantation following chemical injury
Conjunctival tuberculosis: single institution experience

Video presentation

Topic: Management of congenital cataract

Somasheila Murthy

International

Participant

International Users' Refractive Symposium, Carl Zeiss Ltd., Kuala Lumpur, Malaysia. November 27, 2010

National

Invited speaker

11th annual meeting, Uveitis Society of India, Chandigarh. October 28-31, 2010

Postgraduate CME program on Diagnostics in Ophthalmology, Ganapathi Netralaya, Jalna. December 25-26, 2010

Free paper/Poster/Invited speaker

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Organizing secretary

Uveitis CME, Nellore Ophthalmology Association meeting, Nellore. March 20, 2011

Milind Naik

International

Invited faculty

International Masters Course in Aging Skin, Hong Kong. July 9-13, 2010

Minimally Invasive Plastic Surgery meeting, Seoul, Korea. September 9-11, 2010

Annual meeting of Asia Pacific Academy of Ophthalmology, Beijing, China. September 16-20, 2010

National

Invited faculty

Facial Aesthetic Surgery meeting, Poona Ophthalmic Society, Pune. August 22, 2010

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Annual meeting of Oculoplastics Association of India, Mumbai. November 19-21, 2010

Annual meeting of Aesthetic Cutaneous Surgeons of India, Aurangabad. November 26, 2010

Annual meeting of Kerala State Ophthalmic Society, Kochi. November 27, 2010

Annual meeting of Poona Ophthalmic Society, Pune. December 19-20, 2010

Annual meeting of Indian Association of Cosmetic Laser Surgeons, Mumbai. January 8, 2011

Chrysalis 2011, Sankara Netralaya, Chennai. January 16-17, 2011

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Annual meeting of Dermatology Society of India, Gurgaon. February 5, 2011

Organizing Secretary

Synapse 2011 – A Multidisciplinary Update on Facial Aesthetic Surgery and Medicine, L V Prasad Eye Institute, Hyderabad. March 13, 2011

Suma Nalamada

National

Poster presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Acquatic aeromonas in eye infections – 5 year review

Invited faculty

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Participant

Twin Cities microbiologists' meet, Krishna Institute of Medical Science, Hyderabad. December 18, 2010

Raja Narayanan

International

Invited speaker

28th annual meeting of American Society of Retina Specialists, Vancouver, Canada. September 1, 2010

Topics: Multifocal ERG in macular telangiectasia
23G vs 20G vitrectomy with silicone oil infusion in rhegmatogenous retinal detachment
Fundus autofluorescence pattern in mactel

Paper presentation

10th International AMD & Retina Congress, Lugano, Switzerland. October 29-30, 2010

Topic: Efficacy of bevacizumab in SRNVM secondary to macular telangiectasia

Invited speaker

Annual meeting of International Society of Ocular Pharmacotherapeutics, Macau, SAR China. December 7-9, 2010
 Topics: VEGF trap-eye in diabetic macular edema: Phase 2 results
 Anti-VEGF plus laser in diabetic macular edema

National**Invited speaker**

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010
 Topic: Management of IPCV
 23 gauge sutureless silicone oil injection and removal techniques

Poster presentation

Annual meeting of Vitreoretinal Society of India, Mysore. December 2-4, 2010
 Topic: Efficacy and safety of pegaptanib in vein occlusions

Invited speaker

CME symposium, Sadhuram Eye Hospital, Hyderabad. January 9, 2011
 Topic: ICG angiography and autofluorescence

Tapas Ranjan Padhi**National****Invited speaker**

61st annual conference of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010
 Topic: Scleral fixation of IOL: Vitreoretinal perspective

Regional meet of Indian Academy of Pediatrics, Rourkela, Orissa. May 2010
 Topic: Pediatric retinal disorders

FUSION 2010, a joint meeting of Orissa State Ophthalmological Society and Eastern India Zonal Ophthalmological Congress, Bhubaneswar. November 13-14, 2010
 Topic: Diode laser in ROP

CME on Retinal Vascular Occlusion, MKCG Medical College, Berhampur, Orissa. March 27, 2011
 Topic: Screening and management of ROP

Rajeev Reddy Pappuru**International****Poster presentation**

Association of Research in Vision and Ophthalmology meeting, Fort Lauderdale, FL, USA. May 1-6, 2010
 Topics: Relationship between outer retinal thickness substructures and visual acuity in eyes with dry age related macular degeneration (AMD)
 Clinical significance of frame averaging with spectral domain OCT
 Variation in outer retinal substructure thicknesses with age in normal eyes
 Impact of B-scan density on spectral domain OCT retinal thickness measurements
 The susceptibility of extracellular matrix-related gene variants in age-related macular degeneration
 The del443ins54 polymorphism in ARMS2 is strongly associated with age-related macular degeneration in an Indian cohort
 Assessing accuracy of intraocular measurements made by camera systems using prosthetic retinal arrays
 Serial measurement of tear meniscus by Fourier-domain optical coherence tomography after instillation of artificial tears in patients with dry eyes

Correlation between optical coherence tomography tear meniscus parameters and Schirmer's test and tear break-up time

Fourier domain optical coherence tomography blood flow assessment in patients with glaucoma: A new blood flow method

Quality control for Doppler optical coherence tomography of retinal blood flow

Invited speaker

41st Annual Doheny Day Conference, Doheny Eye Institute, Los Angeles, USA. June 11, 2010

Topic: Relationship between outer retinal substructures and visual acuity in eyes with dry age related macular degeneration

Dept. of Ophthalmology & Visual Sciences, University of Wisconsin, Madison, USA. June 2010

Topic: Importance of measuring outer retinal substructures in retinal diseases.

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Topic: Characteristics of choroidal lesions with long wavelength (1mm) optical coherence tomography

National**Chief instructor/Invited speaker**

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Optical coherence tomography in ophthalmology
 Sutureless vitrectomy with 20G instruments

Invited speaker

Karnataka State Ophthalmology Society meeting, Udipi. October 30, 2010

Topic: Impact of advances in retinal diagnostics on surgical management of retinal diseases

Vidyalatha Parsam**International****Paper presentation**

Annual meeting of Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, USA. May 1-6, 2010

Topic: Transcript analysis of constitutional mutations in the RBI gene in retinoblastoma patients reveals different patterns of missplicing

National**Paper presentation**

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Transcript analysis of constitutional mutations in the rbl gene in retinoblastoma patients reveals different patterns of missplicing

Niranjan K Pehere**National****Invited faculty**

CME, Ganapati Netralaya, Jalna. December 26, 2010

Topics: Evaluation of a case with squint
 Synoptophore
 Hess chart
 Interpretation of VEP

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Free paper

Topic: Rotational autokeratoplasty in children

Invited faculty

Topics: Visual fields in neuro-ophthalmology
Use of Botox in squint

Veerendranath Pesala**International****Poster presentation**

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, FL, USA. May 2-6, 2010

Topic: Measurement of consensual accommodation in unsighted eyes using auto-refraction

Invited speaker

The Accommodation Club meeting, Bascom Palmer Eye Institute, University of Miami, Florida, USA. May 7, 2010

Topic: Auto-refraction measurement of consensual accommodation in unsighted eyes

National**Poster presentation**

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Investigation of a dual-optic accommodating intraocular lens in cataract surgery: Phase 2 safety and efficacy study

Invited speaker

Elite School International Conference on Optometry and Vision Science (EVIOC 2010), Sankara Netralaya, Chennai.

August 12-14, 2010

Topic: Auto-refraction measurement of consensual accommodation in unsighted eyes

Brinda Priyadarshini**International****Participant**

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Quality Assurance workshop, American Association of Tissue Banks, FL, USA. November 10-12, 2010

Invited faculty

Eye Bank of Ethiopia, Addis Ababa. January 8-14, 2011

National**Invited speaker**

SightLife annual meeting, Jaipur. January 29-31, 2011

Padmaja K Rani**International****Invited speaker**

48th International Society for Clinical Electrophysiology of Vision meeting, Perth, Australia. November 5-10, 2010

Topics: Multifocal electroretinography in Type 2 idiopathic macular telangiectasia

Prevalence of vitreoretinal abnormalities in retinitis pigmentosa – an OCT study of Indian eyes

Clinical profile and electroretinographic characterization of rod monochromatism

National**Invited speaker**

Diabetic retinopathy – from bench to population, SN ARVO 2010, Sankara Nethralaya, Chennai. September 9-11, 2010

Topic: Overview of diabetic retinopathy screening models in India

Harsha BL Rao**National****Invited speaker**

Annual meeting of Bombay Ophthalmic Association, Mumbai. August 14-15, 2010

Topics: Spectral domain OCT in glaucoma

How to use imaging techniques in clinical practice

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topic: Medical management of glaucoma

CME on Glaucoma, Railways Hospital, Baroda. December 5, 2010

Topics: Clinical evaluation in glaucoma

Optic disc evaluation in glaucoma

Interpretation of visual fields in glaucoma

Medical management in glaucoma

Gullapalli N Rao**International****Keynote lecture**

World Cornea Congress VI, The Cornea Society, Boston, USA. April 7-9, 2010

Session: World health & eye banking session

Topic: Eradicating corneal blindness

Guest lecture

John Ashley Lecture, Sheie Eye Institute, Philadelphia, USA.

April 29, 2010

Topic: How can we eliminate avoidable blindness, a global perspective

Invited speaker

Akshaya Patra 2010 – Chicago Food for Education Benefit Event, Chicago, USA. May 1, 2010

Topics: Global health challenges

VISION 2020

To tie in food & literacy to eradication of health problems

World Ophthalmology Congress, Berlin, Germany.

June 5-10, 2010

Panel discussions

Session: Africa – can we succeed in the greatest challenge to blindness prevention?

Session: Coordinated planning (global, regional & national)

Presented expert statement

Session: Advocacy & resource mobilisation

Presented expert statement

Bernardo Streiff Medal Lecture

Topic: Global blindness control: What can we possibly achieve by 2020?

Invited speaker

Session: VISION 2020: 10 years on, 10 years to go

Topic: How VISION 2020 developed

Session: Partnership beyond eye care sector

Topic: The need to reach beyond the eye care world and partner with other initiatives

Invited speaker

Annual meeting of Asia Pacific Academy of Ophthalmology, Beijing, China. September 16-20, 2010

Session: Advocacy, guidelines, and management of human and economic resources

Topic: How to get self-financing in prevention of blindness programs

Session: Ophthalmic education
Theme: Solving controversial issues in ophthalmic education
Topic: How should ophthalmic subspecialties be taught and certified in developing countries?

Welcome Speech, as Chairman of ICEE

World Congress on Refractive Errors Conference, International Centre for Eyecare Education, Durban, South Africa.
September 20-24, 2010

Invited speaker

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

International Forum: Can we do better? The global perspective on eye care in the United States and volunteering here and abroad

Session: Increasing access and affordability of eye care in the USA – the international community's perspective

Topic: Perspective of a non-US ophthalmologist who has practiced in USA

National

Convocation Address

Dr NTR University of Health Sciences, Vijayawada.
April 11, 2010

Keynote speaker

International Symposium on Community Ophthalmology, Indian Association of Community Ophthalmology, Kolkata.

October 29-31, 2010

Chair, Session – Sum up Package

Dr Aroop Midya Memorial INACO Oration 2007

Topic: Task for tomorrow

Convocation Address

Vignan Jyothi Institute of Management, Hyderabad.
November 9, 2010

Foundation Day Lecture

Centre for Cellular and Molecular Biology, Hyderabad.
November 26, 2010

Topic: Research and relevance to communities

Varsha Rathi

International

World Cornea Congress VI, The Cornea Society, Boston, USA.
April 7-9, 2010

Free paper

Topic: Boston ocular surface prosthesis in Stevens-Johnson syndrome in tertiary eye care centre in India

Poster presentation

Topic: Phototherapeutic keratectomy in recurrence of granular dystrophy after penetrating keratoplasty

Free paper

American Society of Cataract and Refractive Surgery symposium, Boston, USA. April 10-14, 2010

Topic: Boston ocular surface prosthesis in tertiary eye care centre in India

National

Invited speaker

Symposium on Ocular Surface Disease, eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad.
October 1-3, 2010

Topic: Ventilated scleral lens in advanced ocular surface disease

Diagnostics in Ophthalmology meeting, Ganapathi Netralaya, Jalna. December 25-26, 2010

Topics: Technique of soft and toric soft contact lens fitting

Technique of rigid contact lens fitting

69th All India Ophthalmological Society meeting, Ahmedabad.
February 3-6, 2011

Free paper

Topics: Boston ocular surface prosthesis in paediatric patients in India

Role of optical coherence tomography in Boston ocular surface prosthesis fitting

Poster presentation

Topic: Role of scleral lens in vernal keratoconjunctivitis and keratoconus and limbal stem cell deficiency

Virender Sachdeva

International

Poster presentation

37th annual conference of American Academy for Pediatric Ophthalmology and Strabismus, San Diego, USA.

March 30 – April 3, 2011

Topic: Outcomes of surgery for bilateral Duane's retraction syndrome

National

Invited speaker

61st annual conference of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topic: Re-operations in strabismus: Is there a nomogram

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Evaluation of a case of pediatric cataract

Surgical management of pediatric cataract

Making sense of imaging in neuro-ophthalmological practice

Idiopathic intracranial hypertension: Concepts in evaluation and management

Acquired esodeviations

Decision making in strabismus

Re-operations in horizontal strabismus session

Convener, Instruction Course

Topic: Current perspectives in neuro-ophthalmology

Panelist

XVII annual meeting of Strabismus Society of India, Jaipur.
December 18-19, 2010

Topic: Strabismus Fixus

CME, Nellore Ophthalmological Society, Nellore.

January 23, 2011

Topic: Strabismus evaluation

Moderator

Workshop on *Examination of visual acuity in children and strabismus evaluation*, Narayana Medical College, Nellore. January 24, 2011

Virender S Sangwan

International

Invited speaker

International Ocular Surface Inflammation Group meeting, Chicago, USA. September 8-11, 2010

Topic: Cell-based therapy for ocular surface reconstruction: Gaps in knowledge

Inaugural speaker

"Innovations in Vision Restoration" lectures of The Louis J Fox Joint program of UPMC Eye Center & McGowan Institute for Regenerative Medicine, Pittsburgh, USA. October 14-15, 2010

Topic: Cell-based therapy for ocular reconstruction

Uveitis Subspecialty Day, annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Invited faculty

Topic: Surgical management on scleritis

Poster presentation

Topics: Luveniq (LX211/Voclosporin) as corticosteroid-sparing therapy in clinically quiescent sight-threatening noninfectious uveitis: Results of the LX211-02 study of the LUMINATE clinical program

Voclosporin (LX211) as corticosteroid-sparing therapy for posterior active sight-threatening

Non-infectious uveitis: Results of the LX211-01 of the LUMINATE program

Video presentation

Topics: Wonder of water: Hydrodynamics simpler than phacodynamics!

Difficulties in phacoemulsification in difficult situations and possible management

Peripheral ulcerative keratitis: An enigma for clinicians

2nd Asia Cornea Society biennial scientific meeting, Kyoto, Japan. December 1-3, 2010

Invited speaker

Topic: Ocular surface reconstruction – long-term outcome of cultivated limbal epithelial transplantation (CLET)

Poster presentation

Topic: Outcome of rebubbling for graft detachment following Descemet's stripping endothelial keratoplasty (DSEK)

Invited speaker

Asia-ARVO meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Cell-based therapy for ocular surface reconstruction
Long-term outcome of cultivated limbal epithelium transplantation (CLET)

National

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Poster presentation

Topics: Oral epithelial cells transplanted on to corneal surface tend to adapt to the ocular phenotype

Co-culture of autologous limbal and conjunctival epithelial cells to treat severe ocular surface disorders: Long-term survival analysis

Rotational auto keratoplasty (RAG) for non-progressive paracentral corneal opacities

Outcomes of Descemet's stripping endothelial keratoplasty (DSEK) in paediatric age group

Investigation of a dual-optic accommodating intraocular lens in cataract surgery: Phase 2 safety and efficacy study
Boston ocular surface prosthesis in paediatric patients in India

Neonatal infectious keratitis – five years' experience at a tertiary eye care center

Paper presentation

Topics: Age-related changes in the optomechanical properties of human lenses: A comparison of Indian and American eyes
Outcome of ipsilateral autologous cultivated limbal epithelial transplantation (CLET) in partial limbal stem cell deficiency (LSCD)

Implantable lens effects on corneal curvature and refraction
Detection of viruses in aqueous humor of patients with Fuchs' Hetero Uveitis (FHU)

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Invited speaker

Topics: Ocular surface disorders

End-stage corneal disease

Severe allergic eye disease

Management tips in scleritis

Free paper

Topics: Descemet's stripping endothelial keratoplasty (DSEK) in eyes with failed penetrating keratoplasty (PK)

Long term outcomes of keratoplasty in patients with autologous cultivated stem cell transplantation following chemical injury

Detection of various infectious agents in aqueous humor of patients with Fuchs' Heterochromic Uveitis

Poster presentation

Topics: Neonatal infectious keratitis – five years' experience at a tertiary eye care center

Outcomes of unilateral traumatic cataract (TC) in preschool children – a five year analysis at a tertiary care center

Outcomes of Descemet's stripping endothelial keratoplasty (DSEK) in paediatric age group

Outcome of cultivated oral mucosal epithelial transplantations (COMET) for bilateral severe limbal stem cell deficiency (LSCD)

Outcome of rebubbling for graft detachment following Descemet's stripping endothelial keratoplasty (DSEK)

Deep anterior lamellar keratoplasty in a case of congenital corneal keloid

Mooren's ulcer in pediatric patient

Video presentation

Topic: Ahmed Glaucoma Valve with Boston Keratoprosthesis

Open Forum

Topic: Conjunctival tuberculosis: Single institution experience

Chair, live surgeries

Topic: Phacoemulsification

Invited faculty

Ophthalmic Update, Armed Forces Medical College, Pune. October 9-10, 2010

Topic: Cell-based therapy for ocular surface reconstruction and end-stage corneal diseases: Clinical management

Invited speaker

Prof Mahendra Mishra Oration, FUSION 2010, a joint meeting of Orissa State Ophthalmological Society and Eastern India Zonal Ophthalmological Congress, Bhubaneswar. November 13-14, 2010

Invited faculty

Ahmedabad Ophthalmic Society meeting, Ahmedabad. January 23, 2011

Topic: Management of end-stage corneal disease

Invited as expert

Technology Information, Forecasting & Assessment Council (TIFAC), Department of Science & Technology and Govt of India for brain-storming session on 'Technology for Changing India: 2035 and Beyond', New Delhi. January 25, 2011

Kunjaj Sejpal

International

Poster presentation

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, FL, USA. May 2-6, 2010

Topic: Outcome of autologous, cultivated limbal epithelial transplantation in limbal stem cell deficiency

National

Paper presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Outcome of ipsilateral, autologous, cultivated limbal epithelial transplantation in partial limbal stem cell deficiency

Invited speaker

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010.

Topics: Role of amniotic membrane grafting in ocular surface disorders

The Boston Keratoprosthesis: Indications and outcomes

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topic: Clinical outcome of autologous, ex-vivo cultivated limbal epithelial transplantation in pediatric limbal stem cell deficiency

G Chandra Sekhar

International

Session chair

Glaucoma Research Society Meeting, Kyoto, Japan.

April 1-3, 2010

Topic: Worldwide glaucoma management

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, FL, USA. May 2-6, 2010

Discussant

Topics: Medical therapy of glaucoma

Consensus VII: Medical therapy of glaucoma

Poster presentation

Topic: Glaucoma in microspherophakia

Chair, session/Invited speaker

25th Asia Pacific Academy of Ophthalmology joint meeting with American Academy of Ophthalmology, Beijing, China.

September 16-20, 2010

Topics: Management of failed trabeculectomies

Management of bleb leaks

Trabeculectomy – when is antifibrotics indicated?

Medical and laser treatment for glaucoma – a developing country perspective

A pyramid model of eye care for glaucoma

The role of plateau iris in PACG and its treatment

Invited faculty

Topic: Secondary glaucomas

Member, Technical Program Committee

Wireless Health 2010, La Jolla, CA, USA. October 4-7, 2010

Lead, panel discussion on *Wireless Health in Developing Regions*

Participant

Council of Members meeting, International Agency for Prevention of Blindness, Geneva, Switzerland.

October 11-12, 2010

Invited speaker

Asia-ARVO Meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Understanding glaucoma progression with guided progression analysis

National

Invited speaker

Zonal meet of Glaucoma Society of India, Varanasi.

April 11, 2010

Topics: IOP in glaucoma

Disc evaluation

Medical management & surgical treatment

Chair, Glaucoma Update

Indian Association of Community Ophthalmology meeting, Kolkata. October 31, 2010

Invited speaker

Topic: Evidence based medicine

Moderator: Managing problems in the community eye practice.

Glaucoma Management Trends, Indore Ophthalmic Society, Indore. November 21, 2010

Topics: Gonioscopy

Optic disc evaluation

Newer imaging technologies

Perimetry – basic & interpretations

Laser iridotomy

Glaucoma Management Trends, Bangalore Ophthalmic Society meeting, Bangalore. February 12, 2011

Topic: Pearls and perspectives in glaucoma management

Regional-level Scientific Workshop on *New Initiatives and Trachoma*, National Programme for Control of Blindness, Chennai. March 27, 2011

Topic: Prevalence of glaucoma, diagnosis & treatment

Sirisha Senthil

International

Annual meeting of American Academy of Ophthalmology, Chicago, USA. October 16-19, 2010

Paper presentation

Topic: Diagnostic ability of macular and optic nerve head parameters by spectral domain OCT in early glaucoma

Poster presentation

Topics: Predictors of normal optic nerve head, retinal nerve fiber layer, and macular parameters measured by spectral domain OCT

Glaucoma in microspherophakia

Video presentation

Topics: CO₂ laser-assisted deep sclerectomy in open-angle glaucoma

Leaking bleb: How to fix it?

National

Invited faculty

Suryodaya Glaucoma Update, Suryodaya Eye Centre, Calcutta Medical Research Institute, Kolkata. September 12, 2010

Topics: Phaco-trabeculectomy

My experience with Ahmed Glaucoma Valve

Live surgical demonstration of Ahmed Glaucoma Valve

Invited speaker

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topics: Cataract surgery in a post filtering eye

Recent advances in the surgical management of glaucoma

Video presentation in Swaroop video session on CO₂ deep sclerotomy

Kerala State Ophthalmic Conference, Kochi.

November 26, 2010

Topics: Management of pediatric glaucoma

Aqueous drainage devices in children

Savitri Sharma

National

Invited speaker

Vin basix 2010, National Conference on Basic Medical Sciences, Salem. April 10, 2010

Topic: Investigations of ocular infections

Anatomical Society of India (Orissa Chapter) meeting, Cuttack. June 7, 2010

Topic: Fluorescence microscopy and its application

4th annual conference of Indian Association of Medical Microbiologists (Orissa Chapter), LVPEI, Bhubaneswar.

August 8, 2010

Topic: Microbiological diagnosis of ocular infections using conventional techniques

CME on *Infective Keratitis*, Dr Shroff's Charity Eye Hospital, New Delhi. October 29, 2010

Topics: Suppurative keratitis: Microbiology of bacterial, fungal and parasitic infections

Viral keratitis and rarer organisms: Newer modalities in the diagnosis of viral keratitis

FUSION 2010, a joint meeting of Orissa State Ophthalmological Society and Eastern India Zonal Ophthalmological Congress, Bhubaneswar. November 13-14, 2010

Topics: Microbiological evaluation of microbial keratitis

Sight Savers international quality assurance in cataract surgery: Safety standards

Chair/Invited speaker

MICROCON – 2010, 34th National Conference of Indian Association of Medical Microbiologists in association with International Society of Chemotherapy, KPC Medical College, Kolkata. November 25-28, 2010

Topic: Advances in diagnosis and treatment of fungal eye infections

Free paper

Annual conference of Indian Association of Medical Microbiologists (AP Chapter), Guntur. January 8-9, 2011

Topic: Relationship between microsporidia and adenoviruses in epidemic keratoconjunctivitis in eastern India

Invited faculty

11th Sir Dorabji Tata Symposium on Diagnostics in Infections, Indian Institute of Science, Bangalore. March 11, 2011

Topic: Diagnosing bacterial and fungal infections of the eye

S Sheeladevi

National

Free paper

Diabetic retinopathy – from bench to population, SN ARVO 2010, Sankara Nethralaya, Chennai. September 9 -11, 2010

Topic: Diabetic eye care service delivery linked from community to tertiary centre – LVPEI's pyramidal model

Paper presentation

International Symposium on Community Ophthalmology, Indian Association of Community Ophthalmology, Kolkata. October 29-31, 2010

Topic: Visual impairment among leprosy patients in Andhra Pradesh

National Bioethics Conference, New Delhi.

November 17-20, 2010

Topic: Considering ethics in community eye health planning: Perspectives from an existing model

Rachna Shukla

National

Poster presentation

XXXVI annual conference of Indian Society of Human Genetics, Manipal Life Sciences Centre, Manipal University, Manipal. February 14-16, 2011

Topic: Molecular genetic analysis of Leber's Congenital Amaurosis (LCA) in Indian patients

Preeji M Sudharman

National

Invited speaker

Cornea Club Meeting, Bangalore (through web telecast).

July 18, 2010

Topic: Contact lens fitting in keratoconus

Mukesh Taneja

International

Poster presentation

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, Florida, USA. May 2-6, 2010

Topic: Optomechanical response of human lenses refilled with polymer gel

Free paper

Accommodation Club Meeting, Bascom Palmer Eye Institute, Miami, Florida, USA. May 7, 2010

Topic: Accommodation and pseudo-accommodation measured with optical coherence tomography

Asia-ARVO Meeting on Research in Vision and Ophthalmology, Singapore. January 20-22, 2011

Topic: Anterior chamber depth changes with increasing accommodative stimuli in different age groups, measured by optical coherence tomography (OCT)

National

Invited speaker

61st annual meeting of Delhi Ophthalmological Society, New Delhi. April 16-18, 2010

Topics: Confocal microscopy – is that helpful

Deep anterior lamellar keratoplasty

Microsporidiosis – new bug in town

eye2future, Andhra Pradesh Ophthalmological Society annual meeting, Hyderabad. October 1-3, 2010

Topic: Collagen cross-linking in ectasia

Free paper

69th All India Ophthalmological Society meeting, Ahmedabad. February 3-6, 2011

Topic: Anterior chamber depth changes in accommodation measured with optical coherence tomography (OCT)

Shubha Tiwari

International

Poster presentation

Association for Research in Vision and Ophthalmology annual meeting, Fort Lauderdale, Florida, USA. May 2-6, 2010

Topic: Cultivation and characterization of human lacrimal gland cells for potential clinical application

National

Poster presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Cultivation and characterization of human lacrimal gland cells for potential clinical application

PVKS Varma

National

Invited speaker

Maharajah's Institute of Medical Sciences, Nellimarla, Vizianagaram. January 25, 2011

Topics: Angle evaluation techniques

Anatomical physiological and clinical correlation in angle closure glaucoma

Geeta K Vemuganti

International

Invited speaker

University of Rochester, Rochester, New York, USA.

April 29, 2010

Topics: Pathology of cornea and anterior segment

Update on stem cell research at LVPEI

Annual meeting of Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, USA. May 1-6, 2010

Moderator/Invited speaker

Topic: Targeting stem cells in ocular tumors

Poster presentation

Topics: Cell cycle analysis of Y 79 cell lines

Lacrimal gland cultures

Invited speaker

World Ophthalmology Congress 2010, Berlin, Germany.

June 5, 2010

Topics: Eyelid stromal tumors

Unusual ocular aneural lymphomas

Moderator/Invited speaker

Annual meeting of Asia Pacific Academy of Ophthalmology, Beijing, China. September 16-20, 2010

Topics: Utility and efficacy of cytology in ocular tumors

Clinicopathologic correlation in orbital path

Update on corneal infections & inflammation

Recent developments in corneal infections

Participant

Second Research Coordination Meeting on Improving Outcomes in Radiotherapy using Novel Biotechnologies: Modification of Tissue Reactions and the Use of Stem Cell Therapeutics, International Atomic Energy Agency, IAEA Headquarters, Vienna, Austria. October 18-20, 2010

Moderator/Invited speaker

Ophthalmic Pathology Hands-on Crash Course, Arab Forum of Ophthalmology Pathology meeting, Cairo, Egypt.

December 14, 2010

Topics: Corneal pathology

Lens pathology

Orbital pathology

Role of histopathology in corneal infection

Ocular surface stem cells: Where do we stand in 2010?

National

Chair, Panel discussion

Guidelines for Stem Cell Research and Therapy, National Institute for Advanced Studies, IISc campus, Bangalore.

April 10, 2010

Chair, session

Indian Association of Pathologists and Microbiologists state chapter meeting, Hyderabad. July 10, 2010

Invited speaker

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: Gene and cells based therapy

Stem Cell Task force meeting, New Delhi. August 4-5, 2010

Indian Association of Medical Microbiology, Orissa Chapter (through videoconference), LVPEI, Hyderabad. August 23, 2010

Annual CME, International Academy of Pathology - Indian Division, Bangalore. September 5, 2010

Topic: Ocular changes in diabetes

Workshop on Stem Cell for Vision, Aravind Medical Research Foundation, Madurai. October 26, 2010

Topic: Role of limbal stromal cells in limbal niche

Symposium on Stem cells in development and regeneration: From the bench to bedside and back, 76th annual meeting, Indian Academy of Sciences, Goa. November 12-14, 2010

Topic: Cell therapy for ocular services

Indian Society of Gastroenterology (ISGCON 2010) meeting, Hyderabad. November 21, 2010

Topic: Cancer stem cells

59th annual conference of Indian Association of Pathologists and Microbiologists, Hyderabad. December 9-12, 2010

Kovai Vilas

International

Poster presentation

Workshop on 'Seeing is Believing' Projects Phase III – Learning, Standard Chartered Bank, Kuala Lumpur, Malaysia.

January 10-14, 2011

Topic: Implementation of Vision Centre program: Perceptions of the evaluation team of LVPEI during 2009-2010


National

Paper presentation

18th annual meeting of Indian Eye Research Group, L V Prasad Eye Institute, Hyderabad. July 31 – August 1, 2010

Topic: An estimate of patient costs and benefits of the new primary eye care model utilization through Vision Centres in Andhra Pradesh, India

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



The LV Prasad Eye Institute Network reaches 1.4 million people every year. While it all started with one person's vision, many people and organisations came to share the dream and joined the caravan. Twenty-four years later, the list of our benefactors, supporters, contributors and friends continues to grow. We can never thank them enough!

This year we take a look at some of the people who journeyed with us to concretise new initiatives. Because of their generosity, excellent eye care is now available at a new tertiary centre, a serene secondary care centre and a comprehensive Children's Eye Care Centre. The fourth story is of a virtual extension – tele-education, through live videoconferencing facilities. The donors for these projects came right from home, from another state in India and from a different continent – quite like our varied support base.

Health and Education for All



Mr Kode Satyanarayana, a successful industrialist and a true philanthropist says, “Providing a person the financial means to educate his/her children is one of the best ways you can help someone.” He adds, “Considering the present state of health care in the country and the way some private hospitals drain the resources of families in the event of sickness, it has also been a policy in our organizations to defray some of the medical expenses for the needy and deserving cases, whenever possible.”

It was this public-spirited attitude that brought Mr Kode Satyanarayana and Dr Gullapalli N Rao and LV Prasad Eye Institute (LVPEI) together. The LVPEI model touched a chord in him, spurring him to be part of a mission to reach out to those in need. Since the year 2000 he has been a major supporter of LVPEI. “Later, when Dr Rao invited me to be part of the Vijayawada center I grabbed the opportunity with both hands,” he says.

Mr Satyanarayana’s father Mr Kode Venkatadri Chowdary was Municipal Commissioner of Vijayawada in 1947 and had served with distinction in various positions across the state till his retirement in 1958, when he was Regional Inspector of Local Administration in charge of six districts. “It was only fitting to name the Vijayawada center after my father who was a pillar of strength and a beacon of light to all of us in the family,” says Mr Satyanarayana.

After completing a degree in civil engineering from Annamalai University, Mr Satyanarayana worked for a while in the government and private sector. He moved to Hyderabad in 1965 and, a few years later, became part of a group of four like-minded people to start an enterprise that set up eight different industries over a period of time. Spectra Bottling Company and Spectra Foods and Beverages were part of this group. In 1992 when the four

partners parted ways amicably, Mr Satyanarayana and his family members took over Spectra Bottling and Spectra Foods. The next few years saw a dramatic increase in the family’s financial well-being as good management principles and hard work, coupled with employee friendly policies led to a spectacular 35% compounded annual growth rate in all the companies.

The family members of Mr Satyanarayana include his wife Mrs Satya Gnana Prasunamba, his daughter and son-in-law Mrs Lalitha and Mr Athota Sudhakar, his eldest son and daughter-in-law Mr Durga Prasad (Additional Director General, Police) and Mrs Sujatha, his youngest son and daughter-in-law Mr Venkata Ramana and Mrs KV Sandhya and eight grandchildren, all of whom are professionally well qualified. Later, the family pooled in to form the Kode Venkatadri Chowdary Charitable Society to undertake socially responsible activities like helping the needy in the areas of education, health care and old age care.

In 1997, when Coca Cola came knocking on the door the family sold Spectra Bottling and invested in other businesses. A fair portion went into the Charitable Society that Mr Satyanarayana had founded to honour his father. It is from the Kode Venkatadri Chowdary Charitable Society that the philanthropy spread its wings to help young people with educational scholarships and provide health care and old age care for the needy.

All the members of Mr Satyanarayana’s family have supported the building of the Kode Venkatadri Chowdary campus of LV Prasad Eye Institute at Tadigadapa, a tertiary care center near Vijayawada, the third of its kind in the state of Andhra Pradesh. The philanthropy went beyond mere financial support — the family were involved in every aspect of the design and construction. The Vijayawada campus began seeing patients on February 16, 2011.



A Commitment to the Community

Nava Bharat Ventures Limited (formerly Nava Bharat Ferro Alloys Limited) is a business conglomerate with interests in power generation, ferro alloys, mining and sugar with multinational operations spread over India, South East Asia and Africa. Over the past three decades, the organization has won numerous accolades, each a testimony to its all-round performance in energy management, safety, work place excellence, environment protection, exports, productivity, industrial relations, labour welfare, rural development, etc.

Nava Bharat Ventures Limited (NBV) is led by Mr Ashok Devineni, Chairman and Mr P T Vikram Prasad, Managing Director. Since its inception in 1972, NBV has been allocating a part of its profits for rural developmental activities in backward areas located around the company's manufacturing plants, with special focus on education, health and provision of drinking water. Over the last few decades, the company has spearheaded numerous health initiatives for the benefit of the rural poor. It now manages three full-fledged schools that provide quality education to the backward and tribal communities of Andhra Pradesh and Orissa.

In 1989, a few years after L V Prasad Eye Institute, Hyderabad, opened its doors, the NBV founder family joined its group of committed supporters. They supported setting up of a world class eye bank at the institute, namely the Ramayamma International Eye Bank

to honour the mother-in-law of the founder Chairman, Dr D Subba Rao. The eye bank is today not only the most effective eye bank in this part of the world, enabling LVPEI to perform over 1300 cornea transplant surgeries annually but is also a major resource and training centre in the region.

Extending support for establishment of eye care centres

To serve the needs of a large tribal and underprivileged population, NBV has been supporting LVPEI's initiatives in providing quality eye care to the underserved. In 2005-2006, NBV provided financial assistance to set up L V Prasad Eye Institute at Bhubaneswar, Orissa, that opened its doors in July 2006.

In February 2011, LVPEI opened a secondary eye care centre, 'Nava Bharat Eye Centre' at Paloncha in Khammam district of Andhra Pradesh. NBV not only provided the land but also constructed the building for the eye centre and is committed to supporting it till the centre becomes self-sustainable.

Other interests in eye care include its association with Operation Eyesight Universal in establishing a Comprehensive Eye Care Unit in Zambia at the University Teaching Hospital in Lusaka, which will partner with the Zambian Ministry of Health.



The David Brown Children's Eye Care Centre

A Personal Reflection

by **Edward Hickman Brown**



In 1977 I was working in France as an expatriate employee of the Paris subsidiary of a large American multinational. When David came into our lives in March of that year and joined Soona, our daughter Shirin and me, our life was transformed. The next two years were wonderful; we thought we had everything. Apart from this superb addition to the family, I had a very good job at a senior level. Soona did occasional translations from home, but her main function was looking after the kids. And Shirin was doing very well at the British School of Paris, handily located in a town a few miles from the green and pleasant one where we lived. The latter was itself a 20-minute train ride to my workplace at La Defense, the then new Paris business centre full of skyscrapers, located just outside the city.

David was a beautiful little boy. He was energetic and active. And a charmer; everyone who met him fell in love with him. A couple of months prior to his second birthday he became quiet and his activity slowed down. His paediatrician sent us to a specialist and the terrible news was that he had leukaemia – the worst possible form of the disease, which we later learned was virtually incurable at the time. The treatment was harsh but he rarely complained. And he fought hard. At one point the doctors gave up on him and stopped the treatment. David made a spontaneous recovery and his treatment started again. But the inevitable happened and our perfect little boy was taken from us, aged only two years and eight months, in November 1979.

We were completely devastated, each of us in our own way, and also as a family. But we somehow survived. Recovery took a very long time. But, as time goes by after a tragedy, human beings fortunately always seem to remember the best times while memories of the worst fade. Our Davydoe has stayed with Soona and me; we think of him constantly. Shirin now has two young

children of her own and lives a long way from us in New Zealand. She has a very full and active life but she still invariably phones us on Davy's birthday and also on the day he left us.

Shirin graduated from the University of Durham in the UK in 1989. Her first job was in Japan and she then spent several years in Spain, before returning to the University of London and completing a postgraduate degree at the end of 1996. Until then, like most working families, we supported various charities in a modest way. In mid-1996, with Shirin no longer requiring help from us, I decided that we could support certain organizations that we admired in a much more significant manner. While we are not especially wealthy, our income had become in excess of our needs. And this also gave us a method of remembering David and keeping his name alive, by providing such support in his memory.

The charitable organisations we worked with mainly were Oxfam and the Leukaemia Research Fund (LRF) in the UK, and the International Rehabilitation Council for Torture Victims (IRCT) in Copenhagen. With Oxfam we supported projects in various parts of the world but mainly in the subcontinent – mostly India – and Africa. They generally concerned health, children's education, self-help programs, usually for women, agricultural innovation and environmental protection. In most cases plaques were provided by the recipients in memory of David, though a school we rebuilt in the Kibera slum in Kenya was named for him, as was a skills centre built for the SOS Children's Village in Botswana.



For LRF, most years we requested and were provided with details of specialized equipment they needed for research projects they intended to support in the near future. We chose a project that particularly appealed to us and provided the funding. As a result, there are plaques mentioning Davy's name on highly specialized incubators, centrifuges, nanodrops and microtomes, etc. in UK hospitals and university research centres.

With IRCT our projects concerned various publications relative to their extensive worldwide anti-torture centres. Also translations, for countries into which they needed to be smuggled. Soona and I almost always agreed on which projects to choose for all the charities. On the rare occasions when we differed, hers was invariably the better choice.

We found these activities rewarding but also felt that they were transitory by nature and would have been interested in something that was more direct, significant and permanent. By chance, in July 2008 I read an article on the BBC World Service website about the children's eye care centre that was funded by the Miriam Hyman Trust in a successful collaboration with LVPEI. It dealt with Esther Hyman's trip to Bhubaneswar for its inauguration. I was touched by Miriam's tragic story but extremely impressed by her family's bravery and positive action in memorializing her in such a useful, ongoing fashion. I managed to contact their mother, Mrs Mavis Hyman, and explained our situation to her. Mavis Hyman was very helpful in providing details of their experience and she spoke very highly of LVPEI's levels and standards. She was sympathetic to our needs and described Dr G N Rao in glowing terms. She suggested that I contact him and provided me with his email address.

I did some research and was amazed by LVPEI's current status and its rapid progress over the years. What impressed us most was that people who could not afford to pay received exactly the same treatment free of charge.

After that everything moved rapidly. I provided some of the above details in my email to Dr Rao. He replied immediately, expressing confidence that something similar might be arranged for us in memory of David. After a considerable amount of detailed correspondence and telephone conversations, Soona and I visited Hyderabad and Visakhapatnam at the end of 2008, with the intention of funding the CECC at the latter tertiary centre. We were very impressed with the dedicated staff at Vizag and were most disappointed to learn, when looking through the previous year's Annual Report on our last evening there, that it had already been named in advance for another major supporter. This had been overlooked.



At that point, Dr Rao advised us that a new tertiary centre was planned for Vijayawada, to be built by the end of 2010, and we immediately agreed to wait for it to be constructed. This was probably a blessing in disguise because the project was somewhat beyond our means, amounting to a little more than our total contributions during the previous 12 years. But we were determined to go ahead and were thus provided with extra time to find the funding. At the end of 2009 I wanted to revisit the first two temples that I had ever seen with Soona in India in 1973. They were Konarak and Puri. Only when making the travel arrangements did I realize that the nearest airport was Bhubaneswar. So we were also able to visit the Miriam Hyman CECC while we were there, and were extremely impressed by its very efficient operation under Dr Kesarwani. We owe a huge thank you to the Hymans for the inspiration. And to Mavis for all her help.

After we transferred the funding for Vijayawada, we received a singular email from Nag Rao. What he said about our munificence was very nice of him but not all that important. But he ended by saying that because David's CECC exists, over future years hundreds of thousands of children in the area, who would not otherwise have had it, would be given the gift of sight. Who could ask for more than that?

Furthermore, the inauguration ceremony was more than we could ever have hoped for. We loved the layout and the decoration of the Children's Centre and we were pleased to meet Dr Niranjana Pehera who will be running it. His attitude and reputation impressed us. He promised to do his utmost to make it the very best CECC within the LVPEI group. During his speech, Dr Rao said, "We are happy that we are doing it here. It is 5 miles from where I was born; 5 miles from where I started my education. And 5 miles from where I got my wife!" Soona and I believe that "the 5 mile man" will take a very special interest in the progress of the Vijayawada Tertiary Centre. And, given that, we also believe that Dr Pehera has a pretty good chance of achieving his objective.

Creating Virtual Global Classrooms

The Karam Chand Thapar Tele-education Academy

Mr Vikram M Thapar, grandson of the late Mr Karam Chand Thapar joined his father Mr Inder Mohan Thapar as Vice Chairman and Managing Director to direct the affairs of the very profitable KCT (Coal Sales) Ltd (Karam Chand Thapar and Bros Ltd) — the largest coal logistics firm in the country. Owners of the largest number of coal mines in the country till their nationalization in the 1970s, the company has expanded into the areas of manufacture of mining, material handling and general engineering equipment and now plans to return to the coal mining business in India and abroad.

Mr Vikram Thapar was Joint Managing Director of Ballarpur Papers until he joined his father. A chartered accountant, he expanded the business to start a pioneering aquacultural venture, The Waterbase Ltd. He also promoted Indian City Properties Ltd — a premium real estate and construction company, now managed by his daughter Ms Ayesha Thapar. KCT (Coal Sales) Ltd also promoted Indicon Logistics Ltd, managed by Mr Vikram Thapar's son Mr Varun Thapar. Indicon is poised to become the largest manufacturer of all kinds of containers.

On one of his visits to LV Prasad Eye Institute for an eye examination, Mr Vikram Thapar became interested in supporting the institute in its efforts to provide quality eye care to many more people in India. In particular, the idea of partnering LVPEI in providing quality education to ophthalmologists and other eye care professionals across the network appealed to him. Today, he and his family are committed to support LVPEI through the Karam Chand Thapar Tele-education Academy that he has helped set up.

The generous support that we continue to receive from Mr Vikram Thapar and his family has helped us take ophthalmology education at our institute to the next level, both in terms of quality and reach. The videoconferencing



Mr Vikram & Mrs Jyothi Thapar

facility has allowed us to interlink LVPEI's three tertiary centres — Hyderabad, Bhubaneswar and Visakhapatnam — and our public eye health campus at Kismatpur. The interactive sessions during conferences and meetings create a stimulating and inclusive environment for academic and professional discussion.

The Karam Chand Thapar Tele-education Academy has also enabled us to videoconference guest lectures by internationally renowned specialists from the best institutions across the world, thus creating virtual classrooms, where our trainees can engage in discussion with the brightest and the best minds in the field. Soon, the group's new tertiary care centre at Vijayawada will also be linked for videoconferencing.

The teleconferencing facility is only the beginning of our ongoing process of the enhancement of LVPEI's educational facilities.



Dr Francis S Mah from the University of Pittsburgh Medical School, USA delivers a talk via videoconference

Your support makes it possible for all to see...

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