



# Jyotirmay Eye Clinic

*For Children <16 yrs and Squint  
& Pediatric Low Vision Center*

## 4<sup>th</sup> Annual Activity Report

12<sup>th</sup> September, 2008 to 11<sup>th</sup> September, 2009

**Dear Colleague,**

This report is an account of the activities undertaken by us in the past year. We have also mentioned additions/enhancements in the services of the clinic in the past one year. We sincerely thank **you** for your continued support and wishes that made these activities possible.



We would continue to provide state of the art eye care to the children and patients with squint or any other ocular motility disorder at every age and children having low vision. It will be our relentless efforts to provide care with compassion and highest ethical standard.

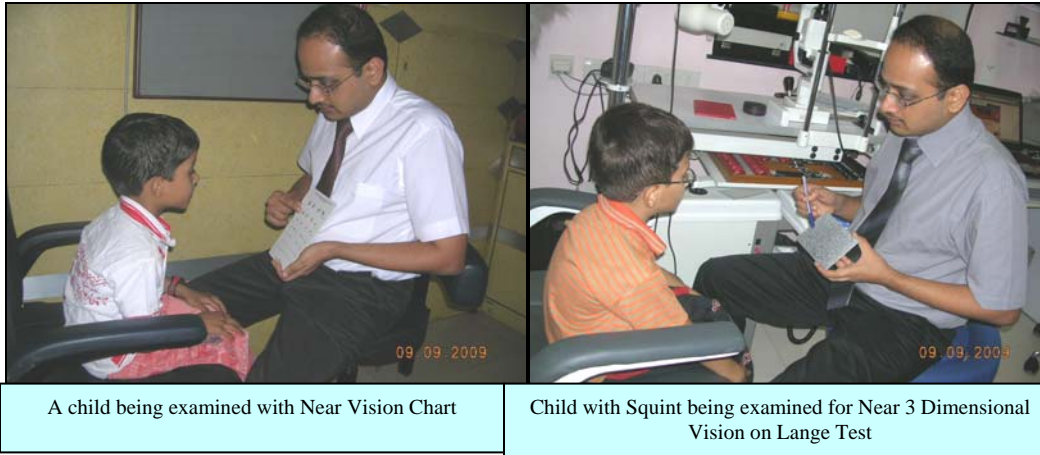
An account of all our previous activities in the form of the annual reports is available on our website [www.jyotirmay.com](http://www.jyotirmay.com)

***We exist to serve....***

**We look forward to your continued support and suggestions to enhance our performance.**



## Clinical Work



In the past year we examined 1427 new patients in the clinic. Out of this, 178 patients received free consultations and 155 received consultation at subsidized rate.

We performed 85 eye surgeries ranging from state of the art Fornix incision adjustable suture technique squint surgeries, muscle transpositions, pediatric cataract surgeries to Pediatric plastic surgeries (enucleation, orbital implant, probings, frontalis sling surgery for ptosis, probing for nasolacrimal duct obstruction by endoscopic technique etc).



We treated patients referred by many Doctors (>100) in and around Thane district. We remain thankful for their kind patronage and pledge to provide the patients a medical care of highest clinical standard that is affordable.



Screenings for the retinopathy of prematurity was performed for 27 babies. We routinely visit NICU for ROP screening. This year we visited NICU at Kaushalya Medical Foundation Trust Hospital, Thane, Puja Nursing Home, Mulund and Jupiter Hospital, Thane.

This year 49 patients were treated in Pediatric Low Vision Center. We have dispensed Low Vision Aids to nearly 16 children. Low vision center is a charitable clinic and remains very close to our heart. We derive immense joy by seeing happiness on the face of a child who otherwise can not be helped by medical care.



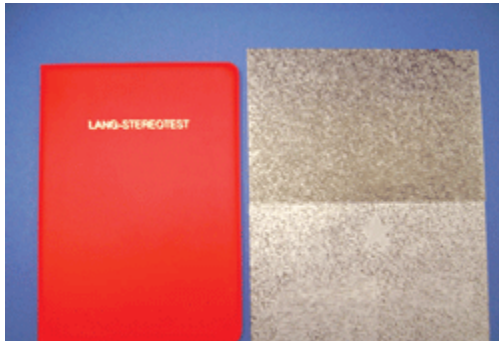
### Facilities added to the existing clinic

Department of Orthoptics: We added following facilities to this department.



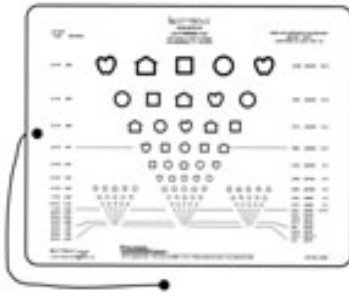


### 1. Near Stereo Acuity Testing Chart for 3year – 6year old children



Lange Stereo Test: The child identifies the hidden objects in the card that helps to grade the child's stereoacuity (From Good Lite Company USA)

### 2. Near Vision Assessment Card



Near Vision Assessment Cards: From Left 1) LEA Symbols, 2) Richmond Pictures, 3) Kay Pictures (From Good Lite Company USA and Richmond Products Inc., USA)

### 3. Fixation Sticks and Rapid Near Vision Assessment

#### 4. Near Worth Four Dot Test



Assessment of Binocular Vision for Near using a near Worth 4 Dot test (Richmond Products Inc., USA)



Fixation Sticks are used to assess the exact ocular deviation for the near (Richmond Products Inc., USA)

### Electronic Medical Record:

We have added SMS Alert software to our existing Electronic Medical Records System (**Visual Info-soft Inc.**). With this addition, an SMS is sent automatically to the referring Physician every time the patient is seen by us informing them the diagnosis and current status of the treatment. It automatically sends a reminder SMS to the patient in case of a patient missing the appointment.



### Partner Hospitals:

We provide our expertise to many partner hospitals. Some of them are fully or partially charitable hospitals others are state of the art, tertiary Eye Care centers.

1. Aditya Jyot Eye Hospital, Wadala [www.adityajyot.org](http://www.adityajyot.org)
2. Shrimad Rajchandra Hospital, Dharampur, Valsad  
[http://shrimadrajchandratharampur.org/activities/html/act\\_med\\_srh.htm](http://shrimadrajchandratharampur.org/activities/html/act_med_srh.htm)
3. Mahatme Eye Hospital and Eye Bank, Nagpur [www.mahatmehospital.com](http://www.mahatmehospital.com)
4. Mehta Eye Clinic, Ghatkopar [www.mehtaeyeclinic.com](http://www.mehtaeyeclinic.com)
5. Dr. Shah's Advance LASER Eye Center, Kalyan
6. Shree Bhairav Eye Hospital, Bhiwandi

### Community Work



Charitable Camp at Jyotirmay Eye Clinic. Patients waiting for the registration



Eye Surgery in progress during the camp.



Children waiting for the surgery in the Charitable Eye Surgery Camp.



Dr Reena, Anesthetist examining the pediatric patients for surgery. that are performed at no cost at Shree Bhairav Eye Hospital

### **Eye Camp for Children by Jyotirmay Charitable Trust, Thane:**

We conduct 2 eye camps every year for the patients visiting the Jyotirmay Eye Clinic for Surgery but could not under go the surgery due to financial restrains.

On every 2<sup>nd</sup> Friday of the month, we perform eye surgeries for children at no cost in Shree Bhairav Eye Hospital, Bhiwandi.

We are keen to be part of numerous community based eye care activity for children. We collaborate with the local philanthropic organizations for such activities.

### **Academic Work**

#### **Publications:**

1. Paralysis of the near-vision triad in a child. **J AAPOS. 2009 Apr;13(2):202-3.**
2. Evaluation of central, steady, maintained fixation grading for predicting inter-eye visual acuity difference to diagnose and treat amblyopia in strabismic patients. **Indian J Ophthalmol. 2009;57(4):281-4.**
3. Comparison of psychosocial and emotional consequences of childhood strabismus on the families from rural and urban India. **Indian J Ophthalmol. 2009;57(4):285-8.**
4. Psychosocial and emotional consequences of childhood strabismus in Rural and Urban India. **Indian J Ophthalmol. 2009;57(4):288-10.**



5. Status of pediatric eye care in India. *Indian J Ophthalmol.* 2009 Mar-Apr;57(2):162.
6. Excision of persistent pupillary membrane using a suction cutter. **J Pediatric Ophthalmol Strabismus.** 2009 May-Jun;46(3):187.
7. A novel technique of management of conjunctival inclusion cyst following strabismus surgery using double injection technique and isopropyl alcohol (**In Print - J American Academy of Pediatric Ophthalmology and Strabismus**)
8. Interferon alpha in the management of recurrent conjunctival papilloma (**In Print - Cover Page in J AAPOS and the article inside**)

**Poster Presentations:**

1. Paresis of near vision complex in a child. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
2. Evaluation of Binocular Fixation Preference (BFP) testing by CSM (central, Steady, maintained) fixation grading for predicting inter-eye visual acuity Difference in order to diagnose and treat amblyopia in patients with Strabismus. ASIAARVO 2009, January, Hyderabad, India
3. Ultrarapid school vision screening using the Brückner test ASIAARVO 2009, January, Hyderabad, India (**Best Poster Award of American Academy of Research in Vision and Ophthalmic Science**)
4. Psychosocial and emotional consequences of childhood strabismus in Rural and Urban India. AIOC, 2009, Feb 4<sup>th</sup> to 8<sup>th</sup>. Jaipur. India.
5. Diabetic Retinopathy in Urban Slum in Western India - A Pilot Study, American Academy of Ophthalmology meeting, San Francisco, CA, USA.

**Oral Presentations:**

1. Slowing the Myopia Progression: Evidence Based Approach. Annual Conference of the Bombay Ophthalmic Association, September, 2008. Grand Hyatt, Mumbai.
2. Future of Amblyopia therapy and the ongoing research. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.

## Annual Activity Report 2008/09



3. Pediatric Vision Testing and Refraction. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
4. Spectacle Prescribing Guidelines in children. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
5. Comparison of Psychosocial and emotional consequences of childhood strabismus in families from Rural India and Urban India.
6. Accuracy and Reliability of Binocular Fixation Preference Testing (CSM grading) in the diagnosis of preverbal children with strabismic amblyopia. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
7. Predicting the postoperative deviation based on the deviation measured under general anesthesia during the surgery. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
8. Comparison of Cardiff Acuity Cards and Lea Gratings for the assessment of visual acuity in children aged 6 months to 3 years. 17<sup>th</sup> Oct to 19<sup>th</sup> Oct, 2008, Fore Sight 2008; Annual Conference of the Maharashtra Ophthalmic Society, Taj Residency, Aurangabad.
9. Accuracy and Reliability of Binocular Fixation Preference Testing (CSM grading) in the diagnosis of preverbal children with strabismic amblyopia. 18<sup>th</sup> Oct to 21<sup>ST</sup> Oct, 2008, Strabismic Panorama, Maulana Azad Medical College, Delhi.
10. Squint in Children. IAP, Thane. KAMFTH. Dec, 2008.
11. Low Vision Rehabilitation in Children. 28<sup>th</sup> Dec, 2008, Coimbatore, India.
12. Is cycloplegic refraction necessary in children having mild to moderate compound myopic . astigmatism? ASIAARVO 2009, January, Hyderabad, India
13. **Chief Instructor** *Fine art of Prescribing "glasses" in children.* AIOC, 2009, Feb 4<sup>th</sup> to 8<sup>th</sup>. Jaipur. India.
14. Reliability of CSM grading to assess inter eye acuity difference in strabismic amblyopia. AIOC, 2009, Feb 4<sup>th</sup> to 8<sup>th</sup>. Jaipur. India.



**15.** Predicting the postoperative deviation based on the deviation measured under general anesthesia during the surgery AIOC, 2009, Feb 4<sup>th</sup> to 8<sup>th</sup>. Jaipur. India.

**16.** Approach to the diagnosis and management of eye diseases in children below 1 year age. International Symposium on Ophthalmology, National Institute of Ophthalmology, 1<sup>st</sup> August, 2009, Pune.

**Current/Ongoing Research:**

1. Measurement of Angle Kappa using slitlamp biomicroscope.
2. Comparison of TNO test, Lang test and Randot test in the measurement of stereoacuity for near.

**Research Projects Completed in this year:**

3. Predicting a postoperative outcome by analyzing ocular deviation under general anesthesia during strabismus surgery.
4. Comparison of the predictive value of assessing the disparity in the near acuity vs distance visual acuity, crowding acuity vs single letter acuity and therapeutic trial of SyndopaPlus in amblyopia.
5. Clinical Agreement and Intra observer variations in the Bruckner test, used to screen for the presence of the significant refractive errors.
6. Role of uncorrected or inappropriately corrected refractive errors, accommodative dysfunction and anomalies in motor fusion in the causation of aesthenopia and the effect of its treatment.
7. Is there a good correlation of New Castle Control Score to the distance and near stereoacuity measurements in patients with intermittent exotropia?
8. Progression of intermittent exotropia and its psycho-social and emotional impact.
9. Visual acuity changes and Multifocal ERG in adult amblyope on patching therapy combined with Levodopa – Carbidopa therapy.
10. Accommodative dysfunction in neurologically impaired children.
11. Comparison of Dynamic retinoscopy with dynamic Bruckner test in assessment of Accommodative function in a child.



12. Efficacy and safety of Levodopa in the management of bilateral isoametropic amblyopia.

**Continuing Medical Education:**

**We attended and actively participated in teaching as well as learning at the following conferences.**

1. Conference of the Bombay Ophthalmic Association, September, 2008, Mumbai
2. Conference of the Maharashtra Ophthalmic Society, October, 2008, Aurangabad
3. Conference of the Strabismological Society of India, October, 2008, Delhi
4. Conference of the Association of Researchers in Vision and Ophthalmic Sciences, January, 2009, Hyderabad
5. All India Ophthalmic Conference, January, 2009, Jaipur

**Observers/Fellows and Interns that came to Jyotirmay Eye Clinic for learning:**

**Observers:**

Dr Shashank Ranade, MS, BARC, Chembur

Dr Sheena Dholakia, MS, Surya Eye Hospital, Mulund

**Internship/Research Collaborators:**

Mr Sanjiv, Lotus College of Optometry, Vile Parle, Mumbai

Ms Khushboo Shah, Bhartiya Vidya Peeth, Pune

Mr Jugal Shah, Lotus College of Optometry, Vile Parle, Mumbai

Ms Yashmin Shaikh, Lotus College of Optometry, Vile Parle, Mumbai

**Fellowship in Pediatric Ophthalmology and Strabismus:**

Dr Florence Manurung, MD, Jakarta, Indonesia



## Our Team

**Mr. Sushant Kalambate:** Manager

**Ms. Rakhi Khatate:** Secretary

**Ms. Hiral Dholakia:** Low Vision Specialist (D. Optom, SNTD, Mumbai, Fellow:  
LVPEI, Hyderabad)

**Dr. Reena Gautam:** Pediatric Aneshtetist

**Dr. Bhavesh Mithiya:** Pediatrician

**Dr. Mihir Kothari:** Director

### Dedication

#### *To the Teachers*



#### From Left

1. Prof Dr. Ravi Thomas, Sydney University Hospital, Australia
2. Dr. P. Vijayalaksmi, Aravind Eye Hospital, Madurai
3. Dr. David L Guyton, Wilmer Ophthalmological Institute, Baltimore, USA

