



JYOTIRMAY EYE CLINIC
FOR CHILDREN UPTO 16 YEARS & SQUINT

16/09/06

Annual Activity Report

11th September-2005 to September- 2006

Dear Colleagues,

This letter is to update you with the activities undertaken in the past one-year at *Jyotirmay Eye Clinic and Pediatric Low Vision Center*. We thank you for your continued support and wishes that made these activities possible.

OPD

In the last one-year we examined 365 patients. 339 were children and 26 were adults (with ocular motility disorder). 50 were seen in the charitable OPD and 24 children of the doctors were seen free.



Fig 1 and 2: Dr. Mihir Kothari examining the child

The timings of the Charitable OPD are extended that now functions on Mondays between 4PM to 8.30PM

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ROP Screening:

As part of the community based Pediatric Ophthalmology Services, 24 ROP screenings were done in the NICU of our attached hospitals. The children were subsequently followed up in the clinic.



Fig 3: ROP Screening in Progress

Pediatric Low Vision Services

Pediatric Low Vision Services were started on 1st January, 2006. Till date, 39 Children were examined and advised low vision interventions. Our achievement lies in an invitation from LVPEI, Hyderabad to become a Pediatric Low Vision Training Center sponsored by Sir Ratan Tata Trust. We are working towards providing non-profitable hospital based and community based Pediatric Low Vision Services and look forward to the philanthropic organizations to support this charitable service.



Fig 4: Low Vision Specialist Ms. Deepa examining a child & Fig 5: Dr. Mihir Training a Child with non-optical Low Vision Aids

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School Screening:

(CREAM: Children's Refractive Error and Eye Ailments Management project)

This three-year project is started in consultation with Dr. Praveen Nirmalan, LVPEI, Hyderabad. Till date we have screened 7500 students from seven primary and secondary schools. 644 students were diagnosed to have vision threatening eye abnormalities and advised further treatment. Phase one (four months) of this program ends in November, 2006 culminating in examination of 12,000 children, field trial of Brükner test, Data generation for the publication of the common pediatric eye diseases, cost effectiveness analysis and evaluation of this model of pediatric eye care delivery.



Fig 6: Mr Dilip and Ms. Snehal performing School Screening at Saraswati Vidyalaya, Thane

Blind School Screening:

Low vision camps were organized at Mata Lachmi Nursery for the Blind, Sion; Victoria Memorial School for the Blind, Tardeo; Happy Home and School for the Blind Children, Worli and School for the Blind Girls at Kaparada, Valsad Gujarat. Nearly 175 children were examined and the activities are still going on to avail free Low Vision Aids for them in the following two months. We look forward to the philanthropists to support the buying of the Low Vision Aids.



Fig 7: Ms Deepa and Dr. Mihir examining a child at the Mata Lachmi Nursery for the Blind, Sion

Surgeries Performed:

At this point the number of surgeries performed by us remain low. Following is a case of cyclic esotropia having a successful outcome after strabismus surgery.



Fig 8: A child before and after undergoing fornix incision, adjustable suture squint surgery

Other Clinical Sites:

We continue to work with the following organisations.

1. Aditya Jyot Eye Hospital, Wadala
2. Kaushalya Medical Foundation's Trust Hospital, Thane
3. Shrimad Rajchandra Hospital, Dharampur, Valsad
4. Mahatme Eye Hospital and Eye Bank, Nagpur
5. Dr. Smitesh Shah's Hospital, Kalyan

Academic activities:**Squint Club:**

One meeting of the ophthalmologists was conducted to impart the skills of strabismus evaluation to the comprehensive ophthalmologists. Unfortunately this activity is stopped for the time being.

Presentations and Guest Faculty:

1. Can Bruckner test be used as an ultra low cost screening test for the rapid screening of refractive errors in children? Silver Jubilee Conference of Maharashtra Ophthalmic Society and Bombay Ophthalmic Association, Grand Hyatt, Mumbai, 4th-6th Nov, 2005.
2. Invited faculty: Probing in Congenital Nasolacrimal Duct Obstruction. Silver Jubilee Conference of Maharashtra Ophthalmic Society and Bombay Ophthalmic Association, Grand Hyatt, Mumbai, 4th-6th Nov, 2005.
3. Invited faculty to speak on the Management of Superior Oblique Paralysis. Silver Jubilee Conference of Maharashtra Ophthalmic Society and Bombay Ophthalmic Association, Grand Hyatt, Mumbai, 4th-6th Nov, 2005.
4. Chief instructor for the Instruction course: Road to Orthophoria Silver Jubilee Conference of Maharashtra Ophthalmic Society and Bombay Ophthalmic Association, Grand Hyatt, Mumbai, 4th-6th Nov, 2005.

5. Co-instructor for the Instruction Course: Research Methodology. Instructed the participants on Biostatistics. Silver Jubilee Conference of Maharashtra Ophthalmic Society and Bombay Ophthalmic Association, Grand Hyatt, Mumbai, 4th-6th Nov, 2005.
6. Ophthalmology for general practitioners. Jan 2006, presented at Wada, Thane.
7. Faculty: presented 'Remediation of ocular diseases of Prematurity'. CME on Retinopathy of Prematurity 26th February, 2006 at Aditya Jyot Eye Hospital.
8. Can Brückner test be used to detect significant refractive errors in children? Presented at APAO 2006, Suntec International Convention Center, Singapore 13th Jun, 2006.
9. Can we use TNO test with inverted telescope for the measurement of distance stereoacuity? Presented at APAO 2006, Suntec International Convention Center, Singapore 13th Jun, 2006.
10. Conducted a CME on Pediatric Ophthalmology and Strabismus. 3rd September 2006 at Valsad, Gujarat.
11. Low Vision Aids in Children. *Panorbit*: Conference of Bombay Ophthalmic Association, September, 9th 2006.
12. Acute Esotropias. *Panorbit*: Conference of Bombay Ophthalmic Association, September, 2006.

CME organized:

1. CME on Pediatric Ophthalmology and Strabismus at BCEIRC, Jan 2006 with Dr. Cameron Parsa, Wilmer Ophthalmological Institute, Johns Hopkins Medical University, Baltimore, India
2. CME on Retinopathy of Prematurity, by ORBIS and Aditya Jyot Eye Hospital, Wadala, Mumbai_November, 2006
3. CME on Pediatric Ophthalmology and Strabismus by IMA Valsad at Country Club, Valsad, India_3rd September, 2006

Ongoing Research work:

Publications in Peer Reviewed Journals:

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1: Giant inclusion cyst of the cornea following filtering surgery.

Indian J Ophthalmol. 2006 Jun;54(2):117-8.

PMID: 16770029 [PubMed - indexed for MEDLINE]

2: Recurrence of bilateral herpes simplex virus keratitis following bimatoprost use. Indian J Ophthalmol. 2006 Mar;54(1):47-8.

PMID: 16531673 [PubMed - indexed for MEDLINE]

3: Characteristics and motor outcome of acute late-onset non-accommodative comitant esotropia (ANAET) in children. (*In Press: Indian Journal of Ophthalmology*)

4: Article on Retinopathy of Prematurity on www.pediatricconcall.com

Publications under Review:

1. Systemic manifestations of Alport's Syndrome presenting primarily at tertiary eye care centre.
2. Can Bruckner test be used for the diagnosis of significant refractive error? (*Indian Journal of Ophthalmology*)
3. Use of inverted telescope system with TNO test for the assessment of distance stereoacuity. (*Indian Journal of Ophthalmology*)
4. Is Cycloplegic Refraction Necessary in Children with Compound Myopic Astigmatism? (*J AAPOS*)
5. Primary Superior oblique-levator muscle synkinesis (*J AAPOS*)

Ongoing Research:

1. Optical Coherence Tomography in the evaluation of macula after pediatric cataract surgery with or without primary anterior vitrectomy.
2. Macular thickness and volume analysis using Optical Coherence Tomography in children.
3. Visual function questionnaire for the visual impairment assessment in the children with the significant refractive error

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4. Biometry in patients with high hypermetropia.
5. Emmetropization in children with high hypermetropia.
6. Use of sprayer for the instillation of cycloplegic medicines in children's eyes.
7. Is Cycloplegia necessary in children with low to moderate compound myopic astigmatism?
8. The accuracy and reliability of Nidek hand-held refractometer AR 20 in children.
9. Efficacy and safety of spray cycloplegic instillation in the children.
10. Comparison of distance stereopsis measurement using TNO test and inverted telescope system with the Nidek Projector Chart and polarizing filters.
11. Use of Computerised Vergence Software in the management of patients with Convergence Insufficiency
12. Comparison of Unaided Visual Acuity at Presentation and after Spectacle wear for 6 months in children with myopia.
13. Effect on image size in the spectacle corrected anisometropes.

The New Year comes for us with more challenges and we look forward to serve the patients with an expertise par excellence and full of compassion.

Thank you for your continuous support.

From,

Ms. Deepa Dholam, Low Vision Consultant, LVPEI Low Vision Fellow

Ms. Snehal Kosumbekar, Optometrist, *CREAM* Project In charge

Ms. Sangeeta Gholap, Receptionist

Mr. Yogesh Jadhav, Manager

Dr. Mihir Kothari, Pediatric Ophthalmologist; Director

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