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QUEST

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02

Patient Care
Activities

03

Academic
Activities

04

Laser Vision Correction
Optical dispensing

05

Community Outreach
Performance at a glance

06

Facilities available

07

SSN-ORBIS Paediatric
Ophthalmology Project



**VISIT OF THE PRESIDENT OF INDIA
DR. A.P.J. ABDUL KALAM**

On 16th of March 2007, Sri Sankaradeva Nethralaya had the privilege of the visit of His Excellency the President of India Dr. A. P. J. Abdul Kalam. In his speech, the President appreciated the untiring efforts of SSN towards social services that it has been rendering since its inception



**FOUNDATION STONE OF THE NEW BUILDING
LAID BY SRI SANKARACHARYA OF KANCHI MUTT**

On 9th March 2007, His Holinesses Sri Jayendra Saraswathi Swamigal of Kanchi Kamakoti Peetam of Kanchipuram, the Patron of SSN laid the Foundation Stone of the second building of the hospital for allied services and research activities.

SRI SANKARADEVA NETHRALAYA-THE CENTER OF EXCELLENCE

Sri Sankaradeva Nethralaya, a unit of Sri Kanchi Sankara Health and Educational Foundation, a registered charitable trust, was established in October, 1994. It is a tertiary eye care institution, service organization and postgraduate training center. Sri Sankaradeva Nethralaya is also a nodal training center in the field of Ophthalmology, recognised by the Govt. of India. The institution runs a Fellowship Programme for postgraduate. It is also the first ISO accredited eye hospital in the Eastern India.

On November 24, 1995, the then Prime Minister of India, Late. P. V. Narashimha Rao dedicated the services of the hospital to the nation. The institution was declared as a "centre of excellence" in November 2004 by the Hon'ble Prime Minister of India Dr. S. Manmohan Singh for its services in the field of eye care to the people of the region.

Sri Sankaradeva Nethralaya is committed to eye health services. Towards this, it has committed itself to providing eye care services of the highest quality to the people of the region. It is determined to maintain its position as a regional leader in ophthalmic services. It has also taken upon itself to providing educational and outreach programs.

For over a decade the hospital has been rendering yeoman service to the people of the region without discrimination of their economic status. Sri Sankaradeva Nethralaya is dedicated to providing excellent eye care services with an overriding concern for the health and well being of the community. Sri Sankaradeva Nethralaya has also set up a state-of-the-art eye bank which is the first registered eye bank of its kind in the North East.

ACTIVITIES OF THE HOSPITAL

SSN has been spearheading the tertiary and specialized eye care services in the North-East India. The hospital has a capacity of 45 beds in indoor and facility for examining 600 patients daily in its 22 examination rooms, 10 investigation rooms and 10 operation theatres equipped with state-of-the-art instruments. The services of SSN has been recognised by the different state governments of North-Eastern region as a "Referral Centre" for eye treatment of their employees. Public and Private sector companies and institutions like ONGC, BSNL, NRL, BRPL, IOC, Guwahati Refinery, FCI, Seed Corporation of India, IIT, CCI, Tata Tea Ltd. etc have also been availing SSN services for treatment of their employees. SSN is also collaborating with various International and National organizations of repute working for social development and community ophthalmology, such as

- ORBIS International, USA
- Light for the World, Austria
- North Eastern Council, Ministry of Home Affairs, GOI
- Department of development of North Eastern Region (DONER)
- National Programme for control of Blindness (NPCB)
- Ministry of social justice and human empowerment, GOI.
- Ramakrishna Mission.
- Lions Club International, India.
- Rotary International, India.
- Bharat Vikaas Parishad, India.
- Helpage India



Activities of the Hospital - 2007

HOSPITAL							
Patients Information	2007	2006	2005	2004	2003	2002	2001
New OPD Registration	35704	34143	30520	26843	25352	26247	26545
Renewal of Registration	16663	12415	11977	10697	10103	10460	10579
Total OPD Consultations(100% Free)	124304	130573	111602	96925	91540	94771	95848
No of vision restoration surgeries	5387	5630	5600	5012	4723	4863	4809
Other surgical procedures	8803	6468	1475	1237	1168	1209	1223
Percentage of free surgeries(%)	35.47%	40.06%	33.95%	34.44%	33.50%	33.02%	34.75%
Medicine OPD consultations(100% Free)	18965	12902	12139	10508	9925	10275	10392
Outreach consultations(100 % Free)	3425	3483	3101	2770	2616	2709	2739
Outreach Screening (100% Free)	14190	5860	12232	10103	9542	9879	9991
EYE BANK							
No. of Cornea Collected	144	63	104	58	42	13	13
No. of Cornea transplanted	70	27	88	56	31	10	11
No. of Free Cornea transplantations	26	24	47	27	9	3	4

HOSPITAL BASED PROGRAMME

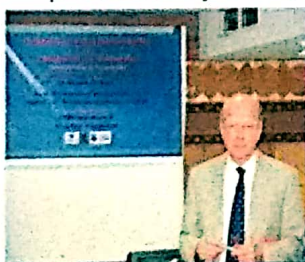
Hospital-Based Programme on Neuro-Ophthalmology and Strabismus

A Hospital-Based Programme on "Strabismus" was organized by SSN in collaboration with ORBIS International and Union Bank of Switzerland from May 27 - June 1, 2007. The HBP was attended by Dr. Robert Walters, Consultant Ophthalmologist and Mrs., Cheryl Walker, Consultant Orthoptics of University Hospital of Wales, UK as ORBIS's Volunteer Faculty. They trained four of our ophthalmologists in modern techniques of diagnosing, treatment and surgery of Strabismus patients.

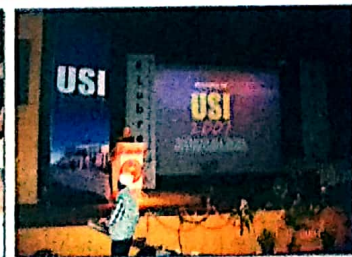


CME's

- ★ A CME on "Oculoplasty" was conducted In March 2007, by Dr. M. Subramanian of Hyderabad, ophthalmologists.
- ★ In June 2007 a CME on "Neuro-Ophthalmology and Strabismus" was conducted at SSN which was attended by Dr Robert Walters, Consltant Ophthalmologist and Mrs., Cheryl Walker, Consultant Orthoptics, of University Hospital of Wales, UK as ORBIS's Volunteer Faculty. The CME was participated by 55 local ophthalmologists.
- ★ In July 2007 a CME on "Orthoptics" was conducted at SSN which was attended by more than 35 Ophthalmologists. Ms Sazane of UK contributed to the CME.
- ★ in July 2007 CME on "Neuro Ophthalmology and General Ophthalmology – advanced technique" was also organized at SSN premises. Dr.Rashmin Gandhi of Sankara Nethralaya, Chennai conducted the same.
- ★ In July 2007 another CME on "Common Childhood Eye Disorders" was conducted at SSN under SSN - ORBIS Prioject which was attended by more than 40 ophthalmologists from the region.
- ★ In August 2007 a CME on "Refractive Surgery-Cutting Edge" was conducted by SSN which was preceded by a Pre-CME on Lasik Surgery



NATIONAL CONFERENCE



For the first time in the eastern part of the country, the Seventh All India Uveitis Society Meet - USI 2007 was hosted by Sri Sankaradeva Nethralaya in collaboration with the All Assam Ophthalmological Society on the 1st and 2nd December 2007 at the premises of Srimanta Sankardev Kalashetra, Guwahati. The Conference was attended by some national and International giants in the field of Ophthalmologist

Among the International faculties Dr.Narsing A. Rao USA, Dr.Antonio G Sacchi Italy, Dr.Carl P Herbort, Switzerland, Dr.John H Kempen & Dr.Justin Smith of USA, Dr. Chee Soon Phaik of Singapore, Dr.Christopher Deuter and Dr.Manfred Zierhut of Germany and among the National faculties, Dr.Jyotirmoy Biswas of SN, Chennai; Dr.Amod Gupta of PGI, Chandigarh; Dr.S.R.Rathinam from AECS, Madurai attended the Conference.

QUEST

LASER VISION CORRECTION

LASIK is the fastest growing vision correction procedure which is helping millions of persons worldwide to eliminate their dependence on glasses or contact lenses. In LASIK, correction of the external surface of the eye (Cornea) is done by excimer laser with precision.



Advantages of LASIK

- ❖ Visual recovery is fast.
- ❖ No bandage.
- ❖ Both the eyes can be treated at the same time.
- ❖ No pain in post operative period.
- ❖ Person can see quite clearly within an hour.
- ❖ It takes few minutes to treat both eyes.

Epi-Lasik

Epi-LASIK is an innovative procedure designed to restore natural vision with the help of an epi keratome. Here the flap is taken at a more superficial level than the usual LASIK procedure and is best suited for thinner corneas.

Advantages of Epi-LASIK

- ❖ Treatment of choice for eyes with thinner corneas.
- ❖ Treatment of choice for eyes with high powers.
- ❖ Very safe procedure.

After a complete ophthalmic examination is performed, a thorough counseling will be given to the patient to understand the benefits likely to be obtained from LASIK/ Epi-Lasik procedure. A wide range of refractive errors can be corrected including near-sightedness (myopia), far-sightedness (hyperopia) and astigmatism. SSN started its Lasik Laser Clinic in June 2006, with 400 Hz Wavefront Lasik Laser machine providing vision correction with precision.

OPTICAL DISPENSING

Sri Sankaradeva Nethralaya introduced modern optical services in its premises. Being part of the service the organization, the optical dispensing unit was setup to extend high quality optical dispensing services to its patients.

Automated lens dispensing with high precision is made possible by the fully automatic Essilor Kappa Edger & Tracer fitting and cutting machine, which is the first of its kind in the North-east.

The range of optical gadgets available in SSN's Optical Dispensing Unit are-

Lenses: Essilor Titus (thin, super), Trio, Crizal standard, Crizal ORHIL, Airwear (polycarbonate lens), Nikon (totally aspheric design), Essilor Titus Transition (grey and brown), Progressed range (single vision, D bifocal, Kryptok bifocal), Progressive addition lenses (Espace, Nikon Presio, Varilux Liberty/ Ellipse/ Comfort/ Panamic/ Comfort Transition) etc.

Special Lenses: Transition single vision (grey & brown), Transition D bifocal (grey & brown), OMEGA single vision (high plus power), OMEGA bifocal vision (bifocal for aphakies), Zeiss lens etc and all types of glass lenses.

Frames: Rodz Stock, Luxotica, Voage, Magnus, Albetros etc are

SSN is conscious about quality, variety and value for money.

Check out for variety and new arrivals.



CAPACITY BUILDING

Sri Sankaradeva Nethralaya has assisted in establishing and developing human resource for a few eye hospitals at different locations of the country in order to cater to the greater human need and to spread quality eye care services to a wider area. These are Baba Behari Nethralaya in Sirsa, Haryana; Bawri Nethralaya in Shillong, Meghalaya; Charitable Dispensary in Bonda near Guwahati; Lions Eye Hospital in Guwahati and P. C. Chatterjee Memorial Eye Hospital in Dharmanagar, Tripura.

COMMUNITY OUTREACH

Sri Sankaradeva Nethralaya started its free *Community Outreach Service* programme to provide eye care facilities to the poor people living in far-flung areas of the region. The component of the out-reach program consists of screening and identification of patients suffering from eye disease at their door steps in rural areas, pick up and transportation of patients to the base hospital (Sri Sankaradeva Nethralaya at Guwahati). In the base hospital, surgery/treatment is provided and on completion of treatment the patients are rehabilitated at their respective villages. The entire cost of treatment including transportation, stay at the community centre of the base hospital and medicines are entirely borne by the hospital.



The hospital gives free treatment to patients who are below the poverty line. Their surgeries are performed free of cost. Patients are referred by various NGOs, other social welfare organizations and institutions. The hospital also provides free treatment to BPL patients both in indoor and outdoor patients.

Outreach Centres: Sri Sankaradeva Nethralaya has been running four free rural satellite/Vision centre in Bonda near Guwahati, Kalapahar & Chatribari in Guwahati and in Bongaigoan. Like the base hospital, the Satellite/Vision centres too provide free services to people below the poverty line. Apart from its regular services, on every Sunday a team of consultants and paramedics from the base hospital visits the centres for further evaluation of more complicated cases. In the Bongaigoan Vision Centre an ophthalmologist posted their exclusively manages the centre

Executive Vision Screening: Not just confining itself to providing services to patients who come to the base hospital, SSN also reaches out to the people to extend quality eye care services through an integrated approach to eradicate blindness. Ophthalmologists and paramedical staff of SSN provide ophthalmic care and outreach services at many remote locations. Keeping in mind the need for reaching out to the



people as an extension of its outreach activities, SSN recently introduced the "Executive Vision Screening Programme", which is the first of its kind in the Northeast.

PERFORMANCE AT A GLANCE-2007

Outpatient Consultations (100% Free)	124304
Surgeries	14190
Percentage of Free Surgeries	35.47%
Outpatient Consultations (100% Free)	7581
Surgeries	719
Free Surgeries	212

STATISTICAL



QUEST

No of Corneas collected	144
No of Corneal Transplants	70
No. of Free Corneal Transplants	22
Eye Donation Awareness Meetings	26

Free Outpatient Consultations	3425
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No. of Eye screening Camps	42
Total No. of Patients screened	11267

Paying	5863
Free	2134

Postgraduate Trainees (DNB)	8
Fellowship Trainees	10
Cataract Surgery Trainees (NPCB)	10
Ophthalmic Nursing Trainees	26
Conference/CME/Workshop/Symposium	14
Teachers trained	576
Optometry Training (Internship)	14
Scientific Paper/Poster presentations	62



FACILITIES AVAILABLE

Sri Sankaradeva Nethralaya offers complete and comprehensive eye care facilities with state-of-the-art equipment and instruments

- ① ✦ Special clinics for infectious diseases of the eye, Retina, Glaucoma, Squint, Contact Lens, Ocular Injury, Ocular Tumor, Ocular Prosthesis, Neuro-Ophthalmological, Corneal, Uvea and Vitreo-Retinal Disorders etc.
- ✦ Paediatric Outpatient Department
- ✦ Evening Outpatient Department
- ✦ Ocular Pathology and Microbiology Laboratory facilities
- ✦ Special Investigations viz. Ultrasonography (Diagnostic B-Scan, A-Scan and Biometry), Autoperimetry, Fluorescein Angiography and Documentation Photography, UBM, Specular Microscopy, HRT, OCT etc.
- ✦ Microsurgery for Cataract with Monofocal/Multifocal Intraocular Lens Implantation, Glaucoma, Squint, Adnexal and Oculoplastic Problems, Malignant Intraocular and Adnexal Problems and Corneal Transplantation.

- ✦ Retinal Surgery, Pneumoretinopexy, Scleral Buckling etc.
 - ✦ Vitreous Microsurgery- full range viz. Pars Plana Vitrectomy, Endolaser, Membrane Surgery, Retinotomy, Retinectomy and facility for C_3F_8 and SF_6 LPFC and Silicon Oil Injection.
 - ✦ Laser treatment facility (Diode, Argon, Nd-YAG) for after Cataract, Glaucoma, Diabetic Retinopathy and other medical and surgical retinal problems including Retinal Detachment and Retinal Peripheral Degenerations etc.
 - ✦ Photodynamic Therapy (PDT)
 - ✦ Botox Clinic
 - ✦ Lasik Laser Clinic
 - ✦ Eye Bank
 - ✦ General Anaesthesia with ICU facilities
 - ✦ Cryosurgery for Retinal Diseases and Glaucoma
 - ✦ Community ophthalmic counseling and service through rural free Satellite Centre and free eye surgery to make targeted villages free from Cataract.
 - ✦ Optical Dispensing Unit, Utility Corner (Pharmacy) etc.
 - ✦ Library with Internet, Telemedicine, Videoconferencing and V-SAT facilities
 - ✦ Wet-Lab facility
 - ✦ Training and Fellowship programmes for Ophthalmologists. Postgraduate Training (DNB) under National Board of Examinations of Govt of India.
 - ✦ Executive Vision Screening programme
- all regular clinical facilities*

SSN-ORBIS PROJECT - PEDIATRIC OPHTHALMOLOGY UNIT

ORBIS International is an International development agency of repute working for human health care worldwide. It works with the objectives of quality eye care services, training, education, human resource development in nations with high rates of blindness. SSN joined hands with ORBIS International on a project of Paediatric Ophthalmology in the year 2004. Under this project delivery of quality eye care services are provided and educational & awareness programmes about childhood blindness among the masses conducted. ORBIS gives particular emphasis on training to professionals in paediatric ophthalmic care. This is essential because treating child patients calls for expertise in child management and specialised equipment and training. Thus, the aim of this project to develop an exclusive paediatric eye care unit of SSN that will cater to the paediatric eye care service needs of the seven states of North Eastern India is achieved.



Aims of the SSN-ORBIS Project



Keeping in mind the challenges, the project aims at developing infrastructures, human resources in the hospital besides promoting paediatric eye care services in the North-East. The achievement of the SSN-ORBIS project are -

SSN-ORBIS PROJECT ACHIEVEMENTS

Sl. No.	ACTIVITIES/ INDICATORS	QUANTITATIVE RESULTS/OUTPUTS	QUALITATIVE RESULTS/OUTCOMES
1	15 eye care personnel to be trained	75 eye care personnel trained in pediatric ophthalmology	75 eye care personnel felt confident to treat or tackle child eye problems efficiently.
2	600 teachers and community eye care workers to be trained	2145 Teachers, Community Workers, NGO Workers, Anganwadi Workers trained in Vision Screening Techniques	2145 trainees understood the various issues relating to eye disorders in children and ready to contribute to vision screening drive for children.
3	120 general doctors to be trained	616 General physicians, pediatricians, ophthalmologists were trained in pediatric eye care through CMEs, HBPs, Seminars, Workshops and FEH programmes.	616 participants became aware of issues related to pediatric eye care and committed themselves to make use of their knowledge acquired in this field.
4	99,600 children to be screened	215675 children screened for eye disorders by teachers, Community Workers, NGO Workers, Anganwadi Workers and ophthalmologists at the Base hospital of SSN	215675 children were screened and children with eye disorders were identified and referred to the base hospital of SSN for further evaluation and treatment.
5	12,000 children to be treated	26513 children treated in OPD of SSN, Confirmatory and community camps	26513 children felt comfortable after treatment and quality of life of these children improved.
6	1,250 surgeries to be performed and 1,000 children will have restored/improved vision	2750 children underwent surgeries and laser treatment for correctable ocular disorders.	2750 children had improved or restored vision following surgery and quality of life their improved.
7	5,000 mothers / guardians to be educated	15322 mothers or guardians were educated or given orientation course on child eye care at base hospital, through meetings and by teachers and community workers and more than a lac people were made aware on child eye care through print and electronic media.	15322 mothers and guardians became aware of the issues related to child eye care.

By the completion of this project the North-Eastern region has taken a step forward in quality eye care services, especially in the field of Paediatric Ophthalmology.