ACTIVITY REPORT

2022-2023

MEDICAL RESEARCH FOUNDATION
Old No. 18, New No. 41, College Road, Chennai 600 006
SANKARA NETHRALAYA
is one of
THE
WORLD'S
BEST
HOSPITALS
2022
Newsweek
For third consecutive year
Sankara Nethralaya Main Hospital  
Old No.18, New No.41, College Road, Chennai−600006

Jagadguru Kanchi Sri Chandrasekarendra Saraswathi Nethra Nilayam  
21, Pycrofts Garden Road, Chennai−600 006

Dr. V. G. Appukutty Campus  
C.U. SHAH Sankara Nethralaya & Jaslok Community Ophthalmic Centre  
Academy – Elite School Of Optometry & The Sankara Nethralaya Academy  
No.8, GST Road, St. Thomas Mount, Chennai−600 016

Sankara Nethralaya R A Puram  
New no.30, Old no.73, Kamarajar Salai, R A Puram, Chennai−600 028

Smt. T. K. Lakshmi Ammal And Smt. T.K. Alamelu Ammal Sankara Nethralaya  
New No 39. Old no. 19, 1st Main Road, East Shenoy Nagar, Chennai−600 030

Sankara Nethralaya Orange Vision Centre  
New No. 10, Old No.69. Thiruvalluvar Street, Valasaravakkam, Chennai 600087

Suraj Sankara Nethralaya  
No. 34, Dharmaraja Koil Street, Chetpet Post & Taluk, Tiruvannamalai Dist−606801

Sri City Sankara Nethralaya  
Sri City Medical Care Center, 305, North, 2nd street, Sector3,  
Sri City, Varadaiahpalem Mandal Chittoor Dist, AP−517541

Aditya Birla Sankara Nethralaya  
No.147, Barakhola, Mukundapur, E M Bypass, (Near Santhoshpur Connector) Kolkata − 700 099

Kamalnayan Bajaj Sankara Nethralaya  
Premises No.25–3333, Plot No. D J 16, Action Area−2, New Town, Kolkata − 700156

Sankara Nethralaya RSM Square  
No.10, Raja Subodh Mallik Square Kolkata − 700013
At Sankara Nethralaya, we give great attention to patient safety and quality of care received by our patients. Along with providing excellent eye care to more than 858696 patients at our 10 patient care centers in south and north India our eye care specialists carry out original biomedical research and deliver progressive academic programs to ophthalmologists and other eye care providers in India.

**The departments and sub-specialities offered at Sankara Nethralaya:**
- C J Shah Department of Cornea Services,
- Smt. Jadhavbai Nathamal Singhvee Glaucoma Services
- Shri Bhagwan Mahavir Department of Vitreo Retinal Services
- Department of Neuro Ophthalmology
- Department of Ocular Oncology
- Department of Orbit, Oculoplasty, Reconstructive & Aesthetic Services
- Department of Pediatric Ophthalmology and Strabismus
- Department of Uvea Services
- Refractive Surgery or Laser Vision Correction

Our ophthalmologists and optometrists diagnose the most complex cases and they work as a team to provide the best possible outcome for each of our patients.

Our well-equipped facilities are upgraded yearly to meet international standards of care.

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**Sankara Nethralaya**

**South India**
- 267 Beds
- 27 Operating Tables

**North & East India**
- 30 Beds
- 14 Operating Tables
2022–2023

Outpatient Consultations
431705

No of paying Surgeries
40626

Paying Surgeries Performed from 2022 – 2023

- **18966** Cataract
- **Cornea** 1791
- **2252** Glaucoma
- **Short Stay + Others** 217

- **2079** Plastic
- **Retina** 1257
- **13311** VR
- **Squint** 753
Sankara Nethralaya Orange Vision Centre Inaugurated

The Sankara Nethralaya Orange Vision Centre in Valasaravakkam, was inaugurated on Vijayadashami, 05 October 2022. Located at New #10, Old #69 Thiruvalluvar Street, Valasaravakkam, Chennai — 600087, the Centre was launched with the support of Rotary Club of Chennai IT City, and the Rotary Foundation for the benefit of the residents of Valasaravakkam and surrounding neighbourhoods. The Gopalasamy Family Charitable Trust, which is based out of the USA, munificently contributed towards the Orange Vision Centre. The Orange Vision project covering South and North India was conceived by the Rotary Club of IT City to bring affordable eye examination to every nook and corner of India.

The Chief Guest, Ms. Rajalakshmi Gopalaswamy, Gopalasamy Family Charitable Trust, inaugurated the premises. Dr. S. V. Chandra Kumar, The Project Director, TN Blindness Control Society, RTN Radha Srinivasan, Rtn Dr. Senthilnathan — President of IT City, Mr. Aravind Parthasarathy, Mr. G. P. Sarathy, Rtn PDG Muthu Palaniyappan, and other distinguished members of Rotary Club took part in the inaugural function.

Dr. Girish S. Rao, President, Sankara Nethralaya, Dr. N. Anuradha, Principal, Elite School of Optometry, Dr Sripriya Krishnamoorthy, Senior Consultant, Mr. Suresh Kumar, General Manager, Operations, were present to offer their felicitations and support at this event.
Department of Eye Bank

The C. U. Shah Eye Bank conducted many eye donation awareness programs throughout the year in schools, colleges, and hospitals to increase awareness among the public and encourage everyone to pledge their eyes after death.

Corneal Transplant services during the period April 2022 - March 2023

Total Number of eyes Collected 1124

Total Number of Corneal Transplant surgeries performed 724

Highlights during the year 2022 – 2023

Rally on National Eye Donation Day

On September 8th, 2022, National Eye Donation Day, Sankara Nethralaya (SN), and the SN C. U. Shah Eye Bank organized a rally at its Dr. V. G. Appukutty campus at St. Thomas Mount. Each year, India observes National Eye Donation Fortnight from August 25th to September 8th, 2022. During the two weeks, eye donation awareness activities are organized throughout the city to educate the public.

This year, Sankara Nethralaya’s C. U. Shah Eye Bank in collaboration with the Elite School of Optometry marched for eye donation awareness. Joining the 12 km rally were Mr. Nanda Kumar, Indian Revenue Service (IRS), Chief Guest, Dr. Anuradha N., Principal, Elite School of Optometry (ESO), Dr. Rama Rajagopal, Director, and Dr. N. Radhika, Deputy Director, Department of Corneal Services, Dr Veena Baskaran, Incharge — Community Ophthalmology, the students of ESO and The Sankara Nethralaya Academy (TSNA), and staff of Sankara Nethralaya, Chennai.
National Eye Donation Fortnight

Consultants from Sankara Nethralaya’s Department of Cornea Services, Dr. R. R. Sudhir, and Dr N Radhika gave interviews on major Tamil News Channels to raise awareness about eye donation, during the fortnight.
Akhil Bhartiya Terapanth Yuvak Parishad appreciates Sankara Nethralaya

Akhil Bhartiya Terapanth Yuvak Parishad (ABTYP) has around 350 branches around the world and is involved in many social welfare activities throughout India. The ABTYP held an exclusive recognition ceremony on Saturday, 25th February 2023, to honour and appreciate Sankara Nethralaya for spearheading the eye donation movement in South India, especially Chennai.

The voluntary organization acknowledged the sincere efforts of C U Shah Eye Bank in answering eye donation calls at any time of day or night. Since 2016, ABTYP has tied up with us and have been instrumental in motivating and encouraging people from all walks of life to pledge their eyes, and for the bereaved families to donate their loved ones’ corneas. In 2022 ABTYP has routed around 40 eye donation calls, resulting in 80 cornea harvested in Chennai.

We spoke on the process of pledging one’s eyes, eye donation of bereaved one, who can and who cannot donate eyes in the following educational institutions
NABH Accreditation Status for Entire SN

Sankara Nethralaya (Main)
Last Audit Date: 15th & 16th March 2022
Accreditation Status: Accredited
Certificate valid: 03/11/2022 to 02/11/2025

Sankara Nethralaya (JKCN)
Last Audit Date: 22nd & 23rd Nov’2021
Accreditation Status: Accredited
Certificate valid: 30/03/2022 to 29/03/2025

C U SHAH Sankara Nethralaya
Last Audit Date: 17th & 18th Dec’2022
Accreditation Status: Accredited Certificate under process
Certificate valid: 03/12/2022 to 02/12/2025

Kamalnayan Bajaj Sankara Nethralaya
Last Audit Date: 12th & 13th July ’2022
Accreditation Status: Accredited
Certificate valid: 27/07/2022 to 26/07/2025

Aditya Birla Sankara Nethralaya
Last Audit Date: 25th & 26th June’2022
Accreditation Status: Accredited
Certificate valid: 29/04/2022 to 08/04/2025

Sankara Nethralaya RA puram
Last Audit Date: 24th & 25th Sep’2022
Accreditation Status: Accredited
Certificate valid: 10/11/2022 to 09/11/2025
Department of Quality Management 2022 – 2023

- Patient feedback analysis: Patient feedback were analyzed on day-to-day basis and reported to the top management.

- Patient complaints: The minor complaints are solved by the quality team and the major complaints are addressed to the top management for their inputs and resolved subsequently.

- Manual Updates: Manuals are revised annually after review by the quality department.

- Internal audits: Internal audits are conducted at regular intervals for all locations.

- Conducting external NABH audit and findings are shared with the concerned department for necessary action and closing the noncompliance as per NABH requirements.

- Quality Indicator Meeting: Quality indicator meeting conducted for all the location. Indicators are discussed in the meeting and the suggestions of Top management fulfilled as per the NABH standards.

- Quality assurance committee meetings are conducted once in six months along with top management.

- New Safety committee formed. New Chairperson for Medical and non-Medical safety officer were nominated.

- Patient safety week was celebrated and best patient safety campaigners were rewarded. Incident reporting form was revised for better compliance.

- Facility rounds are being carried out on a regular basis

- Data Validation of quality indicator being carried out for regular basis

- Monitoring of MOCK drills (code blue, pink, red, disaster management)

- Patient safety program audit (International safety goals) conducted for (All location)

- Committee evaluation carried out for all the locations.

- Analysis of near miss and adverse event analysis (Medical and Non-Medical)

- Training and development: Orientation for the new comers, and as per the yearly training calendar the trainings are conducted in all the location.
The Department of Fund Raising at Sankara Nethralaya is the bridge that connects the altruistic donors to the institution. This department mobilizes resources from socially conscious individuals and corporates, which is used to alleviate the vision and sight-related problems of the economically deprived sections of our society. We are tasked with the responsibility of identifying prospective donors, making appeals to them to help mitigate the vision related challenges of the affected. The munificence of the generous donors channeled through the institution helps a number of beneficiaries to once again become contributing members to their families and society.

We thank all our supporters who have enabled us to extend quality eye care and maintain our infrastructure/equipment throughout this financial year:

Individual donors who contributed for Medical Equipment and naming a room in memory of their beloved family members:

1. Mr. Pradeep Balakrishnan
2. Mr. Pattabiraman R
3. Dr. Ramamurthy D
4. Ms. Shantha N
5. Mr. Dwarakanathan R
6. Ms. Renuka Devi
• Dr. Kishore Chivukula, member of the SN USA Board of Trustees, Auburn, Alabama chapter, visited the main branch at Nungambakkam, Chennai on 03 February 2023. He benevolently contributed towards naming a room and was enthusiastic about this institution’s scope of community care.

• Prof Gajendra K. Verma, a senior citizen settled in the U.K., felt an urgent need to help his motherland and donated a munificent lump sum to help disadvantaged patients. He learned of Sankara Nethralaya’s community care activities through his family members and friends. With a keen desire to help patients in North and Central India, Sri Gajendra ji requested Sankara Nethralaya to spread our care to patients hailing from Northern parts of India.

Corporate Supporters

• M/s. Bharat Petroleum Corporation Limited donated the Zeiss IOL Master 700 Optical Biometer, which has enhanced our capacity to perform cataract surgeries.
• M/s. Haworth India Private Limited contributed a UBM & B Scan, and also generously donated a consultation room at A. S. Block, JKC.
• M/s. The Clearing Corporation of India Ltd supported complicated/major surgeries during the financial year 2022-2023 and we thank them for their magnanimity and belief in our fight against blindness.
• M/s. Nichal Israni Foundation donated towards the cataract surgeries for deserving patients. They have been steadfast in their support of patients in our community care facilities in Chennai and Kolkata throughout the years.
• GRT Jewellers India Private Limited, one of our long-time supporters and patrons of our noble cause donate generously each year towards the patients in our community care facilities.
• Pilani Investment and Industries Corporation has supported us this to revamp and get new equipment to serve deserving patients.
• M/s. MSTC Limited — a new corporate supporter has joined hands with Medical Research Foundation to serve society and have funded the VERION Image Guided System to help our community care services in SN Kolkata.
• India Development and Relief Fund (IDRF) contributed a diode laser (ophthalmic equipment) to enhance our patient care services.
• Mission for Vision has been a steadfast supporter of our community activities such as eye screening camps, school screening camps, surgeries, etc.
• Lucas TVS & Delphi TVS have signed a joint Memorandum of Understanding with us for Glaucoma research activities.
• M/s Ceebros Hotels Private Limited supported magnanimously for FREE eye surgeries and named a room in A.S Block, JKCN Complex, Pycrofts Road facility.
• M/s Sundaram Home Finance Limited and M/s Sundaram Finance Limited generously funded major ophthalmic equipment to facilitate efficient diagnosis and treatment for all our patients.
• M/s. Shyam Kothari Foundation donated towards our community services and academic endeavours.
• The Executioners of Estate of Late Rustom Ruttonshaw Dalal donated generously according to his last will and testament. This magnanimous contribution facilitated the naming of a room.
The Paediatric Floor (5th Floor, MAHYCO Block) was dedicated in memory of Shri N Sankar, Chairman, M/s. The Sanmar Group. He had been a long-time supporter of our fight against blindness and his son, Mr. Vijay Sankar, Deputy Chairman, The Sanmar Group, is carrying on his father’s benevolent legacy.
Inauguration of Amiya Kumar Ghosh Vision-Aid Resource Centre – Vision Enhancement Clinic, SN- Rajarhat, Newtown

The Amiya Kumar Ghosh Vision-Aid Resource Centre – Vision Enhancement Clinic (VEC), SN- Rajarhat, Newtown was inaugurated on 31st December 2022 by Col Tapas Saha Roy, Medical Superintendent, SNK — Rajarhat (Mrs Sapna Saxena, Donor, Mr Arijit Ghosh Donor and his family). This Vision Enhancement Clinic is a joint collaboration with Vision Aid and was dedicated in memory of Shri Amiya Kumar Ghosh of Kolkota by his family in India, USA, and Australia.

This new centre is the only one of its kind in the Eastern part of India and its aim is to restore optimal vision function to patients through early intervention.
Founded in 1988, SN USA also known as the Sankara Nethralaya Ophthalmic Mission Trust – the only authorized fundraising arm of Sankara Nethralaya in the USA was established with the sole objective of raising funds to provide free services to indigent patients in India. SN USA is managed by thirty-five honorary trustees spread across fourteen chapters in the USA and is supporting several community projects of SN India.

**Sankara Nethralaya Hosts “Music For Charity Margazhi Concerts”**

This unique fundraising musical concert series focused on raising awareness on preventable blindness and the community service activities of Sankara Nethralaya. The three day musical concert featured the stellar performance of Carnatic music stalwarts like Vocalist Sri. Sikkil C. Gurucharan, Sri N. Guruprasad (Ghatam), the Sarvepalli Sisters, and the world renowned violinist, Padmashri Sangitha Kalanidhi Smt. A. Kanyakumari.

**Proclamation to Sankara Nethralaya**

President of Sankara Nethralaya USA, Sri Bala Reddy Indurthi was presented with a Proclamation from the Office of the Mayor City of New York declaring June 19th as Sankara Nethralaya Day during Padma Bhushan Dr. Suda Ragunathan’s Carnatic music concert held in the Hindu Temple Society of North America on June 19th, 2022 organized for indigent patients.

Padma Bhushan awardee, Indian American Business Entrepreneur & former CEO of PepsiCo, Indra Nooyi was the Keynote speaker. Consulate General of India, New York, Honorable Randhir Jaiswal was the special guest, Mr. Dilip Chauhan, Assistant Commissioner for International Affairs was the guest of honor and was instrumental in procuring the proclamation for Sankara Nethralaya.

**Smt Madhu Gulati donates to Sankara Nethralaya in memory of her in-laws**

Sankara Nethralaya has recently received a generous donation from Madhu Gulatiji in memory of her (Late) in-laws, Sri Bhisham Ji Gulati and Smt. Padma Vati Gulati that helped to care for 2000 deserving blind patients in India.
Sri Nathella Sampathu Chetty Clinical Laboratory

Established in the year 1982

Accredited as per 15189: 2012 standards for the last 15 years by the National Accreditation Board for Laboratories (NABL).

The first accreditation was obtained in 2007 under the Directorship of Dr. S. B. Vasanthi.

**SNSC Clinical Lab includes 3 other collection centers apart from SN Main:**

- Jagadguru Kanchi Sri Chandrasekarendra Saraswathi Nethra Nilayam (JKCN-Pycrofts Garden Road)
- C. U. Shah Sankara Nethralaya (CUSSN - St.Thomas Mount)
- Sankara Nethralaya RA Puram

**A total of 182 clinical test parameters are done with an average of around 100 collections per day (90-150).**

Of these, the accredited tests in the various departments of the lab include

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**Ocular Genetics does the pedigree, genetic counselling and the DNA based testing**

**Molecular Diagnostics unit at SN Main for various PCR based diagnostics.**

20 external hospitals use this service

**Total patients walking into the Lab - 2022: 35,920**
Clinical Laboratory | Total Investigations
---|---
Clinical Biochemistry | 112802
Clinical Hematology & Cl. Pathology | 186281
Histopathology & Cytopathology | 3236
Microbiology Serology | 33438
Microbiology Surveillance | 3238
Molecular Diagnostics(Jul-Dec’2022) | 1915
Genetics, counseling discussion offered | 672
Patients who underwent genetic testing | 350

2022–2023:

- 15 intern students Trained
- 65 Medical Laboratory Technology (UG/PG) students

Meetings:

- Dr. N. Angayarkanni, Head, Biochemistry delivered a Special Guest Lecture entitled "Clinical Chemistry and Laboratory Science Techniques" at Institute of Basic Med Sc., University of Madras, Taramani Campus on 17.03.2022.
- Dr. N. Angayarkanni, Head, Biochemistry participated in the 1st National Laboratory Directors Conclave on 30th & 31st January 2023 at KIMS Hospital, Secunderabad, Telangana
- Dr. N. Angayarkanni & Dr. Bharatselvi participated in the workshop on “Clinical Diagnostics highlighting the importance of Mass Spectrometry” at Spinco Towers on 28th July 2022.
- Dr. Harini participated from SN in the NABH ECO standards internal auditor training in February 2022 & was certified to be an internal NABH auditor.
- Dr. Harini, Quality Manager and Dr. Pralitha Madhuri G, Microbiologist underwent ISO 1589: 2022 new standard training and were certified.
• Dr. Anand, Head of Microbiology gave an invited talk on UKRI Engineering and physical council-Proteus project global meeting, titled “Evaluation of probes for rapid detection of pathogens in ocular specimens” at University of Edinburgh, Edinburgh on 06-09-2022

• Dr. Anand, Head of Microbiology presented the poster on Microcon 2022 conference, entitled “Nanopore sequencing in detection of bacteria from canaliculitis” at KIMS-Bhubaneswar on 25-11-2022

• Dr. Dhanurekha, Senior Scientist presented the poster on Microcon 2022 conference, entitled “Invitro Evaluation of Macrolides and Linezolid against Pythium insidiosum isolates from Keratitis cases” at KIMS-Bhubaneswar on 23-11-2022 to 27.11.2022

• Dr. Dhanurekha, Senior Scientist participated in the Workshop On Digital PCR at Adyar Cancer Institute 04.01.2023 & 05.01.2023

• Dr. Dhanurekha, Senior Scientist participated the Conference “Role of Clinical Microbiologist in combating Antimicrobial resistance” at Government Kilpauk Medical college in collaboration with The Tamil Nadu Dr. MGR Medical University on 29.11.2022

• Exclusive Pediatric phlebotomy training was conducted by Becton Dickinson in December 2022. A National Level Pre—Analytical Quality check External audit of SNSC Clinical Laboratory was conducted by BD (Becton Dickinson). The report highlighted our exemplary phlebotomy practices and appreciated our quality system in place with scoring as one of the top scorers among the various hospitals audited all over the country.

• Dr. Suman H Kalantri from Clinical Haematology department organised -CME Programme Title : ‘Utility of histograms & scatterplots’ sponsored by Beckman Coulter November 2022, All Laboratory technical & Med lab Tech students participated.

• Lab technical staff / faculty participated in the TSNA organised CME Programme “Laboratory medicine quality management systems” by Prof. Dr. C N Srinivasan and team (December 22)
Vision Enhancement Clinic
Sankara Nethralaya, Shenoy Nagar

The Vision Enhancement Clinic helps people with uncorrectable vision impairments to improve their quality of living and gain independence. We are committed to advocate and provide services so allow our patients improve their visual skills and abilities with residual vision.

Our therapists are qualified in early childcare and special education. We use concept teaching activity such as picking up shapes from geometric shape peg board, to pick up stacking rings from ring stand based on size and enhance eye hand coordination activities.

Baby Lakshan

A 2 year old child with developmental delay, Baby Lakshan was referred from the Department of Pediatric Ophthalmology. At the centre, his functional vision was assessed and the toddler fixated at non-flickering illuminated toys at 20 cm distance under controlled room illumination.

He also fixated and followed non- flickering illuminated toys and shiny pim poms at 15 cm under normal room illumination. Understanding the need for immediate early intervention, visual perception therapy, the VEC team counselled the parents so they could accept their child’s condition; continue to cooperate in the recommended therapies.
The child was given visual developmental therapy, visual perception skills, eye hand coordination, and physiotherapy at VEC regularly.

In physiotherapy, involuntary movements have been controlled. Muscle tightness was reduced, trunk stability was improved with hip extensors and neck control has been achieved with independent sitting. Currently, the baby is able to stand with walker support.

Baby Lakshan’s parents felt that our services were the most family oriented support services they have encountered.

**Baby Sahana**

A 1-year old child with Microcephaly with developmental delay, Baby Sahana was referred from the Department of Pediatric Ophthalmology. We assessed her functional vision and the child was able to follow bright colored illuminated toys of > 2 inch size @ 40 cm under controlled room illumination. She also responded to bright glittering, toys and targets @ 20 cm under normal room illumination, preferring toys that made sounds.

Understanding the need for immediate early intervention and visual perception therapy, VEC team counselled the parents for accepting the condition of the child so the parents would cooperate with the recommended therapies. The child was given visual developmental therapy, visual perception skills, eye hand co-ordination, and physiotherapy at VEC regularly.
The family cooperation and support are remarkable in terms of attendance and involvement. Concept teaching activity such as picking beads from one bowl and dropping into another bowl, to pick up stacking rings from ring stand based on size with the support of examiner, maintaining eye contact, name call response and to give sounds like quac, aah, eah were improved.

In physiotherapy, muscle tightness was reduced when compared to first visit, balance and coordination has improved, sitting position has been achieved independently. Her parents were very thankful to have discovered this centre, which has given them hope to manage their child’s condition.

**Mr Mohammed Issam**

A 24 year old male with Cone dystrophy, Mr Mohammed Issam was referred from the Low Vision Clinic to VEC for computer training and career guidance. On the first day, we introduced Mr. Issam to computer training program and its benefits. Inbuilt computer modifications were tried as a first step, the patient found it difficult to identify icons on the screen. The patient felt comfortable using magnifier options and learnt Microsoft Office and Google search options. At the end of the session, the patient successfully created and completed a power point presentation. In between the computer training sessions, patient had difficult in communicating in English, so he was referred to our Speech therapist. Before completing the training sessions, Mr. Issam got a job opportunity with the help of VEC team and attended three levels of interview. He is now working with the help of magnifier.
COMMUNITY SERVICE
COMMUNITY SERVICE

Our community care services helps the socially and economically disadvantaged to gain access to same quality of eye care that paying patients receive.

Patients enter the community care system through several projects such as eye screening camps for school children, adults, senior citizens, and camps conducted specifically by employers for their skilled and unskilled labour forces.

JASLOK Community Ophthalmic Centre

Spread over a sizable area, the Jaslok Community Ophthalmic Centre (JCOC) caters to a large number of walk-in patients, and serves as a referral base hospital to patients screened at the outdoor camps who are brought into the hospital, provided boarding, lodging and free treatment.

2022–2023

Outpatient Consultations 426991

No of Free Surgeries 15794
Free Surgeries Performed from 2022 – 2023

- **13282** Cataract
- **385** Cornea
- **244** Glaucoma
- **54** Short Stay + Others
- **323** Plastic
- **100** Retina
- **1378** VR
- **28** Squint
Mobile Eye Surgical Unit (MESU)

The main objective of the MESU project is to reach people in remote regions of India. Much of India’s population living in rural areas are daily wage earners and have no access to basic eye care.

For these populations, traveling to the nearest eye care facility will involve:

a) Expenses for the travel and stay in the city for themselves and an attendant;

b) Loss of wages for the number of days that they are in the city; and

c) Loss of wages for the attendant. Unable to bear such a financial burden, many of them continue to live with blindness — which could be preventable especially in the case of cataract.

These MESU units, jointly developed by Indian Institute of Technology (IIT), Madras and Sankara Nethralaya are the pioneer at delivering eye care in the villages. The MESU is a self-contained, safe and sterile surgical facility that can travel to remote locations and perform cataract surgery on-site.
Locations Covered

Sankara Nethralaya deploys two MESU units — one in South India (Telangana, Andhra Pradesh, Tamil Nadu,) and another in Central India (Jharkhand). In Jharkhand, one extra vehicle dispenses on-the-spot prescription spectacles, as the rural hamlets are in inaccessible locations and the beneficiaries cannot travel to the urban areas easily.

The MESU project is the First and Only One of its kind to be given approval by the Ministry of Health and Family Welfare, Government of India, to continue operations.

Since 2012, the MESU project has screened over one lakh villagers and performed over 23,000 surgeries in remote villages.

Tamil Nadu, Andhra Pradesh, Telangana

Since 2011 *Till May 2023
*104 MESU camps
*93021 Patients screened
*14934 Cataract Surgeries

Jharkhand

Since 2016 *Till May 2023
*84 MESU camps
*39915 Patients screened
*9940 Cataract Surgeries
Department of Teleophthalmology

The Sankara Nethralaya teleophthalmology team conducted a Mega camp on 09 October 2022 at Manali and 06 November 2022 at Thiruvottriyur, which was sponsored by Corporate Social Responsibility arm of the Chennai Petroleum Corporation Limited (CPCL).

The Teleophthalmology team has performed 222 camps screened 20396 individuals

- Retina: 268
- Cataract: 4003
- DRP: 252
- Neuro: 25
- Glaucoma: 8
- Squint: 44
- Cornea: 65
- Refractive Error: 11214
- PCO: 157
- Spectacle Issued: 11175
- Occuloplasty: 55
- Tele Consultation: 1121
- Pterygium: 175
How we help

With camps organized by large businesses for the benefit of their employees and the residents surrounding their premises, many disadvantaged patients suffering from eye ailments are given a chance to regain their vision. Some of them are:

Mrs. Lakshmi

Aged 55, came to the camp at Manali on 09.10.2022. She had a complaint of decreased distance vision since 6 months. Her husband passed away five years ago, and she is raising her two sons and one daughter by herself. Her daughter is working in a small shop earning less than Rs. 10,000 a month, while her sons are still in school.

Mrs. Lakshmi’s right eye was operated on two years ago, now her best corrected visual acuity in the right eye is 6/7.5 and 3/60 for left eye, with near vision N6 for right eye and N24 for left eye. Cataract in the left eye cataract was diagnosed through slitlamp examination. She has been referred to the base hospital for cataract surgery in her left eye.

Mr. Dhanapal

55 years old came to the camp at Manali on 09.10.2022. He suffered from decreased distance vision in his right eye for the past one year. His wife, Smt. Selvi does household work, while his only son works in a godown and daughter is doing her B. com. Dhanapal himself is contracted with CPCI and earns upto Rs.15,000/- per month.

His best corrected visual acuity in right eye is 6/12 and 6/6 for the left eye, Near vision N6 for both eyes. A cataract in his right eye was diagnosed via slitlamp examination, and he was referred to the base hospital for cataract surgery on right eye.
Sri Arunachalam

The middle-aged wage earner, Sri Arunachalam came for the camp on 09th October 2022 at Manali Chennai complained of decrease in distance vision in right eye for the past 8 months. His wife is a stay-at-home mother, while his two sons, Jeevakumar and Pugazhendhi are also daily wage earners, bringing home around Rs. 5,000/- per month. Sri Arunachalam is 49 years old and only earns Rs. 10,000/- per month, which is hardly enough to maintain a family of four.

On being given a comprehensive eye exam, a cataract was diagnosed in the right eye and Sri Arunachalam was referred to the main hospital for a free of cost cataract surgery.

Sri Krishnan

aged 60 visited the teleophthalmology camp complaining of decreased distance vision in his right eye for the past one year. His wife, Mrs. Kaniammal, is a housewife and the couple has only one daughter – Smt. Uma, who is married.

The daily wage earner brings home around 2,000/- per month, and a cataract surgery is almost unattainable without Sankara Nethralaya’s community care services.

With a cataract diagnosed in left eye during the slit lamp examination, his family was relieved to understand that he could receive free of cost cataract surgery in his right eye.
Community Care Activities of The Elite School of Optometry

The school eye screening camps conducted by the Elite School of Optometry adheres to a comprehensive screening protocol. The students are imbied with the spirit of community service and are also exposed to various environments in which they screen patients. Comprehensive screening includes children’s vision using Pocket Vision Screener, eye muscle (binocular vision assessments), external (anterior) eye examination using torch light, colour vision examination, refractive error measurements, spectacle dispensing and referral counselling.

Vision Screening — School Children

- No of Schools covered: 162
- No of children screened: 56376
- No of spectacles given: 3030
- No of Children identified with Color Vision Deficiency: 1439
- No of Children referred to base hospital for free treatment: 340
- No of children identified with Binocular Vision anomalies: 1716

Vision Screening — Village (Adult)

- No of Villages covered: 16
- No of person screened: 2484
- No of spectacles given: 1095
- No of person referred to base hospital for free treatment: 956
Vision Screening — Old Age Home

<table>
<thead>
<tr>
<th>No of old age home covered</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of person screened</td>
<td>356</td>
</tr>
<tr>
<td>No of spectacles given</td>
<td>155</td>
</tr>
<tr>
<td>No of person referred to base hospital for free treatment</td>
<td>153</td>
</tr>
</tbody>
</table>

Community Activities Highlights

In 2022 — 2023, we collaborated with our Corporate Social Responsibility partners such as Michelin Pvt Ltd, Mission for Vision, Chennai Corporation, World Vision India, etc. to conduct vision screening for school children in Thiruvallur, Kanchipuram, Chennai, Thiruvannamalai, and Chengelpet district.

Police Girls & Boys Club

Vision Screening was organized by the Chennai Police in collaboration with ESO for the Police Girls & Boys Club from 03rd to 04th June 2022. Children from various Chennai neighbourhoods were brought to Rajarathinam stadium.

39 children received spectacles from this camp at a grand event held on 20th June at the Commissioner’s office. DGP/Commissioner of Police, Thiru Shankar Jiwal, IPS, was the chief guest and presented the spectacles to the children.

Naikkenpet, Kanchipuram

Vision screening camp for children who belong to the Narikuravar community was conducted on 12th June 2022 at Naikkenpet in Kanchipuram district. Most of the children in the group do not receive formal schooling. 94 children were screened.

Teacher’s Training – Mission Roshni Project

Vision Ambassador’s Training and Awareness session was organized for teachers under the Mission Roshni Project. Dr. Anuradha, Principal, and Ms. Ambika, Community Optometrist, Elite School of Optometry were resource persons for this activity. Around 50 teachers from 16 schools participated.
Comprehensive Eye Screening In Rural — Adults

Every month, we have identified a village and conducted the Comprehensive eye screening for adults which are located in and around Chetpet, Thiruvanmmalai district.

Eye screening protocol includes clinical procedures such as brief ocular, general and Covid–19 history, visual acuity and refractive error measurements, anterior and posterior segment evaluation, spectacle dispensing and counselling for referrals.
Sponsored Projects

Michelin—Comprehensive eye camp for school children
Duration—April 2022
Funded by Michelin India Private Limited

- 26 Schools Screened
  - 2157 children.
- 58 Children received FREE spectacles.
- 50 Children referred to the base hospital.
- 12 received counselling for colour vision deficiency.

Mission Roshni
Duration August 2022 — March 2023
Funded by — Mission for Vision

- 62 Schools Screened
  - 32609 children.
- 1750 Children received FREE spectacles.
- 688 Children referred to the base hospital.
- 225 received counselling for colour vision deficiency.
- 1148 Children received vision therapy.

Kannoli Kappom Thittam—Chennai Corporation—District Blindness Control Society
Duration—June 2022—April 2023
Funded by—SN USA

- 40 Schools Screened
  - 10319 children.
- 517 Children received FREE spectacles.
- 427 Children referred to the base hospital.
- 39 received counselling for colour vision deficiency.
- 266 Children received vision therapy.
Comprehensive Eye care services for government School Children  
Duration—January 2023–March 2023  
Funded by—World Vision India

- 15 Schools  
  Screened 3986 children.
- 206 Children received FREE spectacles.
- 59 Children referred to the base hospital.
- 35 received counselling for colour vision deficiency.
- 163 Children received vision therapy.

Comprehensive Eye screening for Adult (Village camp)  
Duration—December 2022–January 2023  
Funded by—Vision Rx India Private Limited

- 6 Villages were covered.
- Screened 921 Villagers.
- 466 patients received FREE spectacles.
- 318 patients were referred to the base hospital.
- 32 referral patients visited hospital and Surgeries were done for 11.

Ongoing Projects (As Of 31.03.23)

SNEHAM 2020  
Duration—April 2022–March 2023

- 10 Villages were covered.
- Screened 1564 Villagers.
- 449 adults received FREE spectacles.
- 473 patients were referred to the base hospital.
- 94 referral patients visited hospital and Surgeries were done for 62.
School Screening
Duration—April 2022–March 2023
Funded by—Individual donors through SN USA (per school)

- Covered 16
  Schools Screened
- 7305 children
- 499 children received FREE spectacles
- 215 children were referred to the base hospital
- 29 children received Counselling for colour vision deficiency
- 139 children received vision therapy

Geriatric Outreach and Ocular Diagnosis (GOOD) Study
Comprehensive eye camp
Duration—July 2023–March 2023

- 9 old age homes covered
- Screened 361
- 155 senior citizens received FREE spectacles
- 153 senior patients were referred to the base hospital
Occupational Optometry Services Community Activities

As the name implies, the Department of Occupational Optometry Services (OOS) concentrates on the efficient and safe visual functioning of an individual at work. With daily wage workers unable to take days to attend eye camps, they benefit from camps organized on site by the employer in association with OOS.

From labourers in small scale industries such as tailors, welders, toy makers, and housekeeping, to salt pan workers.

4686
Unorganized sector and small scale workers across Tamil Nadu benefited from the services

2021
2022

3011
Beneficiaries

4686
Beneficiaries

2022
2023

55.62%
Increase

35
Spectacle Beneficiaries

**2021-22**
- 2237
- 76.1%

**2022-23**
- 3775
- 80.6%

68.7% Increase from previous Year

314 workers from various hazardous occupations, benefited from Refractive Correction incorporated Safety eyewear

17.6% More than previous year
Industrial Sector Workers
From 2022 To 2023

2021-2022
850 Employees
5 Industries
2022-2023
1314 Employees
10 Industries
4 New Industries/Companies

54.5% Employees examined than previous year

Unorganized Sector workers
Helping Small Scale Industry Workers See

Occupational Optometry Services was provided to 214 Wooden Toymakers and Silk Reelers of Channapatna, Ramnagara district in Karnataka with support from the Vidyaranya Kannada Kuta, IL from 5th and 6th, May 2022. The workers underwent comprehensive eye examination and 174 workers have been prescribed new spectacles and about 41 workers were referred for a further eye examination to the tertiary eye care center.

As part of the occupational safety and health awareness exercise, the Occupational Optometry team provided salt pan workers with spectacles equipped head band / spectacle rope that has to be attached with the spectacles, which will keep the spectacles from falling down during intense physical work.

Welders too face a highly hazardous task in terms of exposure to intense bright light and exposure to UV rays emitted from source. Most workers use only hand held face shields to protect their eyes from intense light and flying particles, which provide minimal protection from ocular injuries. The team incorporated safety wear with refractive correction and green filter that cuts down the UV and intense bright lights, which in turn improves efficiency at work with appropriate refractive correction.
Community Care Activities of
The Sankara Nethralaya Academy

Department of Optometry
A unit of Medical Research Foundation, TSNA was established on January 25, 2010 with the blessings of His Holiness Jagadguru Sri Jayendra Saraswathi Swamigal of Kanchi Kamakoti Peetam. The prime focus of this educational facility is to foster the cooperation between the academic and hospital eye care community by imparting all-inclusive and extensive high quality training to our students.

- CFS Camps 165
- Tele-ophthalmology Camps 236
- Total Camps Attended 467
- STEM Camps 18
- Other Camps 3
- Occupational Optometry Camps 45
RESEARCH ACTIVITIES
Sankara Nethralaya focuses on ophthalmic research to find solutions for prevailing and emerging eye care challenges. We have over 2000 peer-reviewed publications in national and international journals from our research and are one of the highest contributors to basic research in ophthalmology over the past 45 years.

INTERNATIONAL JOURNALS


NATIONAL JOURNALS


• Rajagopal R, Bandonkar N, Mukundan D. “A rare case of bilateral granular corneal dystrophy with keratoconus and primary angle closure glaucoma” Indian J Ophthalmol. 2022 Jul;70(7):2766


Sen P, Pradhan A. “Commentary: Care for retinopathy of prematurity in the COVID–19 era: When the going gets tough, the tough get going” Indian J Ophthalmol. 2022 Jul;70(7):2485.


Ambika S, Lakshmi KP, Gopal M, Noronha OV. “Visual outcomes of toxic optic neuropathy secondary to Ethambutol: A retrospective observational study from India, an endemic country” Indian J Ophthaimol. 2022 Sep;70(9):3388–3392.


COMPLETED PROJECTS

- A Phase III, Multicenter, Sham-Controlled, Randomized, Double-Masked Study Assessing The Efficacy And Safety Of Intravitreal Injections Of 440ug De-109 For The Treatment Of Active, Non—Infections Uveitis Of The Posterior Segment Of The Eye [Dr. J Biswas]

- Protocol ID/Number: ALK21/ENZ105-RANI 1. A Comparative, Double-Blind, Randomized, Multicenter, Phase III study to compare the safety & efficacy of ENZ105 of Enzene Biosciences Ltd. With Innovator Ranibizumab in subjects with Neovascular (Wet) Age related Macular Degeneration (AMD) [Dr.Pramod S Bhende]

- Protocol No.BRIN-20-01 A Bioequivalence Study of Generic Brinzolamide 1% Ophthalmic Suspension compared to Reference Listed Drug AZOPT (Brinzolamide) 1% Ophthalmic Suspension in Subjects with Primary Open Angle Glaucoma or Ocular Hypertension [Dr Ronnie George]

- Protocol No. MLTSP/04/2019 – An Open Label, Multicentric, Phase III, Prospective study to evaluate the efficacy, safety and tolerability of triple fixed dose combination of Timolol 0.5% + Brimonidine 0.2% + Brinzolamide 1% eye drops in patients with Open angle glaucoma/ocular hypertension not responding to dual drug therapy. [Dr Ronnie George]

- To validate the results of Precision Toric software vs Verion for toric IOL positioning guidance. [Dr. Sudhir R R]

- Segmentation of meibomian glands by deep learning to assess severity of dry eye disease. [Dr R R Sudhir]

- Development and Validation of Artificial intelligence algorithm for diagnosis of Infectious keratitis. [Dr. R R Sudhir / Dr. Meena Lakshmipathy]

- The Clinical impact of FEDC on low contrast vision [Dr Prema Padmanabhan]

- Macular Edema Ranibizumab v. Intravitreal anti-inflammatory Therapy (MERIT) — A Phase 3 Study Dr. Sudha Ganesh]
• Protocol Title: 19140 Structured Post-marketing surveillance to collect the safety data of intravitreal aflibercept injection (IVT-AFL) in patients of wet age-related macular degeneration during real world clinical practice [Dr. Dhanashree Ratra]

• Construction and validation of a pediatric perimeter based on eye tracking technology [Dr Ronnie George]

• REACH- Refractive error among children [Dr T.S. Surendran]

• A Prospective comparative study of the Functional visual outcomes of three different Intra Ocular Lenses Bifocals, Trifocals and Extended depth of focus lenses [Dr Shikha Rajesh Bassi]

• Effect of Yoga related exercise on Intraocular Pressure and Optical Coherence Tomography Angiography parameters in healthy adults and glaucoma patients. [Ms. S. Pooja]

• SNEHAM 2020 — Sankara Nethralaya Eye Hospital Anjali to Mahatma [Dr. Anuradha N]

• Construction and Validation of HRQol. Questionnaire for Children with VKC and their parents. [Ms. Ambika Chandrasekar]

• Effect of using Blue Light filtering spectacle lenses and computer-based application on visual performance [Ms. Agatha K Saji]

• Effect of Low Dose Atropine (0.01%) eye drops on choroidal thickness and peripheral refraction in children with myopia [Ms Anusha Paritala]

• Quality of life in an Indian sample of moderate and high myopes. [Ms. M.Varsa Harinya]

• Understanding Optometrists’ Practice Patterns for Glaucoma detection and Evidence Based Glaucoma Training in South India. [Ms. Khaarthiyaa Lokanathan]

• Barriers and facilitators for compliance to Low vision care services in a tertiary eye care hospital - A qualitative study [Ms. Nandhinee S]

• Role of various colour vision tests and its impact on driving [Ms. Annapoorani CT]

• Choriocapillaris flow deficit (CCFD) analysis in Age related macular degeneration (AMD) using Swept source optical coherence tomography angiography (SSOCTA) — A Retro-prospective Study [Mr. Amose. T]
• Corneal endothelial changes in scleral lens wearers in keratoconic eyes. [Ms. Shruti Dagar]
• Progression of myopia before and after COVID–19 among children visiting a tertiary eye care centre. [Ms. Arpita Paul]
• Peripheral refraction in different refractive errors among young Indian adults. [Ms. Asha Tharsis]
• Profile of occupational injury and its sequelae of visual impairment. [Ms. Jeevitha Asokan]
• Quality of life among patients with glaucoma and the impact of low vision services. [Ms. Indira Rengarajan]
• Comparison of symptoms associated with reading in smartphone in photopic versus scotopic conditions and reading in smartphone versus hard copy. [Ms. A. Roselin Kiruba]
• Ophthalmic anthropometry measurements among a sample of Indian adults. [Ms. V. K. Sowmya]
• Swept– source optical coherence tomography angiography and wide field fundus fluorescein angiography in retinal vasculitis [Ms. Sujata Yadav]
• Development and validation of a prototype to assess visual reaction time among visually normal individuals and patients with traumatic brain injury [Ms. Ayisha Atiya]
• Distance vergence facility among adults with convergence insufficiency. [Mr. Amit Bhowmick]
• Impacts of visual skills developmental therapy in children with Neuro–developmental disorders [NDD’S]. [Ms. N. Inbarasi]

**DNB Thesis Projects:**

• Outcomes of Surgical Management of Descemet’s Membrane Detachment during Cataract Surgery in a Training Centre [Dr Aman Agrawal] Guide: Dr. Sripriya Krishnamoorthy
• Comparative study of Surgical Outcome in Phacoemulsification with Posterior Polar Cataract in 2 ERAS 10 years apart in a group of surgeons [Dr. Adheela Abdulla] Guide: Dr. Shikha Bassi
• Clinical Profile, Diagnosis and Management of Familial Exudative Vitreoretinopathy in the Indian Population [Dr Thatigotla Naga Amulya] Guide: Dr. Girish S Rao

• Correlation of Digital Slit Lamp Photography with Clinical features in Infective Keratitis. [Dr Doshi Aashna Premal] Guide: Dr. N Radhika

• Analysis of Retinal Changes with Optical Coherence Tomography Angiography in Patients having Diabetic Macular Edema with Proliferative Diabetic Retinopathy as Compared with those having Diabetic Macular Edema without Proliferative Diabetic Retinopathy before and after Anti-Vascular Endothelial Growth Factor Therapy [Dr Nila D Dev] Guide: Dr. Aditya Verma

• Exploring, Developing and validating a predictive model for OCT markers of Inflammation vs Angiogenesis in Macular Edema [Dr Meenakshi Mahesh] Guide: Dr. Rajiv Raman

• A Study of swept source OCT and OCT – Angiography features of Pathological Myopia [Dr Amber Dubey] Guide: Dr. Pradeep S

• Functional Outcome of Descemet Membrane Endothelial Keratoplasty in Corneal Endothelial Disorders [Dr Sneha Bhopatkar] Guide: Dr. Bhaskar Srinivasan

• Comparison of Accuracy of 8 Intra Ocular Lens Power Calculation Formulas in patients Undergoing Cataract Surgery [Dr. Catharine Joby] Guide: Dr. Vineet Ratra

• Visual Outcome Post Cataract Surgery in Patients with an Axial Length more than 26mm [Dr. Radhika Sriram] Guide: Dr. P S Rajesh

• Outcomes of therapeutic penetrating keratoplasty in fungal keratitis [Dr. Marella Alekya] Guide: Dr. Mamta Agarwal

• Comparison of eyes with early diabetic retinopathy and healthy eyes in diabetic patients on OCT Angiography [Dr. Gaurav Chauhan] Guide: Dr. Aditya Verma

• A study of clinical profile of retinopathy of prematurity in assisted reproductive techniques [Dr. Kalbande Neelam Pankaj] Guide: Dr. G. Suganeswari

ONGOING PROJECTS

- Protocol Number: 1010904011N A Phase II, Randomized, Double-Masked, Placebo-Controlled, Parallel-Group, Multicenter Study Assessing the Efficacy and Safety of STN1010904 Ophthalmic Suspension 0.03% and 0.1% Compared with Vehicle in Subjects with Fuchs Endothelial Corneal Dystrophy (FECD)—PHANTOM Study. [Dr Prema Padmanabhan]

- Changes in Defocus in Eyhance, Panoptix and vivity IOL lenses [Dr. Prema Padmanabhan]

- Normative database for contrast sensitivity test using CSV 1000 with and without glare source. [Dr. Prema Padmanabhan]

- Blur threshold and blur adaptability assessment in young adult myopic patients undergoing refractive surgery [Dr. R R Sudhir]

- Changes in Defocus in presbyopes and pre presbyopes across different age groups. [Dr. Sudhir R R]

- An evaluation of axial stability of Clareon IOL in short and long eyes: A single center, prospective, open-label study [Dr. R R Sudhir, Dr. Suchitra Pradeep]

- A Randomized clinical study evaluating Revital Vision therapy for improving best corrected visual acuity and contrast sensitivity function in patients after a) collagen cross linking b) refractive surgery and phacoemulsification with extended depth of focus or multifocal IOLs. [Dr. Prema Padmanabhan / Dr. R R Sudhir]

- An evaluation of axial stability of Clarion IOL in short and long eyes: A single-center, prospective, open-label study. [Dr. R. R. Sudhir]

- To determine blink artifacts in aqueous flare measurements. [Dr. R. R. Sudhir]

- To examine the effects of Systane Gel on blink kinematics in healthy and DED subjects. [Dr. R. R. Sudhir]

- To study the association of keratoconus in patients with clinical diagnosis of corneal stromal dystrophies. [Dr. Rama Rajagopal]
- Evaluation of autologous conditioned serum rich in IL-1RA as an eye drop for the management of moderate to severe ocular Stevens Johnson Syndrome and Sjogrens Syndrome: a Pilot study. [Dr. Geetha Iyer]

- A prospective, open-label, two arms, randomized, interventional clinical study to evaluate the efficacy and safety of Maquiday (Maquibright®) for the treatment of dry eyes and fatigue. [Dr. Geetha Iyer]

- A Phase IV Clinical Trial to Evaluate the Safety and Efficacy of SystaneTM Hydration in Indian Subjects with Dry Eye. [Dr. Geetha Iyer]

- Long-Term Refractive Outcomes Of Laser In-Situ Keratomileusis In High Myopes In A Tertiary Eye Hospital In Chennai. [Dr. Niveditha Narayanan]

- Comparison of the outcomes of phacoemulsification using 2.2 mm clear corneal incision with 2 different intraocular lenses requiring different techniques of iol insertion by a single surgeon. [Dr Niveditha Narayanan]

- To study the characteristics of optic nerve head by OCT angiography after IOP reduction: A prospective study [Dr. Ronnie George / Dr. B Shantha / Dr. L Vijaya]

- Clinical Imaging Study — Glaucoma [Dr Ronnie George / Dr L Vijaya / Dr B Shantha]

- The Indian Childhood Glaucoma Incidence Study [Dr B Shantha]

- Designing predictive model for Childhood Congenital Glaucoma using Clinical and Genetic data [Dr. Shantha]

- The Asia Primary Tube versus Trabeculectomy (ASIA TVT) Study [Dr Ronnie George]

- Normative data collection for oculomotor functions using prototype eye-tracking technology in accordance with the conventional method [Dr Ronnie George]

- Impact of Binocular Visual Field Parameters on Vision Related Quality of Life (VRQoL) and performance based measure in glaucoma. [Dr. Ronnie George]

- Sankara Nethralaya Tubercular Uveitis (SANTU) Study [Dr. J Biswas]

- Optical coherence tomography-based novel outcome measures for disease monitoring in intraocular inflammatory and infectious diseases. [Dr. J Biswas]
- To identify the clinical biomarkers in orbital fat tissue and tears in patients with thyroid eye disease. [Dr. Bipasha Mukherjee/Dr. Kirthi Koka]

- Protocol ID/Number: BAY 86-5321/21974: A Phase IV interventional post-approval trial to assess the safety of intravitreal aflibercept for the treatment of diabetic macular edema (DME) in patients in India. [Dr. Pramod S Bhende]

- A Multicentric Study on VR surgical practices in India. [Dr Pramod Bhende]

- A real-world, prospective, multi-center, open-label, phase IV clinical study to evaluate the safety and effectiveness of intravitreal injections (IVI) of brolucizumab in patients with neovascular age-related macular degeneration (nAMD) Informed Consent Form Protocol No. CRTH258AIN01. [Dr. Pramod S Bhende]

- TGF-BETA 2 antisense ISTH0036 for the Treatment of diabetic macular Edema (DME) and neovascular age-related macular degeneration (nAMD) The “BETTER” Study. [Dr. Muna Bhende]

- To validate Deep learning algorithm to detect and predict ocular Pathologies [Dr Rajiv Raman]

- Macular Pigment Optical Density and its relationship with high myopia in Indian Subjects. [Dr. Rajiv Raman]

- Analysis of quality of vision in patients with low vision using augmented reality devices. [Dr. Rajiv Raman]

- Evaluation of visual performance of patients with low vision in a virtual reality environment pre and post anti-VEGF injection. [Dr. Rajiv Raman]

- Quantitative analyses and prediction of anti-VEGF treatment effectiveness in Diabetic Macular Edema (DME) and neovascular Age related Macular Degeneration (nAMD) with relation to central subfield thickness (CST) and sub retinal fluid (SRF) volume outcomes, respectively, using machine learning (ML) methods [Dr. Rajiv Raman, Dr. Parveen Sen]

- Innovative Wide-Field imaging using aspheric spectacle and contact lens for proliferative diabetic retinopathy in SS OCTA. [Dr. Rajiv Raman]
• Multimodal imaging to describe and grade the lesions in diabetic retinopathy: visual outcome of indocyanine green angiography guided focal laser in non-responding diabetic macular edema. [Dr. Rajiv Raman]

• A Double Masked, Parallel Group, Randomised, Multicentre, Clinical Study to Compare Efficacy and Safety of Intas Ranibizumab with Lucentis® in Patients with Neovascular (Wet) Age-Related Macular Degeneration (AMD). [Dr. Dhanashree Ratra]

• Mapping the carbon footprint of vitreoretinal surgery in a tertiary eye care center in India. [Dr. Dhanashree Ratra]

• Rare eye disease (RED) project registry — Stargardt’s disease. [Principal Investigator - Dr. Dhanashree Ratra]

• CRISEPTED Combined radiotherapy and intravenous steroids for the treatment of Early Progressive Thyroid Eye Disease [Dr. Bipasha Mukherjee]

• Vision related Quality of Life in patients with low vision using the IVI-VLV questionnaire [Dr. Mona Khurana/Dr. Anuradha N]

• Retinal displacement after scleral buckling (SB) with VS without drainage for the management of primary rhegmatogenous retinal detachment. An extension of the study of "Retinal displacement after scleral buckling (SB) versus combined vitrectomy (PPV+SB) for the management of primary rhegmatogenous retinal detachment.[Dr. Rajeev Muni]

• Retinal vascular permeability in Dengue virus infection: pathogenesis and evaluation of protective effects of vascular stabilizing agents [Dr. A R Anand]

• Evaluation of novel molecular platforms in the early diagnosis of infectious endophthalmitis [Dr. A R Anand]

• Proteomic approach to understand the pathophysiology and invitro evaluation of Macrolides and Oxazolidinones against Pythium insidiosum [Dr. L. Dhanurekha]

• Impact of Occupational Optometry Services on Productivity and Vision Related Quality of Life of Small scale and Cottage Industry Workers, Optometrists, Medical lab technicians, Electronic part amblers, drivers, tyre / rubber industry workers [Dr. Rashima A]
- Sankara Nethralaya - Tamil Nadu Essilor Myopia (STEM) Study  [Dr N Anuradha/Ms. G Aparna]
- Visual impairment, coping strategies and impact on daily life among drivers. [Ms Rupa Nivethikka R]
- Analysis of work profile, sleep patterns and musculoskeletal disorders among Ophthalmic Nurses and development of vision standards. [Ms. S. Vishnupriya]
- Comparison of changes in binocular vision parameters at pre and post laser vision correction surgery among myopic anisometropia. [Mr. Prasannasai K]
- Conjunctival Ultraviolet Autofluorescence photography in assessing the outcome of glaucoma filtration surgery. [Ms. Geethu Krishna]
- Mydriasis in closed and open eyes. [Ms. Amirthaa M]
- Ergonomic assessment in the usage of optical and assistive devices among patients with low vision. [Mr. Syed Ibrahim]
- To compare ocular blood flow changes in patients with glaucoma with different antiglaucoma medications. [Mr. Janakiraman P]
- Perspective of teachers on their role in school eye screening and effect of the teacher-based intervention on compliance: A mixed-methods study. [Ms. Maanila Sunitha Pajanivelou]
- Impact of Defocus Incorporated Multiple Segments (DIMS) spectacle lenses on Quality of Life of the children: Perspectives of the children and their parents. [Ms. Mobashir Fatimah]
- Elderly Patients’ Expectations and Experiences on Eye Care Services from the Community and Tertiary Eye Care Hospital— A Qualitative Study. [Ms. Gulafsha Parveen]
- Cost analysis of low vision rehabilitation services: Patients and service providers perspectives. [Mr Gaurav Paramasivan]
- Change in post-lens tear turbidity and visual function in eyes with ocular surface disorders wearing scleral lens. [Mr Vigneshwar A G]
• Survey on Knowledge, Attitude, and Barriers in eye care seeking behaviour among unorganized sector workers. [Ms Vidya P]

• Impact of scratches in spectacle lenses on the visual functions. [Ms S Renukha Parameswari]

• Evaluating Scleral lenses fluid reservoir turbidity with different reservoir composition and its effect on visual quality. [Ms Ayisma Baniya]

• Low vision intervention for individuals with various corneal pathologies. [Ms. M Shanmugapriya]

• Profile of Anterior Segment Optical Coherence Tomography (AS-OCT) in Advanced Keratoconus. [Ms Reshma Suresh]

• Changes In Binocular Vision Parameters After Strabismus Surgery In Patients With Intermittent Exotropia. [Ms. Sejal R Singh]

• The effect of digital zone optics.TM design contact lenses on binocular vision parameters among existing soft contact lens wearers with complaints of digital eye strain. [Mr S Selvakumar]

• Effectiveness of Smartphone applications and smart vision glasses in visually challenged persons. [Mr. Mugilan S]

• Knowledge, attitude and practices about Ocular Safety among welders and efficiency assessment of green filters among welders. [Ms Narmadha R]

• The impact of monocular vision on motor function and quality of life in survivors of retinoblastoma. [Ms. Shruti M. Sawant]

Ph.D Research Project:

• Digital eye strain (DES) also known as Computer Vision Syndrome (CVS), its prevalence, the factors contributing to DES, the adaptation to and management of DES in different subsets of users of Visual Displays Units (VDU) [Ms Renjini Athul Madhavan] Guide: Dr R R Sudhir

• Role of customized visual and multifocal interventions in preventing falls among visually impaired in South India – A Quasi experimental control design Mixed methods study [Ms. Ramya S] Guide: Dr. Anuradha Narayanan
DNB Thesis Projects:

- Diagnostic value of polymerase chain reaction in difficult cases of microbial keratitis. [Dr Pranav Sanjay Patil] Guide: Dr. N. Radhika
- Trabeculectomy in uveitis: Outcomes and impact on recurrence rates [Dr Jazz K Manadan] Guide: Dr. Amala Elizabeth George
- Clinical Profile and Treatment Outcome of Patients with Retinal Vasculitis in a Tertiary Eye Care Centre. [Dr. Divyansh Vinki Rughwani] Guide Dr. Parthopratim Dutta Majumder
- Central retinal vein occlusion in young adults: clinical profile and treatment outcomes following anti-VEGF therapy. [Dr Sourav Padhi] Guide: Dr Rajiv Raman
- Indications, outcomes and complications of therapeutic penetrating keratoplasty for microbial keratitis. [Dr Mridula Vijayaraghavan] Guide: Dr Meena Lakshmipathy
- Treatment outcome of vitrectomy and internal limiting membrane peeling for refractory diabetic macular edema [Dr Utsav Bhavesh Shah] Guide: Dr Dhanashree Ratra
- Clinical characteristics and multi-modal imaging of contusion maculopathy [Dr. Nikhil Shahaji Pawar] Guide: Dr. Chetan Rao
- Clinical profile and management of immune recovery uveitis in patients with HIV/AIDS. [Dr. Himani Manglik] Guide: Dr. Sudharshan S
- A comparative evaluation of complications and visual outcome of phacoemulsification in vitrectomised eyes with air or gas as Endotamponade vs Non-vitrectomised eyes [Dr Malekar Rutuja Ravindranath] Guide: Dr. Rajesh P S

MS Thesis Protocols:

- Managing Post Scleral Fixed Intraocular Lens (SFIOL) Retinal Detachment -Functional and Anatomical Outcome. [Dr Arush Bhuwalka] Guide: Dr. Pramod S Bhende
- Impact of Covid-19 pandemic on rate of progression of glaucoma [Dr. Bhavini Johri] Guide: Dr. Ronnie Jacob George
- A comparative study of short-term outcomes of combined phacoemulsification-trabeculectomy surgery done by trainees and experienced surgeons [Dr. Sivarajani P] Guide: Dr. Sripriya Krishnamoorthy

- Evaluation of macular pigmentation optical density in age related macular degeneration using dual wavelength auto-fluorescence imaging technique in a clinical set-up [Dr Raheema A.N.] Guide: Dr. Vinata Muralidharan

- Comparison of Pre and Post Cataract Surgery Angle Characteristics on Gonioscopy and As-Oct in Primary Angle Closure Suspects — A Prospective Study. [Principal Investigator - Dr. Aarti Rajkumar Guide: Dr. Parivadhini A]


- Anatomical and Surgical Assessment of Surgical Management in Rhegmatogenous Retinal Detachment in Pediatric Population. [Principal Investigator - Dr Vansh Bagla Guide: Dr Pramod S Bhende]

- Compliance of the Patients to Anti Vascular Endothelial Growth Factor (Anti- Vegf) Treatment for the Diabetic Macular Edema. [Principal Investigator - Dr.Vigneshwaran S Guide: Dr Jaya Prakash V]

**Restrospective Studies:**

- Effectiveness of 0.01% atropine in anisomyopic children. [Ms. Azfira Hussain]

- Global Warming Impact of Fluorinated Gases used in Ophthalmic Surgeries at a tertiary eye care institute of South India. [Dr. Rajiv Raman]

- Optical coherence tomography angiography compared to dye-based fluorescein and indocyanine green angiography in diabetic retinopathy. [Dr. Rajiv Raman]

- Optic disc notch its structural correlation. [Dr. Trupti Sudhir Patil]

- Demographic and clinical profile, management and outcome of infective Scleritis: A 20 year retrospective study. [Dr Bhaskar Srinivasan]
Depth, Size & The Microbe-The triumvirate that prognosticates the outcome of infective keratitis: A 5 year retrospective study. [Dr Shweta Agarwal]

Demographic and clinical profile, management and outcome of ocular chemical injuries: An 11 year retrospective study. [Dr Geetha Iyer]

Clinical profile and pattern of Stevens —Johnson's Syndrome and Toxic Epidermal Necrosis's: A retrospective study of management strategy and outcome measures. [Dr Geetha Iyer]

Clinical profile, risk factors and outcome of medical, surgical and adjunct interventions in patients with Pythium insidiosum keratitis: A 3 year retrospective study. [Dr Geetha Iyer]

To assess the possibility of applying machine learning algorithms for predicting glaucoma progression using visual field data. [Dr Ronnie George]

Efficacy of Vision Therapy Among Recurrent Exodeviation After Strabismus Surgery In Patients With Intermittent Exotropia. [Ms Ayisha Atiya]

Ocular features of patients with Parkinson's disease seen in a neuro-optometry clinic in a tertiary eye hospital. [Ms Ayisha Atiya]

Two birds with one stone: Rho kinase inhibitors in pseudophakic cystoid macular edema with secondary glaucoma (Case Report). [Dr Ayushi Mohapatra]

"A Long term clinical outcome of Hoffmann pocket four points scleral fixated

Intraocular lens implantation combined with penetrating keratoplasty - A single corneal surgeon report. [Dr Nivedita Narayanan]

One donor cornea for three corneal transplants, including a novel surgical technique of combined tight suturing to reduce and crescentic lamellar grafting to strengthen Terrien's marginal degeneration. [Dr Nivedita Narayanan]

"Lacrimal sac diverticula as an incidental finding during on-table exploration after completing tectonic penetrating keratoplasty for a patient with Marfan syndrome - A case report. [Dr Nivedita Narayanan]

Long-term Outcomes of limbal sparing lamellar keratoplasties in keratoglobus: A case series [Dr Nivedita Narayanan]
- A long-term outcome of Intraocular Collamer Lens implantation for refractive correction of high myopes unsuitable for laser vision correction – A retrospective analysis. [Dr Nivedita Narayanan]

- Gaze behavior metrics among novice and expert eye care practitioners during glaucoma diagnosis: An eye-tracking approach. [Ms. Najiya Sundus K. Meethal]

- To study the biometric parameters of eyes in patients with asymmetric primary angle closure disease (PACD) [Dr. Wadke Vidya Arunkumar]

- Visual Impairment and Blindness in Indian Myopes: A Hospital Study. [Mr J. Jothi Balaji]

- Screening school children to detect dry eye and refractive errors. [Dr Bhaskar Srinivasan]

- Frequency of adult amblyopia reported to a tertiary eye care centre and the efficacy of office-based active vision therapy among adult amblyopes — an observational report [Mr Amit Bhowmick]

- Outcome of Sankara Nethralaya Uveitic Cataract surgery study [Dr. Sudha Ganesh, Dr. J Biswas]

- Effectiveness of early cataract extraction and laser peripheral iridotomy in the treatment of Primary Angle Closure Disease: A retrospective case control study. [PI: Dr. M Baskaran, Fellow: Dr. Vedvati]
PARTICIPATION IN CONFERENCES

- Dr. Prabrisha Banerjee attended the Kolkata Academy of Ophthalmology Annual Meet, 3rd
- April 2022 & presented a case on Sebaceous Gland Carcinoma
- Twenty Management students and three Faculty Members participated in the CAHOCON — 2022 organized by Consortium of Accredited Healthcare Organization (CAHO), 2nd & 3rd April 2022 at Cochin, Kerala.
- Prof. Dr. Jyotirmay Biswas participated in the webinar: Karnataka Ophthalmic Society (KOS) — Publish and Flourish on April 17th 2022 between 7 and 9 pm.
- Dr. Jaya Prakash V gave an Invited Faculty Talk at Medical Retina Update: Mystery Retina, TNOA CONNECT Series 21-22: Update in Medical & Surgical Retina on 24th April 2022 organised by Tamil Nadu Ophthalmic Association, “A Case of Bilateral Acute Angle Closure & Asymmetric Vascular Occlusion: What Else Lies Behind?”
- Prof. Dr. Jyotirmay Biswas participated in the 13th National Conference of AIDS Society of India from 3rd to 5TH April 2022 at ITC Kakatiya, Hyderabad - “Ocular complications of HIV, STIs” in the virtual mode.
- Dr. Dhanashree Ratra was the Speaker- Dexamethasone in treatment naïve DME, Retinal Inflammation webinar, 16th April, 2022.
- Dr. Dhanashree Ratra was the Speaker- Tips and tricks for successful SFIOL surgery- TNOA connect series 2021-22, 24th April, 2022.
- Dr. Dhanashree Ratra was the Speaker- DME patient related outcomes- DME Experts Forum meeting Mumbai, 7th May, 2022.
- Dr. Dhanashree Ratra was the Panelist- Real World experience with Brolucizumab, virtual, 13th May, 2022.
- Dr. Prabrisha Banerjee attended the Ophthalmological Society of West Bengal CME — Everyday Oculoplasty, May 2022 and gave a Talk on Congenital Nasolacrimal Duct Obstruction
• Dr. Dhanashree Ratra was the Panelist– Real World experience sharing with newer drug, in the 80th Annual conference of the All India Ophthalmological Society, Mumbai 2-5th June, 2022.

• Dr. Dhanashree Ratra was the Co-instructor– Extreme Trauma, IC 533– Demystifying extreme retinal surgery, in the 80th Annual conference of the All India Ophthalmological Society, Mumbai 2-5th June, 2022.

• Dr. Sudha K. Ganesh attended the Annual Conference of the All India Ophthalmological Society on 4th June 2022. She presented the paper “Acute Zonal Occult Outer Retinopathy (AZOOR)— Largest series from South India”

• Dr. Dhanashree Ratra was the Speaker– DME- Treatment related outcomes India Consensus– Evidence to real world, DME experts meeting and book launch, Chennai 9th June, 2022.

• Dr. Dhanashree Ratra was the Speaker– Early intensive treatment for DME- Loading dose concept — DME Improving patient outcomes– Expert panel meeting, Virtual, 8th July, 2022.

• Dr. N. Angayarkanni & Dr. Bharatselvi participated in the workshop on “Clinical Diagnostics highlighting the importance of Mass Spectrometry ” at Spinco Towers on 28th July 2022.

• Prof. Dr. Jyotirmay Biswas participated in the webinar: “Panuveitis: Clinical features, Differential Diagnosis and Approach to management” on 14th July at EIZOC ORTS 2 program.

• Prof. Dr. Jyotirmay Biswas participated in the webinar of Tamil Nadu Ophthalmic Association.

• Dr. Dhanashree Ratra was the Speaker– RWE to real world experience– The Indian perspective, Retina Expert Meeting, Virtual, 31st July, 1st August, 2022.

• Dr. Dhanashree Ratra was the Speaker– Response from Indian eyes– Bridging the gap to real world scenario, virtual, 4th August, 2022.

• Dr. Dhanashree Ratra was the Co-instructor– OCT and OCTA biomarkers — The Diabetic Conundrum Symposium– Koveye 69th Annual TNOA conference, Coimbatore, 5th — 7th August, 2022.
• Dr. Jaya Prakash V. gave an Invited Faculty Talk at Update in Wet AMD/PCV, on 12th August, 2022 “My Attempts to Treat and Extend: Managing a case of Recalcitrant PCV with 10 reactivations over 4 years How Many Afibercepts? Is 33 Enough?”

• Dr. Dhanashree Ratra was the Speaker- Real world evidence of dexamethasone in DME, RVO and uveitis- See Beyond Ophthalmology Allergan meeting, Kuala Lumpur, Malaysia, 20th—21st August, 2022.

• Dr. Sheila John organised and conducted the 54th APAN (Asia Pacific Advanced Network) on 23rd August 2022 in Jinan, China. Session – Teleophthalmology, Topic – Diabetic Retinopathy. (Virtual meeting)

• Dr. V. V. Jaichandran delivered a talk on “Safe Blocks for Long Eyes” at the 14th International Congress of SAARC AA 2022, 12-14, August 2022, Kochi, India

• Dr. V. V. Jaichandran delivered a lecture on “Tips, Tricks and Traps in Ophthalmic Anaesthesia” at the August Ophthalmica, CME organized by Kochi Ophthalmic Club, 14th August, 2022.

• International presentation by Prof. Dr. Jyotirmay Biswas at the World Ophthalmology Congress on 12th September 2022 on titled Histopathological, immunohistochemical. Immunohistochemistry and molecular biology study of eviscerated and enucleated specimen of end stage uveitis.

• Dr. Dhanashree Ratra attended a symposium on “The fragile diabetic eye- where resurgeries are common”- Symposium — Once bitten, twice not shy at the Euretina 2022, Hamburg, Germany, 1st- 4th September, 2022.

• Dr. Dhanashree Ratra attended a symposium on End stage endophthalmitis- handling recurrences, retinal detachments, hypotony Symposium Managing Endophthalmitis at Euretina 2022 Hamburg, Germany, 1st — 4th September, 2022.

• Dr. V. Jaya Prakash V. Invited Faculty Talk at Current Updates in Diabetic Retinopathy, on 24th September, 2022 organised by Bombay Ophthalmologists Association & Lokmanya Tilak Municipal Medical College & General Hospital Sion, Mumbai, “Current Role of Laser in Diabetic Retinopathy”

• Swetha S presented a poster titled, “Profile of Posterior Segment Disorders in a rural population — Tamil Nadu Rural Eye Examination (TREE) study” at the IERG 2022 — ARVO India conference in September 2022.
• Dr. Dhanashree Ratra was the Panelist- Inverted ILM peeling for macular hole surgery- Online webinar by ASG hospitals, 29th September, 2022.

• Padhmashri R, Intern gave an Oral Presentation on “Visual impairment, coping strategies and impact on driving among drivers” at the IVI’s 3rd International Optometric Conference, 13th to 15th, October 2022.


• Dr. V. Jaya Prakash gave an Invited Faculty Talk on ROP at Child Trust Hospital, 13 th October, 2022.

• Soma Harshitha, Intern, gave an Oral Presentation on “Ergonomics assessment in optical and assistive devices among patients with low vision” at the IVI’s 3rd International Optometric Conference on 13th —15th, October 2022.

• Dr. Prabrisa Banerjee attended a CME on Oculoplasty by Comtrust Eye Hospital, Kochi, - Session discussant OPAI Annual Conference, November 2022, Mumbai

• Dr. Dhanashree Ratra gave a talk on Management of anterior PVR in order to prevent retinectomy- Delhi Retina Meeting 4th–6th November, 2022, New Delhi

• Dr. Dhanashree Ratra was the Panelist– Diagnostic challenges– Interesting case presentations. Delhi Retina Meeting, 4th–6th November, 2022

• Dr. Dhanashree Ratra explored the topic: “Can early and intensive treatment with afibercept reduce the treatment burden” at the 15th Biennial meeting of the South Asian Academy of Ophthalmology SAO 2022 New Delhi 11th —13th November, 2022

• Dr. Dhanashree Ratra was the Chairman- Is there a new change on the horizon? Session on Biosimilars. 15th Biennial meeting of the South Asian Academy of Ophthalmology SAO 2022 New Delhi 11th —13th November, 2022.

• Dr. Prabrisa Banerjee presented a paper on the “Role of Tacrolimus in Atopic Dermatitis Caused by anti-glaucoma medication” at the OSWB Annual Conference, November 2022, Kolkata

• Dr. Sheila John gave an oral presentation — Covid protocols at teleophthalmology camps Kochi, 10th to 12th Nov Telemedicon 2022. Presentation on 10th Nov 2022 (in person)
• Dr. Prabrisha Banerjee presented a paper “Clinical Spectrum and Outcome of Orbital and adnexal IgG4”

• Dr. Prabrisha Banerjee’s Paper presentation was the Finalist for the K. P. Roy Free Paper Segment on the “Role of Topical Timolol in Pyogenic Granuloma”

• Dr. Trupti Sudhir Patil presented the paper “Risk factor analysis for central visual field progression” at the Annual Meeting of the Glaucoma Society of India for a rapid-fire round held on 18–20 November, New Delhi, 2023.

• Dr. Reni Philip attended the Glaucoma Society of India Annual Conference 2022 (18th – 20th November 2022) and gave a paper presentation: “Ocular blood flow in primary angle closure suspect and primary angle closure eyes without prior acute angle closure– an OCT angiography study” – Authors Dr. Reni Philip, Dr. Lingam Vijaya, Dr. Ronnie George

• Dr. Dhanashree Ratra was the Speaker–My tips for managing RD with PVR– Green Horn session– 31st Annual conference of the Vitreoretinal Society of India, Nagpur, 2nd–4th December, 2022.

• Dr. Dhanashree Ratra was the Wise counsel panelist– What went wrong was it me or the disease– VR surgery session I– 31st Annual conference of the Vitreoretinal Society of India, Nagpur, 2nd–4th December, 2022.

• Dr. Dhanashree Ratra was the Speaker– My experience with anti VEGF for PDR– Symposium on anti VEGF for DR, 31st Annual conference of the Vitreoretinal Society of India, Nagpur, 2nd – 4th December, 2022.

• Dr. Dhanashree Ratra was the Panelist– Accentrix symposium– 31st Annual conference of the Vitreoretinal Society of India, Nagpur, 2nd–4th December, 2022.

• Dr. Sheila John gave an oral presentation and panel discussion– Chronic disease management workshop between 30th Nov to 1st Dec 2022, intercontinental city stars, Egypt, Africa Telehealth Conference 2022 (in person conference)

• Dr. Dhanashree Ratra performed live surgery at Surgical Strike conference at Chennai, 8th January, 2023
• Dr. Jaya Prakash V. gave an Invited Faculty Talk at RPL - Radnet Premier League Debate “FFA versus OCTA in Chronic CSCR imaging: Which is superior?” on 22nd January 2023 organised by Radhatri Nethralaya.

• Dr. Dhanashree Ratra was the Panelist — Ophthalmology Summit 2022 by American Academy of Ophthalmology and Sun Pharma, Chennai, 17th January, 2023

• Dr. Dhanashree Ratra was the Panelist - Electrophysiology and Applied clinical genetics conference, Bangalore, 14th-15th January, 2023.

• Dr. Dhanashree Ratra was the Panelist and speaker for Reticon 2023, Chennai, 18th March, 2023 “My tips to prevent PVR, From the frying pan into the fire”.

• Dr. Sheila John gave an oral presentation — Rural Teleophthalmology Camp Model for Eye Care During Covid — 19 at the 7th Asia Pacific Tele-Ophtalmology Society Symposium (APTOS 2022) on 3rd - 4th September 2022 in Shenyang, China. (Virtual meeting)

• Ambika C attended the IERG 2022 — ARVO India in September 2022 and presented a Poster titled, “Rasch Analysis of Quality of Life in children with VKC among Indian children with VKC.”

• Dr. R. Harini participated in the NABH ECO standards Internal auditor training in February 2022 & was certified to be an internal NABH auditor.

• Dr. Harini, Quality Manager and Dr. Pralitha Madhuri G, Microbiologist underwent ISO 1589:2022 new standard training and were certified.

• Dr. Sudha K. Ganesh was invited as the Chairperson at the USICON 2022 (21st Annual Conference of Uveitis Society), held from 14th to 16th October 2022. She presented the topic “Allergan Sponsored Symposium” “Pediatric Uveitis”

• Dr. Sujatha V.K. presented the paper titled: “Clinical utility, feasibility of home tonometry using Icare Home by Glaucoma patients” at the Glaucoma Society of India conference, 18th –20th Nov 2022

• Dr. N. Angayarkanni & Dr. Bharath Selvi participated Spinco workshop “5th National Conference on Frontiers in MS Technology and Emerging Applications” at ITC Grand Chola on 24th November 2022.
• Dr. Sujatha V. K. received the Ruby Banik award for Best Research in Clinical sciences in Sankara Nethralaya, during the Institutional Awards Ceremony on 26th November 2022 for paper titled — “Clinical utility, feasibility of home tonometry using Icare Home by Glaucoma patients.”

• Prof. Dr. Jyotirmay Biswas participated in the AIOC Mid Term Conference 2023, Patna and presented the paper titled Pearls in Uveitis on 06th January 2023.

• Prof. Dr. Jyotirmay Biswas participated in the AIOC Mid Term Conference 2023, Patna presented the paper titled Histopathology, Immunohistochemistry and PCR in Eviscerated/Enucleated specimen of end stage uveitis on 07th January 2023.

• Prof. Dr. Jyotirmay Biswas participated in the AIOC Mid Term Conference 2023 Patna gave a presentation Ophthalmic pathology for the fascinating cases on 08th January 2023.

• Dr. N. Angayarkanni participated in 1st National Lab Directors Conclave on 30th & 31st January 2023 at KIMS Hospital, Secunderabad, Telangana. Dr. V. V. Jaichandran delivered a talk on “Anaesthesia for Squint Surgery in Children” at the Indian Association of Paediatric Anaesthesiologists Conference, IAPA, 10–12 Feb 2023, Coimbatore, India.

• Dr. Sheila John was a chair person for a session on Teleophthalmology - KCG College of Technology in association with Tamilnadu chapter of Telemedicine Society of India conducted, which conducted a Faculty Empowerment Program on Telemedicine and Health Care Research on 18th February 2023. (In person conference)

• Prof. Dr. Jyotirmay Biswas participated in the APAO conference in Kuala Lumpur, Malaysia from 24th February to 26th February 2023 on Symposium necrotizing infectious and non–infectious scleritis their management.

• Dr. Sheila John gave an oral presentation - Importance of performing research Research Methodology workshop on 3rd –4th march 2023 conducted by Maharashtra Ophthalmic Society and Kamala Sundaram Foundation (Virtual meeting).

• Dr. Prabrisha Banerjee undertook an Instruction Course on Eyelid Anatomy and was the Faculty in AIOS PG Refresher Course, 24–26 March 2023
ACADEMICS & TRAINING
C U Shah Ophthalmic Postgraduate Training Centre

A total of 2483 Ophthalmologists have been trained by Sankara Nethralaya in Ophthalmology so far:

During the year of 2022–23 – total number of PG’s, fellows and others trained:
Total No of Students who completed their program

- Ophthalmology Fellowship Programme: 45
- DNB: 13
- National Observers Ophthalmologist: 6
- International observers (Non Ophthalmologist): 2
- International observers (Non Ophthalmologist): 2
- DO: 1
- National Observers Ophthalmologist (SICS 2 months trainees): 2
- NPCB VI programme (MR and Laser technique): 2
- Medical students: 4

We have received NBEMS Accreditation for the DNB Ophthalmology programme from the forthcoming academic year 2023–24 onwards for JKCN complex.
Elite School of Optometry

Founded in 1985, the Elite School of Optometry is the first college of optometry in India offering a four year professional degree (Bachelor of Optometry), a two year professional degree (M. Optom) with specializations in Optometry & Vision Science research, and a doctoral degree in Optometry. The ESO-SN Pediatric Optometry Fellowship aims to focus on a vulnerable section of patients who need extra attention while at an eye care facility.

Graduates during Academic year June 2021 - July 2022

- 27 Bachelor of Optometry graduates
- 9 Master of Optometry graduates
- 1 Ph.D. Scholar

In the Classroom
Undergraduates 123
Postgraduates 13
Ph.D. Scholars 6
The Sankara Nethralaya Academy

The Sankara Nethralaya Academy (TSNA) is the academic wing of Sankara Nethralaya. Ideated to provide the healthcare industry and tertiary care centres like ophthalmic centres with qualified and energetic youth to take on the support roles that ensure the smooth running of entities such as Sankara Nethralaya, TSNA provides certificate to doctoral level programs in various fields including allied health sciences like Ophthalmic Nursing, Operation Theater Assistants, Medical Laboratory Technology, Medical Records, Optometry, Ophthalmology and MBA in Hospital & Health System Management.

Graduates during Academic year June 2021 - July 2022

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<th>Program</th>
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<td>M. Optom</td>
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<td>Interns</td>
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96 students graduated from the portals of TSNA in the academic year 2022 — 2023
• By organizing various educational tours such as a visit to an industrial plant, CAREON, Cochin, Kerala, in April — 2022 for the students of the School of Management Studies, this academy aims to bring real-time knowledge to our students.

• The students also voluntarily participated and donated blood in the Blood Donation Camp organized by Arogyabharathi, Tamil Nadu for the 75th Independence Day Celebration in association with Government Stanley Medical College and hospital.


• The Board of Studies meeting of BSc MLT and MSc MLT under “The Tamil Nadu Dr. MGR Medical University” conducted under The Sankara Nethralaya Academy (TSNA) was held on 28th Sep 2022 Wednesday at the TSNA campus

• TSNA- FOMS organized a campus interview for the outgoing MHA 2020- 22 Batch. Out of the ten students who attended the group discussion and interview conducted by the Panel of experts from Billroth Hospitals, six were shortlisted for the final interview, and four students were offered placements as Operations Executives.

• TSNA partnered with the Indian Optometric Association (IOA), an apex body involved in the promotion of Optometry as a Profession, to organize an awareness rally for World Optometry Day 2023 at Edward Elliot’s Beach, Besant Nagar, Chennai.
Women’s Day Celebrations

On March 8th 2023, the Women’s Day celebrations brought together all the ladies of SN for an evening full of fun and games, seamlessly organized by the HR Department headed by Ms. Sudha Mohan, the event included a quiz, a blindfold makeup session, passing-the-parcel, and a hairdressing competition.

The games build a familial among our employees, and brought out their creativity as well as nurturing enthusiastic audience participation.

The games were designed with the aim to include all the employees gathered for the celebrations; with audience joining in, the evening was a rare chance for the Women of Sankara Nethralaya to let their hair down and take a break from their hectic roles at home as well as at work.
Dr. Radhakrishnan, Retired IPS Presides At The Republic Day Celebrations 2023

Sankara Nethralaya celebrated our nation’s 74th Republic Day with great enthusiasm and fanfare along with the senior management, consultants, staff, students of Sankara Nethralaya’s various educational institutions and their children at our main campus.

Dr. Nirmala Subramaniam, Emeritus Professor, Dept. of Oculoplasty received the prestigious 40 Years of Service Award from the Chief Guest with the audience giving a standing ovation. momentous occasion, she made contribution to a fund she had established for the treatment of congenital anomalies in children, which was received by Dr. Girish Rao and Dr. T. S. Surendran.

Other awards for SN employees such as recognitions for longer periods of service, regular attendance and merit awards for employees’ children were also presented.
Sri Maha Periyava Aradhana and Dhingra Trust Awards

On 7th January 2023, the staff and employees of Sankara Nethralaya gathered at the Sri V. D. Swami Auditorium to observe the annual homage to the inspiration behind this institution— the Maha Periyava of Kanchi and seek his blessings.

Prof. Dr. V. Kamakoti, Director, Indian Institute of Technology Madras, who is faculty in the Department of Computer Science and Engineering presided over the evening’s events and distributed the Dhingra Trust Awards to 12 meritorious students, much the pride and joy of their parents.

the Dhingra Family Trust was established in 2004 to provide scholarships for higher education to the children of Sankara Nethralaya’s employees. The merit awards are given each year to benefit academically—inclined children.
HONOURS & AWARDS
HONOURS & AWARDS


- Dr. V. V. Jaichandran received Certificate of Appreciation from the International Manual Small Incision Cataract Surgeons Association, for making contribution in the Global Training programme in Regional Ophthalmic Anaesthesia, June 2022.

- Prof. Dr. Jyotirmay Biswas MS. FMRF, FNAMS, FIC Path., FAICO, MNAsc, FRCS (Ed), Director of Uveitis & Ocular Pathology Department won the Dr. S K Lall Memorial Oration Award 2022.

- Dr. V. V. Jaichandran “Real Time View Mannequin for Practicing Needle blocks” was adjudged as the BEST INNOVATION’22 at the 14th International Conference of SAARC AA 2022, 14th August 2022, Kochi, India.

- Dr. Prema Padmanabhhan received the ISCKRS Excellence Award for Outstanding Achievements in Cornea in August 2022.

- Dr. V. V. Jaichandran received the Award for Excellence in Culture of Safety Design for SN at the 9th International Patient Safety Conference 2023 held on FEB 13-14 2023, Taj Palace, New Delhi.

- Prof. Dr. Jyotirmay Biswas MS. FMRF, FNAMS, FIC Path., FAICO, MNAsc, FRCS (Ed), Director of Uveitis & Ocular Pathology Department won the 15th Indian College Of Pathologist Award 2022.

- Ms. T. S. Saumya won the “Winner of National champion award” for the year 2021-2022 conducted by BD (Becton Dickinson).

- Dr. Prabrisha Banerjee came 4th in ENTOD OPAI Quiz at OPAI Annual conference, Mumbai

- Dr. V. V. Jaichandran won the Runner up prize for ISA NATIONAL BEST INNOVATION AWARD at the Annual National ISACON 2022, Nov 25-29, 2022, Shillong, Meghalaya, India.
**HONOURS & AWARDS**

**Dr. S.S. Badrinath**
Founder – Sankara Nethralaya
honored as "Living Legends in Ophthalmology" by
The prestigious Indian Journal of Ophthalmology, April 2022.

**Sankara Nethralaya**
won the
Netra Samrakshak (Legenderary Institution for community services) Award
at the first ever Rotary National Community Ophthalmology Conference May 2022.

**Sankara Nethralaya**
Hospital Safety Commission
Wins 1st Place
Category: “Excellence in Culture of Safety Design”
At the 9th International Patient Safety Conference, 2023
HONOURS & AWARDS

Sankara Nethralaya
Department of Information Technology
On receiving the
Global Digital Health Innovation Award 2022
At the Global Digital Health Summit 2022

Dr. T. S. Surendran
Chairman & Director
Department of Pediatric Ophthalmology
was awarded the
Achievement Award
by the Asia Pacific Academy of Ophthalmology for making good contributions to the scientific programs of the APAO Congress 2023.

Dr. L. Vijaya
Distinguished Senior Consultant,
Smt. Jadhavbai Nathamal Singhvee Glaucoma Services
received the
AIOS P. Siva Reddy International Awardee 2022
for her work on: “Population based study in India: Prevalence, incidence, and risk factors for Glaucoma.”
Dr Pramod Bhende & Dr Dhanashree Ratra received the prestigious AIOS IJO Gold Award.

They were part of a study published in the Indian Journal of Ophthalmology, which was judged as one of the best publications in 2021.

Dr. Durga Priyadarshini was the Winner of Best Poster Award in INOS 2022 for the poster titled "Unexplained vision loss in a HIV Infected Patient – A case report."

Dr. V. V. Jaichandran
Deputy Director of Anaesthesiology

Winner of the Bronze Medal in the ISA Innovation Award Category

Project Title: "A Mannequin Based Training system for practicing Sub-Tenon’s block"

At the National Annual Anaesthesia Conference (ISACON),
HONOURS & AWARDS

Dr. Dhanashree Ratra
Senior Consultant,
Shri Bhagwan Mahavir Department of Vitreo Retinal Services
received the
Honour Award for the year 2022 at the AIOC
for her contribution to the Indian Journal of Ophthalmology by voluntary involvement in the critical peer review process of the Journal and for excellence in the overall quality of scientific review, number of manuscripts reviewed and punctuality during the year 2022.

Dr. Divyansh Vinki Rughwani
&
Dr. Malekar Rutuja Ravindranath
won the
Divya Chaturvedi Gold Medal in Uvea 2022.

Dr. Gazal Patnaik
Associate Consultant, Department of Uvea Services,
Sankara Nethralaya, Rajarhat
On Receiving the
Dr. R.C. Meher Free paper Award
at the ElZOc Mid Conference 2022
**Dr. Bristi Majumdar**  
2nd year DNB resident, Aditya Birla Sankara Nethralaya, Kolkata  
**Winner of the Best clinical photo**  
X Files : CME on Orbital and Adnexal Tumors, 5th Feb 2023.

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**Dr. Ahana Sen**  
3rd year DNB resident, Aditya Birla Sankara Nethralaya  
**1st Runner-up**  
Best Case Presentation (Adnexa session)  
X Files : CME on Orbital and Adnexal Tumors, 5th Feb 2023.

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**Ms. Ishwarya S**  
Optometrist – Occupational Optometry Services  
**Golden Jubilee Medal**  
Best Paper Presentation at the National Conference of the Indian Association of Occupational Health, Presented by Indian Association of Occupational Health Tamilnadu Branch, 25 Sep 2022
The Nethralaya Philosophy

Let the word "Sankara" of Sankara Nethralaya ever remind me and my associates of His Holiness' command that there be a missionary spirit in the project.

Let the word "Nethralaya" constantly remind me and my colleagues that the place of our work is an alaya. Work will be our worship which we shall do with sincerity, dedication and utmost love.

Today morning I entered the Temple of the Eye.
This mission is God's mission.
The country salutes Sankara Nethralaya

- Dr. APJ Abdul Kalam, former President of India

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