



INSTITUTE FOR COMMUNICATIVE AND COGNITIVE NEUROSCIENCES (ICCONS)



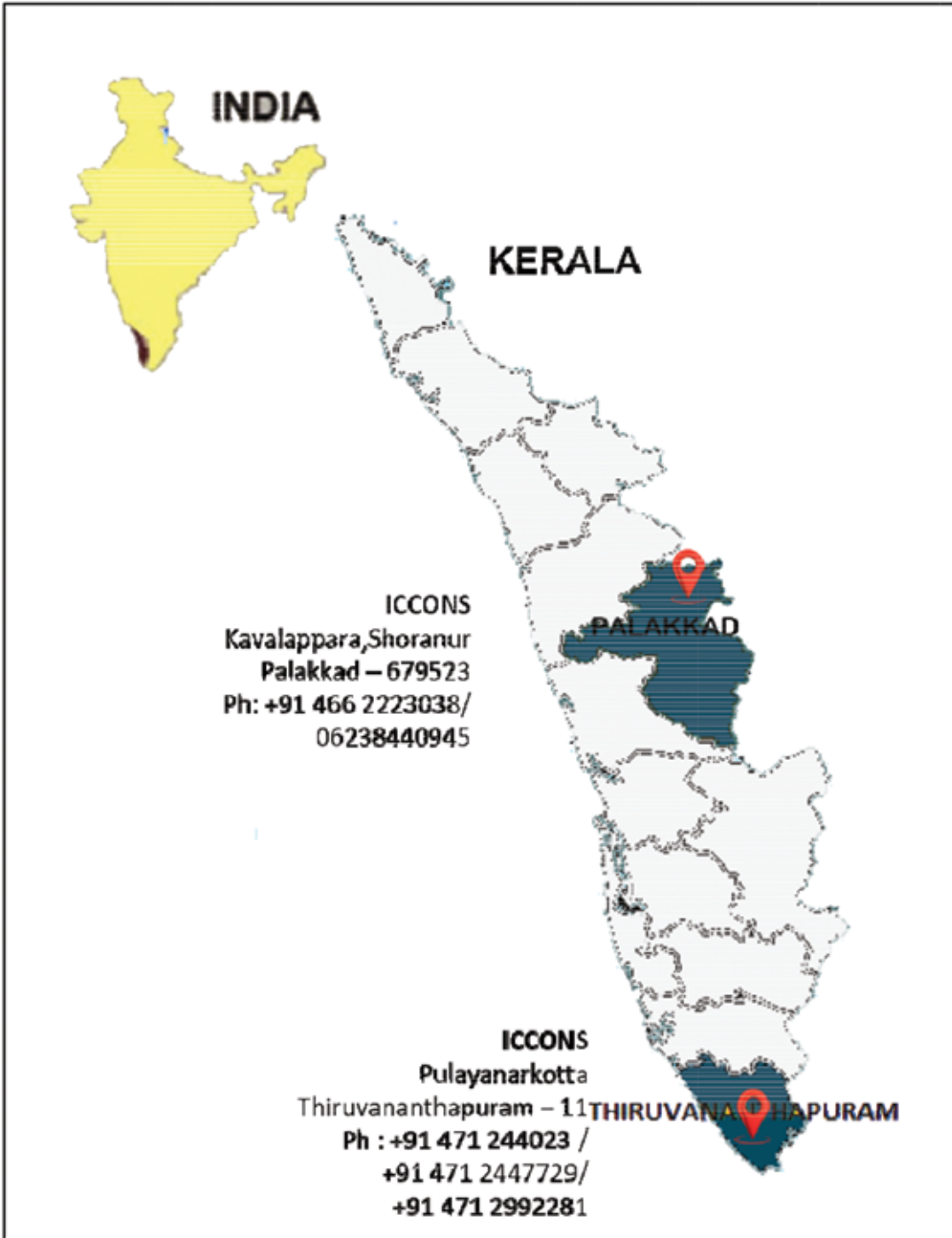
ANNUAL REPORT 2022- 2023

ANNUAL REPORT 2022-2023

25 Years of Excellence



**Institute for Communicative and Cognitive
Neurosciences (ICCONS)
Thiruvananthapuram & Shoranur**



Front Cover Image: ICCONS, 100% 'Solar Powered', Academic Block, ICCONS - Shoranur

Back Cover Image: Silver Jubilee Gate, ICCONS - Thiruvananthapuram



ICCONS Silver Jubilee Annual Report (1998-2023)

ICCONS is celebrating its Silver Jubilee year from 2nd October 2022 to 2nd October 2023.

"On the momentous occasion of our Silver Jubilee, we acknowledge the dedicated efforts of Team Persistent and the continued support of all our stakeholders and well-wishers."

AN INSTITUTE ONLY OF ITS KIND

As we look ahead, the responsibility is even bigger and the determination is even stronger



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Dr. Sanjeev V. Thomas

MD, DNB, DM(Neuro), FAMS, FIAN, FANA, FAAN,
Director, ICCONS

From the Director's Desk...

Being the silver jubilee year, the institute had a hectic year in 2022-2023. Several new projects had been initiated and the existing ones were augmented during this year, as outlined in the annual report elsewhere. The State Planning Board had been immensely helpful in laying out the long term and short-term plans for the institute. Further, the series of planned discussions under the Hon'ble Minister and Principal secretary of Health & Family Welfare had been very helpful in aligning the institute goals with the department health policies.

During this period, we could purchase solar power generators to convert our centre at Shornur and Trivandrum into 100% "Solar Powered". The same was inaugurated by the Minister of Health and Family Welfare and Chairperson of our governing body Mrs Veena George. This is the first institution under the health department of Government of Kerala to go 100% solar and make a saving of more than Rs 1.25Lakh per month.

The Institute had its own problems also. We were unable to implement The Eleventh Pay Revision although it was approved by the government in 2022. The shortage of funds that are available within the institute and the limitation in the government non-planned salary allocations were the main reasons for the non-implementation of salary revision. The institution and the government are trying to overcome these difficulties. There were many faculty resignations due to poor salary. Nevertheless, our BASLP course stood one of the best in the state with 100% pass as in the past several years. There were also 2 rank holders in the final examination conducted by Kerala University for Health Sciences, Thrissur in the current year. We have a great campus, vibrant student community and our contribution in the health care remains significant due to sincere and hardworking staffs.

I wish to thank all the staffs of the institute at its two centres for their dedication and hard work.



Quarter Century Journey: A Chronicle of Achievements

It has been glorious **25 years** of journey for the Institute for Communicative and Cognitive Neurosciences (ICCONS). Since its establishment in 2nd October, 1998, the quest of ICCONS has been to achieve excellence in rehabilitation, research and manpower development.

1992 From Blue Print to Birth

The beginning of SRCCD and ICCONS could be traced back to the experience gained from the "Behavioural Neurology clinic at Sree Chitra Thirunal Institute for Medical Sciences and Technology, Thiruvananthapuram (SCTIMST) which was started by Dr. P A Suresh, Asst. Professor of Neurology who was in charge of the clinic. This clinic has been conducting studies on children and adults with speech & language disorders and cognitive defects since 1992.

1997 Epidemiological Survey on Developmental Language Disorders and Learning Disability in Kerala

In order to assess the prevalence of speech & language disorders and cognitive defects in the community an Epidemiological Survey was conducted in 1997 in 10 Panchayaths selected from three districts of Kerala with financial assistance from KRPLLD and State board of Medical Research with Dr. P A Suresh as the Principal Investigator. The result of the survey showed that more than 10% of the children were suffering from one or other type of disabilities that interferes with cognition, language or learning.



Another survey was conducted simultaneously among school children from 8 districts of Kerala to study the prevalence of Learning Disability. The results of the survey revealed that as high as 19% of schools going children in Kerala have one or the other type of communicative or cognitive disorders that seriously affected their performance at school.

The preliminary results of the two surveys gained more public interest. The results of the survey attracted both the education and health department of Government of Kerala. The research group therefore approached the funding agency for more detailed evaluation of the cases including probable causes for such high prevalence in the state and more detailed study on the subjects was done.

Demand to Start a New Center for Rehabilitation of Cognitive and Communicative Disorders

A meeting of the parents of the children with cognitive and communicative disorders was conducted at SCTIMST in the auspicious of the director of the SCTIMST Dr. K Mohandas, Secretary to Govt. health and family welfare Sri. V. Vijayachandran IAS, Director of Public Instruction Smt. Lida Jacob IAS, Dr.K. Naarayanan Nair Program coordinator Kerala Research



Program on Local Level Development (KRPLLD) Secretary to general education, Director of technical education, and other scientific and research experts of the institute. Dr. P A Suresh who was the Principal investigator of the project presented the magnitude of the problem and the need to start immediate rehabilitation programs. The deliberations of the meeting considered strongly the necessity to start a specific project for the comprehensive management of children and adults with various types of cognitive and language disabilities. This meeting was the lead to the formulation of SRCCD.

A Community Outreach Center in the Survey Area

The results of the two surveys had an immediate impact in the local community. In the phase II of the survey itself the patients who were already coming to detailed evaluations demanded solutions to their problem. Therefore, a Community Outreach Center



was started attached to the PHC of Changaramkulam at Alamcode Panchayath with the co-operation of the people's representatives of the Grama Panchayath.

Workshop Cum Seminar On LD & DLD

23rd and 24th August 1997- PHC Changaramkulam



Hon. Minister for health & Family Welfare Sri A.C Shanmughadas discussing with the peoples representatives and principal investigator of Project



The workshop cum seminar presided over by Hon. M.P, Secretary to H& FW, Director SCTIMST, Director Public Instruction, District collector, Peoples representatives of Panchayath & Professionals.



The Hon. Minister for Local Administration Sri Paloli Mohammedkutty with Director SCTIMST & Members of the Panchayath

1998 First National Seminar on Cognitive & Child Language Disorders

Jan 7th & 8th 1998 at SCTIMST



Registration of SRCCD (11-02-1998)

(Under the Travancore Cochin Scientific and Charitable Societies Act-1955)

This Charitable Society was set up to establish Institutions with a novel perspective of systematic and scientific approach to the comprehensive management,



rehabilitation and prevention of a devastating group of disabilities that affect mankind, from infancy to elderly.

SRCCD & ICCONS -The first sign in members

Dr.K. Mohandas	-	Director SCTIMST
Mr.Vijayachandran IAS	-	Secretary- Health & Family Welfare
Mr.K. Jayakumar IAS	-	Secretary- General Educator
Smt. Lida Jacob IAS	-	Director of Public Instructions
Dr.K. Narayanan Nair	-	Fellow CDS
Dr.K. Radhakrishnan	-	Professor & HOD Neurology SCTIMST
Dr.P.A.Suresh	-	Associate professor- Dept.Neurology SCTIMST

Meeting at Thycadu Guest house on feb 02, 1998 decided to start the first institution under SRCCD – ICCONS – at Trivandrum

Hon. Ministers for Health and Family Welfare & General Education were the Patrons of the society and Dr. K. Mohandas Director SCTIMST as

Inauguration of SRCCD and ICCONS

The institutions under SRCCD are named **Institute for Communicative and Cognitive Neurosciences (ICCONS)** designed to achieve the general objectives of SRCCD.



Institute for Communicative & Cognitive Neurosciences (ICCONS) is a centre for advanced research, clinical diagnosis, treatment and rehabilitation of children, adults, and the elderly with various types of speech, language and cognitive disorders. ICCONS is registered under the Society for Rehabilitation of Cognitive & Communicative Disorders (Regn. No.T.460/98) with Government of Kerala. The Institute provides specialist service in Neurology, Speech Pathology, Clinical Psychology, Linguistics, Physiotherapy and Special Education. ICCONS is a research centre cum hospital that provides treatment and rehabilitation for specific disorders of cognition, memory and language - like Autism, Dementia, Learning Disability, Stroke, Aphasia and various developmental



disorders due to Genetic and Metabolic causes affecting children, adolescents and adults.

ICCONS, THIRUVANANTHAPURAM

The Society started its first Institution at Thiruvananthapuram, which was inaugurated by the Hon'ble Chief Minister of Kerala on 2nd October, 1998. The Institute with its high thoughts, values and expectation but has a humble beginning in a rented building.



ICCONS Trivandrum Started Functioning in a Rented Building with various specialties - Neurology; Speech Language Pathology; Clinical Psychology; Clinical Linguistic; Physiotherapy Unit & Special School For Disabled Children

1999 National Seminar on Dementia



First National Conference on Autism Nov-1999





Seminar on Learning Disabilities



ICCONS AT KAVALAPPARA, SHORANUR

Land and building received through donation

Sri. V. Govindankutty a Philanthropist from Kavalappara Shoranur decided to donate 4 acres and 27.75 cents of Land and Incomplete building belonging



to Ms.V.K. Amma Trust, Kavalappara, Shoranur, Palakkad (Dist) to SRCCD.

As per the master plan of the society is concerned this was a windfall to start a central institute in mid Kerala. The Governing body of SRCCD on 6-2-1999 - Decided to accept the offer of the donation. The Govt. of Kerala through the Depart of Health and Family Welfare sanctioned Rs. Fifty Lakhs for the Work and an additional Fifty Lakhs Rs. was availed through loan from KFC to complete the work. The Institute starts functioning from Nov 2000 though official inauguration was delayed till 2007 due to various reasons.



2000 First International Conference on Neurology, Language and Cognition-20, 21 & 22 Dec - 2000



ICCONS Shoranur



The Society started its second major institute - Institute for Communicative and Cognitive Neurosciences (ICCONS) at Shoranur Central Kerala in 16th November 2000.

2001 Inpatient Services Equipped with Support from Sir. Dorabji Tata Trust

The centre has inpatient service and services are provided on appointment come admission against existing vacancies. This inpatient service is a unique set up introduced for the first time in any Asian or European countries for rehabilitation of cognitive and communicative disorders only. The inpatient Services provided to the Behavioral management of Children and Adolescent with Autism Spectrum Disorder is first of its kind for Asian Countries. The principle of **Operand Conditioning and Non Verbal Behavioral Training** is a new concept developed by the Institution for the management of children and Adolescents with Autism and other Behavioral Disorders.





Electrophysiology Lab Funded by UNDP

With the aid of the UNDP program an EEG lab is functioning at ICCONS Shoranur. The Electrophysiology unit is an essential component in cognitive neuroscience institutions for assessment of the patient as well as in diagnosis. As high as 40% of population can have silent epileptic discharges and many require treatment. Epilepsy itself is well known for its impact on cognitive and language development. The facility could also be utilized for “Under monitor” assessment of patients and impact of electrophysiological abnormalities on cognitive functioning. It can also be used in the treatment of many functional disorders, hyperactivity syndromes and panic attacks. Continuous video EEG monitoring will also help in diagnosis of rare epileptic syndromes and direct analysis of complex behaviour problems during an attack of epilepsy. So further expansion of the unit is essential to improve the service facilities.



The institution has also procured an Evoked Potential system with assistance from UNDP for early scientific identification of various disorders.

Neuroendocrine Lab Equipped with Assistance from Sir. Dorabji Trust & UNDP

The institution with assistance from Sir Dorabji Tata Trust, has established a fully equipped Neuro Endocrine laboratory with facilitates for full range Neuro endocrine assays (Using IMMULITE – a fully automated computerized Immunoassay instruments is one of the most advanced in the world), Biochemical and metabolic assays, haematology and routine blood and urine and other body fluid analysis. In addition the Institute



has established a Research Neuro chemistry lab with advanced HPLC System funded by UNDP.

Physiotherapy Section Equipped with Assistance from Sir Dorabji Tata Trust & NRHM Project

The Institute has a well-established physical medicine and rehabilitation unit. This unit is able to provide services to 15-20 patients at a time on various exercises and rehabilitation programmes. The department has recently added many modern instruments for facilitating the Service of physiotherapy like Motorized Physical exercise equipments, Functional Electrical Stimulation units (FES), Combination therapy units and Tilt table for exercise through the NRHM Project. However, nearly 50 % of the patient population currently attending the Institution requires regular physiotherapy sessions which stress on further expansion of the infrastructure facilities. To achieve the full target of the population at demand more facilities need to be added to the existing ones. There is a need for more modern equipments for the strengthening of the Physical rehabilitation programs and also provision for reconstructive and repair surgery with the expertise of Neurosurgeon and Psychiatrist.



Human Resource Development for Rehabilitation



As part of the manpower development the institute has started BASLP and MASLP affiliated to University of Calicut.





2002 Expansion of ICCONS TVM-Audiology Labs -Lions International Fund and EEG Labs-UNDP-Assisted

Inaguration by Hon. Minister for Health & Family Welfare- 6th June 2002

Through the UNDP and LCIF project the society and the institution procured essential diagnostic equipments for audiological evaluation such as OAE, clinical audiometer, impedance and portable audiometers. With these facilities the institution is at present capable of identifying and managing various audiological problems and deafness at an early age. However such sophisticated instruments are installed in very limited spaces of a temporary building limiting its utilization



2nd International Conference - Neurology, Language and Cognition-2002



Community Based Training Programme for LD Under UNDP Project 2000-2005



2003 Community Based Rehabilitation (CBR)

Community Outreach Center at Kottayam with Lions Club

Disabilities should be addressed at the doorstep of the needy. Community Based Rehabilitation (CBR) is the crux of this principle. CBR was developed as a response to the need to reach people with disabilities at the community level. The cost involved in the transportation of the disabled to far located institutions leads to social and financial burden to the family. CBR is the answer for this. Community outreach centres can be established with participation of local administrative body or Voluntary organization/ NGO or parental and people participation forums. ICCONS started community outreach centres at Kottayam in collaboration with Lions Club Kottayam and at Changaramkulam with local administrative body.



THE RCI WEEK, SHORANUR AND TRIVANDRUM





2004 Disabilities and You (DAY) A Continuing Public Education Programme on Disabilities



2006 Expansion of ICCONS Shoranur – RSVY Project (2004-2006)

Foundation Stone Laid by Hon. Minister for Health and Family Welfare Shri. Ramachandran Master



ICCONS Shoranur received Rs 37 lakhs through the RSVY project. The District collector Palghat, and then Sub-Collector Ottappalam Dr. Dinesh Aroa IAS and Zilla Panchayath President were the key persons behind the awarding of RSVY fund to ICCONS Institutional development considering the unique services rendering by this organization to persons with disabilities. Through the RSVY Project additional Inpatient Wards, Neuro ICU, operation theatre, Lecture halls for MASLP; Specialized therapy rooms for Autism were added to the existing facilities

ICCONS – is Dynamic in it’s Activities from Community Out Reach Centers to Referral Centers of Excellence

ICCONS interact with local bodies and NGOs to extend its services to the needy at the doorstep. The expertise from ICCONS visits these



centers on weekends on a regular basis to provide therapy and services to the local people. At present it has the functioning of unit at PHC changaramkulam is in collaboration with Alamcode Panchayath and at Kottayam in collaboration with Lions Club.

Communicative & Cognitive disorders require participation of different disciplines. Awareness of the parents, teachers and professionals are of prime importance. This can only be achieved through community training programme. The UNDP training is such a venture whereby a model is established by training the teachers.

2007 Inauguration ICCONS, Shoranur



The Shoranur ICCONS was inaugurated by Hon. Minister for Health and Family welfare and Social welfare Smt. Sreemathy on 23-9-2007 in the Presences of Sri C P Mohammed MLA; Sri Ajaykumar MP; Secretary to Health and Family Welfare Sri Vishwas Mehtha IAS, State Mission Director Dr. Dinesh Arora IAS and other Dignitaries of the Governing Body. This was a major milestone in the history of SRCCD as well as an





additional feather in the cap of Govt of Kerala In the health scenario that a Hospital for the Disabled is first time started in the country.

Training Mothers of Children with Autism Inaugurated by Hon. Minister for Health & Family Welfare Smt. Sreemathy



NPRPD- Programme for the Mentally Challenged

The District of Palakkad has 13 blocks and 94 gramapanchayaths. The projects will be implemented at Panchayath, Block and District level. The District Level Committee will be constituted by incorporating the District Collector, the members as proposed by the NPRPD program, the Director ICCONS and experts from ICCONS. A Panchayat Level Committee will also be constituted with the Panchayat President, members of the Panchayats, PHC Doctors, representatives of local NGOs, representatives of Angawadi Teachers and representatives of ICCONS.



Each Panchayat will have a sub-committee at each ward and the concerned ward member will act as the Chief Co-ordinator. The Community Based Rehabilitation Workers (CBRWs) will be identified at each panchayat for each ward. The CBRWS will include Anganwadi Teachers, Junior Public Health Workers, Local NGOs and Students and Staffs of ICCONS. The CBRWs will be given a three-day intensive training in the identification of disability. The training will be conducted at and by ICCONS Shoranur.

2008 National Conference on Autism 9,10,11th April 2008



Inauguration of workshop on Disabilities by the Hon.minister for Health and Family Welfare Smt. Sreemathy



2009 Autism Awareness Day



2011 National Conference on Autism at ICCONS, Thiruvananthapuram



2012 Genetic Research





National Conference on “Human Environment Interface and Synthetic Biology” at ICCONS, Shoranur



Review meeting headed by Chief Minister, Sri. Oommen Chandy. He promised Government will provide all help for institutions like ICCONS which will provide treatment at low cost to the people. For this help will be sought from National Grameen Health Mission and other Central Government Institutions

2013 NABH Accreditation, ICCONS, Shoranur

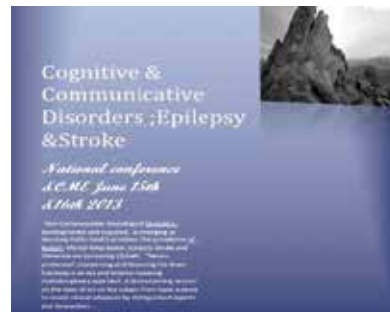
The Hospital Wing of the institute is gained accreditation from the National Accreditation Board for Healthcare institutions (NABH) under the Quality Council of India (QCI). Period (2013-2016)

Strengthening of Infrastructure –Additional Ward, NICU



National Conference and CME

National Conference and CME on “Cognitive and Communicative Disorders, Epilepsy and Stroke” at ICCONS, Shoranur



Laying Foundation Stone ICCONS, Thiruvananthapuram



2014 Inauguration of ICCONS, Thiruvananthapuram - New Building



Review meeting





Inauguration of New Building



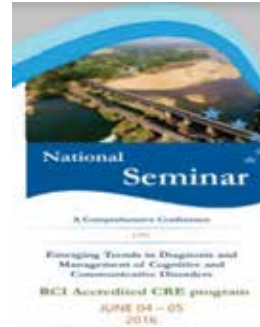
2015 Inauguration – ICCONS Shoranur, Ullattuthodiyil Campus



Foundation Stone Laying of Academic Block at ICCONS, Shoranur



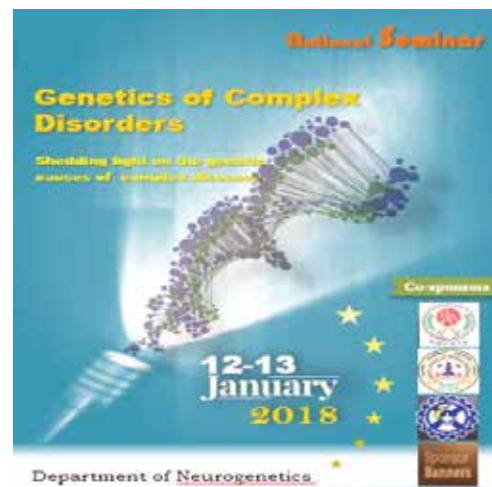
2016 National Seminar "Emerging Trends in the Diagnosis and Management of Cognitive and Communicative Disorders" at ICCONS, Shoranur (June 04-05, 2016)



2018 National Seminar "Genetics of Complex Disorders"

at ICCONS, Shoranur (January 12-13, 2018)

This seminar was co-sponsored by ICMR, CSIR and KSCSTE





2019 MoU Signed Between ICCONS and IGIB

The Neurogenetics department at ICCONS, Shoranur has signed an MoU with the Institute of Genomics and Integrative Biology (IGIB), New Delhi, which is a Council of Scientific and Industrial Research(CSIR), Govt. of India institution. As a result, expensive genetic tests for rare cognitive and communicative disorders can be done at nominal rates under the GUARDIAN (Genomics for Understanding Rare Diseases India Alliance Network) and GOMED (Genomics and other Omics tools for Enabling Medical Decision) schemes of the IGIB.

2020 CRE Programme

on “Managing Behaviours in the Classroom and Home” 14th to 18th January 2020 at ICCONS, Thiruvananthapuram



CME on "Genetics of Rare Disorders"

at ICCONS, Shoranur (March 01, 2020). This seminar was cosponsored by NAMS and MCI.



Screening Camp & Painting Competition

On the occasion of World Disability Day, a free screening camp on Language Disability, Learning Disability, Developmental Disability, Physical Disability, Hearing Problems, Behavioral Disability and Memory Test was conducted from December 01 to 06



at ICCONS, Thiruvananthapuram. Also, on December 6, a painting competition was organized for differently abled children.

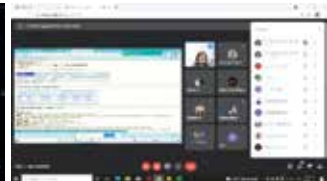
2021 Academic Block Inauguration

Online inauguration of Academic Block of ICCONS, Shoranur was done by Hon'ble Health and Family Welfare Minister Smt. K K Shylaja.



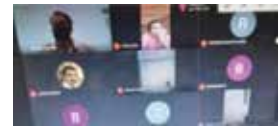
VRITIKA

Science and Engineering Research Board (SERB)-funded program VRITIKA in 2021 (Research Internships) at ICCONS, Shoranur.



CRE Webinar

CRE Webinar conducted on 6th & 7th May 2021 organised by ICCONS, Thiruvananthapuram



2022 CME - ICCONS Neuro Update



CME “ICCONS Neuro Update” held on 16th October 2022 at ICCONS, Shoranur. This CME programme was accredited by the Kerala State Medical Council

Inauguration of New Audiology Lab

Inauguration of New Audiology lab is done by Hon. Health and Family Welfare Minister, Smt. Veena George.



VRITIKA

Science and Engineering Research Board (SERB)-funded program VRITIKA in 2022 (Research Internships) at ICCONS, Shoranur.



CRE Programme

ICCONS, Thiruvananthapuram organized a CRE Programme on the topic “Development of Play and Social Skills in Children with ASD” on 16th to 17th December 2022



2023 Inauguration of Free Immunisation Services for Children – 20th February 2023

Hon. Shoranur MLA Sri.Mammikutty performed Inauguration of Free Immunization Services for Children at ICCONS, Shoranur



Inauguration of Silver Jubilee Gate and Solar Panel – 3rd May 2023

The institute had pioneered to setup solar power to mitigate the power shortage in its two campuses. ICCONS is the 1st institute under the Health Dept to go 100% solar power in its two campuses. This amounts to a saving of Rs.25 lakhs per year in terms of energy charges



Scientific Programs Co-Sponsored by the KSCSTE

National Seminar “Epigenetics Meets Metabolomics” at ICCONS, Shoranur (June 09-10, 2023)



State Level Seminar on “Non-Verbal Learning Disability”

was held on 23rd to 25th January 2023 at ICCONS, Thiruvananthapuram



Skill Development Programs Funded by the Kerala Knowledge Economy Mission (KKEM)

“Molecular Genetics Techniques and Bioinformatics” at ICCONS, Shoranur funded by Kerala Knowledge Economy Mission (KKEM). Started in March 2023-ongoing





STATUTORY BODIES

Governing Body (2022-23)

- | | |
|--|---|
| 1. Ms. Veena George
Chairperson
Hon'ble Minister for Health and Family Welfare,
Govt. of Kerala | 3. Dr. Sanjay Behari
Vice chairman
Director,
SCTIMST |
| 2. Prof. P Bindu
Co-chairperson
Hon'ble Minister for Social Justice
Govt. of Kerala | 4. Ms. Tinku Biswal IAS
Co-vice chairperson
Principal Secretary
Health & Family Welfare, Govt. of Kerala |

Members

- | | |
|--|--|
| 5. Principal Secretary to Govt.
General Education Dept.
Govt. of Kerala | 14. Sri. Moideenkutty K
Managing Director
Kerala State Handicapped Person Welfare
Corporation Ltd. |
| 6. Principal Secretary to Govt.
Finance Department
Govt. of Kerala | 15. Smt. Arya Rajendran S
Mayor,
Thiruvananthapuram Corporation |
| 7. Principal Secretary to Govt.
Social Justice Dept.
Govt. of Kerala | 16. Sri. M K Jayaprakash
Chairperson
Shoranur Municipality |
| 8. State Mission Director
National Health Mission | 17. Dr. V Ramankutty
Former HOD,
Achuthamenon Centre
SCTIMST |
| 9. Director of General Education
Govt. of Kerala | 18. Sri. V N Jithendran IAS (Retd.)
Former Director
Social Justice Department |
| 10. Director of Health Services
Govt. of Kerala | 19. Dr. V Remakumary
CMO (Retd.)
ISM Department |
| 11. Director of Medical Education
Govt. of Kerala | 20. Dr. Sanjeev V Thomas
Director, ICCONS |
| 12. Director of Social Justice
Govt. of Kerala | |
| 13. Dr. Sylaja P N
HOD, Dept. of Neurology
SCTIMST | |



Executive Committee (2022-23)

1. **Principal Secretary**
Health & Family Welfare, Govt. of Kerala

Members

- | | |
|---|---|
| <ol style="list-style-type: none"> 2. Principal Secretary to Govt.
General Education Dept.
Govt. of Kerala 3. Principal Secretary to Govt
Social Justice Dept.
Govt. of Kerala 4. State Mission Director
National Health Mission 5. Director of General Education
Govt. of Kerala | <ol style="list-style-type: none"> 6. Director of Health Services
Govt. of Kerala 7. Director of Medical Education
Govt. of Kerala 8. Director of Social justice
Govt. of Kerala 9. Dr. Sanjeev V Thomas
Director, ICCONS |
|---|---|



Ethics Committee

1. **Dr. Sudheendra Gosh MD**
Chairperson
Professor & HOD, Dept of Pulmonology
Sree Gokulam Medical College, TVM
2. **Dr. Asha S MD**
Basic Science Member
Professor & HOD, Dept of Pharmacology
Azeezia Medical College, Kollam
3. **Dr. Givaz P C, MD, DM**
Clinician Member
Professor & HOD Department of Neurology
Jubilee Medical College, Thrissur
4. **Dr. Vysakha K, MD, DM**
Clinician Member
Assistant Professor of Neurology
G G Hospital, Thiruvananthapuram
5. **Dr. Sindhu Thulaseedharan PhD**
Legal Expert Member
Associate Professor & HOD Dept. of Law
University of Kerala
6. **Dr. Beena Issac PhD**
Social Scientist Member
Professor & Former Head
Department of Philosophy
University of Kerala
7. **Dr. A M Marykutty PhD**
Lay Person Member
Asst. Professor (Retd)
Department of Linguistics
University of Kerala
8. **Dr. Nandini Jayachandran PhD**
Member Secretary
(Thiruvananthapuram)
Lect. in Clinical Psychology Gr. I
ICCONS, Thiruvananthapuram
9. **Dr. Anitha Ayyappan Pillai PhD**
Member Secretary
(Shoranur)
Asso. Professor,
Dept. of Genetics ICCONS,
Shoranur



Construction Committee

- | | |
|--|--|
| <p>1. Sri. Eapen Varghese
Chairperson
Chief Town Planner (Retd.)</p> <p>2. Sri. Muraleedharan Nair
Member
Enginner, VSSC (Retd.)</p> <p>3. Sri. Prasada Varma Thampan
Member
Prof & HOD Civil Retd.), Palakkad</p> | <p>4. PWD Executive /
Superintending Engineer
Member</p> <p>5. Construction Engineer,
SCTIMST, Member</p> <p>6. Finance Officer,
ICCONS, Member</p> <p>7. Construction Engineer,
ICCONS, Member Secretary</p> |
|--|--|

Purchase Committee

- | | |
|---|--|
| <p>1. Director
Chairperson
Medical Education, Govt. of Kerala</p> <p>2. Regional Director
ICCONS
Member</p> <p>3. Administrative Officer
ICCONS
Member</p> <p>4. Representative from KMCL
Member</p> <p>5. Biomedical Engineer
SCTIMST
Member</p> | <p>6. Medical Superintendent
ICCONS, Shoranur
Member</p> <p>7. Physiotherapist
ICCONS, Thiruvananthapuram
Member</p> <p>8. External Technical Expert
Member</p> <p>9. Public Relations Officer
ICCONS
Member</p> <p>10. Purchase & Store Officer
ICCONS
Member Secretary</p> |
|---|--|



Research Committee

- 1 **Prof. Manjari Tripathi**
Chairperson
Professor, Dept. of Neurology,
Neurosciences Centre,
All India Institute of Medical
Sciences (AIMS),
New Delhi 110 608.
- 2 **Prof. Suvarna Alladi**
Member
Dept. of Neurology,
National Institute of Mental Health and
Neurosciences, (NIMHANS),
Bangalore 560 029, Karnataka.
- 3 **Prof. Pankaj Seth**
Member
Cells and Molecules,
National Brain Research Centre (NBRC),
Haryana 122 051.
- 4 **Dr. Mary Iype**
Member
Professor, Dept. of Pediatric Neurology,
Government Medical College,
Thiruvananthapuram 695 011, Kerala.

&

Regional Director
ICCONS)
- 5 **Prof. N. Sreedevi**
Member
Professor, Dept. of Prevention of Communication
Disorders, All India Institute of Speech &
Hearing (AIISH), Mysore 570 006, Karnataka.
- 6 **Prof. C. Kesavadas**
Member
Professor, Dept. of Imaging Sciences &
Intervention Radiology,
Sree Chitra Tirunal Institute of Medical Sciences
& Technology,
Thiruvananthapuram 695 011, Kerala
- 7 **Dr. Vinod Scaria**
Member
Senior Scientist, Genome Informatics,
Institute of Genomics and Integrative
Biology (IGIB), New Delhi 110 025.
- 8 **Dr. Nandini Jayachandran**
Member
Lecturer Grade I,
Dept. of Psychology, ICCONS,
Thiruvananthapuram 695 011, Kerala.
- 9 **Dr. Anitha Ayyappan Pillai**
Member Secretary
Associate Professor, Dept. of Neurogenetics
ICCONS. Shoranur 679 523, Kerala.



SERVICES AT A GLANCE

Institute for Communicative and Cognitive Neurosciences (ICCONS) is a pioneer Institution under Govt. of Kerala for the comprehensive management, rehabilitation, education, research and development in the field of developmental and acquired disabilities from infancy to elderly such as

- Autism Spectrum Disorder
- Learning Disability
- Mental Retardation
- Cerebral Palsy
- Single and Multiple Congenital anomalies
- Epilepsy
- Post Stroke and Post traumatic syndrome
- Degenerative Disorders affecting the nervous system

The centre gives specific emphasis to conditions that interfere with cognitive, language and motor functions. A multidisciplinary team consisting of Neurologists, Pediatricians, ENT specialists, Audiologists, Speech Language Pathologists, Linguists, Clinical Psychologists, Physiotherapists and Special Educators are involved in the rehabilitative services provided by the Institution. The Institute is providing inpatient and outpatient services, rehabilitation programs like speech therapy, behavioural training, physiotherapy and linguistics training to the above-mentioned group of patients on a regular basis.

ICCONS consists of

- ICCONS Hospital
- ICCONS College of Paramedical Sciences
- ICCONS Special School
- ICCONS Advanced Centre for neurometabolomic, proteomics and genetics

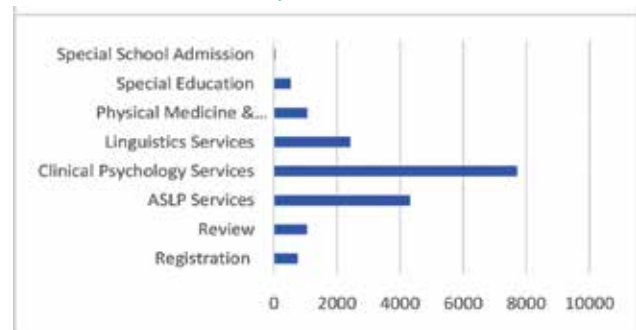
The ICCONS, Shoranur has an inpatient ward with Neuro-ICU for emergency services and advanced fully automated Neuro-endocrine and metabolic lab & electro-physiology lab ready for patient service. The Centre is giving treatment to children, adult and the elderly with various acquired and developmental disabilities like autism, mental retardation, cerebral palsy, single and multiple congenital anomalies post stroke and post traumatic syndrome, adult aphasia, dementia etc.

OPD Services are available on all week days, barring general holidays. Neurology services include movement disorders, epilepsy care, neuro muscular disorders, sleep disorders, neuro infections, neurodegenerative disorders, neuroimmunology etc. Different departments are being run to provide patient focused and disease specific care. A wide variety of therapeutic interventional procedures using advanced techniques are also performed.

Patient care services reach out to all privileged sections of the society. About 90% of the patients receive treatment at highly subsidized costs.

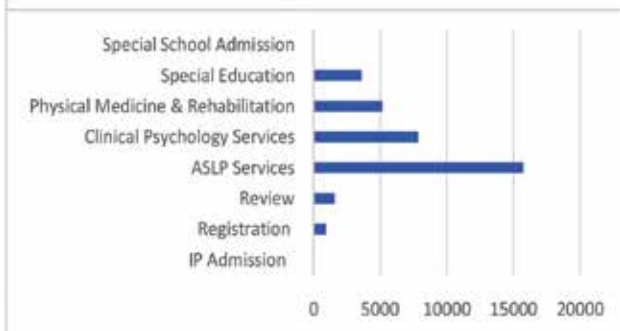
During the year 2022-23, a total of 753 new clients registered at ICCONS, Thiruvananthapuram and 954 at ICCONS, Shoranur.

ICCONS, Thiruvananthapuram





ICCONS, Shoranur



MAJOR ACHIEVEMENTS 2022-23

- Installation of Solar Panel: The institute had pioneered to setup solar power to mitigate the power shortage in its two campuses. ICCONS is the 1st institute under the Health Dept to go 100% solar power in its two campuses. This amounts to a saving of Rs.25 lakhs per year in terms of energy charges
- To establish neurometabolic and genetic services at ICCONS-Shoranur through NABARD
- Signing Agreement with Central Govt to establish Multi-Disciplinary Research Unit (MRU)
- 3 years approval by RCI for BASLP Course
- Construction of internal road and open drainage around academic block at ICCONS-Shoranur
- Installation of Biochemistry equipment at ICCONS,Shoranur
- Construction of 1st Floor extension at ICCONS Trivandrum for classrooms for starting new courses
- Installation of Lift at ICCON Trivandrum
- Purchase of Transcranial Magnetic Stimulator
- Full functioning of Ullattuthodiyil campus at ICCONS,Shoranur (Hostel, Canteen, Special School)



ICCONS Thiruvananthapuram

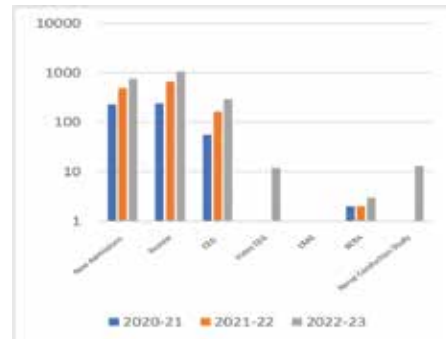


Outpatient Services

Patient Care Statistics

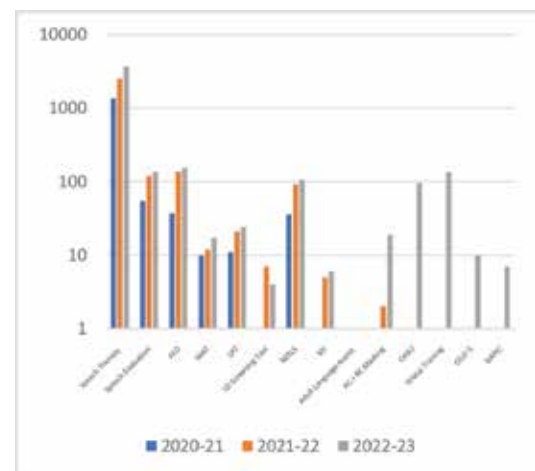
Department of Neurology

Services	2020-21	2021-22	2022-23
New Admissions	229	489	753
Review	239	665	1055
EEG	56	166	294
Video EEG			12
EMG			1
BERA	2	2	3
Nerve Conduction Study			13



Department of ASLP

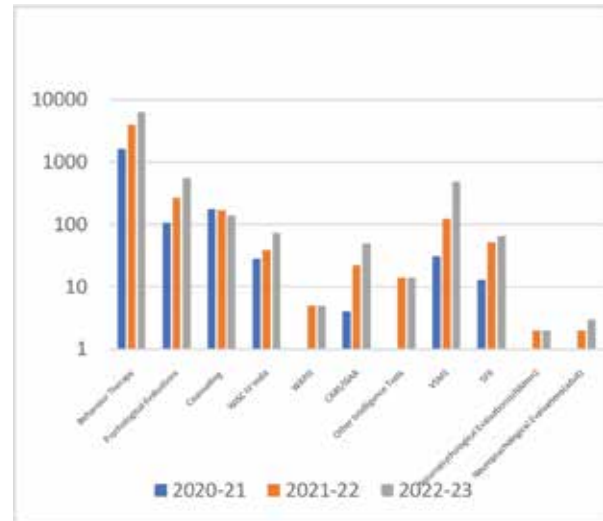
Services	2020-21	2021-22	2022-23
Speech Therapy (including teletherapy)	1361	2526	3663
Speech Evaluation	55	120	136
Assessment of Language Disorder	37	137	153
Malayalam Articulation Test	10	12	17
Linguistic Profile Test	11	21	24
LD Screening Tool		7	4
Receptive Expressive Emergent Language Scale	36	93	107
Stuttering Severity Index		5	6
Adult Language Assessment		1	1
AC + BC Masking	1	2	19
Computer Assisted Speech Language Intervention			95
Group Training			134
CELF-5			10
Dyslexia Assessment Profile for Indian Children			7





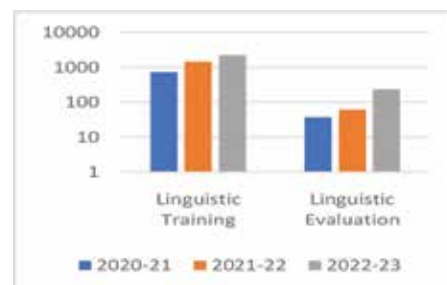
Department of Clinical Psychology

Services	2020-21	2021-22	2022-23
Behaviour Therapy (including teletherapy)	1628	3956	6341
Psychological Evaluations	106	271	551
Counselling	176	169	139
WISC IV India	28	39	73
WAPIS		5	5
CARS/ISAA	4	22	50
Other Intelligence Tests		14	14
VSMS	31	123	484
SFB	13	52	65
Neuropsychological Evaluations(children)		2	2
Neuropsychological Evaluations(adult)		2	3



Department of Linguistics

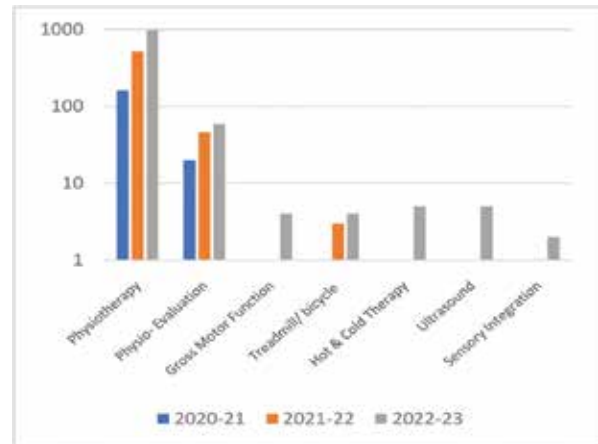
Services	2020-21	2021-22	2022-23
Linguistic Training (including teletherapy)	734	1439	2199
Linguistic Evaluation	37	62	232





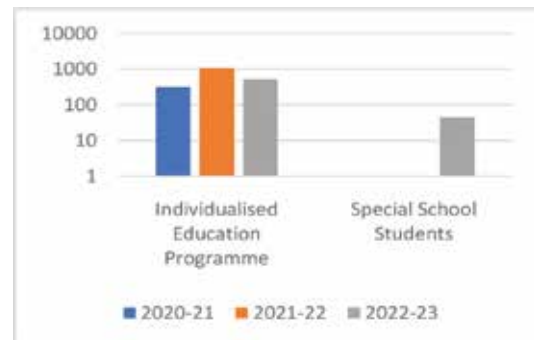
Department of Physiotherapy

Services	2020-21	2021-22	2022-23
Physiotherapy	160	517	984
Physio- Evaluation	20	46	59
Gross Motor Function		1	4
Treadmill/ bicycle		3	4
Hot & Cold Therapy			5
Ultrasound			5
Sensory Integration			2



Special School

Services	2020-21	2021-22	2022-23
Individualised Education Programme	319	1062	516
Special School Students	-	-	45





DEPARTMENTS

Department of Neurology



Dr. Sanjeev V Thomas
Director, ICCONS



Dr. Mary Iype
Professor & HOD, Dept. of
Paediatric Neurology, SAT &
Regional Director, ICCONS



Dr. Murugan C Nair
Consultant
Neurologist



Smt. Varna V Nair
Neuro Technician

The neurology service runs outpatient clinics on four days per week. The services include movement disorders, epilepsy care, neuro muscular disorders, sleep disorders, neuro infections, neurodegenerative disorders, neuroimmunology etc.

Neurology OPD were headed by Dr. Sanjeev V Thomas, our Director and former HOD, Dept. of Neurology, SCTIMST. Dr. Murugan C Nair, Neurologist, General Hospital, Thiruvananthapuram is our Consultant Neurologist.

Paediatric Neurology OPD continue to run well under Dr. Mary Iype, Professor and Head, Dept. of Paediatric Neurology, SATH, MCH, Thiruvananthapuram on all Friday's.

Lab Facilities

- NatusNicolet V32 channel EEG/VEEG Machine
- Nicolet (Viking Quest) EMG Machine
- Brain Electrical Source Analysis (BESA)

Department of ASLP



Smt. Divya G
Lecturer Gr. I



Smt. Priyanka Panchapakesan
Lecturer



Smt. Reji R
Lecturer Gr. II



Smt. Arun Mallika
Clinical Assistant

The Department of Speech language Pathology & Audiology is one of the core technical department of the Institute and has contributed in enhancing the progress of the Institute during the past 25 years. Contributions and activities of the department comprise

of clinic and consultancy services, in house and extra mural research, community awareness programs and short-term training programs

The Clinic of the Department has three Specialized Units viz. **Speech Science Lab** for those



with Voice Disorders or Fluency Disorders. The most outstanding feature of this Lab is that it is well equipped with instruments such as Dr.Speech Software which are recent and advanced. Secondly unit for **assessment and rehabilitation** of individuals with Child Language Disorders (Autism Spectrum Disorders, Intellectual Disability and Specific Language Impairment etc) and Adult Language & Speech Disorders such as Aphasia, Dysarthria, Neurogenic Stuttering etc. Finally, unit for the **assessment and diagnosis of hearing**. The departmental staffs play a vital role in achieving one of the objectives of the institute, that is the Manpower development by delivering clinical supervision to students of BASLP course and post graduate courses in Psychology. Faculties are acting as a resource person in various departmental activities like teacher training programme, Continuing Rehabilitation Education, awareness programmes etc.

Main Activities

- Screening and early detection for speech, language and hearing disorders
- Diagnostic services for speech language and communication disorders
- Audiological diagnostic services
- Hearing aid trial and fitting services
- Regular, daily or need based speech and language therapy sessions (both online and offline)
- As resource persons in delivering awareness on speech and language aspects of both child and adult language disorders
- Conducts screening camps
- Clinical expertise and lecturer given to students of various fields (both online and offline)
- Co-ordinates internship students of BASLP course.
- Provides orientation training to internship students of other disciplines.
- Involves in research activities, publications and paper presentations

Clinical Services

- Speech and Language Evaluation
- Audiological Evaluation
- Speech and Language Intervention (both face to face and online intervention)
- Computer Assisted Speech and Language Intervention using Dr. Speech software (vocab & Delayed Auditory Feedback)

- Auditory Verbal Therapy for Cochlear Implanted cases

Lab Facilities

- Diagnostic Audiometer – 1 No
- Impedance Audiometer – 1 No
- Brainstem Evoked Response Audiometry (BERA)
- Auditory Steady State Response (ASSR)
- Distortion Product Otoacoustic Emission (DPOAE)
- Dr.Speech software (Vocab and Delayed Auditory Feedback)

Paper Presentations in CRE/Seminars/Conferences:

- Smt. Priyanka Panchapakesan provided lecture on the topic “Nature and Needs in ASD”- A 2 days CRE Programme held on 16th to 17th December 2022 at ICCONS
- Smt.Divya. G, provided lecture on the topic “Speech and Language aspects of Nonverbal Learning Disability” in the State Level CRE Seminar on Nonverbal Learning Disability held from 23rd to 25th January 2023.
- Smt.Divya. G, handled a session on “Language skills” in the three days State level Seminar on “Transition skills and preparation” organized by the department of Psychology, University of Kerala, during 24th -26th March 2023 at Kariavattom Campus.

Training programs

- Provided orientation training to BTech Students of MBCET on “Behavioural and Language aspects of ASD Children” in order to assist them in developing a mobile app by incorporating Artificial Intelligence to provide Alternative Augmentative for ASD children.
- Co ordinating BASLP Internship students from ICCONS, Shoranur (2022-2023)
- Provided Internship training and presentation on “Speech and Language Aspects of Child Language Disorders” to internship candidates of various colleges such as M.Sc Psychology (University college, Trivandrum), MSc Counselling Psychology (Loyola College of Social Sciences, Trivandrum) and MSc Clinical Psychology (Christ University, Delhi).
- Orientation session on Speech and language Disorders in children and adults were given to MD in Paediatric Dentistry candidates and also provided internship training.



Participation in Seminars/Conferences:

Faculties of the department have participated in National level online CRE programmes approved by Rehabilitation Council of India (RCI) on various topics as given below.

- a. Autism Spectrum Disorder Comprehensive assessment and integrated Management
- b. Theatre arts in communication Training
- c. Language Assessment in children
- d. Communication options in teaching children with hearing impairment
- e. Recent methods in teaching Braille- reading and writing
- f. Speech and language intervention in children: Basic and advanced practices
- g. Pedagogical strategies for4 inclusive classrooms with special focus on CWSN
- h. World Health Organization (WHO) free online courses on COVID- 19 and its advantages for Rehabilitation Council of India (RCI) certified professionals.

- i. Pedagogical strategies for inclusive classrooms with special focus on CWSN conducted by CRC, Lucknow
- j. Speech & language intervention in children- basic & advanced practices conducted by KMC Mangalore
- k. Autism spectrum disorder-comprehensive assessment and integrated management conducted by HIMS-Dehradun
- l. Assessing and development of language in preschool children by CRC-Patna
- m. Teaching strategies for children with ASD by NIEPMD-Chennai
- n. Assessment tools for PWID & SLD by NIEPID-Noida
- o. Behavioural intervention for PWID with associated conditions by NIEPID-Secunderabad
- p. Community based rehabilitation by NIEPMD-Chennai
- q. Evidence based practice in orthotic management of neuropathic feet CRC-Patna
- r. “Orthotic management of sports related injuries” and “Transition skills and preparation” by CRC-Gorakhpur

Department of Clinical Psychology



Dr. Nandini Jayachandran
Lecturer Gr. I



Sri. Sreekumar S
Lecturer Gr. II



Dr. Varghese Mathew
Lecturer Gr. II



Smt. Santhi V S
Lecturer Gr. II



Smt. Dhanalakshmi G S
Registrar in Clinical Psychology

The Department of Clinical Psychology, ICCONS, Trivandrum was established in 1998, right from the inception of the Institute for Communicative & Cognitive Neurosciences as one of the oldest and one among the main Departments of the Institute. The

Department functions in alignment with the three-fold objectives of the Institute viz., comprehensive clinical diagnosis & management of disorders of cognition, development of specialized man-power/professionals in this area and undertaking high quality research in thrust areas.



Main activities

- Psychological Evaluations
- Diagnostic & Ability/skill assessments.
- Disability Certification services
- Therapeutic services
- Counseling
- Parental Counseling
- Teaching & Training programs
- Research activities

Disability certification Drive for 10th std students, as per request from DMO, Trivandrum done from Jan 16th to Feb 16th 2023 in which students from around 13 schools in Trivandrum District were provided assessments by the staff members of the Department.

Lab Facilities

- **Intelligence Assessment Tools**
 - ♦ Seguin Form Board
 - ♦ Malin's Intelligence Scale for Indian Children
 - ♦ Wechsler Intelligence Scale for Children-IV India
 - ♦ Binet-Kamat Test
- **Adaptive Functioning Tools**
 - ♦ Vineland Social Maturity Scale
 - ♦ Vineland Adaptive Behaviour Scale-2
- **Diagnostic Tools**
 - ♦ Childhood Autism Rating Scale-2
 - ♦ Dyslexia Screening Test
 - ♦ Indian Scale for Identification of Autism
- **Adult Neuropsychological Battery Tool**
 - ♦ PGI Battery of Brain dysfunction
- **Adult Ability Testing Tools**
 - ♦ Wechsler Adult Intelligence Scale-IV India
 - ♦ Wechsler Adult Performance Intelligence Scale
 - ♦ Bhatia's battery of Performance Intelligence Test.

Teaching & Training activities

- **Dr. Nandini Jayachandran engaged in**
 - ♦ Internship Program preparation, Co-ordination, Supervision & Handling of academic lectures/sessions, case-discussions, seminars & provision of guided exposure in

clinical case management for the Internship students posted at ICCONS, Trivandrum at an average of 3 hours per working day.

- ♦ Guidance, supervision and convening of Journal Clubs & Seminars allotted to Internship students.
- ♦ Invited lecture on the topic: "The impact of Attention –Deficit/Hyperactivity Disorder (ADHD): from Childhood to Adulthood" at the Trivandrum Management Association, Trivandrum on 20th January 2023.
- **Sri. Sreekumar S is engaged in**
 - ♦ 60 hours Classes for BASLP program through online and offline mode, (48 hours offline and 12 hours online)
 - ♦ IQ assessment at BRC, Kaniyapuram on 25th and 27th July 2022
 - ♦ UDID Certificate camp organised by Kerala Social Security Mission at Kasaragod on 6th to 11th November 2022.
 - ♦ Invited lecture in
 - Seminar on behaviour management organized by BRC Attingal on 1st November 2022
 - Parent and teachers training organized by SSK in connection with the sahajeevan camp on 16th December
 - Parent training program organized by Grama Jyothi special school Nedumangad on 4th February 2023
 - Parent awareness program at NISH Trivandrum on 3rd March 2023
 - ♦ CRE Programme
 - Coordinator for 2 days Continuing Rehabilitation Education (CRE) Programme on the topic "Development of Play and Social Skills in children with ASD" held on 16th & 17th December 2022 and 3 days State Level Seminar on "Non-verbal Learning Disability" held on 23rd to 25th January 2023.
 - Resource person in 2 days Continuing Rehabilitation Education (CRE) Programme held on 16th & 17th December 2022 and provided lecture on the topics "Introduction to Play Therapy" and "Strategies of development of play skills"



- Resource person in 3 days State Level Seminar held on 23rd to 25th January, 2023 and provided lecture on the topics “What are Non-verbal Learning Disabilities”
 - 26th January 2023, 3 hours classes for CRE at University of Kerala Karyavattom
 - 27th January 2023 3 hours classes for CRE at University of Kerala ,Karyavattom
 - 25th March 2023 3 hours classes for CRE at University of Kerala, Karyavattom
 - ♦ Presentations in
 - Seminar organized by CRC Calicut on 2nd April 2022 in connection with Autism Awareness Day on the topic “understanding children-an overview of neurodevelopmental perspective”
 - National Seminar on Play therapy organized by Thanal Calicut on 31st July 2022. “Strategies for developing play skills in children with developmental disorders -a therapy perspective.”
 - One Day Seminar on ASD organized by SSK on 12th November 2022 “behavior intervention for children with ASD- role of evidence-based practices.” for 2 days Continuing Rehabilitation Education (CRE) Programme on the topic “Development of Play and Social Skills in children with ASD” held on 16th & 17th December 2022 and 3 days State Level Seminar on “Non-verbal Learning Disability” held on 23rd to 25th January 2023.
 - **Dr. Varghese Mathew**
 - ♦ Participated as Resource Person in the State Level CRE Seminar on “Non-Verbal Learning disability” on the topic “Behavioural/ Psychological Management (Nonverbal LD)”
 - ♦ engaged for Delivering academic lectures, clinical case-management and case discussions for the internship trainees from various colleges.
 - **Smt. Santhi V.S.**
 - ♦ Participated as a resource person in a State Level CRE Seminar on Non-Verbal Learning disability on the topic “LD vs Non-verbal LD”
 - ♦ engaged for Delivering academic lectures, clinical case-management and case discussions for the internship trainees from various colleges.
 - **Smt. Dhanalekshmi G.S.**
 - ♦ Participated as resource person in the CRE programme “Development of Social Skills in ASD” conducted by ICCONSTRivandrum on the topic “Social Skill Development in Children”
 - ♦ Participated as resource person in the CRE programme on “Early warning signs of NVLD” Conducted by ICCONS, Thiruvananthapuram
 - ♦ engaged for Delivering academic lectures, clinical case-management and case discussions for the internship trainees from various colleges.
- Participation in Seminars/Conferences:**
- Smt. Santhi V S attended CRE webinars on
- ♦ “Assessment Tools for PWID & SLD” conducted by NIEPID, NOIDA UP
 - ♦ “Application of Technology In Education & Training”, “Assessing & Development Of Language In Pre-School Children” and “Development Of Pre-Vocational Skills” conducted by CRC, PATNA
 - ♦ “Recent Developments In AAC” and “Pedagogical Strategies for Inclusive Classrooms With Special Focus On CWSN” conducted by CRC, LUCKNOW
 - ♦ “Assessment and Intervention For Children With ADHD”, “Emotional Recognition And Regulation Training For Persons With ID”, “Parental Training Of Sexual Education For Children With ID” and “Theatre Arts In Communication Training” conducted by NIEPID, SECUNDERABAD
 - ♦ “Management for Hearing Impairment” by CRC, Chhattisgarh
 - ♦ “Speech & Language Intervention in Children Basic & Advance Practices” conducted by Kasturba Medical College, Mangalore
 - ♦ “Autism Spectrum Disorder: Comprehensive Assessment & Integrated Management” conducted by HIMS, Uttarakhand
 - ♦ “Role of Play in Early Childhood in Developmental Disabilities”, “Research Methods In Special Education” and



“Behavioural Intervention For PWD With Associated Conditions” conducted by CRC Secunderabad

Smt. Dhanalekshmi G S attended CRE webinars on

- ♦ “Assessment and Intervention For Children With ADHD” conducted by NIEPID, Secunderabad
- ♦ “Management for hearing impairment” organised by Composite Regional Centre for Skill Development, rehabilitation and empowerment of persons with disabilities, Chhattisgarh
- ♦ “Early Identification and intervention of Hearing Impairment” conducted by CRC, for Skill Development, rehabilitation and empowerment of persons with disabilities, Chhattisgarh

- ♦ “Strengthening Families of children with Developmental Disabilities conducted by NIEPID, Secunderabad
- ♦ Disability Acts for Empowerment and Rehabilitation of Persons with Disability organised by CRC for Skill Development, rehabilitation and empowerment of persons with disabilities, Chhattisgarh
- ♦ “Autism Spectrum Disorder – Comprehensive assessment and Integrated Management” organised by Himalayan Institute of Medical Sciences, Uttarakhand
- ♦ Aids and appliances for disability” organised by CRC for Skill Development, rehabilitation and empowerment of persons with disabilities, Chhattisgarh

Department of Linguistics



Smt. Bindukala S
Lecturer Gr. II



Smt. Sonia Christy
Lecturer Gr. II

The clinical linguistics department is a specialised division within the field of linguistics that focuses on the study and application of linguistic principles in the assessment, diagnosis, and treatment of communication disorders. Its primary goal is to bridge the gap between the academic study of language and the practical needs of individuals with speech, language, and communication impairments. Clinical linguists assess and diagnose specific language impairments such as dyslexia, language processing disorder and speech sound disorders. Linguist helps the learning disabled in improving their language and communication skills.

Clinical linguistics is a vital field that plays a crucial role in improving the lives of individuals facing communication challenges.

Main Activities

- Language evaluation of children
- Special language therapy for Learning Disabled children, Intellectual Disability, ADHD and Autistic children (reading and writing).
- Individual therapy
- Group therapy
- Online therapy
- Preparation of articles for Souvenirs in connection with Silver Jubilee- ICCONS

Clinical Services

- Grammatical correction
- Spelling correction



- Special techniques used to improve reading and writing
- Techniques to improve handwriting
- Narrative writing

Teaching Activities

- Taking classes for BASLP students at ICCONS, Shoranur

- Handled sessions for state level CRE Seminar on 'Non-verbal Learning Disability' held on January 23rd to 25th.
- Handled sessions on one-day workshop organized by SSK on 12th November 2022.

Department of Physical Medicine and Rehabilitation



Smt. Smitha T
Physiotherapist

The physiotherapy department established on 8th February 2000 in ICCONS, Thiruvananthapuram. The department provides comprehensive physiotherapy services for a wide range of conditions for outpatients of ICCONS. The department offers home care programs also. Various clinic-pathological conditions like developmental disorders, neurological disorders and orthopaedic impairments are taken care through outpatient service. The functions of physical therapy include the examination, diagnosis and treatment of individuals with physical disabilities, movement dysfunction and pain. This department takes over the continuing medical needs and rehab care of disabled patients and set an integrated rehabilitation goal for maximum independency of the patient. The purpose of physiotherapy department is to provide treatment on a number of hands-on-techniques, exercise and interventions with the goal of addressing functional impairments including muscle tone, strength, coordination, balance and posture, mobility and achieving an optimal range of motion.

Main Activities

- Clinical services
- Training programmes

Clinical services

- Total rehabilitation and management of clients
- Evaluation of newly registered clients
- Diagnosis, prognosis and management of clients
- Re-evaluation on regular intervals
- Home training programmes to parents

Lab facilities

- Tilting table Electric
- Treadmill
- Exercise couch
- Hand exerciser Table
- Ankle Exerciser
- Static Cycle
- Trampoline
- Multi Exerciser Chair
- Parallel bar with mirror
- Balance board
- Wobble balance board
- Roller board
- Ball pool
- Depth perception peg board
- Peg board
- Gym ball big and small
- Wedge
- Moist heat unit
- Cold therapy unit
- Ultra sound
- TENS
- Bean bag
- Bolster



Special School



Smt. Sheeba V
Teacher



Smt. Mini P
Teacher



Sri. Sasi D
Attender



Smt. Bindukala K R
Attender



Sri. Syamkumar S
Attender



Smt. Sreelaja O
Attender

ICCONS special school reopens with 10 students on 07/06/2022. Gradually the number of students increased and reached 45, during the year 2022-2023. There are 2 batches of students. The first group is between the ages of 3 to 6 years (preschool) The other group is above 6 years up to 12 years. The main aim of the school is to allow the children to develop their full potential in all areas of life. we train the children in basic skills such as improving eye-hand co-ordination, eye to eye contact, developing communication skills, personal and social skills, sitting ability and essential skills needed for daily living. The major skills in these areas are developed and the pupil who attain the basic

skills can integrate to normal schools. We train the pupil in curricular and co-curricular activities. Children between the age of 6-12 years were given importance to academic skills such as reading, writing and arithmetic. when the students show improvement in the following skills they will be send to normal schools. We will give remedial teaching for school going students. In this fiscal year 516 sessions were handled.

Main Activities

- LD training
- Parental Awareness
- Scribe Service

Clinical services

- Academic remediation program for children with learning disability
- Parental awareness classes
- Functional academic skills for children with special needs
- Activities to improve fine and gross motor activities in children
- Set the goal for each and every student
- Activities to develop ADL skills
- Activities to develop Reading, Writing & Arithmetic skills
- ADL training
- To develop time and money concept
- To develop language skills
- To develop pre-vocational skills



Non-academic Staffs



Sri. Tomy Dennis
Administrative Officer
(incharge)/PRO



Sri. Gopikrishnan G R
Accounts Officer



Smt. Beeja A R
Computer
Programmer



Sri. Arunkumar A
Clerk



Sri. Sujith T S
Clerk



Smt. Renjini I R
Receptionist



Sri. Rahul R
Site Engineer



Sri. Sajan Kuraiakose
Attender, Reception



Sri. Abilash S S
Driver



Sri. Kumar B
Attender, Reception



Smt. Anitha S
Cleaner



Smt. Sheeja S
Cleaner



Sri. Madhusoodanan G
Security



Sri. Sreekantan
Security



Sri. Sureshkumar C
Security



ICCONS Shoranur



Inpatient Services

ICCONS-Shoranur has a full-fledged hospital with outpatient and inpatient services, and advanced clinical investigation facilities. Since 2016, ICCONS-Shoranur is recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Govt of India.

40-bed neurology wards for movement disorders, stroke, neuromuscular disorders, paediatric neurology, epilepsy. A stroke ward of 5 beds and Operative Ward with 10 beds are provided for IP. Two high end invasive mechanical ventilators with advanced features at Intensive care Unit with 5 beds.

Admission is provided on appointment against existing vacancies. In addition to clinical services, the inpatients are given speech therapy, behaviour therapy, and physiotherapy as per their needs.

Details of inpatient strength during 2021-22 and 2022-23 are given below:

	2021-22	2022-23
New Admission	60	43
Average number of patients in each month	12	16

Hospital Staffs



Dr. Murugan C Nair
Consultant Neurologist



Dr. P T Alexander
Consultant Neurologist



Dr. Hamsa M
Asst. Professor & Medical Superintendent



Dr. Jasmine Salim
Resident Medical Officer



Dr. Mohammed Dilshad
Resident Medical Officer



Dr. Nandu Jayan
Resident Medical Officer



Dr. Deekshid Suresh
Resident Medical Officer



Dr. Premjith P R
Research Officer,
Ayurveda



Other Hospital Staffs



Smt. Lekha K.K.
Nursing Superintendent



Smt. Sreeja K
Staff Nurse



Smt. Ashamol S
Staff Nurse



Smt. Smithamol G
Staff Nurse



Smt. Binitha Antony
Staff Nurse



Sri. Shijo Baby
Staff Nurse



Sri. Sebin V J
Staff Nurse



Smt. Bindu K S
Staff Nurse



Smt. Chinchu A R
Staff Nurse



Smt. Sheeja K.
Nursing Assistant



Smt. Sindhu C
Nursing Assistant



Smt. Rugmini P
Nursing Assistant



Smt. Indu J
Dietitian



Smt. Anitha V.A
Medical Record
Assistant



Smt. Priya K.S.
EEG Technician



Sri. Rajesh U.K.
Neuro-
electrophysiologist



Smt. Simi Xavier
Radiographer



Smt. Reshmi V B
Radiographer



Smt. Athira A B
Pharmacist



Smt. Smitha K K
Pharmacy Asst.



Ward Assistants



Smt. Ambika
Aravindakshan



Sri. Suresh M.C



Smt. Jaya K.T



Sri. Jayarajan P.M.



Sri. Madhavan T.



Sri. Gokulavasan K.



Sri. Shahid Koya
Thangal V.P



Smt. Nisha T.K.



Smt. Jayasree V.



Sri. Manikantan P.K.



Sri. Ajithkumar A



Smt. Thilakam
Vasudevan



Smt. Jyothi K



Smt. Deepika
Chandran



Smt. Rajee P.



Sri. Gopalakrishnan



Sri. Unnikrishnan N.P.



Sri. Santhosh Kumar
V.V.



Smt. Sumithra M.



Sri. Sabareesh O.



Mr. Venugopalan C.K.



Smt. Bindu T.M



Sri. Udayasankar M.



Sri. Shibu M.P.

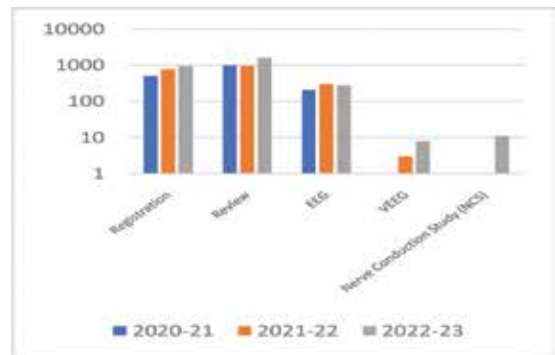


Outpatient Services

Patient Care Statistics

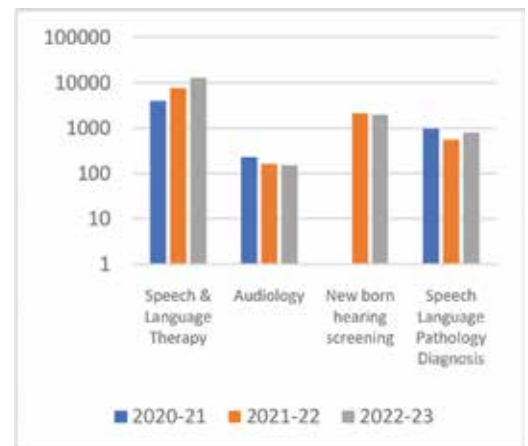
Department of Neurology

Services	2020-21	2021-22	2022-23
Registration	519	774	954
Review	991	955	1596
EEG	207	297	276
VEEG		3	8
Nerve Conduction Study (NCS)			11



Department of ASLP

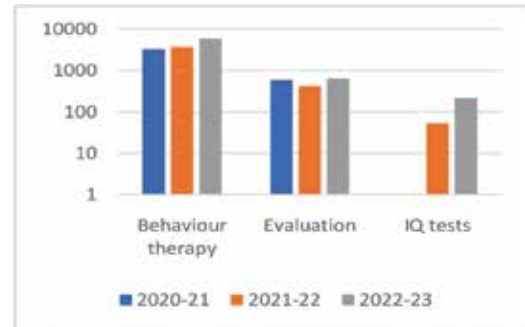
Services	2020-21	2021-22	2022-23
Speech & Language Therapy	3932	7621	12851
Audiology	226	162	152
New born hearing screening		2093	1960
Speech Language Pathology Diagnosis	973	558	786





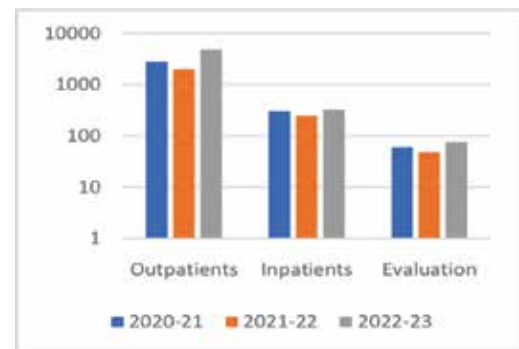
Department of Clinical Psychology

Services	2020-21	2021-22	2022-23
Behaviour therapy	3313	3696	5889
Evaluation	585	424	636
IQ tests		53	212



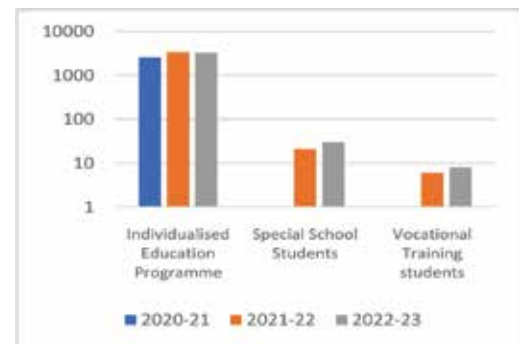
Department of Physiotherapy

Services	2020-21	2021-22	2022-23
Outpatients	2757	1991	4787
Inpatients	301	244	324
Evaluation	60	48	76



Special School

Services	2020-21	2021-22	2022-23
Individualised Education Programme	2528	3372	3278
Special School Students		21	30
Vocational Training students		6	8





DEPARTMENTS

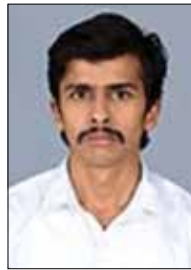
Department of ASLP



Dr. Nisha M L
Asst Professor



Sri. Anoop P
Lecturer



Sri. Rahul K M
Lecturer



Sri. Sreejith T
Clinical Supervisor
Gr. II



Smt. Keerthi Maria Jose
Audiologist & Speech
Language Pathologist



Smt. Anooja A
Audiologist & Speech
Language Pathologist



Smt. Anuradha S
Lecturer Gr. II



Sri. Joe Mathew
Clinical Supervisor
Gr. II



Smt. Presty Rose
Clinical Supervisor
Gr. II



Smt. Aswathy P S
Lecturer in ASLP Gr. II

The department of Audiology & Speech Language Pathology was established in 2000 with an aim to provide incomparable services in early identification/assessment, diagnosis and early intervention to individuals with speech, language, swallowing, hearing, vestibular and cognitive problems. As part of manpower development, ICCONS is conducting Bachelor in Audiology & Speech Language Pathology (BASLP) course since 2001. Audiologists provide services to patients of all ages who may experience hearing impairment or unusual auditory processing. The audiological services provided at ICCONS include Pure Tone Audiometry, Immittance audiometry, BERA, OAE, ASSR, VEMP, Hearing aid trial and fitting and auditory training. A speech language pathologist is responsible

for identifying individuals (both adults and children) with disorders of communication and for designing and implementing appropriate therapeutic programmes.

Clinical services:

A speech language pathologist is responsible for identifying individuals (both adults and children) with disorders of communication and for designing and implementing appropriate therapeutic programmes. Audiologists provide services to patients of all ages who may experience hearing impairment or unusual auditory processing. The department is also involved in the new born hearing screening programmes at two hospitals in Ottappalam Municipality.



Major Equipment:

Speech Language Pathology:

- Computerized Speech Science Lab [CSL]
- Spirometer
- Electro GlottoGraph(EGG)
- PRAAT
- Speech Trainer

Audiology:

- Clinical Diagnostic Audiometer
- Middle Ear Analyser
- Portable Audiometer
- BERA+OAE+ASSR+VEMP
- Hearing Aid Analyser
- Hearing Aid Programmer
- OAE Screener

Paper Presentations in Seminars/Conferences:

1. Challenges in Swallowing Therapy for Progressive Supranuclear Palsy - A Case Observation-International Dysphagia Conclave held in Panjim, Goa from 9-11 March 2023
2. Phonological awareness in children with learning disability- FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
3. Word fluency in children with learning disability- FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
4. Comparison of Communication Impairments of MoyoMoyo disease with childhood onset and adolescent onset- FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
5. Influence of education level in aphasia severity- FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
6. Comparison of prognosis in speech and language skills among open head injury, closed head injury and ischemic stroke- FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
7. Working memory in children with stuttering- 14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
8. Working memory in children with learning disability- 14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
9. Communication impairment in progressive supranuclear palsy- single case study-14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
10. Speech, language and communication issues in sturge weber syndrome with the aid of a single case-14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
11. Importance of Early Intervention and Efficacy of Treatment in A Child With Prader Willi Syndrome- 14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022

Participation in Seminars/Conferences:

1. International Dysphagia Conclave held in Panjim, Goa from 9-11 March 2023
2. FOCUS 2 Mullers SHCONS 2022 held at Father Muller College on 11.11.2022 & 12.11.2022
3. Auditory Evoked Potentials; A systematic exposition with recent advances held by AWH special college Kallai on 17.12.2022 & 18.12.2022
4. International conference on Communication Disorders and Audiological Practices- ICCAP 2022 held by NISH Trivandrum from 15.9.2022-17.9.2022



Department of Clinical Psychology



Smt. Ambily P V
Registrar in Clinical
Psychology



Sri. Santhosh M E
Registrar in Clinical
Psychology

The Department of Clinical Psychology is one of the major Department in ICCONS, Shoranur. Our department take part in the diagnosis and treatment of disabled persons after comprehensive assessment.

We provide behaviour therapy for different conditions like intellectual disability, Autism spectrum Disorder, Cerebral palsy, Learning disability, conduct disorders, Attention deficit hyperactivity disorder, Epilepsy and different Psychiatric illness like Mood disorder, Psychotic disorder, Anxiety disorder and Personality disorders. We provide counseling for family and marital issues, emotional issues and provide parental counseling to the parents of differently abled children.

We make assessments by taking case history, administer different tests to identify IQ level, social maturity level and take tests to determine if a person has autism or not and the level of severity if a person has autistic features.

Main Activities

- Psychological assessment
- Psychological intervention

- Provision of guided exposure to clinical case management and clinical case discussion for the internship students posted in ICCONS Shoranur.

Clinical Services

- Assessment of patients. Assessment includes taking case history, IQ assessment (MISIC, WAPIS, BKT, CPM etc), Vineland Social Maturity Scale (VSMS) and Developmental Screening Test (DST) etc.
- After assessment make diagnosis and create treatment plans
- Provide behaviour therapy to the patients
- Timely assessment of patients who undergoes behaviour therapy
- Also provide services like parental counseling, individual counseling, family counseling and group therapy.

Teaching activities

- Internship training programme to the students who completed PG or UG in regular mode.
- Clinical postings for BASLP students



Department of Physical Medicine & Rehabilitation



Smt. Aswathy C
Physiotherapist



Smt. Anisha Thambi K
Physiotherapist



Sri. Alan Oliver
Physiotherapist



Smt. Fathimath Shakira
Physiotherapist

The Physiotherapy Department at ICCONS, a specialized rehabilitation unit, stands at the forefront of transformative care for patients with complex neurological disorders. Our focus extends to a spectrum of neurological conditions, from cerebral palsy to multiple sclerosis, addressing diverse needs such as motor skills enhancement, cognitive and sensory integration, and strength building. The Physiotherapy Department at ICCONS is not merely a service provider but a beacon of holistic, patient-centred excellence in neurological rehabilitation.

Main activities

- Treating inpatients, outpatients and ICU cases in an earnest manner that ensures the wellbeing of the patient and at the same time, is in line with the processes and standards of the hospital.
- Undertake comprehensive timely assessment of patients, formulate effective clinical reason treatment plan, treatment of a mixed case load of inpatients and to facilitate safe discharge from the hospital.
- Maintain an accurate and comprehensive problem-oriented medical record that is in line with legal and departmental standards for record keeping.
- Handle the responsibilities of monitoring and evaluating treatments to measure the progress and ensure effectiveness of the intervention.
- Perform the tasks of going for rounds with concerned consultant and gaining referrals.

Clinical services

- Perform advanced physiotherapeutic assessments on patients with a range of presentations and complex physical and psychological conditions in order to make a diagnosis, create a personalized treatment plan, and administer it.
- Helping to detect neurological, orthopaedic, and cardiovascular issues by assessing a patient's physical state while considering their age, degree of fitness, and any additional medical conditions.
- Regular formal training, clinical reasoning sessions, peer reviews, and case conferences serve as forms of supervision.
- To deliver highly specialized physiotherapy assessments for a variety of ailments and complexity levels, utilizing sophisticated clinical reasoning to evaluate both clinical and non-clinical findings and develop precise physiotherapy diagnoses and prognoses.
- To evaluate patient comprehension of evaluation and treatment in accordance with the consent policy and to adhere to the legal requirements for patients who are unable to give their consent for treatment
- Using evidence-based practice and a variety of treatment modalities to implement physiotherapy strategies and treatment plans to achieve the aims.
- Evaluate patient progress, re-assess and alter treatment programs if required.
- Maintenance of accurate, comprehensive and timely patient records, which includes writing patient reports and discharge summaries.



Department of Genetics



Dr. Anitha Ayyappan Pillai
Asso. Professor

The Genetics department offers molecular genetics diagnostics and genetic counseling services. We conduct short-term and long-term skill development programs, funded by Kerala Knowledge Economy Mission (KKEM) and Science and Engineering Research Board (SERB), for M.Sc. (Biotechnology/Biochemistry/Lifesciences) students. We also undertake projects for M.Sc. students. The department carries out several extramural research projects funded by the KSCSTE, ICMR, SERB and DST-CSRI, and intramural research projects. The primary objective of our research is to unravel the genetic and neurobiological mechanisms involved in basic cognitive functions by integrating current cutting-edge research across multiple disciplines. This is expected to reveal the pathophysiological mechanisms underlying complex cognitive disorders.

Main activities

- Genetic diagnostics
- Genetic counseling
- Research
- Skill development programs
- Short-term projects for M.Sc. students

Teaching activities

- Teaching Genetics in 2nd semester BASLP

Lab facilities

- 3500 Dx Genetic Analyzer

- Ion Torrent Personal Genome Machine
- RT-PCR
- PCR
- Gel documentation system

Other activities

- Invited talks in scientific meetings: 3
Resource person in the National Conference on “Data Engineering in Informatics”, organized by MES College, Marampally (October 18-19, 2022)
Topic: Bioinformatics in Omics era
Resource person in the National Seminar on “Advances in Biosciences for a Sustainable Future: Nanosciences (SOSTEC 2022)”, organized by Sir Syed Institute for Technical Studies, Taliparamba (August 17-18, 2022)
Topic: microRNAs as therapeutic targets for autism spectrum disorders
Resource person in the National Seminar on “Molecular Biology”, organized by Markaz Arts and Science College, Malappuram (April 02, 2022)
Topic: Strategies for the identification of disease genes
- Conference presentations: 3
Poster presentation at the 9th Annual Conference of Cognitive Science held at Delhi (December 08-10, 2022)
Impaired WNT signalling in developmental language disorder
Poster presentation at the Board of Genetic Counseling India 7th Annual Conference 2022 held at Mysore (July 01-03, 2022)
Whole exome sequencing of polymicrogyria reveals novel candidate genes
E-poster presentation at the 33rd conference on Clinical Neuroscience and Neurogenetics held as webinar (April 25-26, 2022)
The DNA methylation landscape of developmental language disorder



Department of Biochemistry



Sri. Nasar C P
Biochemist



Smt. Soumya A
Lab Technician



Smt. Nimmy K M
Lab Assistant

The laboratory offers Biochemistry, Hematology and Clinical Pathology services. The main activities of the lab include, collection of biological samples (blood, urine, body fluids), and analysis of samples for complete blood count, renal function test, liver function test, thyroid function test, lipid profile, hormones, vitamins, urine routine examination, and cancer markers. We provide quality services by implementing external and internal quality control programs.

Diagnostic Services

The diagnostic services provided by the department in 2022-23 are shown below:

Services	2020-21	2021-22	2022-23
Blood Test	685	1554	1932
Urine Test		113	580
Hormone Test		281	126

We provide following services

1. Biochemistry
2. Haematology
3. Clinical Pathology

Activities

1. Registration of outpatients and collection of blood, urine and body fluids
2. Analysis of samples for complete blood count, renal function test, liver function test, thyroid function test, lipid profile, hormones, vitamins, urine routine examination, cancer markers
3. Result distribution to outpatients and inpatients
4. Demonstration of equipment and lab protocol to internship students

Equipment

1. Semi Auto Analyser
2. Mini-Vidas immune analyser
3. Sodium Potassium Analyser
4. Immulite analyser



Special School



Smt. Aleyamma Jacob
Special Educator



Smt. Usha P
Special School Teacher



Smt. Dhanya V
Special School Asst.



Smt. Jayanthi P
Special School Asst.



Smt. Sandhya P
Special School Asst.



Sri. Premraj N
Special School
Attender



Sri. Raman P S
Special School
Attender

Under the guidelines of respected Director, Dr. Sanjeev Thomas, we started a new academic year on 16th March 2022.

We always look forward to the integral development of those children who find it difficult to compete with their peers in mental, intellectual, and communicative challenges. By arranging a classroom atmosphere for their study, we assess their difficulties to sit in a class room to concentrate and study. To improve their attention and concentration, we have study instruments, methods, and therapies. This has helped them to improve their studies considerably.

Seventeen children have joined this year for their regular school studies. They perform well in their curricular and extra-curricular activities. This

shows that they have developed adequate mental and intellectual capacity to compete their peers in social and educational levels.

Services Offered

- Assessment / Evaluation
- Individualized Education Programme (IEP)
- Group-wise Education Programme (GEP)
- Open house for parents
- Training for self-help skills
- Internship training
- Extra-curricular activities
- Vocational training for the children (> 18 years)
- Awareness programme for festivals



Non Academic Staffs



Sri. Sasidharan P
Public Relations Officer



Smt. Geetha S Nair
Data Entry Operator



Smt. Sreedevi V
Clerk



Smt. Sosamma Soman
Hostel Warden



Sri. Lajeesh M
Accounts Asst.



Smt. Sudha R
Computer Programmer
(Trainee)



Smt. Ambikadevi K P.
Library Asst.



Smt. Deepa M
Receptionist



Smt. Asha V M
Reception Trainee



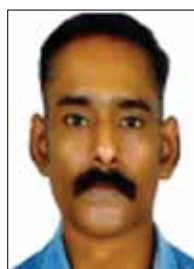
Smt. Kavitha K
Attender, Reception



Sri. Kiran K C
Site Engineer



Sri. Sajeev P
Electrical Supervisor



Sri. Karun Kumar B
Plumber cum
Electrician



Sri. Jagadheesan M
Electrician



Sri. Radhakrishnan K N
General Worker



Sri. K Jayan
Driver



Sri. Krishnaprakash C
Driver



Sri. Ajithkumar C
Electrician Trainee



Smt. Vasanthi P
Mess Staff



Smt. Rajitha N P
Mess Staff



Smt. Vijayalakshmi P
Mess Staff



Smt. Shaji K
Mess Staff



Smt. Sheeja P
Mess Staff



Smt. Ramla T M
Cleaner



Smt. Nirmala P
Cleaner



Smt. Sheela K
Cleaner



Smt. Usha Kumari K
Cleaner



Smt. Sindhu P
Cleaner



Smt. Prajitha A
Cleaner



Smt. Prameela V
Cleaner



Smt. Vasantha K
Cleaner



Smt. Suma O
Cleaner



Smt. Valsala N P
Cleaner



Smt. Suseela M
Cleaner



Smt. Sheeja U C
Cleaner



Smt. Raji K M
Cleaner



Sri. Narayanadas
Security



Sri. Raman A P
Security



Sri. Sankunni
Security



Sri. Muraleedharan C V
Security



Sri. Sankara Narayanan P
Security



Sri. Dennis C Gardner



Sri. Unnikrishnan V P
Labourer



ACADEMIC PROGRAMMES

Bachelor of Audiology and Speech Language Pathology (BASLP)

ICCONS, Shoranur runs RCI-recognized, graduate level programs for manpower development in the field of speech and audiology. The programs have been affiliated to the Kerala University of Health Sciences (KUHS). The BASLP degree program prepares professionals in audiology and speech pathology and has been continued in ICCONS since 2001. The students attend 3 years of classroom instruction with equal importance on theory and clinical practicum. The final year is an internship at various institutions in the country. The degree is awarded after completion of coursework and internship. The program has an intake of 20 students. The admissions to these programs are conducted by the LBS Centre for Science and Technology. This course is self-financed courses which have 50% seats allotted for merit seats with lower fees and 50% are payment seats with higher fees. Semester scheme is followed in this course.

RCI Inspection and Recognition: The Institute obtained the renewal of affiliation for conducting BASLP from the Rehabilitation Council of India (RCI), Govt. of India, New Delhi. A team of RCI experts carried out a physical inspection of the Institute facilities and services in this regard on the 17 September 2021.

Rank Declared by KUHS during 2022-2023:

• First rank (Jahana Sherin T P. Reg No: 180140058) and Second Rank (Nidha Nazar N, Reg No: 1801400620) from the Kerala University of Health Sciences.



Affiliation/ Credentials:

Rehabilitation Council of India (RCI) :

The Institute obtained the renewal of affiliation for conducting BASLP from the Rehabilitation Council

of India (RCI), Govt. of India, New Delhi. ICCONS Obtained continuation of affiliation for 5 academic years (2021-22 to 2025-26)

Kerala University of Health Sciences (KUHS) :

Obtained continuation of affiliation for the academic year 2022-23 from KUHS

Premises in the Academic Block: The academic activities are carried out in the academic block with an area of 9,678.64 m². Facilities available in the academic block are

- Class rooms
- Audiology lab
- Speech Science Lab
- Recording room
- Electrophysiology lab
- Hearing aid repair lab
- Practical lab
- Speech Therapy rooms

Hostel: Fully furnished and well-Maintained hostel facilities are available for female students. The current inmate strength is 45

Committees: The smooth functioning of the activities are ensured and monitored through various committees under the chairmanship of the Director of ICCONS. The various committees are

- College Council
- Academic Monitoring cell
- Institutional Innovation Cell
- Student's union
- Students support and guidance cell
- Grievance redressal committee for students
- Anti-ragging committee
- Anti Ragging club
- PTA executive committee.
- "Sradha and Nerkkootam" against drug abuse



INTERNSHIP/OBSERVERSHIP/ SKILL DEVELOPMENT PROGRAMS

- VRITIKA Training and Skill Internship Program on *Cognitive Neuroepigenetics* funded by Science and Engineering Research Board (SERB): 5 students
- Short-term (20-30 days) skill development program on *Molecular Genetics Techniques and Bioinformatics* in collaboration with Kerala Knowledge Economy Mission (KKEM): 17 students
- Long-term (2-6 months) skill development program on *Molecular Genetics Techniques and Bioinformatics* in collaboration with KKEM: 3 students
- ICCONS Internship Training given to students from University College Thiruvananthapuram, IGNOU, SDM College, Ujre, Pondichery University, CH Mohammed Koya College, Mar Baselious College, Azeezia College-Thiruvananthapuram, Loyola College-Thiruvananthapuram, Christ College Delhi, Christ College Bangalore, Chinmaya Vidyalaya, Amity University, Christ Nagar College Thiruvananthapuram, Jindal Global University – 63 Students
- ICCONS Observership Program - Observers from IUCDS Kottayam, Rajagiri College of Social Sciences and CDC Trivandrum – 7 Observers

Vimala College, Thrissur	MSc project	1
St. Mary's College, Thrissur	MSc Internship	4
Kannur University	MSc Internship	3
Vellore Institute of Technology, Vellore	MSc project	1
Aquinas College, Edakochi	MSc project	5
Sir Syed Institute for Technical Studies, Kannur	MSc project	3
Kannur University, Kannur	MSc project	3
Kannur University, Kannur	MSc Internship	2

Observership

Institute	Course	Department	Number
Doctor	MBBS	Neurology	3
CH Mohammed Koya CLGE	MBA	All Departments	1
IUCDS		All Departments	2
Observer	Learning techniques	Genetics	2

Internship

Institute	Type of Course	No. of Students
University College, Tvm	MSc Psychology	8
IGNOU	MSW Counselling Psychology	2
SDM College, Ujre	MSc Psychology	1
Central University Pondicherry	MSc Applied Psychology	5
IGNOU	BSc(H) in Applied Psychology	2
IGNOU		1
Yeldo Mar Baselious	MSW	3
Azeezia College	MDS Pediatric Dentistry	4
St. Peter's College, Kolenchery	MSc project	3

LIBRARY

The purpose of the library is to support the curriculum and research of faculty and students. It provides a safe and calm environment for students to study and to interact with each other by providing access to information, promoting learning, and preserving knowledge.

The library has a collection of *about 600 books* at ICCONS, Thiruvananthapuram and *>1,100 books* at ICCONS, Shoranur in diverse subjects such as Anatomy, Audiology, Biochemistry, ENT, Genetics, General medicine, Linguistics, Neurology, Pathology, Pediatrics, Physiology, Psychiatry, Psychology, Speech Language Pathology, Statistics and Research Methodology.

Several journals, magazines, periodicals, manuals and dissertations are also available in the library. There is also a computer lab with high-speed internet.



CONFERENCES/SEMINARS/WORKSHOPS/CRES

Free Hearing Screening Camp | 08.10.2022, ICCONS, Trivandrum.

Background

Nowadays hearing loss is very common in children and adults as a result of exposure to loud noise and listening to loud music for a long period of time. Hearing loss is a major problem in the elderly. Studies shows that hearing loss is more common in people with dementia, hypertension and diabetes. Statistics illustrates that about one in three people between the ages of 55 and 74-years are known to have hearing loss.

Camps are indispensable in the field of health services. Communication remains a major problem for those with hearing problems. Free hearing screening camps are very beneficial for people who are struggling financially and have hearing problem. It can also help raise awareness about hearing loss among a group of people and rehabilitate them by prescribing medications and/or hearing aids.

As part of Silver Jubilee celebration, Department of Audiology, ICCONS, Thiruvananthapuram organised a Free Hearing Screening Camp on 8th October 2022.

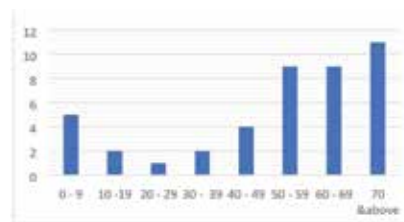
GSI 61 Diagnostic Audiometer and Nautilus portable Audiometer are arranged for Hearing Screening Test.

Camp Activities

The Screening Camp started at 8:00 am. Marketing Executive from Keltron has done introduction on the use of hearing aids to the cases who had attended the hearing screening camp. Medical assessment was conducted by Smt.Anupa, Staff Nurse and those who requires neurological evaluations where informed that they will be contacted for the same. History of the cases and detailed evaluations are done before the screening test.

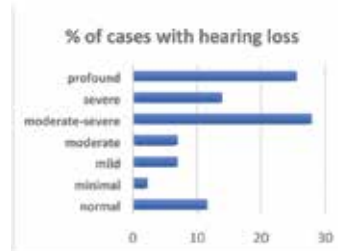


Results



A total of 43 cases have reported in the hearing screening camp. There were 12 female cases and 31 male cases. Pediatric cases are less in number than expected.

Distribution of cases as per age group



There were only 5 cases, who are between the ages of 3 and 8 years. All these pediatric cases are coming under the medical diagnosis Autism Spectrum Disorder (ASD).

29 cases were aged over 50 years.

Out of 43 cases, 26% of cases has profound hearing loss. 28% has moderate to severe hearing loss. 12% of cases fall in severe hearing loss. 14% of cases are normal, but they are paediatric cases with ASD.

Conclusion

In the detailed evaluation 90% of the cases requires audiological rehabilitation (hearing aids). Economically backward senior citizens were recommended to avail free hearing aids by the scheme Rashtriya Vayoshri Yojana – a scheme for providing physical aids and assisted living devices to senior citizens through Panchayats.



ICCONS NEURO UPDATE 2022

16.10.2022, ICCONS, Shoranur

The Neuro update was held on 16th October 2022 at the auditorium in ICCONS-Campus Shoranur. Honorable Vice Chancellor KUHS - Prof. Dr. Mohanan Kunnummel inaugurated online the Neuro update 2022. The academic programme consisted of lecturers as detailed below.

Sl. No.	Name of Faculty	Topic Presented
1.	Dr. Davis Manuel Consultant Neurologist P K Das Institute of Medical Sciences,	Epilepsy – Mimics and Chameleons.
2.	Dr. V. AbdulGafoor Associate Professor, Dept. of Neurology, Govt. Medical College, Kozhikode	Work up of Epilepsy
3.	Prof. Dr. James Jose Head of the Dept. of Neurology, Govt. Medical College, Kozhikode	Medical Management of Epilepsy
4.	Dr. Byju N Associate Professor, Dept. of Neurology Govt. Medical College, Trichur.	Status Epilepticus
5.	Prof. Dr. Jacob P Alapatt Former Head, Dept. of Neurosurgery Govt. Medical College Kozhikode	Post Traumatic Cognitive Dysfunction
6.	Dr. MoyinulHaq T.P Consultant Interventional Neurologist EMS Hospital Perinthalmanna & Co-Director, SNIF Network Hospitals	An Interactive Session on the Diagnosis and Management of Acute Stroke
7.	Dr. Babeesh Chacko Consultant Physiatrist Aster, Wayanad	Stroke Rehabilitation – Challenges and Opportunities

Each presentation was followed by active discussion, clarification of points and sharing of experience.

There was a Special Post Graduate session in which 3 presentations were made for the **Best Paper Competition**

Sl No.	Name	Topic	Prize
1.	Dr. Anand T R	An interesting case of a Brain eater	1 st
2.	Dr. Shefin	15q11 Microdeletion presenting as neonatal encephalopathy- A case Report	2 nd
3.	Dr. Sreelakshmi S Kumar	A case of Chorea in a 3 year old boy	2 nd

The best paper awards were given as listed above. The faculty and the delegates appreciated the standard of the programme and gave a very positive feedback regarding the benefits. This CME programme was accredited by the Kerala State Medical Council and granted two credit awards for this programme.





ONE DAY WORKSHOP for Special Educators, SSK, Thiruvananthapuram

12.11.2022, ICCONS, Thiruvananthapuram

On 12.11.2022, a one-day workshop for Special Educators from the Autism Centres (Thiruvananthapuram) was conducted at ICCONS, Thiruvananthapuram. This workshop is the part of a project by SarvaSiksha Kerala (SSK). There are 12



autism centres in Thiruvananthapuram, each belongs to a BRC. From each BRC, three special educators (36 participants) attend the Workshop. The workshop begins at 10.00 am and an inaugural and welcome session is also conducted.

The academic programme consisted of lecturers as detailed:

Sl. No.	Name of Faculty	Topic Presented
1.	Sri. Sreekumar S Lecturer Dept. of Clinical Psychology ICCONS, Thiruvananthapuram	The behavior issues and its management
2.	Smt. Sheeba V Teacher, Special School ICCONS, Thiruvananthapuram	Academic skill training for children with ASD in classroom situation
3.	Dr. Mary Iype Professor & HOD Dept. of Pediatric Neurology Govt. Medical College, Thiruvananthapuram	Medical Management of Epilepsy
4	Smt. Bindukala S Lecturer Dept. of Clinical Linguistics ICCONS, Thiruvananthapuram	Linguistic Training for children with ASD (Writing)
5	Smt. Sonia Christy Lecturer Dept. of Clinical Linguistics ICCONS, Thiruvananthapuram	Linguistic Training for children with ASD (Reading)

Feedback is collected from participants. Reviews from the special educators regarding the class was satisfactory. The classes wind up at 4.30 pm.



Awareness Class for Parents

Topic : Dental Care in differently abled children

Date : 18.11.2022

An awareness class on "Dental Care in differently abled children" was conducted for parents at ICCONSShoranur Centre. The said class was jointly organized by ICCONS and Royal Dental College. PG students of Dental College led the class. Around 100 people along with parents and students participated in the camp. Dental problems, diseases, causes, solutions and remedies for differently abled children are discussed in great detail.

The class started at 11 am and ended at 1 pm



SPARSAM

3rd January 2023

Physiotherapy camp conducted for public on World Physiotherapy Day.

Movement therapy was organized on 3rd January 2023 under the leadership of Carolina, a foreigner, for the patients at Icons.



VRITIKA - Research Internship 01.11.2022 to 15.12.2022

VRITIKA training and skill internship program was organized by Department of Neurogenetics, ICCONS, Shoranur from 01.11.2022 to 15.12.2022. The program was held physically at ICCONS, Shoranur. A total of 18 students, pursuing their M.Sc. degrees, applied for the program. Five students were selected from them based on an interview. The selected students were provided food and accommodation in our students' hostel. The program was inaugurated by Dr. Sanjeev V. Thomas, Director, ICCONS on 01.11.2022. The classes and practical sessions were handled by Dr. Anitha Ayyappan Pillai, Associate Professor, Department of Neurogenetics.

The program was aimed at providing an exposure to the advanced molecular and bioinformatics techniques in the field of Neuroepigenetics. The students were trained in the following techniques,

- Genomic DNA extraction from whole blood
- miRNA extraction from serum
- Quantification of DNA and RNA
- PCR amplification of selected genes
- Agarose gel electrophoresis
- Use of gel documentation system for visualizing and quantifying electrophoretic bands
- Direct DNA sequencing (Sanger Sequencing)
- cDNA synthesis
- Real-time PCR
- DNA methylation analysis (Bisulfite conversion, methylation-specific qPCR)
- microRNA analysis
- Bioinformatics oPrimer design for PCR
 - Primer design for methylation mapping (e.g., methylation-specific PCR) oIn silico PCR



- Identification of CpG islands in genes
- Data analysis (statistics)

The students were given hands-on training in all the wet lab experiments and bioinformatics analysis.

The students worked in the following short-term projects,

- Methyloome data mining

Our lab has a vast amount of methylome data. The students were taught data handling, data mining, identification of differentially methylated loci, identification of genes located near the differentially methylated loci, classification of loci according to their distance from the nearest gene into either belonging to CpG islands, shelves or shores, and functional term enrichment (gene ontology analysis) to identify the functions that are significantly affected.

- Differential DNA methylation analysis by quantitative PCR (qPCR)

Epigenetic factors such as DNA methylation have been found to modulate gene expression during

early development. The students were trained to analyze differential DNA methylation of genes (casecontrol comparison) by qPCR.

- Differential expression of circulating microRNAs (miRNAs) miRNAs are epigenetic modulators that influence the protein levels of target messenger RNAs without modifying the gene sequences. They serve as crucial regulators of gene expression. The students were taught to identify



the differential expression of circulating serum miRNAs (case-control comparison) by qPCR.

All students attended about 99% of the training sessions. At the end of the internship, all of them prepared and submitted a report of the work done in our lab. They were given participation certificates in the format specified by the SERB. We got good feedback from the students about the program.



CRE Programme

Date :16th to 17th December 2022

Topic : Development of Play and Social Skills in Children with ASD

Based on approval from RCI via letter F. No.7-16 (262)/2022-RCI dated 7th October 2022 for the offline CRE Programme without financial assistance, Institute for Communicative and Cognitive Neurosciences had organized a two-day RCI accredited CRE Programme on “Development of Play and Social Skills in Children with ASD” held successfully on 16th and 17th December 2022. There were 30 Participants. There is no formal inaugural session.



The session was started by the Resource Persons on their individual sub-topics which were based on the CRE main topic. Followed by each session, there was discussion and question-answer session.

Day 1 (16 th December 2022)	
Introduction to Play Therapy	Sreekumar S Lecturer Gr.II, Dept. of Clinical Psychology, ICCONS, Thiruvananthapuram
Nature and needs of ASD	Priyanka Panchapakesan Lecturer Gr.I, Dept. of Audiology & Speech Language Pathology, ICCONS, Thiruvananthapuram
Types of play in children with ASD	Sheeba V Teacher, Special School, ICCONS, Thiruvananthapuram
Play and Social behaviour in ASD	Dr. Nandini Jayachandran Lecturer Gr.I, & HOD, Dept. of Clinical Psychology, ICCONS, Thiruvananthapuram
Day 2 (17 th December 2022)	
Social skill development in children	Dhanalekshmi G S Registrar in Clinical Psychology, Dept. of Clinical Psychology, ICCONS, Thiruvananthapuram

Play and Social skills in ASD, a neurological perspective	Dr. Mary Iype Professor & HOD, Dept. of Paediatric Neurology, Govt. Medical College, Thiruvananthapuram
Play development and stages of play	Annie Charles Occupational Therapist
Strategies of development of play skills	Sreekumar S Lecturer Gr.II, Dept. of Clinical Psychology, ICCONS, Thiruvananthapuram

The valedictory function was done by Dr. Sanjeev V Thomas, Director, ICCONS. Some of the representatives from the participants share their experience about



this programme followed by Vote of thanks by Sri. Sreekumar S, CRE Coordinator, ICCONS. At the end of which the feedback forms

were collected. Overall performance of this CRE programme rated by the participants are in above average level.



On the basis of participants presence, the certificate of participation was issued with individual unique RCI-CRR. The Resource Person were also provided with certificate of appreciation with their unique RCI-CRR together with the remuneration as per RCI norms. Overall, CRE programme was concluded successfully and the future CRE Programme could also be planned on this basis.



BLS Programme

On 31st December 2022 Indian Resuscitation Council Federation, IMA Perinthalmanna and Moulana hospital Perinthalmanna cordially organised a BLS programme in ICCONS, Shoranur. It's part of statewide IMA programme to initiate the awareness among people regarding the



importance of basic cardiac life support. Both theory and practical sessions included in this session. Mrs Sreya lead the session, other 3 faculties were helped to make the session alive. Theory session



includes different scenarios in emergency situation like cardiac arrest following myocardial infarction, drowning and burns etc. Practical live sessions were conducted over manicure like BVM, mouth to mouth breathing, mask to mouth breathing and chest compression etc. more than 100 hospital staffs including doctors, nursing staff, ward attenders, college students, speech therapist, physiotherapist, psychologist, internship students, securities and administrative staff participated in these sessions. Following this sessions a memento handed over to Moulana Hospital by Medical Superintendent behalf of ICCONS for their esteemed cooperation with us.



State Level Seminar

23rd to 25th January 2023

Topic : Nonverbal Learning Disability

Based on approval from RCI via letter F. No.7-16 (262)/2022-RCI dated 5th January 2023 for the offline State Level Seminar without financial assistance, Institute for Communicative and Cognitive Neurosciences had organized a three-day RCI accredited State Level Seminar on “Nonverbal Learning Disability” held successfully on 23rd to 25th January 2023. There were 25 Participants. There is no formal inaugural session.

The session was started by the Resource Persons on their individual sub-topics which were based on the Seminar topic “Nonverbal Learning Disability”. Followed by each session, there was discussion and question-answer sessions.

In the second day, there is one hour panel discussion lead by Dr.Murugan C Nair, Neurologist, General Hospital, Thiruvananthapuram, focused on ‘Diagnosis of Nonverbal learning disability’.

Day 1 (23 rd January 2023)	
What are Nonverbal Learning Disabilities?	Sreekumar S Lecturer Gr.II, Dept. of Clinical Psychology
Characteristics of Nonverbal LD	Mothi Habeeb Special Educator
Reading, Writing and Calculation deficits in Nonverbal LD	Mini P Teacher, Special School,
Early warning signs of Nonverbal LD	Dhanalekshmi G S Registrar in Clinical Psychology, Dept. of Clinical Psychology, ICCONS
Day 2 (24 th January 2023)	
Assessment & Diagnosis of Nonverbal LD	Dr. Nandini Jayachandran Lecturer Gr.I, & HOD, Dept. of Clinical Psychology, ICCONS,
Panel Discussion - Diagnosis of Nonverbal LD	Dr.Murugan C Nair Consultant Neurologist, ICCONS

LD vs Nonverbal LD	Smt.Santhi V S Lecturer Gr.II, Dept. of Clinical Psychology, ICCONS
Behavioural/ Psychological Management (Nonverbal LD)	Varghese Mathew Lecturer Gr.II, Dept. of Clinical Psychology, ICCONS
Linguistic Issues in children with Nonverbal LD	Bindukala S Lecturer Gr II Dept. of Clinical Linguistics ICCONS
Neurological Assessment & Management of Nonverbal LD	Dr. Mary lype Professor & HOD, Dept. of Paediatric Neurology, Govt. Medical College
Day 3 (25 th January 2023)	
Management of Fine Motor Skills & Motor Coordination in children with Nonverbal LD of Nonverbal LD	Smt. Smitha T Physiotherapist Dept. of Physiotherapy, ICCONS,
Classroom Management of Nonverbal LD children	Sheeba V Teacher, Special School, ICCONS,
Linguistic intervention in children with Nonverbal LD	Sonia Christy Lecturer Gr II Dept. of Clinical Linguistics ICCONS
Speech and Language Management	Divya G Lecturer Gr.I, Dept. of Audiology & Speech Language Pathology, ICCONS

On the basis of participants presence, the certificate of participation was issued with individual unique RCI-CRR. The Resource Person were also provided with certificate of appreciation with their unique RCI-CRR together with the remuneration as per RCI norms.



OTHER ACTIVITIES AND EVENTS

Inauguration of Complete Solar Power Plant and Silver Jubilee Gate



Hon'ble Minister for Health and Woman and Child Development Smt. Veena George inaugurated the completed Solar Power Plant and Silver Jubilee Gate on 3rd May 2023 at ICCONS, Thiruvananthapuram. Hon. Kazhakoottam MLA, Sri. Kadakampally Surendran and Sri. Suresh Kumar, Ward Councillor, Akkulam were also present on the occasion.

Inauguration of Free Immunisation Services for



Children

Hon. Shoranur MLA Sri.Mammikutty performed Inauguration of Free Immunization Services for Children on 20th February 2023 at ICCONS, Shoranur

Martyrs' Day (January 30)–Two minutes silence by



employees under the leadership of ICCONS Director on 30.01.2023 in memory of those who sacrificed their lives in India's freedom struggle.



Tree Plantation Drive

The State Bank of India (SBI), Medical College Branch organised a tree plantation drive in ICCONS, Thiruvananthapuram Campus. Bank employees of the branch led by SBI Branch Manager, handover a sapling to ICCONS Director.



Agreement Signed



MoU for research works signed between ICCONS and National Ayurveda Research Institute for Panchakarma, Cheruthuruthi

Signed Agreement with Central Govt to establish Multi-Disciplinary Research Units (MRU)



SOCIAL MEDIA POSTS

1. **World Autism Awareness Day – 2nd April 2022**



Link :<https://fb.watch/nP5N4tbZ7k/>

2. **World Health Day- 7th April 2022**



Link :<https://fb.watch/nP5OmDE4Xo/>

3. **International Nurses Day – 12th May 2022**



Link: <https://fb.watch/nP5PnHJBtt/>

4. **World ORS Awareness Day – 29th July 2022**



Link:<https://fb.watch/nP5QKrdRu5/>

5. **World Physiotherapy Day – 17th September 2022**



Link :<https://fb.watch/nP5TIXOafN/>

6. **World CP Day – 6th October 2022**



Link :<https://fb.watch/nP5UKu3V3-/>



7. International Day of Persons with Disabilities – 3rd December 2022



Link: <https://fb.watch/nP5W7dxikr/>

8. Women’s Healthy Weight Day – 19th January 2023



Link: <https://fb.watch/nP5XOpgA1/>

9. International Epilepsy Day – 13th February 2023



Link: <https://fb.watch/nP5Z2jwx41/>

10. World Hearing Day – 3rd March 2023



Link: https://fb.watch/nP5_2VsHD7/

11. World Down Syndrome Day – 21st March 2023



Link: https://fb.watch/nP5_UyWAhQ/



RESEARCH

Research Collaboration

Institute for Communicative and Cognitive Neurosciences (ICCONS) have signed research collaboration agreement to carry out R&D programme on Assistive and Rehabilitation Technology with these Institutions.

State level

- Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram
- Inter-University Centre for Biomedical Research & Super speciality Hospital (IUCBR), Kottayam
- MES College Marampally, Aluva
- Regional Cancer Centre (RCC), Thiruvananthapuram
- Different Arts Centre (Academy of Magical Sciences), Thiruvananthapuram

National level

- CSIR Institute of Genomics and Integrative Biology (CSIR-IGIB), New Delhi



Research Projects

Extramural Research Projects

1. Project title: "The Spectrum of Impairment and Prediction of Disability in Cognitively Challenged Children in Kerala".
Funding agency: Centre of Excellence for Disability Studies
Amount: Rs. 3,91,400 INR
Duration: 2022-23
2. Project title: "Quantification of cognitive Disability in children with the new Malayalam version of ICF-CY".
Funding agency: Kerala State Commissionerate for Persons with Disabilities.
Amount: Rs. 9,58,000 INR
Duration: 2023-24
3. Project title: "Neurocognitive Impairment in Prostate Cancer Patients on Androgen Deprivation Therapy"
Funding agency: Regional Cancer Centre, Thiruvananthapuram
Amount: Rs. 1,15,200 INR
Duration: 2023-2025
4. Project title: "Comparison of the effect of training in magical sciences and a variety of art forms and training using conventional therapy in addition on behavioural and other outcomes among differently abled children"
Funding agency: Collaborative Project by ICCONS & Different Arts Centre (Academy of Magical Sciences)
Amount: Rs. 84,503 INR
Duration: 2022-2025
5. Project title: "Identification of specific DNA methylation biomarkers in spinal muscular atrophy and its application as a therapeutic target"
Funding agency: Multidisciplinary Research Unit, Govt. Medical College, Thiruvananthapuram
Amount: Rs. 6,77,920 INR
Duration: 2023-2025
6. Project title: "Genetic characterization and clinical correlates of polymicrogyria syndromes"
Funding agency: Indian Council of Medical Research (ICMR), Govt. of India
Amount: 25,00,000 INR
Duration: 2020-2023
7. Project title: "Photoparoxysmal EEG responses in children with idiopathic generalized epilepsy- Genetic characterization and clinical correlates"
Funding agency: Dept. of Science and Technology- Cognitive Science Research Initiative (DST-CSRI), Govt. of India
Amount: 29,60,200 INR
Duration: 2019-2022
8. Project title: "Effect of an early intervention program in the management of cognitive, behavioral and language skills of children with ASD".
Funding agency: Department of Science & Technology, Government of India.
Amount: Rs. 34,67,000
Duration: 2023-25
9. Project title: "Topical Oil Pooling (Karnapurana) with Kshirabala Taila and supple Mentation of Ashwagandha Churna (TOPMAC) IN PRESBYCUSIS- An exploratory randomized controlled trial".
Funding agency: Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, Govt. of India
Amount: Rs. 32,23,000 (for NARIP Cheruthuruthy- Rs. 24,69,000/- & for ICCONS Rs. 7,54,000/-)
Duration: 2023-25



Intramural Research Projects

- Hypermethylation of *AMOTL1* gene in developmental language disorder
- Comparative study of the methylation of *APCDD1* gene in developmental language disorder
- Comparative study of the methylation of *VEPH1* gene in developmental language disorder
- Comparative study of the methylation of *TRABD2B* gene in developmental language disorder
- Genetic association study of *MTHFR* gene with autism
- Comparative study of the methylation of *CNTNAP2* gene in developmental language disorder
- Hypomethylation of *WNT2B* gene in developmental language disorder
- Comparison of the expression of Hs-miR-9b-2 between autism patients and control subjects
- Comparison of the expression of Hs-miR-181b-1 between autism patients and control subjects
- Genetic association study of *DRD1* rs4532 with autism spectrum disorders in Kerala population
- Hypomethylation of *GNG7* gene in developmental language disorder
- Downregulation of *TUBB2B* and *KAT6B* in polymicrogyria



PUBLICATIONS

1. Thanseem I, Banerjee M, Melempatt N, Prakash A, Iype M, Anitha A. Comprehensive genetic study of a monozygotic triplet discordant for autism spectrum disorder. *Neurol India* (Accepted).
2. Suhail TA, Indiradevi KP, Suhara EM, Poovathinal SA, Anitha A. Effect of smartphone distractions on cognitive performance in adolescents: An Electroencephalography Approach. *Basic Clin Neurosci*. doi 10.32598/bcn.2021.2295.2.
3. Anitha A, Thanseem I, Iype M, Thomas SV (2023) Mitochondrial dysfunction in cognitive neurodevelopmental disorders: Cause or effect? *Mitochondrion* **69**: 18-32.
4. Indiradevi KP, Suhara EM, Poovathinal SA, Anitha A (2022) Distinguishing cognitive states using electroencephalography local activation and functional connectivity patterns. *Biomed Signal Process Control* **77**: 103742.
5. James J, Iype M, Surendran MO, Anitha A, Thomas SV (2022) The genetic landscape of polymicrogyria. *Ann Ind Acad Neurol* **25**: 616-626.
6. Iype M, Mithran OS, Anitha A, Iype M (2022) Congenital muscular dystrophy due to POMGNT1 mutation presenting as cardioembolic stroke - A case report. *Ann Ind Acad Neurol* **25**: 551-553.
7. Anitha A, Poovathinal SA, Viswambharan V, Thanseem I, Iype M, Anoop U, Sumitha PS, Parakkal R, Vasu MM (2022) MECP2 mutations in the Rett syndrome patients from south India *Neurol India* **70**: 249-253.
8. Varghese M., Nair A. K., Srivastava R., Cognitive Measure as a key indicator for Learning Disorder - *Antrocom J. of Anthropology* **18-1** (2022) pp. 327-334
9. Mathew V, Srivastava R, Nair AK. Difference in the cognitive profile of children with specific learning disabilities. *Santosh Univ J Health Sci*. 2022, **8**: 48-51

AWARDS & HONOURS



Smt. Divya.G, has received certificate of merit from Shri. K.K. Rajeev, Honourable Minister for Industry in recognition to the innovative idea presented to Kerala Development and Innovative Strategic Council (K-DISC) on “Alternative Augmentative Communication Software in Malayalam Language to provide online supervised speech and language therapy for differently abled children”.



FINANCE & ACCOUNTS

SOCIETY FOR REHABILITATION OF COGNITIVE AND COMMUNICATIVE DISORDERS

BALANCESHEET AS ON 31.03.2023

LIABILITIES	AMOUNT	ASSETS	AMOUNT
GENERAL FUND		FIXED ASSETS	
As per last Balancesheet	4,50,67,710.54	(I)	25,47,66,688.03
less: Excess of expenditure over Income	70,86,167.56	Work in Progress	
Capital Reserve		Construction of First Floor of Hospital Building	51,70,507.00
SPECIFIC GRANT		Construction of internal road and site development	9,43,626.00
Grant from Government Health (A)	23,55,63,552.78	Current Assets	
Capital Grant: DST (B)	29,83,049.15	Advances (K)	53,75,863.34
MP FUND (C)	7,21,826.32	Deposit	10,01,557.00
CSR FUND Navigant Technology (D)	1,11,815.10	Cash & Bank Balances (I)	82,84,413.61
CURRENT LIABILITIES		Sundry Debtors	48,96,094.00
Sundry Creditors		EPF portion Receivable from employee	1,25,567.00
For Capital Goods (E)	7,47,661.00	Advance given to ANERT	35,00,000.00
For Expenses (F)	53,45,419.00	Advance given to TDLCCS	8,59,665.00
Other finance (G)	83,58,298.08	Advance given to KMSSCL	80,00,000.00
Other Current Liabilities (H)	7,08,910.00	Deposits	53,120.00
EPF Payable	4,73,820.00	EMD	13,376.00
KCWWF-TDLCCSL	7,523.00	Other Current Assets	11,326.76
KSCSTE-Project Salary	6,917.00	Inventory	2,08,530.67
	29,32,10,334.41		29,32,10,334.41

Date: 18-10-2023

Place: Thiruvananthapuram

Vide our report of even date

UDIN: 23207251BGVPYX8868

DIRECTOR



SOCIETY FOR REHABILITATION OF COGNITIVE AND COMMUNICATIVE DISORDERS

Income and expenditure account for the year ended 31.03.2023

	EXPENDITURE	AMOUNT		INCOME	AMOUNT
To	Opening Stock	2,07,926.70	By	Collection From School	8,84,510.00
"	Advertisement Charges	1,21,920.00	"	Collection from Hospital	1,08,92,883.00
"	AMC	5,414.39	"	College (Students) Income	90,14,705.00
"	Audit Fee	59,000.00	"	Grant In AID (NON-PLAN)	2,65,14,000.00
"	Calibration	35400	"	Vrithika project receipt	1,12,550.00
"	College(students)Expense	3,90,490.00	"	CCRDS Project	4,00,000.00
"	CSRI Project Expenses	1,59,690.00	"	ICMR Project receipt	6,37,886.00
	Cleaning Expense	97,696.00		Other income	5,12,780.22
"	Employer's Contribution to PF & ESI	8,08,202.00	"	Stock Of Pharmacy Medicine	2,08,530.67
	Electricity Charges	20,17,599.34		Depreciation Reversed	1,25,29,502.64
	Filing Fees	26,880.00		Excess of expenditure over Income	70,86,167.56
	Fuel Charges	94,000.00			
	Conference & Meetings	2,22,46.00			
	Food & Accomodation	88,434.00			
	Hospital-Expenses	25,98,544.00			
	Labour Charges	25,550.00			
	Map drawing expense	32,369.00			
	News paper & Periodicals	29,860.00			
	Other Expenses	1,91,505.50			
	Postage & Telegram	24,999.00			
	Photo Video & Photocopy	4,076.00			
	Pharmacy expenses	13,81,123.00			
	Printing & Stationary	4,71,238.00			
	Professional Charges	77,980.00			
	Prior Period Expenses	22,279.24			
	Project Expense- CED	76,311.00			
	Rates & Taxes	10,66,250.00			
	Repairs & Maintanance-others	11,29,719.00			
	Repairs & Maintenance- Building	477735			
	Repairs & Maintenance- Computer	36,664.00			
	Repairs & Maintenance- Vehicle	5,08,453.00			
	Repairs & Maintanance-Machine	76,700.00			
	Salaries & Allowance	4,24,52,169.76			
	Staff Welfare Expenses	16,377.00			
	Telephone Charges	46,653.00			
	Training Materials	2,800.00			
	Travelling Expenses	2,68,892.35			
	Water Charges	58,150.00			
	Water Connection	1,50,433.50			
	Rent	1,32,000.00			
	Depreciation	1,25,29,502.64			
	ICMR project expenses	4,57,513.00			
	Vrithika Project expenses	1,12,550.00			
	TOTAL	6,87,93,515.42		TOTAL	6,87,93,515.42

Note: Total Depreciation charged to Profit and Loss account has been reversed since it is explained that the fixed assets were purchased using the grant received from Government and other Institutions

Date: 18-10-2023

Place: Thiruvananthapuram

Vide our report of even date



SOCIETY FOR REHABILITATION OF COGNITIVE AND COMMUNICATIVE DISORDERS

FIXED ASSETS & DEPRECIATION (AS PER INCOME TAX ACT) AS ON 31-03-2023 (I)

Particulars	WDV as at 01-04-2022	Additions/(Deletions)		TOTAL	Rate	Depreciation		W.D.V as on 31-03-2023
		1st Half	2nd Half			Depreciation for the period	Depreciation to be Reversed	
BUILDING PROPERTY								
Buildings	3,15,09,505.00	-	3,64,494.00	3,18,73,999.00	0.05	15,84,587.60	15,84,587.60	3,02,89,411.40
Compound Wall	16,29,419.00	-	61,99,782.00	78,29,201.00	0.05	2,36,465.50	2,36,465.50	75,92,735.50
Parking Area	-	-	2,30,574.00	2,30,574.00	0.05	5,764.35	5,764.35	2,24,809.65
OTHER ASSETS								
Furniture & Fittings	26,45,775.40	-	4,495.00	26,50,270.40	0.10	2,64,802.29	2,64,802.29	23,85,468.11
Electrical Equipment & Fittings	-	5,328.00	-	5,328.00	0.15	799.20	799.20	4,528.80
Cycle	346.00	-	-	346.00	0.15	51.90	51.90	294.10
Hospital Equipment	46,86,184.00	-	-	46,86,184.00	0.15	7,02,927.60	7,02,927.60	39,83,256.40
Medical Equipment	31,78,279.00	-	(3,460.00)	31,74,819.00	0.15	4,76,482.35	4,76,482.35	26,98,336.65
Attendance System	46,694.00	-	-	46,694.00	0.15	7,004.10	7,004.10	39,689.90
obile Phone	5,259.00	-	-	5,259.00	0.15	788.85	788.85	4,470.15
Physiotherapy Equipment	1,18,484.00	-	-	1,18,484.00	0.15	17,772.60	17,772.60	1,00,711.40
Computer	2,34,986.29	-	-	2,34,986.29	0.40	93,994.52	93,994.52	1,40,991.77
CT Scanner	4,30,565.00	-	-	4,30,565.00	0.40	1,72,226.00	1,72,226.00	2,58,339.00
Library Books	21,014.00	5,732.00	22,012.00	48,758.00	0.40	15,100.80	15,100.80	33,657.20
Training Equipment	1,046.00	-	-	1,046.00	0.15	156.90	156.90	889.10
Air Conditioner	4,250.00	-	1,48,297.00	1,52,547.00	0.15	11,759.78	11,759.78	1,40,787.23
Book Binding Machine	21,709.00	-	-	21,709.00	0.15	3,256.35	3,256.35	18,452.65
Weighing Machine	1,427.22	-	-	1,427.22	0.15	214.08	214.08	1,213.14
Vending Machine	5,783.00	-	-	5,783.00	0.15	867.45	867.45	4,915.55



X-RAY View Machine	473.00	-	-	473.00	0.15	70.95	70.95	402.05
Micro Phone	411.00	-	-	411.00	0.15	61.65	61.65	349.35
Printer	42,568.00	-	-	42,568.00	0.40	17,027.20	17,027.20	25,540.80
EEG Machine	3,49,928.00	-	-	3,49,928.00	0.15	52,489.20	52,489.20	2,97,438.80
P A System	1,37,620.00	-	-	1,37,620.00	0.15	20,643.00	20,643.00	1,16,977.00
PROJECTOR	59,690.00	-	63,033.00	1,22,723.00	0.15	13,680.98	13,680.98	1,09,042.03
Inverter	1,11,664.00	-	-	1,11,664.00	0.15	16,749.60	16,749.60	94,914.40
SOLAR PANEL	-	-	16,96,370.00	16,96,370.00	0.15	1,27,227.75	1,27,227.75	15,69,142.25
DG SET	32,67,097.00	-	2,72,830.00	35,39,927.00	0.15	5,10,526.80	5,10,526.80	30,29,400.20
CSR Navigant Technology								
Furniture & Fittings-CSR	1,21,169.00	-	-	1,21,169.00	0.10	12,116.90	12,116.90	1,09,052.10
DST ASSETS & EQUIPMENT								
ADOS-DST Project	69,435.00	-	-	69,435.00	0.15	10,415.25	10,415.25	59,019.75
Antivirus- DST Project	641.00	-	-	41.00	0.15	96.15	96.15	544.85
ECR Kit- DST Project	13,229.00	-	-	13,229.00	0.15	1,984.35	1,984.35	11,244.65
Furniture & Fixtures	5,983.00	-	-	5,983.00	0.10	598.30	598.30	5,384.70
Laptop- DST Project	4,174.00	-	-	4,174.00	0.40	1,669.60	1,669.60	2,504.40
PEP-DST Project	18,776.00	-	-	18,776.00	0.15	2,816.40	2,816.40	15,959.60
MP FUND								
School Bus	8,45,071.20	-	-	8,45,071.20	0.15	1,26,760.68	1,26,760.68	7,18,310.52
LAND AND DEVELOPMENT	2,65,06,199.00	-	-	2,65,06,199.00	-	-	-	2,65,06,199.00
BUILDING	5,41,44,992.19	10,89,19,513.83	-	16,30,64,506.02	0.05	54,30,237.46	54,30,237.46	15,76,34,268.56
AIR CONDITIONER	3,96,486.00	-	-	3,96,486.00	0.15	59,472.90	59,472.90	3,37,013.10
ATTENDANCE SYSTEM	46,694.00	-	-	46,694.00	0.15	7,004.10	7,004.10	39,689.90
ELECTRIC EQUIPMENTS	8,68,786.18	-	-	8,68,786.18	0.15	1,30,317.93	1,30,317.93	7,38,468.25
LCD PROJECTOR AND EQUIPMENTS	85,908.00	-	-	85,908.00	0.15	12,886.20	12,886.20	73,021.80
CCTV SYSTEM	16,790.00	-	25,890.00	42,680.00	0.15	4,460.25	4,460.25	38,219.75

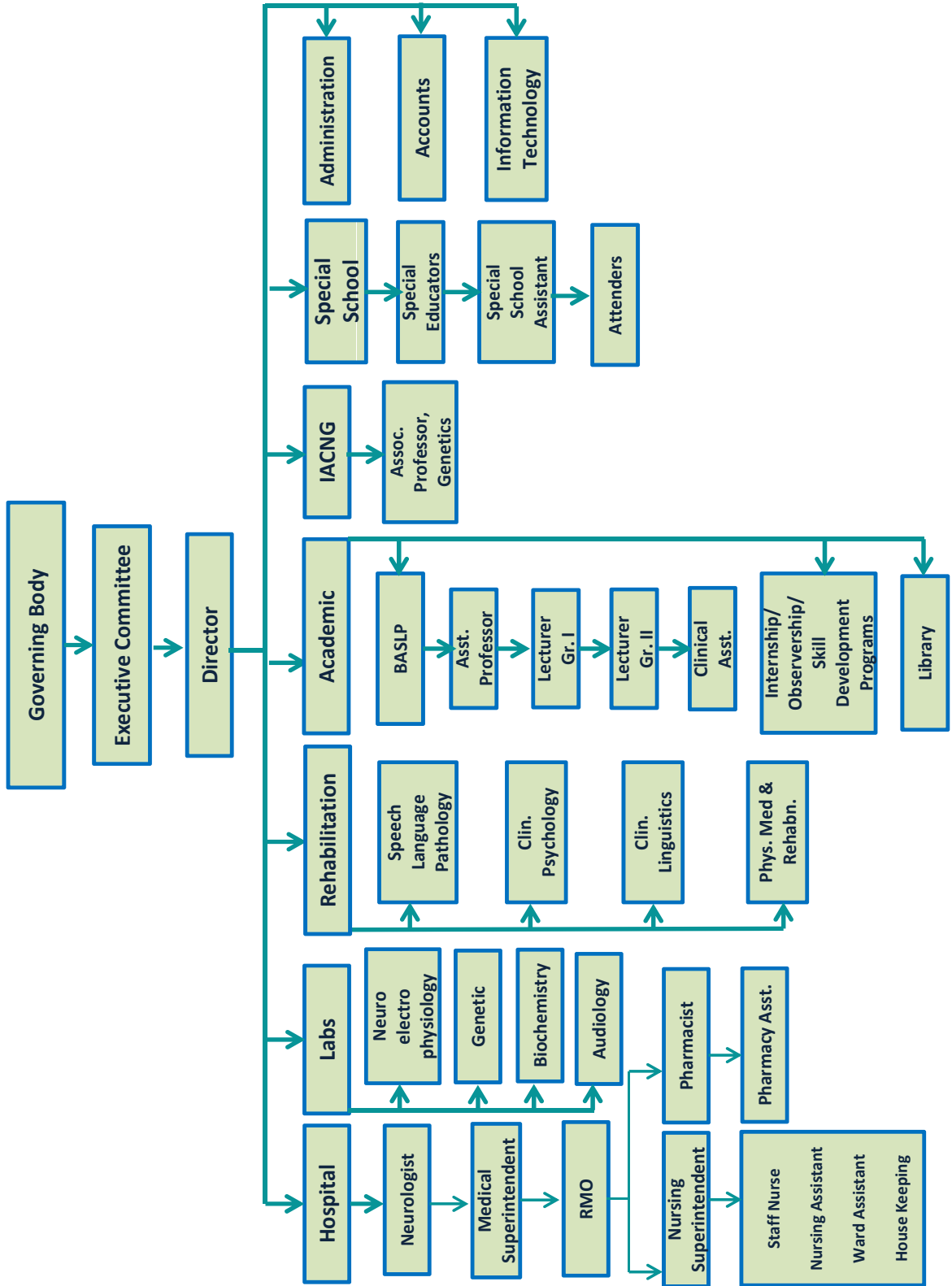
CEILING FAN	10,286.00				10,286.00	0.15	1,542.90	1,542.90	8,743.10
SOFTWARE	227.00				227.00	0.40	90.80	90.80	136.20
JEEP	10,367.00				10,367.00	0.15	1,555.05	1,555.05	8,811.95
BUS	2,00,790.00				2,00,790.00	0.15	30,118.50	30,118.50	1,70,671.50
COMPUTER	44,897.00				44,897.00	0.40	17,958.80	17,958.80	26,938.20
GENERATOR	23,429.00				23,429.00	0.15	3,514.35	3,514.35	19,914.65
HOSPITAL EQUIPMENTS	7,48,511.00	4,49,000.00			11,97,511.00	0.15	1,79,626.65	1,79,626.65	10,17,884.35
FURNITURE AND FITTINGS	42,26,467.78				42,26,467.78	0.10	4,22,646.78	4,22,646.78	38,03,821.00
REFRIGERATOR	73,806.00				73,806.00	0.15	11,070.90	11,070.90	62,735.10
TRAINING EQUIPMENTS	68,518.47				68,518.47	0.15	10,277.77	10,277.77	58,240.70
MEDICAL EQUIPMENTS	77,12,337.00				77,12,337.00	0.15	11,56,850.55	11,56,850.55	65,55,486.45
BOREWELL	31,385.00	66,800.00			98,185.00	0.15	14,727.75	14,727.75	83,457.25
WASHING MACHINE	39,682.00				39,682.00	0.15	5,952.30	5,952.30	33,729.70
CMC RTPCR Machine			-	2,03,861.00	2,03,861.00	0.15	15,289.58	15,289.58	1,88,571.43
Immuno Assay Analyser			-	8,85,000.00	8,85,000.00	0.15	66,375.00	66,375.00	8,18,625.00
Library Books			-	77,153.00	77,153.00	0.40	15,430.60	15,430.60	61,722.40
DST ASSETS & EQUIPMENTS					-	-	-	-	-
EEG MACHINE	19,86,419.00				19,86,419.00	0.15	2,97,962.85	2,97,962.85	16,88,456.15
SERB Project ASSETS & EQUIPMENTS					-	-	-	-	-
PCR MACHINE	8,27,842.00				8,27,842.00	0.15	1,24,176.30	1,24,176.30	7,03,665.70
TOTAL	14,76,59,474.73	5,26,860.00	11,91,09,844.83	26,72,96,179.56	1,25,29,503.22	1,25,29,503.22	1,25,29,503.22	1,25,29,503.22	25,47,66,688.03

Date: 18-10-2023 2

Place: Thiruvananthapuram



ORGANOGRAM





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