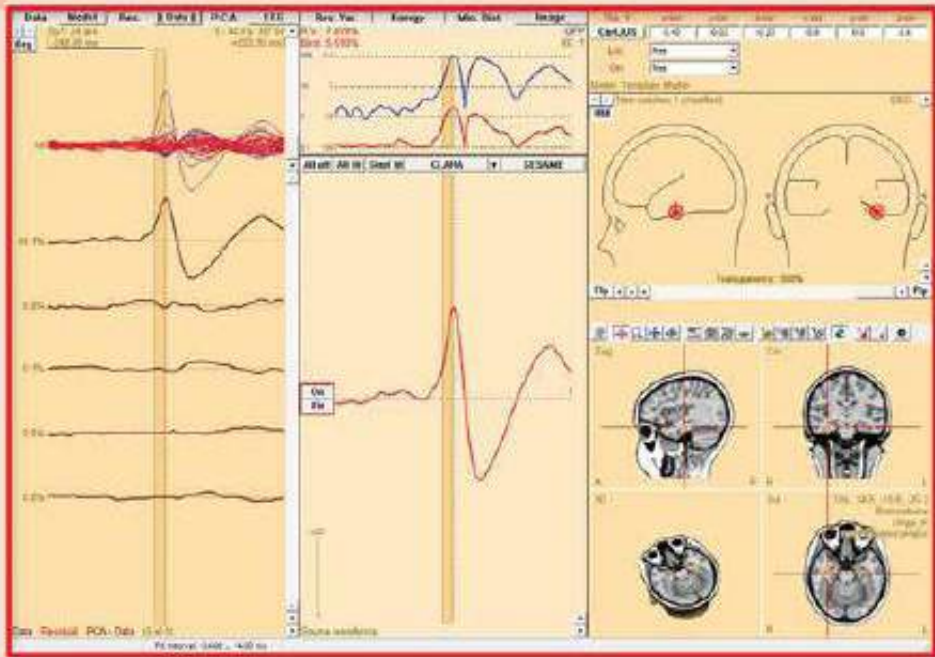




**INSTITUTE FOR COMMUNICATIVE AND
COGNITIVE NEUROSCIENCES (ICCONS)**
THIRUVANATHAPURAM & SHORNUR



Annual REPORT

**2021-
2022**



ICCONS, Thiruvananthapuram



ICCONS, Shoranur



Academic Block, ICCONS, Shoranur

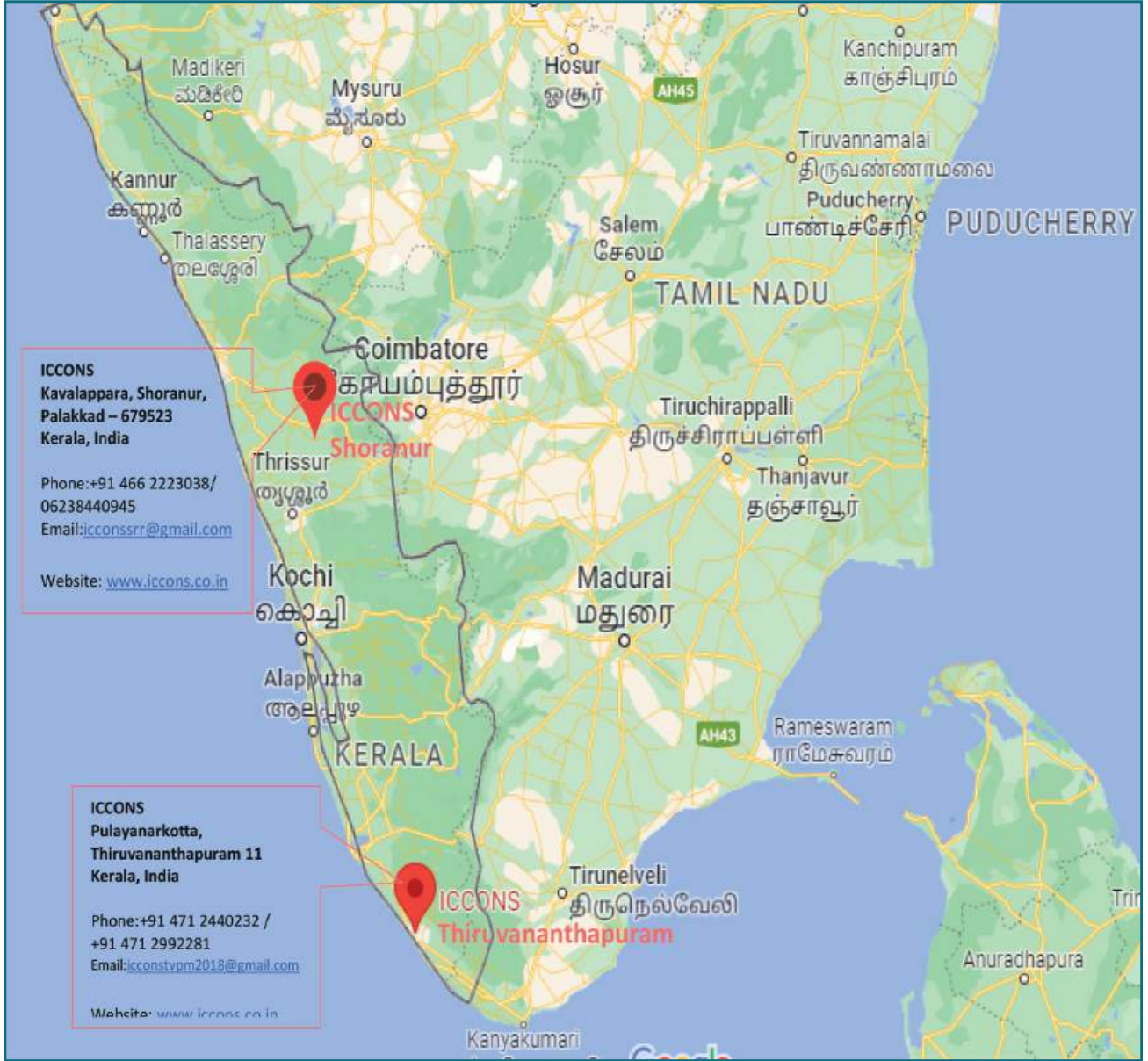
Front Cover Image: Anonymized and analyzed EEG data using BESA software

Back cover image: Picture Courtesy : Ananthapadmanabhan S, Nirupama Vinu & George T Jacob
(children with savant skills taking rehabilitation services from ICCONS)

ANNUAL REPORT 2021-2022



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



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Dr Sanjeev V Thomas

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

Director's Message

The power of advanced communication and cognitive abilities make human different from other living things on earth. The rich diversity of languages has now been further enriched by machine languages. Similarly, artificial intelligence is now assisting human intelligence in a wide range of human activities. It is amazing how human brain with its 100 billion neurons and 1000 trillion synapses is managing all these functions in apparently effortless manner. Nevertheless, there are situations where infants fail to develop communication skills or have problems with cognitive functions. About 10 per cent of live born babies may have one or other neurodevelopmental disorders where language or intelligence is affected. A wide array of insults to the brain ranging from infectious and demyelinating diseases of the nervous system, head injury, stroke, and cancer to name a few, can affect the communicative and cognitive functions. Furthermore, metabolic disorders and degenerative disorders such as Alzheimer's disease can affect these functions in the elderly.

Communicative and cognitive disorders of the brain have not yet received the due attention of the scientific community in India. Scientific research in this area has to progress from clinical descriptions to pathophysiology, newer techniques of diagnosis and management. More research and work have to be done to improve the rehabilitation of those who are affected by cognitive disorders.

Institute for Communicative and Cognitive Neurosciences (ICCONS) had been established with the objective to provide leadership in the science and service in this domain. In the past two and half decades, ICCONS has made substantial contributions to in this field. During this financial year, ICCONS has made major infrastructural improvements in its campuses in Shoranur as well as Trivandrum. The clinical services, teaching and training activities and research activities have taken a new impetus in the past year. I am delighted to place on record the whole-hearted support of all staff and the Government of Kerala in this endeavour.



Governing Body

1. **Ms. Veena George**
Chairperson
Hon'ble Minister for Health and Family Welfare,
Govt. of Kerala
2. **Prof. P Bindu**
Co-chairperson
Hon'ble Minister for Social Justice
Govt. of Kerala
3. **Dr. Ajith Kumar**
Vice chairman
Director,
SCTIMST
4. **Dr. Rajan N Khobragade IAS**
Co-vice chairperson
Principal Secretary
Health & Family Welfare, Govt. of Kerala

Members

5. **Mr. A P M Mohammed Hanish IAS**
Secretary to Govt. General Education
Govt. of Kerala
6. **Mr. Rajesh Kumar Singh IAS**
Principal Secretary to Govt.
Finance Department, Govt. of Kerala
7. **Ms. Rani George IAS**
Principal Secretary to Govt.
Social Justice Dept., Govt. of Kerala
8. **Dr. Rathan U Kelkar IAS**
State Mission Director
National Health Mission
9. **Mr. Jeevan Babu K IAS**
Director of General Education
Govt. of Kerala
10. **Dr. Raju V R**
Director of Health Services
Govt. of Kerala
11. **Dr. Remla Beevi A**
Director of Medical Education, Govt. of Kerala
12. **Ms. M Anjana IAS**
Director of Social Justice, Govt. of Kerala
13. **Dr. Sylaja P N**
HOD, Dept. of Neurology, SCTIMST
14. **Sri. Moideenkutty K**
Managing Director
Kerala State Handicapped Person Welfare
Corporation Ltd.
15. **Ms. Arya Rajendran S**
Mayor
Thiruvananthapuram Corporation
16. **Mr. M K Jayaprakash**
Chairperson, Shoranur Municipality
17. **Dr. V Ramankutty**
Former HOD, Achuthamenon Centre
SCTIMST
18. **Mr. V N Jithendran IAS (Retd.)**
Former Director
Social Justice Department
19. **Dr. V Remakumary**
CMO (Retd.)
ISM Department
20. **Dr. Sanjeev V Thomas**
Director, ICCONS



Executive Committee

1. **Dr. Rajan N Khobragade IAS**
Chairperson
 Principal Secretary
 Health & Family Welfare, Govt. of Kerala

Members

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 2. Mr. A P M Mohammed Hanish IAS
 Secretary to Govt. General Education
 Govt. of Kerala 3. Ms. Rani George IAS
 Principal Secretary to Govt.
 Social Justice Dept., Govt. of Kerala 4. Dr. Rathan U Kelkar IAS
 State Mission Director
 National Health Mission 5. Mr. Jeevan Babu K IAS
 Director of General Education
 Govt. of Kerala | <ol style="list-style-type: none"> 6. Dr. Raju V R
 Director of Health Services
 Govt. of Kerala 7. Dr. Remla Beevi A
 Director of Medical Education
 Govt. of Kerala 8. Ms. M Anjana IAS
 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
SreeGokulam 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. Beenalssac 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
Medical Education, Govt. of Kerala
Chairperson</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
Professor, 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,
Institute for Communicative and Cognitive
Neurosciences (ICCONS),
Thiruvananthapuram 695 011 &
Shoranur 679 523, Kerala
- 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.



ICCONS' Infrastructure

ICCONS, Thiruvananthapuram is located at Pulayanarkotta,. Total land area of the ICCONS Campus is 2.96 acres and total built up area is 1513.88m².

ICCONS, Shoranur is located at Kavalappara, Shoranur. Total land area of the ICCONS Hospital Campus is 4.27 acres and total built up area is 5753m² Land area of Academic block campus



Main building



Special School

is 2.34 acres and built up area is 9678.64 m². The land area of ICCONS'Ullattuthodi campus is 1.62 acres and it includes special school (524.24 m²), two ladies' hostels (778.58 m²) and a canteen complex (312.5 m²).



Main building



Academic block



Special School



Ladies' hostel



Cafeteria



History & Milestones

The Institute for Communicative and Cognitive Neurosciences, established under Society for Rehabilitation of Cognitive and Communicative Disorders (SRCCD), has its roots in the Aphasia and Behavioural Neurologic Clinic established in 1992 at Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) by a faculty member of Dept. of Neurology as a research project. The clinic conducted studies on children and adults with speech, language and cognitive disorders.



The steady increase in the number of children and adults attending the clinic necessitated the need to understand the dimensions of the problem. Subsequently, an epidemiological survey was conducted in 10 panchayats (rural areas) of Kerala, assessing 80,000 children. 10-12% of children <15 years and ~17% of school-going children were

diagnosed with some form of cognitive or communicative disorders or learning disabilities that interfered with their performance at schools.

ICCONS - From Blue Print to Birth

Life begins much before the actual birth. So is the case with Institute for Communicative and Cognitive Neuro Sciences (ICCONS). A series of events, one leading to the other in rapid succession, culminated in the birth of ICCONS

From Special Clinic to Survey

The event in this process was the 'Behavioral Neurology Clinic at Sree Chitra Tirunal Institute for Medical Sciences and Technology', Thiruvananthapuram. Surprised by the steadily increasing number of children attending the clinic, the clinicians undertook a field survey to understand the dimension of the problem of these children in the community. The results of the survey have shown that as high as 10 percent of school going children in Kerala has one



Inauguration of the Project -Survey of developmental language disorders and learning disability among school children in Kerala

or the other type of communicative or cognitive defects that seriously affected their performance at school

From Survey to Society

With a sense of deep concern and commitment the investigators and representatives from the ministries of Health and Education, Govt. of Kerala formed a charitable society in the name of “Society for Rehabilitation of Cognitive and Communicative Disorders” (SRCCD), which was registered in February 1998 under the Travancore-Cochin Literacy, Scientific and Charitable Societies Act of 1955. The Hon’ble Ministers for Health and Education



are the Patrons of the Society, as the issues engaging its attention do not fit neatly into disciplinary boundaries of health or education, but cut across their boundaries. The main objective of the Society is to provide a comprehensive, multidisciplinary, professional rehabilitation

service under one umbrella for the benefit of people with cognitive and communicative defects in our

country, particularly in Kerala. The society also aims at high quality research that will focus on the importance of studies in regional languages and the need to synchronize the research activities by professionals belonging to various disciplines, by overcoming barriers of their disciplinary boundaries and other factors, which hamper the advancement of good research.

From Society to Institute

The society took the important decision of setting up an “Institute for Communicative and Cognitive Neurosciences” (ICCONS) in Thiruvananthapuram, a decision of great significance for



The ICCONS lit on by Chairman Prof. K Mohandas

the future of all those with cognitive and communicative disorders in our country. Hon’ able Chief Minister of Kerala, Mr. E. K. Nayanar formally inaugurated the establishment of this institute on 2nd October 1998, as an autonomous institute partly supported by the Government of Kerala.

All Under One Roof

The institute is running a regular outpatient service with a multidisciplinary team consisting of neurologists, speech pathologists, clinical psychologists, sociologists, clinical linguist and special educators, carefully evaluates each client and gives its recommendations to the therapist for appropriate rehabilitation program. The team also monitors periodically the progress of each client.



Special School for Special Children

For the benefit of those children who, because of the speech, language or learning disability cannot attend a regular school, the institute runs a special school for them in its premises where they are taught and trained by teachers, specialized in this field



Clinic to Community



The philosophy behind the society's programme is to base its services in the community, as far as possible, as an integral part of primary health care service because, it only can offer the hope of delivering effective rehabilitation service at relatively low cost and certainly more conveniently to the needy people, than any institution or hospital – based programme. The Institute deposes a multidisciplinary, professional team on a fort nightly basis, which organizes out- reach clinics in the primary Health Centres in different regions of the State

Teaching the Teachers

Aware of the fact that only a specially trained teacher, possessing appropriate basic knowledge and



understanding about cognitive and communicative defects, can successfully teach children with such disabilities, the Institute also conducts regular training programmes for school teachers in each district

Parents as Partners

As family plays an important role in the rehabilitation programme, the Institute holds regular



“Awareness and Counselling” programmes, where the family members of the affected children are given basic information and counselling regarding the problems of their child and they are also encouraged to be actively involved in all the rehabilitation programmes



ICCONS THIRUVANANTHAPURAM



Major Diagnostic and Treatment Facilities

Electrophysiology Lab Facilities

The Electro physiology unit is an essential component in cognitive neuroscience departments 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 electro physiological 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.

Main facilities are:

- Video EEG
- NCS/EMG/EP System
- Brain Electric Source Analysing (BESA) Research Complete 7.1 software

Audiology & Speech Lab Facilities

The institution procured essential diagnostic equipment and tools for audiological and speech evaluation. With these facilities the institution is at present capable of identifying and managing various audiological problems, deafness, and speech problems.

Main facilities are:

- Diagnostic Audiometer
- Impedance Audiometer
- Brainstem Evoked Response Audiometry (BERA)
- Auditory Steady State Response (ASSR)
- Distortion Product Otoacoustic Emission (DPOAE)
- Dr. Speech software (Vocab and Delayed Auditory Feedback)
- CELF – 5
- Malayalam Articulation Test
- Assessment of Language Development (ALD)
- Treatment manual in English for Indian children with Dyslexia
- Bedside screening test for persons with Aphasia – Malayalam
- Dyslexia Assessment Profile for Indian Children (DAPIC)



- Pragmatic skills building advanced kit
- Interaction manual for Preschoolers AAC
- Visual kit

Clinical Psychology Lab Facilities

The psychology lab provides an understanding of the functioning of brain and mind and their interrelationship with behaviour. The laboratory is equipped with tools to assess intellectual ability, personality, adaptive abilities, attitude, achievement and also includes neuropsychological assessment batteries.

- Seguin Form Board
- Malin's Intelligence Scale for Indian Children
- Wechsler Intelligence Scale for Children-IV India
- Binet-Kamat Test
- Vineland Social Maturity Scale
- Vineland Adaptive Behaviour Scale-2
- Childhood Autism Rating Scale-2
- Dyslexia Screening Test
- Indian Scale for Assessment of Autism (ISAA)
- PGI Battery of Brain dysfunction
- Wechsler Adult Intelligence Scale-IV India
- Wechsler Adult Performance Intelligence Scale
- Bhatia's battery of Performance Intelligence Test.

Clinical Linguistics Lab Facilities

The linguistic department has diagnostic tools for identifying learning disability and other language disorders. With these tools, the department is capable of identifying and managing different types of language disorders.

- LD Assessment Tool
- Linguistic Profile Test (LPT)

Physiotherapy Lab Facilities

The department of physiotherapy provide patient care responsibilities involved in preventing disabilities and promoting restoration of function to the physically impaired, including musculoskeletal, neuromuscular disorders that interfere with the physical function. The facilities are :

- Treadmill
- Static Cycle
- Parallel bar with mirror
- Staircase with Ramp
- Multi exercise chair
- Multi exerciser table
- Wobble balance board
- Balance board
- Balance beam
- Moist heat
- Cold therapy Unit
- Ball pool
- Wedge
- Gym/Exercise ball
- Rowing machine
- Shoulder abduction ladder
- Ankle exerciser
- Pediatric Walker
- CP Walker
- Depth perception peg board
- Peg board
- Ultrasound
- TENS
- Rolling stool
- Trampoline

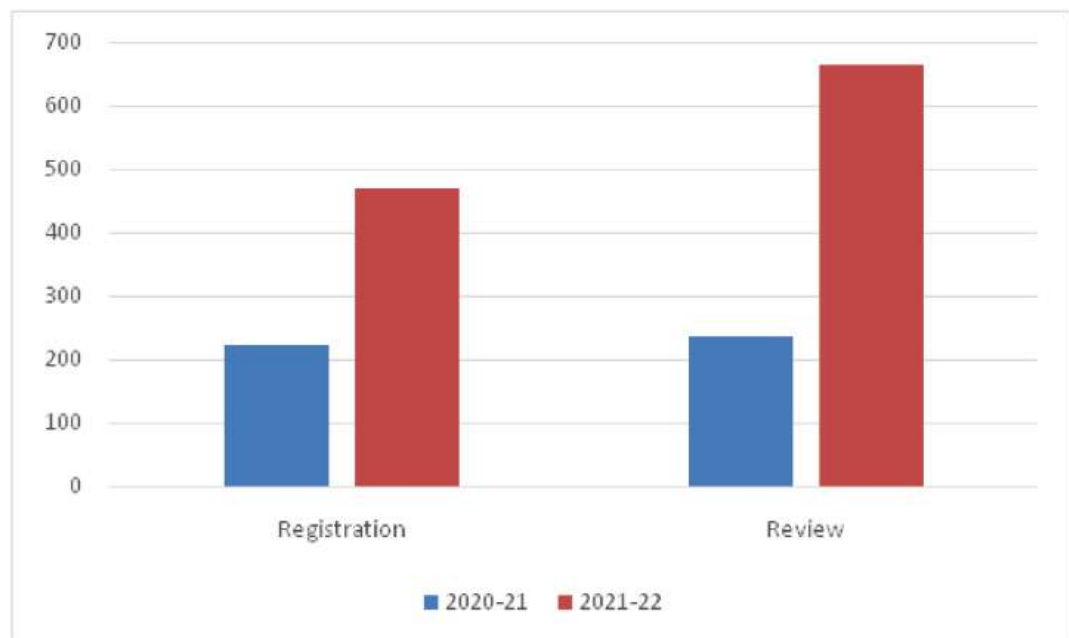


Outpatient Services

Regular outpatient services are provided in the Neurology and other Clinical Services departments. A total of 489 new patients and 665 review patients visited the outpatient clinic of Neurology department in 2021-22

Compared to 2020-21, there was a 110.32% increase in the number of registrations in 2021-22, and 182.97% increase in review cases of Neurology

Comparison of new registration and review 2020-21 & 2021-22





Department of Neurology

FACULTY

Dr. Sanjeev V Thomas

Director & Head

Dr. Mary Iype

Regional Director

Other staff

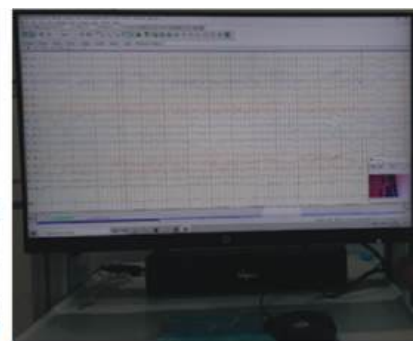
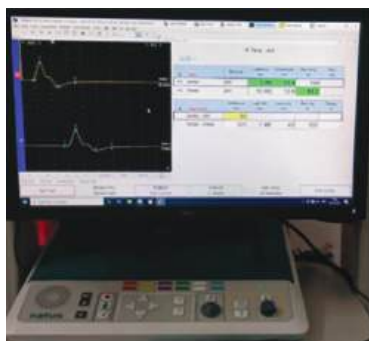
Ms. Varna V Nair

EEG Technician

OUTPATIENT SERVICES

Services	Number
Registration	489
Review	665
EEG	166

- **Prof. Dr. Sanjeev V Thomas**, Head of the Department of Neurology, Sree Chitra Thirunal Institute of Medical Sciences & Technology joined the institute as the Director.
- A new state of the art NCS /EMG machine was installed.
- BESA (Brain Electrical Source Analysis) software for source localization and quantitative EEG was installed .
- Neurology OP services were started, in addition to the already running Pediatric neurology OPD.
- Pediatric Neurology OPD continue to run exceptionally well under Dr Mary Iype ,Prof and Head , Dept. Of Paediatric Neurology, SATH, MCH Thiruvananthapuram





TEACHING & TRAINING ACTIVITIES

- Two volunteer research fellows – Dr. Vishnu Prasad and Dr. Amal Ahammed joined the institute. Interns and observers from other departments also attended neurology OPD and we took clinical discussions for them

EXTRAMURAL RESEARCH PROJECTS

Project title : The Spectrum of impairment and prediction of disability in cognitively challenged children in Kerala

Funding source : Centre of Excellence for Disability Studies (CeDS), Govt. of Kerala

Principal Investigator : Dr.Sanjeev V Thomas, Director, ICCONS.

Co-Investigators : Dr. Mary Iype, Professor, Pediatric Neurology, GMC, Trivandrum.

Dr.Anish T S, Asso. Professor, Dept. of Community Medicine, GMC, Trivandrum

Dr. Hamza Mullath, Assistant Professor, Dept. of Paediatrics, ICCONS, Shoranur

Amount: 3,91,400 INR

Duration: 2022-'23



Department of Audiology & Speech Language Pathology

FACULTY

Ms. Divya G

Lecturer Gr I & Dept. in-charge

Ms. Priyanka Panchapakesan

Lecturer Gr I

Ms. Reji R

Lecturer Gr II

Ms. Arun Mallika

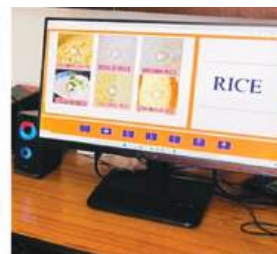
Clinical Asst.

CLINICAL SERVICES

Services	Number
Speech Therapy (including teletherapy)	2526
Speech Evaluation	120
Assessment of Language Disorder	137
Malayalam Articulation Test	12
Linguistic Profile Test	21
LD Screening Tool	7
REELS	93
Stuttering Severity Index	5
Adult Language Assessment	1
AC + BC Masking	2
BERA	2

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
- 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.
- Involves in research activities, publications and paper presentations





TEACHING & TRAINING ACTIVITIES

- Provided online interactive session to VHSE Speech and Audio Therapy Assistant course students of three different schools on “Scope and Practice of Audiology and Speech Language Pathology” as part of expert interactive session on 24th & 26th January 2021 & 10th March 2021
- As resource persons for continuing rehabilitation education (CRE) Webinar on “Learning Disability and its Differential Diagnosis” of Rehabilitation Council of India (RCI) organized by ICCONS on 6th & 7th May 2021.
- Provided online awareness on “Speech therapy sessions to parents of differently abled children”, organized by Samagra Shiksha Kerala, BRC Kilimanoor on 10th July 2021.
- Published an article “ilammanasintekaipidikkam” in Kaumudi daily on 9th October 2021 as part of world disability week.
- Provided online interactive session to VHSE Speech and Audio Therapy Assistant course students of three different schools in the topic “Early Identification of Hearing loss” on 24th October 2021, 4th November 2021 & 21st November 2021.
- As subject expert and clinical expert in the workshop for the NSQF curriculum development SPELL III for “Speech and Audio Therapy Assistant” course of VHSE organized by SCERT, Trivandrum on 3rd & 4th February 2021.
- Prepared curriculum on “Autism Spectrum Disorders” and “Specific Learning Disorders” for imparting

training to the ASHA & ANUYATRA Volunteers (Jan 2022)

- Presently 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 candidates of Diploma in Management of Learning Disability, State Resource Centre Community College from 12th to 27th October 2021
- Provided clinical exposure to MSc Psychology students of K.E.M College, Mannanam from 3rd to 14th January 2022
- Faculties of the department have attended online training to familiarize with Dr.Speech software, provided by Voice Tech Company Pvt Ltd on 8th February 2022.

PRESENTATIONS

- Co-authors for the Online presentation on “Speech and language acquisition in children with cleft lip and palate: Challenges and remedial strategies” at the International Conference on Clubfoot on 6th December 2021
- Online presentation on “Artificial Intelligence enabled Alternative Augmentative Communication (AAC) software in Malayalam language to provide online supervised speech and language therapy for Differently abled children” as a part of the Citizen Service -One Department One Idea initiative of K-DISC on 3rd March 2022.



Department of Clinical Psychology

FACULTY

Dr. Nandini Jayachandran

Lecturer Gr I & Dept. in-charge

Mr. Sreekumar S

Lecturer Gr II

Mr. Varghese Mathew

Lecturer Gr II

Ms. Santhi V S

Lecturer Gr II

Ms. Dhanalekshmi G S

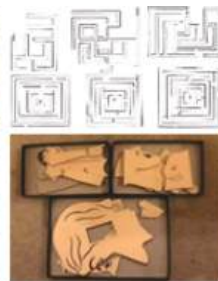
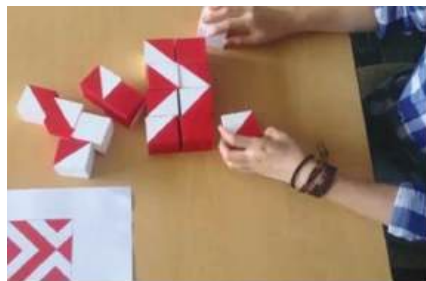
Registrar in Clinical Psychology

CLINICAL SERVICES

Services	Number
Psychological Evaluations	271
Individual Therapies (including teletherapy)	3956
Counselling	169
WISC IV India	39
WAPIS	5
CARS/ISAA	22
Other Intelligence Tests	14
VSMS	123
SFB	52
Neuropsychological Evaluations	4

MAIN ACTIVITIES

- Psychological Evaluations
- Diagnostic & ability/skill assessments.
- Therapeutic services
- Counselling
- Parental Counselling
- Teaching & Training programs
- Research activities: Projects undertaken; Participation & Presentations in Conferences/ Workshops/CRE's & Publications.





TEACHING & TRAINING ACTIVITIES:

- Participation as Guest Faculty and delivered lectures for M.Phil in Learning Disabilities U.G.C. innovative program for the academic year 2021-22, conducted by the Department of Psychology, University of Kerala, Kariavattom campus, Trivandrum

RESEARCH ACTIVITIES (EXTRAMURAL PROJECTS)

Project title: Early identification and intervention in Developmental dyscalculia

Funding source: Cognitive Science Research Initiative (CSRI) of the Dept: of Science & Technology, Government of India

Principal Investigator: Dr. Nandini Jayachandran, Lecturer in Clinical Psychology-Grade 1 ICCONS, Trivandrum.

Co-Investigators: Dr. Immanuel Thomas, Former HOD & Professor, Department of Psychology, University of Kerala, Kariavattom campus
Amount: 3,91,400 INR

Amount: 21,78,400 INR

Duration: 2016– 2021

Project title: Effect of an early intervention program in management of Cognitive, Behavioural and Language skills of children with Autism Spectrum Disorders

Funding source: Cognitive Science Research Initiative (CSRI) of the Dept: of Science & Technology, Government of India

Principal Investigator: Dr. Nandini Jayachandran, Lecturer in Clinical Psychology-Grade 1 ICCONS, Trivandrum.

Co-Investigators: Dr. Mary Iype, Additional Professor, Pediatric Neurology, GMC, Trivandrum.

Amount: 34,67,000 INR

Duration: 2016 – 2020 (completed work of 2 years; 3rd year work delayed due to disruptions imposed by Covid-19 pandemic in community work based in Anganwadys)

PAPER PRESENTATIONS IN CONFERENCES/ SEMINARS/CRE:

- Presented paper titled, “Adaptations in Clinical intervention practices for Neuro-developmental disorders: In the context of Covid-19 pandemic” at the WAVES-Kerala Summit jointly organized by the State Commissionerate for Persons with Disabilities, Government of Kerala; Composite Regional Centre for Persons with Disabilities (CRC)-Kerala (under MoEPWD, Government of India) and Able World, Kerala, held from 5th to 7th August 2021 by Dr. Nandini Jayachandran
- Presented paper titled “Cultural adaptation of M-Chat R/F Malayalam version at the 8th Annual Conference of Cognitive Science (ACCS8) organized by Amritha Vishwavidyalaya, Kollam from 20-22nd January 2022 by Dr. Nandini Jayachandran
- Presented a paper titled “Cognitive measure as a key indicator for learning disorder” in the 6th International Conference of Indian Academy of Health Psychology 2021 held at Gautam Buddha University, Greater Noida, UP from 26-28 November 2021 by Mr. Varghese Mathew

PARTICIPATION IN WORKSHOPS/CONFERENCES/ SEMINARS

- Dr. Nandini Jayachandran participated in the CRE program online on the topic “Ensuring safety for children with Disabilities” held on 14th & 15th May, 2021 conducted by Post Graduate Institute of Medical Education & Research, Chandigarh
- Dr. Nandini Jayachandran participated in the National online Workshop on Psychotherapeutic approaches conducted from June 24th to



26th 2021, organized by the Department of Psychology, School of Liberal Arts & Culture, Adamas University, Kolkata.

- Dr. Nandini Jayachandran participated in the RCI recognized CRE online National training program on “Assessment and Management of Intellectual Impairment in children with Hearing and Speech & Language impairment” held on October 29th & 30th 2021 by Himalayan

Institute of Medical Sciences, SRH University, Dehradun.

- Dr. Nandini Jayachandran participated in the Intensive online training in Neuropsychological Assessment using PGI-BBD (PGI Battery of Brain Dysfunctions) conducted by Dr. Dwarka Pershad on 16th & 17th March 2022, in collaboration with Hunjan Institute of Medical & Behavioural Sciences, Ludhiana



Department of Linguistics

FACULTY

Ms. Bindukala S

Lecturer Gr II & Dept. in-charge

Ms. Sonia Christy

Lecturer Gr II

CLINICAL SERVICES

Services	Number
Individual Training (including teletherapy)	1439
Linguistic Evaluation	62

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
- Teletherapy
- Involved in curriculum preparation

TEACHING & TRAINING ACTIVITIES:

- Involved in Academic Services (BASLP) at ICCONS, Shoranur





Department of Physiotherapy

FACULTY

Ms. Smitha T

Physiotherapist & Dept. in-charge

CLINICAL SERVICES

Services	Number
Physiotherapy	517
Evaluation	46
Gross Motor Function	1
Treadmill/ bicycle	3

MAIN ACTIVITIES

- 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





Special School

FACULTY

Ms. Sheeba V

Teacher & Dept. in-charge

Ms. Mini P

Teacher

Other Staffs

Mr. Sasi D

Ms. Bindukala K R

Mr. Syamkumar S S

Ms. Sreelaja

MAIN ACTIVITIES OF THE DEPARTMENT

- Academic remediation program for children with learning disability - 1062 nos.
- 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 and vocational skills





Library & Medical Records

The library has about 600 books in diverse subjects such as, Neurology, General Medicine, Pediatrics, Anatomy, ENT, Physiology, Psychiatry, Audiology, Speech and Language, Linguistics, Psychology and Statistics. Journals, magazines, periodicals etc. are also available.

A medical records room is arranged to keep medical records and files.





CRE Webinar **on Learning Disability and Its Differential Diagnosis**

6th & 7th May 2021

Coordinator:

Mr. Sreekumar S

Lecturer in Clinical Psychology

Resource Persons

Dr. Mary Iype

Regional Director, ICCONS

Mr. Anilkumar Nair

Lect. In Clinical Psychology

Mr. Sreekumar S

Lect. In Clinical Psychology

Dr. Nandini Jayachandran

Lect. In Clinical Psychology

Ms. Divya G

Lect. In Speech Lang. Pathology & Audiology

Ms. Priyanka Panchapakesan

Lect. In Speech Lang. Pathology & Audiology

Institute for Communicative and Cognitive Neurosciences (ICCONS), Thiruvananthapuram has conducted a CRE Webinar on “**Learning Disability and Its Differential Diagnosis**” for the students, scholars and teaching faculties.

A total of 200 delegates had registered from different parts of our country and from various institutions which included students, faculties and research scholars, out of which **197 participants** regularly attended the webinar.

Administrative and Other Staff

Mr. Tomy Dennis

Public Relations Officer/
Administrative Officer

Mr. Gopikrishnan G R

Accounts Officer

Ms. Beeja A R

Computer Programmer

Mr. Arunkumar A

Clerk

Mr. Sujith T S

Clerk

Ms. Renjini I R

Receptionist

Mr. Abilash S S

Driver

Mr. Kumar B

Attender

Mr. Sajan Kuriakose

Attender

Ms. Anitha S

Cleaner

Ms. Sheeja S

Cleaner

Mr. Madhusoodanan G

Security

Mr. Sreekantan

Security

Mr. N Muraleedharan

Security

Mr. Suresh Kumar C S

Security



ICCONS SHORANUR



Major Diagnostic and Treatment Facilities

- **Modular Operation Theatre:** There are two modular operation theatres with controlled air flow system (laminar air flow system) equipped with air handling unit, air conditioner, riser, filter unit to avoid contamination and to maintain controlled internal environment, ceiling pendant system, control panels, hermetically sealed doors, and X-ray viewing systems.
- 
- **Multipara-monitor Nihon Kohden Lifescope BSM-3562 (2 nos.):** Equipped with ECG, respiration (impedance), NIBP, SpO₂ (NK, Nellcor, Masimo), temperature, BISx, IBP, CO, CO₂ measurements
 - Philips Heartstart XL Defibrillator with 3 seconds charging time at 150 Joules, ECG monitoring with pads or electrodes, manual and AED operation, biphasic technology
 - **Covidian Bedside SpO₂ Patient Monitoring System:** Provides at-a-glance access to real-time patient respiratory status information including continuous SpO₂ and pulse rate monitoring and trending data
 - **Philips MX 16 Slice CT Scanner:** The MX 16-slice is a 16-slice system suited to routine CT, CT angiography, and advanced motion-sensitive applications such as CT colonography and pulmonary studies
- 
- **NeumoventGraphnet TS ICU Ventilator:** Provides invasive and non-invasive ventilation for the critical care management of adult, pediatric and optionally neonate-infant (including premature) patients
 - Monnal T50 Portable Ventilator
 - Janak 4CL Remote Controlled Electronic ICU Beds
 - EB Neuro 128 channel video EEG equipment with facilities for evoked potential and event-related potential
 - **Nihon Kohen Neurofax EEG 1200 32 Channel Digital EEG Machine:** routine EEG and PSG, integrates 32 Channel EEG input and SpO₂ /ETCO₂ inputs
 - Nicolet V32 routine EEG system



- **Nicolet V32 Video EEG system with built-in impedance check on head box and Ethernet based amplifier:** Video EEG; can be upgraded for sleep studies
- Nicolet EMG machine
- Digital X-Ray
- **Allengers Medical Systems 525 500 ma Fixed X-Ray Machine:** Single double tube combination with / without image intensifier, spot filming on all mA stations, compatible with various tables as per user-intended application
- **Allengers Opel 2.5 Spring Balanced Mobile X-Ray System:** Lightweight, easy to move with small footprints, negligible skin dose due to lower exposure factors
- Carl Zeiss Opmi 1 FC Operating Microscope for routine ENT applications
- 3500 Dx Genetic Analyzer
- Ion Torrent Personal Genome Machine
- RT-PCR
- PCR
- Gel documentation system
- IMMULITE (Hormone and drug assays)
- Computerized Speech Science Lab (CSL)
- Spirometer
- Electroglottograph (EGG)
- PRAAT (software for speech analysis)
- Speech Trainer
- Clinical diagnostic audiometer
- Middle ear analyzer
- Portable audiometer
- BERA+OAE+ASSR+VEMP
- Hearing aid analyzer
- Hearing aid programmer
- OAE Screener
- Electrical muscle stimulator
- Moist heat unit
- Ultrasound
- TENS
- Traction unit



Inpatient Services

Prof. Sanjeev V. Thomas

Director

Dr. Hamza M.

Assistant Professor and Medical
Superintendent

Dr. Deepak Komalan

Resident Medical Officer (RMO)

Dr. Mohammed Dilshad:

RMO

Dr. Jasmine Salim

RMO

Dr. Premjith P.R.

Medical Officer Ayurveda

Other Staffs

Ms. Lekha K.K.

Nursing Superintendent

Ms. Ashamol S.

Staff Nurse

Ms. Sreeja K.

Staff Nurse

Ms. Smithamol G.

Staff Nurse

Ms. Binitha Antony

Staff Nurse

Mr. Shijo Baby

Staff Nurse

Mr. Sebin V.

Staff Nurse

The inpatient facility can accommodate 60 patients. There is a 20-bedded male ward, 20-bedded female ward, 5-bedded stroke ward, 5-bedded intensive care unit equipped with two ventilators, and a 10-bedded neurosurgery post-operative ward. 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 are given below:

Admission : 60

Average no. of patients in each month: 20

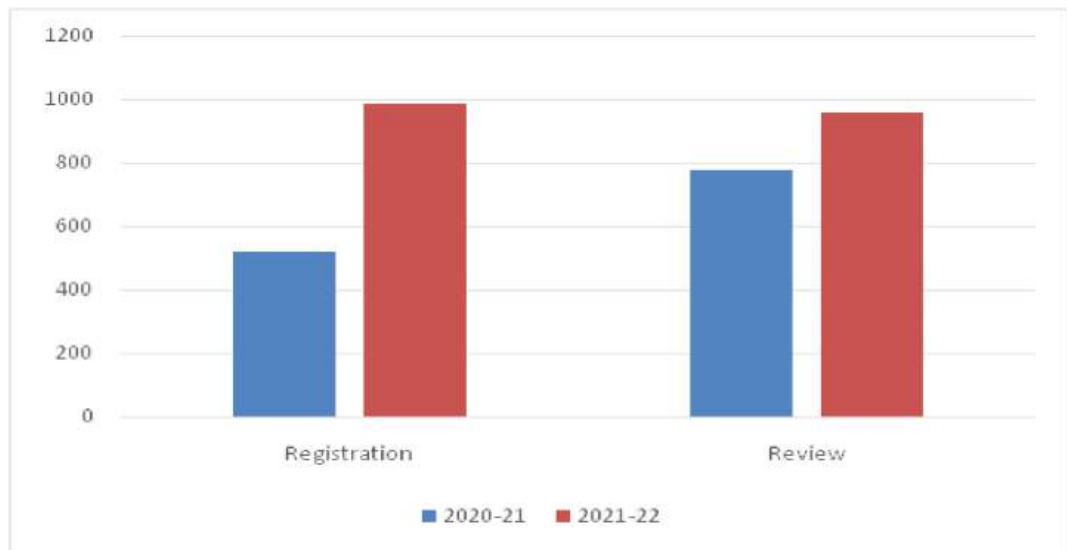


Outpatient Services

Regular outpatient services are provided in the Neurology and Pediatrics departments. A total of 774 new patients and 955 review patients visited the outpatient clinic in 2021-22

Compared to 2020-21, there was a 49.1% increase in the number of registrations in 2021-22, while the number of review cases remained more or less the same.

Comparison of new registration and review 2020-21 & 2021-22





Research Collaboration

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.

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

- Indian Institute of Technology (IIT), Palakkad
- Government Engineering College (GEC), Thrissur
- Government Engineering College (GECSKP), Sreekrishnapuram, Palakkad



Department of Audiology & Speech Language Pathology

FACULTY

Ms. Nisha M.L.

Assistant Professor & Dept. in-charge

Mr. Anoop P.

Lecturer Gr. I

Mr. Rahul K.M.

Lecturer Gr. I

Ms. Anuradha S.

Lecturer Gr. II

Ms. Aswathy P.S.

Lecturer Gr. II

Ms. Keerthi Maria Jose

Audiologist and Speech
Language Pathologist
(Clin. Supervisor Gr. I)

Ms. Anooja A.

Audiologist and
Speech Language Pathologist

CLINICAL SERVICES

Services	Number
Speech & Language Therapy	7621
Audiology	162
New born hearing screening	2093
Speech Language Pathology -Assessment	558

MAIN ACTIVITIES

- Identifying individuals with disorders of communication and for designing and implementing appropriate therapeutic programs. Audiologists provide services to patients with hearing impairment or unusual auditory processing. ASLP department is also involved in the newborn hearing screening program at two hospitals in Ottapalam municipality.





EXTRAMURAL RESEARCH PROJECT

The department staff are co-investigators in extramural projects funded by the state and central government funding agencies

INTRAMURAL RESEARCH PROJECT

- Phonetic placement technique for improving speech clarity in down syndrome
- Speech and language manifestations in closed head injury
- Sudden hearing loss: Case comparison study
- Cleft lip and palate: Single case study
- Effectiveness of voice therapy in unilateral vocal fold paralysis
- Childhood dysarthria: Single case study
- Speech and language characteristics in Prader-Willi syndrome
- Addressing oral sensory issues in the management of children with autism spectrum disorders
- Speech sound disorder-A single case study
- Importance of audiological evaluation after covid-19 infection



Department of Clinical Psychology

FACULTY

Dr. Ambily P.V.

Registrar in Clinical Psychology &
Dept. in-charge

Santhosh M.E.

Registrar in Clinical Psychology

CLINICAL SERVICES

Services	Number
Outpatients	3560
Inpatients	136
Evaluation	424
IQ Test	53
Counselling	47

MAIN ACTIVITIES

- Behavior therapy/
- Behavior modification programs
- Psychological tests and assessments
- Psychotherapy and counselling
- Learning disability (LD) management
- Parental training and counselling / Psychoeducation
- Cognitive retraining
- Early identification and intervention
- Relaxation training
- Academic/clinical Internships and trainings





Department of Physiotherapy

FACULTY

Aswathy C.

Physiotherapist, & Dept. in-charge

Anisha Thambi K.

Physiotherapist

Alan Oliver

Physiotherapist

Fathimath Shakira

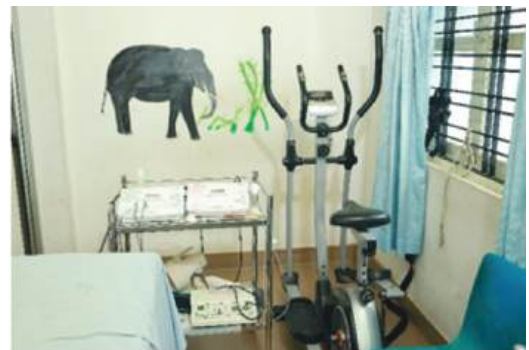
Physiotherapist

CLINICAL SERVICES

Services	Number
Outpatients	1991
Inpatients	244
Evaluation	48

MAIN ACTIVITIES

- All types of human motion analysis
- Assessment of mobility and physical function using instruments
- Planned physiotherapy management
- Specialized treatment for pediatric and geriatric neurological conditions.
- Treatments focused on improving gross and fine motors skills, balance and coordination, strength and endurance, and cognitive and sensory integration.
- Awareness classes for parents and care takers are conducted every six months





Department of Genetics

FACULTY

Dr. Anitha Ayyappan Pillai

Associate Professor, & Dept. in-charge

DIAGNOSTICS

- Mutation screening by direct DNA sequencing
- MLPA-based tests
- Triplet repeat expansion test
- RT-PCR based tests

During 2021-22 genetic tests were conducted for 10 patients



RESEARCH

Our primary objective is to unravel the molecular genetic and neurobiological mechanisms involved in basic cognitive functions by integrating current cutting-edge research across multiple theoretical and practical disciplines including medical science, paramedical science, and basic- and applied- sciences. This is expected to reveal the etiological mechanisms underlying cognitive disorders.

The projects are aimed at,

- Unravelling the molecular mechanisms involved in cognitive processing and perception
- Understanding the genetic underpinnings of complex neurological disorders
- Early detection of cognitive and communicative disorders
- Developing novel intervention strategies for cognitive disorders

EXTRAMURAL RESEARCH PROJECTS

1. **Project title:** Genetic characterization and clinical correlates of polymicrogyria syndromes

Funding source: Indian Council of Medical Research (ICMR), Govt. of India



- Principal Investigator:** Dr. AnithaAyyan Pillai, Associate Professor, Dept. of Neurogenetics, ICCONS.
- Co-Investigators:** Dr. Mary Iype, Professor, Pediatric Neurology, GMC, Trivandrum.
- Amount:** 25,00,000 INR
- Duration:** 2020-'23
2. **Project title:** Photoparoxysmal EEG responses in children with idiopathic generalized epilepsy- Genetic characterization and clinical correlates
- Funding source:** Dept. of Science and Technology- Cognitive Science Research Initiative (DST-CSRI), Govt. of India
- Principal Investigator:** Dr. AnithaAyyan Pillai, Associate Professor, Dept. of Neurogenetics, ICCONS.
- Co-Investigators:** Dr. Mary Iype, Asso. Professor, Pediatric Neurology, GMC, Trivandrum.
- Amount:** 29,60,200 INR
- Duration:** 2019-'22
3. **Project title:** DNA methylation analysis in specific language impairment
- Funding source:** Science and Engineering Research Board (SERB)
- Principal Investigator:** Dr. AnithaAyyan Pillai, Associate Professor, Dept. of Neurogenetics, ICCONS.
- Co-Investigators:** Dr.P.A Suresh, Director, ICCONS
Dr.MaryIype, Asso. Professor, Pediatric Neurology, GMC,TVM.
Ms. Nisha M L, Assistant Professor, Dept. of ASLP, ICCONS.
- Amount:** 36,30,000 INR
- Duration:** 2018-'21
4. **Project title:** Targeted exon sequencing to identify novel, rare and/or common functional genetic variants in autism: A comprehensive twin-family study of autism in Kerala
- Funding source:** Kerala State Council for Science Technology & Environment (KSCSTE)
- Principal Investigator:** Dr. AnithaAyyan Pillai, Associate Professor, Dept. of Neurogenetics, ICCONS.
- Co-Investigators:** Dr.P.A Suresh, Director, ICCONS
Dr.Thanseem Ismail, Research Fellow,.
Ms. Nisha M L, Assistant Professor, Dept. of ASLP, ICCONS.
- Amount:** 23,27,000 INR
- Duration:** 2018-'21
5. **Project title:** Extensive mutational analysis of neural and synaptic genes using next generation sequencing approaches in Indian autism families
- Funding source:** KSCSTE
- Principal Investigator:** Dr.Thanseem Ismail
- Co-Investigators:** Dr. P.A Suresh, Director, ICCONS
Dr.AnithaAyyan Pillai, Associate Professor, Dept. of Neurogenetics, ICCONS.
Ms. Nisha M L, Assistant Professor, Dept. of ASLP, ICCONS.
- Amount:** 21,20,000 INR
- Duration:** 2016-'22
- ### INTRAMURAL RESEARCH PROJECTS
- *MECP2* mutations in the Rett syndrome patients from south India
 - Association study of *MTHFR* rs1801133 gene polymorphism with autism spectrum disorders in Kerala population



- Differential methylation of *WNT2B* gene in developmental language disorder
- Differential methylation of *LRP5* gene in developmental language disorder
- Thyroid dysfunction in mental retardation
- Differential methylation of *NOTCH2NL* gene in developmental language disorder
- Differential methylation of *AMOTL1* gene in developmental language disorder
- Differential methylation of *APCDD1* gene in developmental language disorder
- Differential methylation of *VEPH1* gene in developmental language disorder

SKILL DEVELOPMENT PROGRAMS

The following programs are offered,

- **Skill development/internship program for B.Sc., B.Tech., M.Sc., and M.Tech. students:** Four weeks' duration
- **Short-term projects for M.Sc. and M.Tech. students:** 1-3 months duration In 2021-22,
 - ◊ The department organized a SERB-sponsored Training and Skill Internship program "Genes, Genetics, Epigenetics, and Genomics" which was participated by 35 postgraduate students from various universities and colleges of Kerala.

- ◊ The department provided internship to 13 M.Sc. students belonging to various colleges of Kerala and Tamil Nadu.

CONFERENCE PRESENTATIONS

- Invited talk: 3
- E-poster presentations: 4

Best Poster Award for the E-poster "Genetics of photoparoxysmal response in idiopathic generalized epilepsy" presented during the 33rd conference on Clinical Neuroscience and Neurogenetics held as webinar (March 25-26, 2022).

RESEARCH COLLABORATIONS

State level

- Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram
- Inter-University Centre for Biomedical Research & Superspeciality Hospital (IUCBR), Kottayam
- Union Christian (UC) College, Aluva
- P K Das Institute of Medical Sciences, Palakkad

National level

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



Department of Biochemistry

FACULTY

Nasar C.P.

Biochemist & Dept. in-charge

Soumya A.

Lab Technician

Nimmy K.M.

Lab Assistant

DIAGNOSTIC SERVICES

- Blood routine tests
- Urine routine tests
- Basic biochemistry tests
- Hormone analysis
- Drug assays

The diagnostic services provided by the department in 2021-22 are shown below:

Services	Number
Complete blood count	164
Urine	113
Biochemistry	1344
Hormones	281
Others	23





Special School

FACULTY

Ms. Aleyamma Jacob

Special Educator & Dept. in-charge

Ms. Usha P.

Special School Teacher

Other staffs

Ms. Dhanya V.

Ms. Sandhya P.

Ms. Jayanthi P.

Mr. Premraj N.

Mr. Raman P.S.

MAIN ACTIVITIES

- Assessment
- Set the goal for each and every student
- Evaluation once in three months





- ADL training (Activities of daily living)
- IEP (Individualized Education Program)
- Group teaching
- Functional academic skills for children with special needs
- Academic remediation program for children with learning disability
- To develop fine and gross motor activities in children
- Tour and picnic programs
- Vocational training
- Awareness program for the parents
- Open house for the parents

- Special training for the students from various universities
- Internship training

7971 special education sessions were offered by the Special Education School in 2021-22 is

Other activities of the Special Education School in 2021-22 were,

- Awareness program for parents
- Three open house programs for parents
- A special training program for students from outside universities and institutions
- Internship training for one student



Pharmacy

FACULTY

Ms. Athira A.B.

Pharmacist

Ms. Smitha K.K.

Pharmacy Assistant

ICCONS has a well-maintained pharmacy. Drugs are dispensed by a registered pharmacist. In 2021-22, drugs worth ₹ 6,81,370 was purchased by the pharmacy. The income from selling drugs during this period was ₹ 10,56,220.





Library and Computer Lab

FACULTY

Ambikadevi K.P.

Library Assistant

The library has **>1,100 books** in diverse subjects such as, Neurology, General Medicine, Pediatrics, Anatomy, ENT, Physiology, Pathology, Psychiatry, Audiology, Speech and Language, Psychology, Biochemistry, Genetics, and Statistics. Journals, magazines, periodicals, and other study material (manuals, dissertation, etc.) are also available. More than **50 journals** (print form and e-journals) are available in various disciplines such as, Audiology, Speech and Language, Hearing Research, Disability Management and Special Education, and Psychology.

The **computer lab** has three desktop computers equipped with high-speed internet that can be accessed by the staff and students.





Hospital Staff

Ms. Sheeja K.	:	Nursing Assistant
Ms. Sindhu C.	:	Nursing Assistant
Ms. Rugmini P.	:	Nursing Assistant
Ms. Indu J.	:	Dietitian
Ms. Priya K.S.	:	EEG Technician
Mr. Rajesh U.K.	:	Neuro-electrophysiologist
Ms. Linsha N.	:	Radiographer
Ms. Anitha V.A.	:	Medical Record Assistant
Ms. Ambika Aravindakshan	:	Ward Assistant
Ms. Jaya K.T.	:	Ward Assistant
Mr. Suresh M.C.	:	Ward Assistant
Mr. Madhavan T.	:	Ward Assistant
Mr. Jayarajan P.M.	:	Ward Assistant
Mr. Gokulavasan K.	:	Ward Assistant
Ms. Nisha T.K.	:	Ward Assistant
Mr. Shahid KoyaThangal V.P.	:	Ward Assistant
Mr. Manikantan P.K.	:	Ward Assistant
Ms. Jayasree V.	:	Ward Assistant
Mr. Nishad T.T.	:	Ward Assistant
Ms. Bindu A.V.	:	Ward Assistant
Ms. Thilakam Vasudevan	:	Ward Assistant
Mr. Ajithkumar A.	:	Ward Assistant
Ms. Deepika Chandran	:	Ward Assistant
Ms. Jyothi K.	:	Ward Assistant
Mr. Gopalakrishnan	:	Ward Assistant
Ms. Rajee P.	:	Ward Assistant
Mr. Santhosh Kumar V.V.	:	Ward Assistant
Mr. Unnikrishnan N.P.	:	Ward Assistant
Mr. Sabareesh O.	:	Ward Assistant
Ms. Sumithra M.	:	Ward Assistant
Ms. Bindu T.M.	:	Ward Assistant
Mr. Udayasankar M.	:	Ward Assistant
Mr. Shibu M.P.	:	Ward Assistant
Mr. Venugopalan C.K.	:	Ward Assistant



Non Academic Staff

Mr. Sasidharan P.	:	Public Relations Officer
Ms. Geetha S. Nair	:	Data Entry Operator
Ms. Sreedevi V.	:	Clerk
Mr. Lajeesh M.	:	Accounts Assistant
Ms. Sudha R.	:	Computer Programmer, Trainee
Mr. Kiran K.C.	:	Site Engineer
Ms. Deepa M	:	Receptionist
Ms. Asha V.M.	:	Reception Trainee
Ms. Kavitha K.	:	Attender Reception
Ms. SosammaSoman	:	Hostel Warden
Mr. Sajeev P	:	Electrical Supervisor
Mr. Karun Kumar B	:	Plumber cum Electrician
Mr. Jagadheesan M	:	Electrician
Mr. Ajithkumar C	:	Electrician-Trainee
Mr. K. Jayan	:	Driver
Mr. Krishnaprakash C	:	Driver
Mr. Radhakrishnan K.M	:	General Worker
Ms. Vasanthi P	:	Mess staff
Ms. Rajitha N.P	:	Mess staff
Ms. Vijayalakshmi P	:	Mess staff
Ms. Shaji K	:	Mess staff
Ms. Sheeja P	:	Mess staff
Ms. Ramla T.M	:	Cleaner
Ms. Nirmala P	:	Cleaner
Ms. Sheela K	:	Cleaner
Ms. Usha Kumari K	:	Cleaner
Ms. Sindhu P	:	Cleaner
Ms. Prajitha A	:	Cleaner
Ms. Prameela V	:	Cleaner
Ms. PrameelaV.P	:	Cleaner
Ms. Vasantha K	:	Cleaner
Ms. Suma O	:	Cleaner
Ms. Valasala N.P	:	Cleaner
Ms. Suseela M	:	Cleaner
Ms. Sheeja U.C	:	Cleaner
Ms. Raji K.M	:	Cleaner
Mr. Narayanadas P	:	Security
Mr. Raman A.P	:	Security
Mr. Sankunni M	:	Security
Mr. Muraleedharan C.V	:	Security
Mr. Sankara Narayanan P	:	Security
Mr. Dennis C	:	Gardener
Mr. Unnikrishnan V.P	:	Labourer



Academic Block, ICCONS Shoranur



Academic Block of ICCONS, Shoranur was inaugurated by Health and Family Welfare Minister **Smt. K K Shylaja** on 16th February 2021.



Bachelor of Audiology and Speech Language Pathology (BASLP)

ICCONS, Shoranur conducts an RCI-recognized, graduate level programs for manpower development in the field of Audiology and Speech Language Pathology. The programs have been affiliated to the Kerala University of Health Sciences (KUHS). The BASLP degree program is oriented towards training students to undertake the responsibilities of an Audiologist and Speech Language Pathologist and has been continued in ICCONS since 2001. The course shall be of 4 years including 1 academic year (10 months) of internship at various institutes across the country. Regular university examinations will be conducted at the end of each semester. The degree is awarded after successful completion of coursework and internship. The student intake for this course is 20 candidates per year. Admissions to this course is conducted by the LBS Centre for Science and Technology. As it is a self-financing course, 50% of seats are allocated as merit seats and the rest is considered as management/payment seats.

For the 17th consecutive year ICCONS' Academic Wing has repeated its history of 100% pass in BASLP exams conducted by KUHS and bagged 3rd Rank.

3rd Rank Holder (2021-2022)



Safedha N A,
Reg No: 170140047
2017-21 batch



Affiliation/ Credentials:

- Obtained continuation of affiliation for 5 academic years (2021-22 to 2025-26) from Rehabilitation Council of India
- Obtained continuation of affiliation for the academic year 2021-22 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

Research Papers

The faculties and students of ASLP department has presented scientific papers on national and international conferences/seminars.

1. Working memory in children with stuttering- 14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
2. Working memory in children with learning disability- 14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
3. 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
4. Communication impairment in progressive supranuclear palsy- single case study-14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
5. Speech, language and communication issues in SturgeWeber Syndrome with the aid of a single case-14th ISHA KSB annual conference held at Pathanamthitta on 02.07.2022 & 03.07.2022
6. "Speech and Language Acquisition in Children with Cleft Lip and Palate"- Clubfoot International Conference hosted by Department of Health and Family Welfare, Govt of Kerala on 6th December 2021

Hostel

Fully furnished and well Maintained hostel facilities are available for female students. The current inmate strength is 28 .

Committees

Committees which are mandatory as per Supreme Court, UGC, KUHS guidelines The smooth functioning of the activities of the campus is ensured and monitored through various committees under the chairmanship of the Director of ICCONS. The various committees are

- ◇ College Council
- ◇ Academic Monitoring cell
- ◇ Student's union
- ◇ Students support and guidance cell
- ◇ Anti-ragging committee
- ◇ PTA executive committee.
- ◇ "Sradha and Nerkkootam" against drug abuse



Internship & Observership Programs

Internship and Observership training programs are conducted for post graduate, post graduated and sponsored candidates in the following disciplines

- Clinical / Rehabilitation Psychology
- Speech and Language Pathology
- Biotechnology and Genetics
- Physiotherapy
- Special Education
- Clinical Linguistics

The details are provided in our website

Internship Training during 2021-22 at ICCONS, Thiruvananthapuram

- ◇ Internship training conducted for Diploma in Management of Learning Disabilities/ M.Sc Psychology students:
- ◇ Batch 1: 15 students of Diploma in Management of Learning Disabilities, conducted by State Resource Centre, Community College, Trivandrum offered internship with rotational postings in all the 6 Departments of ICCONS, Trivandrum, in three batches, each with 3 days of exposure.
- ◇ Batch 2: 12 M.Sc Psychology students from K.E. College Mannanam, Kottayam, from 3rd to 20th January 2022 at Trivandrum, ICCONS were trained for a period of 3 weeks, with rotational postings in all Departments of ICCONS.
- ◇ Internship training to BASLP students, ICCONS, Shoranur
- ◇ Internship training to Field work posting of MSW students of IGNOU
- ◇ Internship training to M.Sc student of SDM College, Ujire
- ◇ Internship training to M.Sc students of University College, Thiruvananthapuram
- ◇ Internship training to M.Sc students of Dept of Applied Psychology, Central University, Pondicherry.



Internship Training during 2021-22 at ICCONS, Shoranur

Dept. of Geneticshad given

- ◇ Internship training to MSc student of Vimala College, Thrissur
- ◇ Internship training to MSc students of Central University of Kerala, Kasaragod
- ◇ Internship training to M.Sc students of Sree Narayana Guru College Coimbatore

- ◇ Internship training to M.Sc student of MES Keveeyam College , Valanchery
- ◇ Internship training to B.Sc students of Sree Narayana Guru College Coimbatore
- ◇ Dept. of Clinical Psychology had given Observership programs to MA/MSc Psychology completed students
- ◇ State Resource Centre (SRC), Kerala internship program held at ICCONS Shoranur



Publications

1. Thomas SV, Salim S, Jacob NS, Jose M, Salini RA, Selvaraj S, Gomez TS, Sreedharan H, Jeemon P. Language, intelligence, and educational outcomes of adolescents with antenatal exposure to antiseizure medications: Prospective data from the Kerala Registry of epilepsy and pregnancy. *Seizure*. 2022 Aug;100:76-81. doi: 10.1016/j.seizure.2022.06.005. Epub 2022 Jun 17. PMID: 35780605.
2. Chandrasekharan SV, Menon RN, Nanda S, Nair JS, Radhakrishnan A, Cherian A, Thomas SV. Does Etiology and Hypsarrhythmia Subtype Influence Outcome in West Syndrome? Challenges Encountered from a Referral Center Perspective. *Neurol India*. 2022 Jan-Feb;70(1):188-196. doi: 10.4103/0028-3886.336325. PMID: 35263882.
3. Menon RN, Nambiar PN, Keni RR, Baishya J, Radhakrishnan A, Cherian A, Nampoothiri S, Madhavalatha GK, Kotecha UH, Thomas SV. Drug-resistant 'Non- Lesional' Visual Sensitive Epilepsies of Childhood - Electroclinical Phenotype- Genotype Associations. *Neurol India*. 2021 Nov-Dec;69(6):1701-1705. doi: 10.4103/0028-3886.333508. PMID: 34979672.
4. Rudrabhatla PK, Reghukumar A, Thomas SV. Mucormycosis in COVID-19 patients: predisposing factors, prevention and management. *Acta Neurol Belg*. 2022 Apr;122(2):273-280. doi: 10.1007/s13760-021-01840-w. Epub 2021 Nov 24. PMID: 34820787; PMCID: PMC8612391.
5. Thomas SV, Jeemon P, Pillai R, Jose M, Lalithakumari AM, Murali S, Sanalkumar A, Salini RA, Pavithran V. Malformation risk of new anti-epileptic drugs in women with epilepsy; observational data from the Kerala registry of epilepsy and pregnancy (KREP). *Seizure*. 2021 Dec;93:127-132. doi: 10.1016/j.seizure.2021.10.015. Epub 2021 Oct 23. PMID: 34740142.
6. Asranna A, Thomas SV. Metabolic Effects of Anti-Seizure Medications: A Time to Reevaluate Risks? *Neurol India*. 2021 Jul-Aug;69(4):964-965. doi: 10.4103/0028-3886.325336. PMID: 34507422.
7. Baishya J, Menon RN, Ravish Keni R, Saraf UU, Varma RP, Radhakrishnan A, Cherian A, Thomas SV. Can occurrence of convulsive status epilepticus during video telemetry be predicted? Observations from an epilepsy monitoring unit. *Epilepsy Behav*. 2021 Oct;123:108252. doi: 10.1016/j.yebeh.2021.108252. Epub 2021 Aug 23. PMID: 34438130.
8. Seshachala BB, Jose M, Lathikakumari AM, Murali S, Kumar AS, Thomas SV. Valproate usage in pregnancy: An audit from the Kerala Registry of Epilepsy and Pregnancy. *Epilepsia*. 2021 May;62(5):1141-1147. doi: 10.1111/epi.16882. Epub 2021 Mar 29. PMID: 33782943.
9. Anitha A, Poovathinal SA, Viswambharan V, Thanseem I, Iype M, Anoop U, et al. MECP2 Mutations in the Rett Syndrome Patients from South India. *Neurol India* 2022;70:249-53



10. Swetha Damodharan ,Mary lype ,Ayyappan Anitha. Neurodevelopmental genes in photoparoxysmal EEG response. In the conference proceedings of 8th Annual Conference of Cognitive Science (ACCS8)
11. Dr. Nandini Jayachandran, Dr. Immanuel Thomas, Dr. Mary lype, Dr. Suresh P.A. and Sneha Sebastian Cultural Adaptation of M-CHAT R/F Malayalam version In the conference proceedings of 8th Annual Conference of Cognitive Science (ACCS8)
12. Mary lype,Mithran OS,AnithaAyyappan, Mathewlype "Congenital Muscular Dystrophy Due to POMGNT1 Mutation Presenting As Cardio-embolic Stroke AIAN 2022;25(3):551-3."DOI:10.4103/aian.aian_944_21
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14. Ayyappan A, Thanseem Mohammed, Moinak Banerjee, Nisha Melempatt, Anil Prakash, MuhasinParapurathu, Mary lype." Comprehensive Genetic Study of a Monozygotic Triplet Discordant for Autism Spectrum Disorder", Accepted for publication in Neurology India
15. 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.
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17. lype M, Mithran OS, Anitha A, lype M. Congenital muscular dystrophy due to POMGNT1 mutation presenting as cardioembolic stroke - A case report. *Ann Ind Acad Neurol*. DOI: 10.4103/aian.aian_944_21.
18. 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.
19. Anitha A, Poovathinal SA, Viswambharan V, Thanseem I, lype 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.
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21. Anitha A, Viswambharan V, Thanseem I, Parakkal R, Sumitha PS, Vasu MM (2021) Vitamins and cognition: A nutrigenomics perspective. *Curr Nutr Food Sci*. 17:348-362.
22. Lohithakshan, N.M (2021). An Overview on Learning Disability. In *Ayurveda Physician MasikaGoldern Jubilee Special Edition 2021*.
23. Varghese M, Rani S, Nair AK. The role of working memory as a significant determinant of academic performance. *Santosh Univ J Health Sci* 2021;7:34-7.



Accounts

ICCONS is funded by Budget allocation provided by the Government of Kerala in the form of Grant-in-aid. The grant-in-aid is allocated based on the plan proposals prepared by the Director and Non plan fund is allocated for the provision of salary of employees. Budget allocation during the year 2021-22 was 500 lakhs of which an amount of Rs.276.67 lakhs was received from the Government as Plan fund. Non plan fund allocation during 2021-22 was Rs.452.44 lakhs and was received during the year. In addition to the Grant from the government, academic fee (from ICCONS, Shoranur) and fee from clinical services are other sources of revenue. The Chartered Accountants appointed by the Governing Body, conduct audit of annual accounts every year. Besides the accounts and transactions are subject to audit by the Accountant General (Audit).

Details of Plan and Non Plan Fund for the Year 2021-22

Plan Fund

Total Budget Provision (Rs.in lakhs)	Amount Released (Rs.in lakhs)	Total Expenditure (Rs.in lakhs)
500	276.67	247.03

Non Plan

Total Budget Provision (Rs.in lakhs)	Additional Authorization (Rs.in lakhs)	Total Non Plan Fund (Rs.in lakhs)	Total Expenditure (Rs.in lakhs)
222.51	229.93	452.44	452.44

Plan Fund Utilization

ICCONS Thiruvananthapuram

- Boundary disputes settled and constructed compound wall, gate and Institute Name Board
- Construction of Internal Road from Gate to Hospital
- Maintenance and painting work of hospital building and school building
- Setting up a Video Conference hall and board room
- Purchased and installed Video EEG, EMG machine with software
- Installed 100 KVA Generator



- Installed Attendance Monitoring System and distributed ID cards to employees
- Sufficient firefighting devices are installed in different parts of the hospital building and in special school building
- Name and direction board has been installed in different spots within 3 km.
- Crash Cart, Ambu bag, glucometer, digital BP Recorder, Tympanometer, ophthalmoscope, spirometer, defibrillator, wheel chair etc. added in the OP services
- Dr. Speech :Software for Speech and Voice Therapy
- CARS 2 : Childhood Autism Rating Scale Second Edition (CARS-2) that is appropriate for children over age 2 and draws from observations on different areas of behaviour associated with ASDs
- Binet Kamat Test (BKT) of Intelligence
- Treatment manual in English for Indian children with Dyslexia
- Bedside screening test for persons with aphasia – Malayalam
- Dyslexia Assessment Profile for Indian children (DAPIC)
- Pragmatic Skill Building Advanced Kit
- Intervention manual for pre-schoolers Augmentative and Alternative communication
- Visual kit : to improve vocabulary skills and to enhance language
- Physiotherapy equipment like :
 - ◊ Rowing machine
 - ◊ Shoulder abduction ladder
 - ◊ Ankle exerciser
 - ◊ Pediatric Walker

- ◊ CP Walker
- ◊ Depth perception peg board
- ◊ Peg board
- ◊ Ultrasound
- ◊ TENS
- ◊ Rolling stool
- ◊ Trampoline

ICCONS Shoranur

- Maintenance works of the old hospital building was done and converted 12 rooms as pay wards
- Purchased emergency hospital equipment
- Arranged 6 stroke ward beds
- Arranged ventilator ICU & centralized oxygen supply
- Installed Attendance Monitoring System and distributed ID cards to employees
- Purchased essential equipment for Physiotherapy Dept.
- Purchased essential equipment for BASLP courses
- Purchased test materials for Psychology Department.
- Maintenance works were executed to 3 buildings at the Ullattuthodiyil campus
- Necessary equipment was installed to reduce loss of transmission in power as directed by the KSEB & Electrical Inspectorate
- Drinking water facility connection is installed from KWA
- Front Gate and compound wall widening works were done as per the Fire and Rescue rules
- Installed 250 KVA Generator at ICCONS Shoranur

**SOCIETY FOR COGNITIVE AND COMMUNICATIVE DISORDERS (SRCCD)****Balance Sheet as on March 2022**

LIABILITIES	Sch	AMOUNT	ASSETS	Sch	AMOUNT
General Fund			Fixed Assets:	E	14,76,59,477.73
As per last balancesheet		4,98,15,951.19	Capital Work In Progress		
Less: Excess of Expenditure over Income		47,48,240.65	Compound Wall (TVPM)		37,34,909.00
Specific Grant			Bulding Under Constructions (SRR)		10,64,57,272.83
As per Schedule	A	21,80,24,506.00	Compound Wall (SRR)		3,69,520.00
Capital Grant from DST	B	32,81,012.00	Current Assets:		
Capital Grant from MP Fund	C	8,48,587.00	Deposits		5,05,048.00
Capital Grant from CSR Fund - Navigant Technology	D	1,23,932.00	Advances		26,13,217.73
Capital Reserve	F	2,00,000.00	Sundry Debtors		47,29,082.00
Current Liabilities:			Inventory		2,07,926.70
Sundry Creditors			Cash & Bank Balances	G	1,65,85,372.83
KSCSTE-Project Salary		6,917.00			
For Capital Goods		8,39,442.00			
For Expenses		62,22,161.20			
For Other Finance		82,47,559.08			
		28,28,61,826.82			28,28,61,826.82

Date: 30th September 2022

Place: Thiruvananthapuram

Vide our report of even date



SOCIETY FOR COGNITIVE AND COMMUNICATIVE DISORDERS (SRCCD)

Income and Expenditure account for the year ended 31.03.2022

EXPENDITURE		AMOUNT	INCOME		AMOUNT
To	Opening Stock	2,52,818.12	By	Students Fee Collection	92,64,757.00
"	Salaries & Allowances	4,50,82,350.00	"	Hospital Collection	89,61,277.00
"	Pharmacy Expenses	7,24,517.00	"	Grant from GOVT.Health.Dept (Non-	4,52,44,000.00
"	Lab Expenses	3,29,333.00	"	Donation Received	5,000.00
"	IP Ward Expenses	1,58,433.00	"	Other income	3,14,683.00
"	Electricity Charges	16,99,577.00	"	VRITHIKA Project Receipts	50,000.00
"	Repairs & Maintenance	38,84,192.00	"	SERB Project Receipt	5,00,000.00
"	Mess Expenses	10,31,377.00	"	KSCSTE Project Receipts	16,52,643.00
"	Printing & Stationary.	2,07,718.00	"	ICMR Project Receipts	3,42,145.00
"	Travelling Expenses	2,01,919.00	"	Overhead Income From SERB	45,500.00
"	Course Expense	36,000.00	"	Overhead Income From CSRI - DST	86,000.00
"	Rates and Taxes	2,85,908.00	"	Overhead Income From ICMR	24,768.00
"	Postage & Telegram	16,194.00	"	Overhead Income From KSCSTE	11,000.00
"	DST Project Expenses	1,13,644.00	"	Depreciation Reversed	6,80,689.00
"	KSCSTE Project Expenses	57,890.00	"	Closing Stock	2,07,926.70
"	SERB Project Expenses	7,62,778.00			
"	ICMR Project Expenses	4,76,265.00			
"	K DISC - Project Expense	44,625.00	"	Excess of Expenditure over Income	47,48,240.65
"	CRE Project Expense	10,800.00			
"	CSRI Project Expenses	14,69,451.75			
"	VRITHIKA Project Expenses	42,500.00			
"	YIPB Project Expenses	11,000.00			
"	Training Materials	2,39,968.00			
"	Vehicle Oper.& Maint.	3,90,922.00			
"	Power & fuel	94,067.00			
"	Insurance Charge	42,662.00			
"	Prior Period Expenses	5,77,498.95			
"	Water Charges	4,200.00			
"	Rent	1,50,000.00			
"	Advertisement & Publicity	43,911.00			
"	Telephone and Lease Line Charges	1,84,858.00			
"	Professional Charges	1,25,850.00			
"	Audit Fee	41,300.00			
"	Staff Welfare Expenses	4,639.00			
"	Special School Expense	10,721.00			
"	Accommodation Expense	61,759.00			
"	Newspaper & Periodicals	9,518.00			
"	EEG/ENT/ECG -Expenses	2,842.00			
"	Other Expenses	39,09,352.53			
"	Depreciation during the year	93,45,271.00			
	TOTAL	7,21,38,629.35		TOTAL	7,21,38,629.35

Date: 30th September 2022

Place: Thiruvananthapuram

Vide our report of even date

**SOCIETY FOR COGNITIVE AND COMMUNICATIVE DISORDERS (SRCCD)****Sch E: DEPRECIATION STATEMENT FOR THE PERIOD FROM 01-04-2021 TO 31-03-2022**

Particulars	W.D.V. as on		Additons During the Year		TOTAL	Rate	Depreciation	W.D.V. as on 31.03.2022	Depreciation Reversed
	01.04.2021		More Than 180 days	Less than 180 Days					
Land	2,65,06,199.00	-	-	-	2,65,06,199.00	0	-	2,65,06,199.00	-
Attendance System	-	-	-	1,00,960.00	1,00,960.00	15	7,572.00	93,388.00	-
Building	9,01,62,628.19	-	-	-	9,01,62,628.19	5	45,08,131.00	8,56,54,497.19	-
Construction - Compound Wall	17,15,178.00	-	-	-	17,15,178.00	5	85,759.00	16,29,419.00	-
Furniture & Equipments	46,41,653.18	12,652.00	12,652.00	28,24,599.00	74,78,904.18	10	6,06,660.00	68,72,244.18	-
Electrical Equipment	6,23,900.18	21,598.00	21,598.00	38,78,066.00	45,23,564.18	15	3,87,680.00	41,35,884.18	-
CCTV System	19,753.00	-	-	-	19,753.00	15	2,963.00	16,790.00	-
LCD Projector and Equipments	-	-	-	92,874.00	92,874.00	15	6,966.00	85,908.00	-
Cycle	407.00	-	-	-	407.00	15	61.00	346.00	-
Ceiling Fan	-	-	-	11,120.00	11,120.00	15	834.00	10,286.00	-
Hospital equipments	61,78,924.00	-	-	1,97,418.00	63,76,342.00	15	9,41,645.00	54,34,697.00	-
Mobile phone	6,187.00	-	-	-	6,187.00	15	928.00	5,259.00	-
Physiotherapy equipments	1,39,393.00	-	-	-	1,39,393.00	15	20,909.00	1,18,484.00	-
Computer	1,26,859.00	-	-	2,54,709.29	3,81,568.29	40	1,01,685.00	2,79,883.29	-
CT Scanner	7,17,609.00	-	-	-	7,17,609.00	40	2,87,044.00	4,30,565.00	-
Library	15,647.00	-	-	14,533.00	30,180.00	40	9,165.00	21,015.00	-
Medical equipment	70,39,051.00	-	-	53,05,322.00	1,23,44,373.00	15	14,53,757.00	1,08,90,616.00	-
Training Equipment	82,322.47	-	-	-	82,322.47	15	12,348.00	69,974.47	-
Weghing Machine	1,679.22	-	-	-	1,679.22	15	252.00	1,427.22	-
X-RAY View Machine	556.00	-	-	-	556.00	15	83.00	473.00	-
Book Binding Machine	25,540.00	-	-	-	25,540.00	15	3,831.00	21,709.00	-
Software	379.00	-	-	-	379.00	40	152.00	227.00	-
Refrigerator	-	-	-	79,790.00	79,790.00	15	5,984.00	73,806.00	-



Printer	3,334.00		54,044.00	40	11,476.00	42,568.00	
Bus	2,36,223.00		2,36,223.00	15	35,433.00	2,00,790.00	
Air Conditioner	4,71,453.00		4,71,453.00	15	70,718.00	4,00,735.00	
Jeep	12,197.00		12,197.00	15	1,830.00	10,367.00	
Generator	27,564.00		27,564.00	15	4,135.00	23,429.00	
Vending Machine	6,803.00		6,803.00	15	1,020.00	5,783.00	
Bore Well	36,924.00		36,924.00	15	5,539.00	31,385.00	
EEG MACHINE	4,11,680.00		4,11,680.00	15	61,752.00	3,49,928.00	
Washing Machine	-	-	42,900.00	15	3,218.00	39,682.00	-
P A System	-	-	1,48,778.00	15	11,158.00	1,37,620.00	-
Projector	-	-	64,530.00	15	4,840.00	59,690.00	-
Inverter	-	-	1,20,718.00	15	9,054.00	1,11,664.00	-
<u>DST ASSETS & EQUIPMENTS</u>							
ADOS - DST project	81,688.00		81,688.00	15	12,253.00	69,435.00	12,253.00
Antivirus- DST project	754.00		754.00	15	113.00	641.00	113.00
ECR kit- DST project	15,563.00		15,563.00	15	2,334.00	13,229.00	2,334.00
PEP-DST project	22,090.00		22,090.00	15	3,314.00	18,776.00	3,314.00
LAPTOP- DST project	6,956.00		6,956.00	40	2,782.00	4,174.00	2,782.00
EEG MACHINE	23,36,964.00		23,36,964.00	15	3,50,545.00	19,86,419.00	3,50,545.00
Furniture & Fixtures	6,648.00		6,648.00	10	665.00	5,983.00	665.00
<u>SERB Project ASSETS & EQUIPMENTS</u>							
PCR Machine	9,73,932.00		9,73,932.00	15	1,46,090.00	8,27,842.00	1,46,090.00
<u>CSR Navigant Technology</u>							
Furniture & Fittings	1,34,632.00		1,34,632.00	10	13,463.00	1,21,169.00	13,463.00
<u>MP Fund</u>							
School Bus	9,94,201.20		9,94,201.20	15	1,49,130.00	8,45,071.20	1,49,130.00
TOTAL	14,37,83,471.44	34,250.00	1,31,87,027.29		93,45,271.00	14,76,59,477.73	6,80,689.00

Date: 30th September 2022

Place: Thiruvananthapuram



ANNUAL REPORT COMPILATION TEAM MEMBERS (2021-2022)

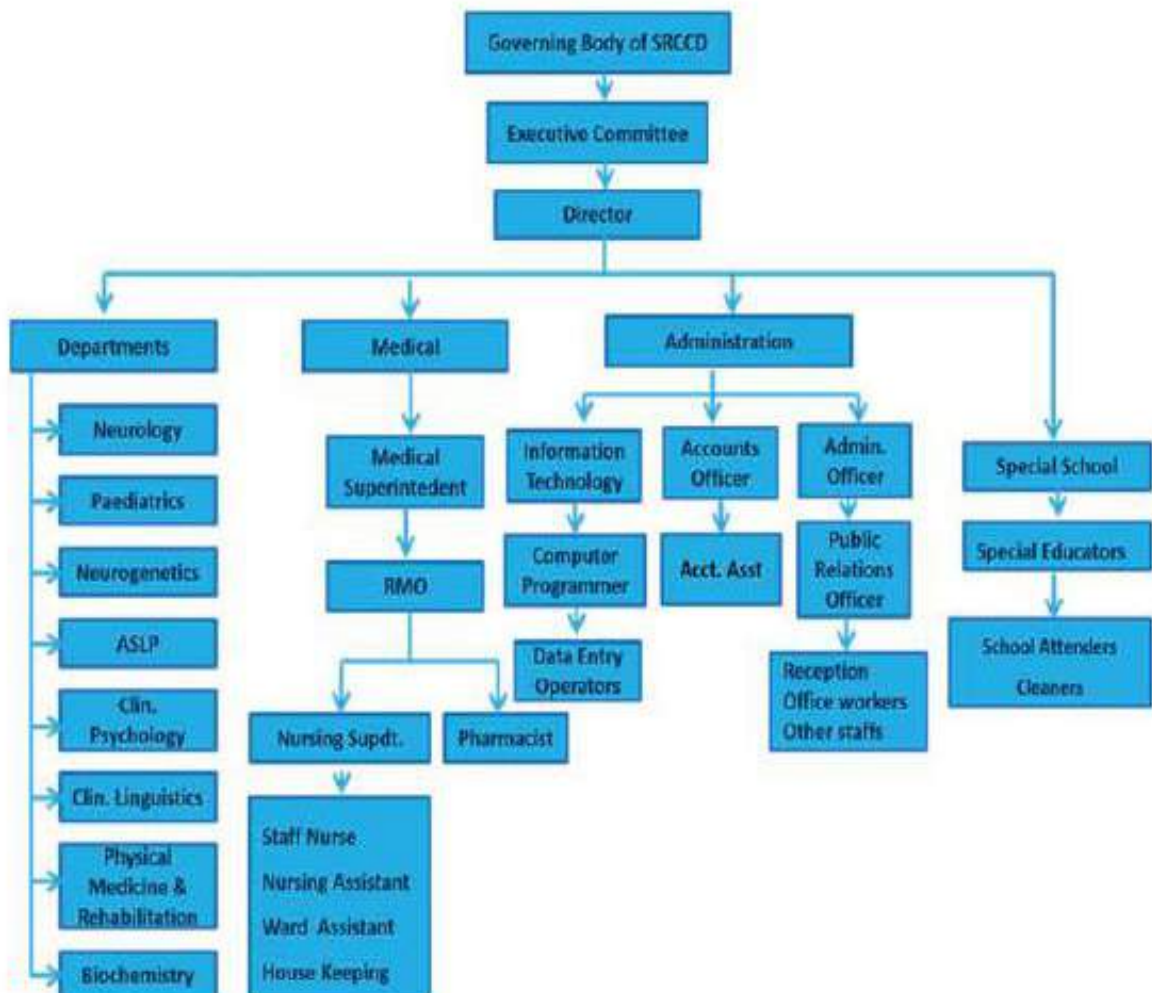
Mr. Sreekumar S (Lecturer, Dept. of Clinical Psychology, ICCONS, Thiruvananthapuram)

Dr. Anitha Ayyappan Pillai, Asst. Professor, Dept. of Neuro Genetics, ICCONS, Shoranur

Ms. Beeja A R, Computer Programmer, ICCONS, Thiruvananthapuram

ICCONS' Organisation Structure

ICCONS is an autonomous Institution under the Health Department of the Government of Kerala. The governance of ICCONS is through the Governing Body and Executive Committee. The Governing Body meets once in a year and the Executive Committee meets once in every six months or as and when required. The Director is the head of the institution.





INSTITUTE FOR COMUNICATIVE AND COGNITIVE NEUROSCIENCES (ICONS)
 Pulayanarkotta, Medical College P O ,Thiruvananthapuram – 695011&
 Kavalappara, Shoranur, Palakkad - 679523KERALA, INDIA