**RESEARCH**

The institute promotes research related to communication and its disorders. Special emphasis is given to clinically relevant applied research on causes, control and prevention of communication disorders, assessment and treatment issues as well as the testing and refinement of new technologies for the speech and hearing impairment. Major research activities carried out at the institute during the reporting year are given below.

**Funded Research Projects**

The research projects include extramural and those funded by the institute from the AIISH Research Fund (ARF). Extramural research projects were funded by the Government of India funding agencies, the Department of Science and Technology (DST), Department of Bio Technology (DBT), Indian Council of Medical Research (ICMR), the University Grants Commission (UGC) and the Ministry of Human Resource Development (MHRD), Government of India, New Delhi.

**Completed Projects**

Twenty research projects worth Rs. **251.88 lakhs** were successfully completed during the reporting year. Of these, six projects worth **Rs. 177.73** were funded by extramural funding agencies and the remaining by the insitute

**Extramural Research**

1. Association of psycho-social & communicative behavior related to genes in children with ASD in an Indian population. Investigator: Dr. Shyamala, K.C. Funding: Indian Council of Medical Research. Amount: Rs. 8.01 lakhs.
2. Development of battery for cognitive communication–kannada (BCC-K). Investigators: Dr. S.P. Goswami, Mr. Varun Uthappa, A.G., Dr. Murali Krishnan & Dr. Julie A. Hengst. Funding: Indian Council of Medical Research. Amount: Rs. 25.62 lakhs.
3. Efficacy of early language intervention for children with cleft palate. Investigators: Dr. M. Pushpavathi. Funding: Department of Science and Technology. Amount: Rs. 43.20 lakhs.
4. Elucidation & validation of the burden of DNA variations in autism spectrum disorders to assess the impact on the genetic pathways. Investigators: Dr. Ramachandra Rao., Dr. P. Prakash & Dr. Shyamala, K.C. Funding: UGC. Amount: Rs. 15.76 lakhs.
5. Nasospeech: Development of diagnostic system for severity assessment of the disordered speech. Investigators: Prof. Ajish K Abraham, Dr. M Pushpavathi & Dr. H.V. Sathish. Funding: Dept of Biotechnology, GOI. Amount: Rs. 59.69 lakhs.
6. Tracing the evidence of phonological dyslexia in semi-syllabic orthography. Investigators: Dr. Rajashekar, B., Mr. Gopee Krishnan, Ms. Shivani Tiwari, & Dr. Shyamala, K.C., Funding: Department of Science and Technology. Amount: Rs. 25.45 lakhs.

**AIISH Funded Research**

1. Computer based audiological evaluation software. Investigators: Dr. Hemanth N. & Dr. Manjula P. Funding: AIISH Funded Research. Amount: 8.74 lakhs.
2. Contributory factors of hearing handicap in individuals with Sensorineural Hearing loss and Auditory Neuropathy Spectrum Disorder (ANSD). Investigators: Dr. Ajith Kumar U. & Dr. Hemanth N. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
3. Development of auditory based applications software for tinnitus treatment. Investigators: Dr. Hemanth N. & Dr. Ajith Kumar U. Funding: AIISH Funded Research. Amount: 8.53 lakhs.
4. Effect of Canal Widening (Type I Tympanoplasty) on hearing sensitivity. Investigators: Dr. T.K Prakash, Dr. H. Sundara Raju & Ms. Devi N. Funding: AIISH Funded Research. Amount: 4.99 lakhs.
5. Effectiveness of CBAT in children with CAPD – Evidences from electrophysiology study. Investigators: Dr. Prawin Kumar. Funding: AIISH Funded Research. Amount: 4.03 lakhs.
6. Estimation of parental consanguinity in children with communication disorders. Investigators: Mr. Sreeraj K & Dr. Jijo P.M, Ms. Sandhya K & Ms. Rashmi Pujar. Funding: AIISH Funded Research. Amount: 5.14 lakhs.
7. Factors affecting cocktail-party listening in normal hearing listeners. Investigators: Ms. Chandni Jain & Mr. Vikas M.D. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
8. Frequency of occurrence of phonemes in Hindi. Investigators: Dr. N. Sreedevi & Ms. Irfana M. Funding: AIISH Funded Research. Amount: 4.98 lakhs.
9. Motor equivalence and speech kinematics in normal and pathological speech production. Investigators: Ms. Irfana M., Dr. NVSNM Ganesh Sinisetty & Dr. N. Sreedevi. Funding: AIISH Funded Research. Amount: 4.98 lakhs.
10. Phonological encoding in bilingual adults with stuttering. Investigators: Dr. Sangeetha M., Funding: AIISH Funded Research. Amount: 4.98 lakhs.
11. Prevalence and risk factors of voice problems and knowledge of vocal health in professional Carnatic singers and non-singers. Investigators: Dr. Usha Devdas &Dr. Santhosh M. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
12. Sequel of auditory dys-synchrony on speech Production. Investigators: Ms. Priya M.B. & Dr. Sandeep M. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
13. Utility of acoustic change complex as an objective tool to examine DLI in healthy individuals and individuals with Auditory Processing Disorders. Investigators: Dr. Prawin Kumar, Dr. Niraj Kumar Singh & Dr. Ganapathy M.K. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
14. Validation of Discourse Analysis Scale in Adults with Dementia. Investigators: Dr. Hema N., Funding: AIISH Funded Research. Amount: 4.93 lakhs.

**Ongoing Projects**

Ninty-two research projects worth ***Rs. 897.16 lakhs*** were ongoing in different departments of the Institute during the reporting year. Of these, ten projects worth ***Rs. 492.27 lakhs*** were funded by extramural funding agencies and the remaining eighty-two projects by the Institute

**Extramural Research**

1. Articulate +: A system for automated assessment and rehabilitation of persons with articulation disorders. Investigators: Dr. Ajish K. Abraham, Dr. M. Pushpavathi & Dr. N. Sreedevi. Funding: Ministry of Human Resource Development & Indian Council of Medical Research. Amount: 1.37 crore.
2. Auditory processing and auditory cognitive measures in carriers of mutated genes that cause hearing loss. Investigators: Dr. Sandeep M., & Dr. Santosh M. Funding: Department of Science and Technology. Amount: 47.52 lakhs.
3. Auditory and cognitive consequences of dys-synchronous auditory nerve activity. Investigators: Dr. Ajith Kumar U & Dr. Sandeep M. Funding: Department of Science and Technology. Amount: 44 lakhs.
4. *Cognitive Stimulation Therapy (CST) for dementia: International implementation in Brazil, India and Tanzania (CST-International). Investigators: Dr. Mina Chandra, Dr. Smita Deshpande, Dr. Sridhar Vaitheswaran, Dr. Murali Krishna & Dr. S.P Goswami. Funding: Global Allowance for Chronic Disease (GACD) & ICMR, New Delhi. Amount: Yet to be released.*
5. Efficacy of computer based training module on auditory and cognitive skills in children with CAPD. Investigators: Dr. Prawin Kumar & Dr. Niraj Kumar Singh. Funding: Department of Science and Technology. Amount: 28.49 lakhs.
6. FMRI & ERP evidence for improvement in audio-visual integration in individuals with ANSD post speech reading training. Investigators: Dr. K. Rajalakshmi & Dr. Arun Kumar Gupta. Funding: Department of Science and Technology. Amount: 35.29 lakhs.
7. *Improving diagnosis and access to health care services for persons with dementia using android based applications by community health workers. Investigators: Dr. Mina Chandra, Dr. Smita N Deshpande, Dr. Murali Krishnan, Dr. S.P. Goswami, Dr. K S Shaji, Dr. Charan Singh, & Dr. Bhagyashree Raghavan. Funding: Department of Science & Technology. Amount: 1.04 crore (sanctioned, yet to be released)*
8. Neuroaudiological profiling of Children with Specific Language Impairment. Dr. Animesh Barman, Dr. Swapna N & Dr. Prashanth Prabhu. Funding: Department of Science and Technology. Amount: 33.88 lakhs.
9. SENSE-COG Asia: An open label feasibility study of a supportive hearing intervention in dementia. Investigators: Dr. IracemaLerol, Dr. Nusrat Husain, Dr. S.P Goswami & Dr. Murali Krishna. Funding: *Department of Science and Technology*. Amount: 28.94 lakhs.
10. SERB: Development and Validation of RoAS (Robot for Articulatory Simulation). Investigators: Dr. Ajish K Abraham, Mr. Manohar, Dr. Swapna N. and Ms. Renuka C. Funding: Core Research Grant. Amount: 32.27 lakhs.

**AIISH Funded Research**

1. A Descriptive Study on the Video-Fluroscopic Measures of Neurogenic Dysphagia in Patients with Stroke and Motor Neuron Disease. Investigators: Dr. S P Goswami, Dr. Muralidharan Nair, Dr. Sylaja, Ms. Gayathri Krishnan & Ms. Manju Mohan. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
2. A pre-post comparison of vocal loading using infrared thermography in phono-normals. Investigator: Dr. R Rajasudhakar. Funding: AIISH Funded Research. Amount: 5.03 lakhs.
3. Adaptation and Validation of Vocal Fatigue Index (VFI) in Kannada. Investigator: Mr. R Rajasudhakar. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
4. An Adaptation of Bankson Language Screening Test in Hindi (BLST-H). Investigators: Dr. Brajesh Priyadarsi & Dr. S P Goswami. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
5. An Adaptation of Early Reading Skills (ERS) in Malayalam (ERS-M). Investigators: Dr. Brajesh Priyadarsi & Ms. Gayathri Krishnan. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
6. Audiological and vestibular assessment in persons with osteoporosis and osteopenia. Investigators: Dr. Prawin Kumar & Dr. Raghunandana S. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
7. Auditory Processing in Children with Speech Sound Disorders. Investigators: Dr. Chandni Jain & Ms. Priya M.B. Funding: AIISH Funded Research. Amount: 5.05 lakhs.
8. Auditory Temporal Processing in Older Adults: A Behavioural and Electrophysiological Measures. Investigators: Mr. Ganapathy M.K. Funding: AIISH Funded Research. Amount: 5.18 lakhs.
9. Automatic quantification of the glottal area in the stroboscopic videos using deep neural network. Investigators: Dr. P. Gopikishore, Mr. Rahul Krishnamurthy, Dr. Prasanta Kumar Ghosh, Dr. Suja S. & Dr. T.K Prakash. Funding: AIISH Funded Research. Amount: 9.86 lakhs.
10. Automation of Malayalam Articulation test using automatic speech recognition techniques. Investigators: Dr. Ajish K Abraham, Dr. Leena Mary & Dr. N Sreedevi. Funding: AIISH Funded Research. Amount: 5 lakhs.
11. Behavioral and Electro physiological correlates of lexical semantic activation in high and low proficient bilinguals. Investigators: Dr. Sandeep M, Dr. Abhishek B.P., Dr. Chandni Jain. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
12. Behavioral and Electrophysiological correlates (N400) of lexical and phonological access in children with stuttering. Investigators: Dr. M. Santosh & Dr. M. Sandeep. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
13. Behavioural and Electrophysiological (P300) correlates for visual and auditory process in Alzheimer’s Diseases. Investigators: Dr. Hema N. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
14. Behavioural and electrophysiological correlates (N400) of lexical access in bilingual adults with stuttering. Investigators: Dr. Santosh M & Dr. Abhishek B.P. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
15. Bithermal caloric test and video impulse test for the assessment of unilateral vestibular pathologies. Investigators: Mr. Niraj Kumar Singh & Dr. Rajeshwari G. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
16. Cognitive linguistic intervention program for children at risk for learning disability. Investigators: Dr. Jayashree C Shanbal & Mr. Hariharan V. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
17. Community-based rehabilitation for persons with communication disorders in the foothill and rural areas of dindigul district, Tamil Nadu. Investigators: Dr. Boraian M.P., Dr. Jayashree C Shanbal, Mr. S Ramakumar & Mr. Arunraj K. Funding: AIISH Funded Research. Amount: 9.25 lakhs.
18. Computerized auditory training for kannada speaking children with hearing impairment. Investigators: Mr. Manohar N, Mrs. Revathi K.R, Mr. Prashanth Prabhu P & Mr. Raghavendra G.N. Funding: AIISH Funded Research. Amount: 3.31 lakhs.
19. Construction and validation of a short version of the impact scale for assessment of cluttering and stuttering (ISACS). Investigators: Dr. Santhosh M & Dr. Pallavi Kelkar. Funding: AIISH Funded Research. Amount: 4.83 lakhs.
20. Database on communication disorders published in India. Investigators: Dr. Shijith Kumar C. Mr. Nanjunda Swamy M & Mr. Nandeesha B. Funding: AIISH Funded Research. Amount: 4.20 lakhs.
21. Design and development of e-Learning platform and faculty profile system. Investigators: Dr. Shijith Kumar C, Dr. Manohar N & Dr. Malar G. Funding: AIISH Funded Research. Amount: 4.68 lakhs.
22. Design, development and validation of open source platform for AIISH digital repository and online public access catalogue. Investigators: Dr. Shijith Kumar C, Mr. Nanjunda Swamy M, Mr. Nidheesh David Kuruvilla, Mr. Lokesh P & Mr. Raghavendra G.N. Funding: AIISH Funded Research. Amount: 3 lakhs.
23. Development of an objective tool for aphasia assessment through artificial neural networks. Investigator: Dr.S.P. Goswami, Funding: AIISH Funded Project. Amount: 4.83 lakhs.
24. Development and evaluation of indigenous curriculum oriented computer based tutor for concept learning in preschool children with special needs. Investigators: Ms. P.V Ramanakumari, Dr. Ajish K Abraham & Ms. P.V Manjula. Funding: AIISH Funded Research. Amount: 3.85 lakhs.
25. Development and standardization of an Oral Sensorimotor Evaluation Protocol for Children (OSEP-C). Investigator: Dr. N Swapna. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
26. Development and standardization of questionnaire to assess the outcome in Adult Hearing Aid Users. Investigators: Dr. K. Rajalakshmi, Ms. Mamatha N.M & Dr. Ramadevi Sreenivas K.J. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
27. Development and standardization of reading passages for children in Kannada. Investigator: Dr. Sangeetha Mahesh. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
28. Development and standardization of Western Aphasia Battery in Tamil. Investigator: Dr. Hema N. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
29. Development and Validation of a Mobile Application Tool for arithmetic concept teaching for preschoolers. Investigators: Mrs. Renuka C, Dr. Swapna N. & Ms. Lakshmi Prabha J.K. Funding: AIISH Funded Research. Amount: 7.88 lakhs.
30. Development and validation of a Screening Tool for Detection of Dysphagia in Neonates. Investigator: Dr. Swapna N. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
31. Development of a cost effective configuration for optimal quality recording for speech analysis. Investigator: Dr. Ajish K Abraham. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
32. Development of a preliminary test for Assessment of Prosody in Children with SLI. Investigators: Dr. N Sreedevi & Dr. Sangeetha M. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
33. Development of AIISH Hyperacusis Assessment Toolbox for Individuals with tinnitus associated with hyperacusis. Investigators: Dr. Prashanth Prabhu P. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
34. Development of an objective tool for Aphasia Assessment through Artificial Neural Networks. Investigators: Dr. Abhishek B.P & Dr. S.P Goswami. Funding: AIISH Funded Research. Amount: 4.83 lakhs.
35. Development of low frequency range word lists in Malayalam. Investigators: Mr. Prashanth Prabhu & Mr. Jithin Raj B. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
36. Development of phonemically balanced word lists in Tamil Language for adults. Investigators: Dr. Geetha C. & Dr. Devi N. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
37. Development of some auditory related Cognitive Tests: Assessment of Cognitive reserve in individuals with Older Adults. Investigators: Dr. Ajith Kumar U & Dr. Hemanth N. Funding: AIISH Funded Research. Amount: 9.51 lakhs.
38. Development of speech enabled communication tool for clients with speech impairment in Kannada. Investigator: Mr. Manohar N. Funding: AIISH Funded Research. Amount: 4.95 lakhs.
39. Development of toy usage index for children with developmental disabilities. Investigator: Dr. S. Venkatesan. Funding: AIISH Funded Research. Amount: 3.01 lakhs.
40. Disability evaluation in Mental Retardation using WHODAS 2.0 in a clinical setting. Investigators: Mr. Freddy Antony & Mr. Sanjeev Kumar Gupta. Funding: AIISH Funded Research. Amount: 3.25 lakhs.
41. Discourse and working memory in Neuro-typical individuals and adults with Aphasia. Investigator: Dr. Hema N. Funding: AIISH Funded Research. Amount: 4.98 lakhs
42. Effect of auditory deprivation on some aspects of temporal processing and speech perception abilities. Investigators: Dr. Sandeep M & Ms. Chandni Jain. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
43. Effect of cochlear implantation and surgery technique on cervical vestibular evoked myogenic potential. Investigators: Mr. Sachchidanand Sinha, Niraj Kumar Singh, Mr. Nirnay Kumar Keshree & Dr. Shenal Kothari. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
44. Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy. Investigator: Dr. N. Swapna. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
45. Effect of noise and noise reduction technique on speaker identification. Investigator: Dr. Hema N. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
46. Effect of resource material on impact of inclusive education in children with Intellectual Disabilities (ID) and Learning Disabilities (LD). Investigators: Dr. G Malar, Ms. P. Prathima & Mr. D Gururaj. Funding: AIISH Funded Research. Amount: 3.85 lakhs.
47. Effect of spatial noise on speech identification. Investigators: Dr. Asha Yathiraj. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
48. Efficacy of self learning adapted social studies lessons in Kannada and Telugu and Children with hearing impairment at secondary school level. Investigators: Ms. Vijetha P, Dr. G Malar, Mr. Rajkumar R & Ms. Leelarani S.B. Funding: AIISH Funded Research. Amount: 3.25 lakhs.
49. Electrophysiological Assessment of Auditory and Vestibular Neural Functioning in Individuals with Diabetes Mellitus. Investigators: Dr. Prawin Kumar, Dr. M Bhanukumar, Dr. Niraj Kumar Singh, Mr. Vipin Ghosh & Dr. Kumari Apeksha Funding: AIISH Funded Research. Amount: 4.88 lakhs.
50. Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid. Investigators: Dr. Devi N. Funding: AIISH Funded Research. Amount: 4.98 lakhs.
51. Executive functions in normal aging and persons with mild cognitive impairment. Investigators: Dr. Abhishek B.P & Dr. R Rajasudhakar. Funding: AIISH Funded Research. Amount: 4.98 lakhs
52. Exploring Real World Hearing Aid Usage and Outcome: Current Indian Scenario. Investigators: Dr. P Manjula. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
53. Feasibility of standardized Neuropsychological tests in assessment of patients with Aphasia. Investigators: Dr. Amrita Kanchan & Dr. Nawab A Khan. Funding: AIISH Funded Research. Amount: 3.30 lakhs.
54. Field-testing of ‘Constant Therapy’ in Hindi and Kannada. Investigators: Dr. S.P Goswami & Dr. Swathi Kiran. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
55. Genetic insights of cerebral palsy using massively parallel sequencing. Investigators: Dr. N Sreedevi, Dr. N Swapna & Dr. Srinivas Kovalli. Funding: AIISH Funded Research. Amount: 6.31 lakhs.
56. Genetics of Sensori Neural Hearing Loss. Investigators: Dr. K Rajalakshmi, Dr. Jayakumar T, Dr. Srinivas K & Dr. N Sreedevi. Funding: AIISH Funded Research. Amount: 9.28 lakhs.
57. Impact of Acoustic stimuli used for various measures of VEMP on the Auditory System. Investigators: Dr. Niraj Kumar Singh & Dr. Prawin Kumar. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
58. Implementation and validation of portable Virtual Acoustic Spatial Training (VAST) programme for remediation of spatial deficits in Listeners with Sensorineural Hearing Impairment (SNHL): A longitudinal time – series study. Investigators: Dr. Ajith Kumar U & Dr. Nisha K.V. Funding: AIISH Funded Research. Amount: 4.85 lakhs.
59. Lexical Processing in type 2 Diabetes. Investigator: Dr. Rajasudhakar.R. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
60. Life satisfaction and quality of life in persons with Aphasia beyond communication. Investigator: Dr. S.P Goswami. Funding: AIISH Funded Research. Amount: 4.96 lakhs.
61. Morphosyntactic processing in dyslexia: Application of an ERP Measure. Investigators: Dr. Jayashree C Shanbal, Ms. Mamatha N.M & Gopi Shankar R. Funding: AIISH Funded Research. Amount: 4.03 lakhs.
62. Noise Mapping of Mysuru City. Investigators: Mr. Sreeraj K & Ms. Suma Chatni. Funding: AIISH Funded Research. Amount: 6.70 lakhs.
63. Normative data for click rate induced facilitation for assessing temporal integration. Investigators: Dr. K Rajalakshmi & Mr. Prashasti P Poovaiah. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
64. Perception and Production of Prosody in children with hearing impairment. Investigators: Dr. Yeshoda K & Dr. Sreeraj K. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
65. Phonological Encoding in Children with Stuttering. Investigators: Dr. Sangeetha Mahesh & Ms. M.P Geetha. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
66. Prevalence and risk factors for voice problems and effect of Voice Projection Training in Imans. Investigator: Dr. Jayakumar T. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
67. Product development of useful products of Research carried out at AIISH. Investigators: Dr. Prashanth Prabhu, Dr. Priya M.B & Dr. Shijith Kumar C. Funding: AIISH Funded Research. Amount: 5.03 lakhs.
68. Reading impairments in Kannada-English bilinguals individuals with fluent & non-fluent types of aphasia. Investigators: Dr. Sunil Kumar Ravi, Dr. Pebbli Gopikishore& Dr. Shyamala K.C. Funding: AIISH Funded Research. Amount: 5.08 lakhs
69. Relation between dementia and auditory processing. Investigators: Dr. Asha Yathiraj, Dr. V Ramya & Dr. R. Sathianathen. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
70. Relationship between Auditory Abilities and Iron Deficiency Anemia in Adolescent Girls. Investigators: Dr. Chandni Jain, Dr. Chetak K B & Mr. Vipin Ghosh, Funding: AIISH Funded Research. Amount: 5.33 lakhs.
71. Relationship between envelop difference index (edi) and speech perception with noise reduction strategies in hearing aids. Investigators: Ms. Geetha C & Dr. Hemanth N. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
72. Relationship between Hearing Aid Benefit and Auditory Processing Abilities in Elderly Individuals with Hearing Impairment. Investigators: Dr. Geetha C & Dr. Chandni Jain. Funding: AIISH Funded Research. Amount: 5.05 lakhs.
73. Short term correlations between Speech Motor Variability and Behavioural Dysfluencies in persons with stuttering following fluency shaping therapy. Investigators: Dr. Anjana B Ram & Mr. Mahesh BVM. Funding: AIISH Funded Research. Amount: 4.85 lakhs.
74. Speech Identification in the Non-aided ear in Monaural Hearing Aid Users. Investigators: Prof. Asha Yathiraj. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
75. *Standardization of a Discourse Analysis Scale for Conversation, Narration and Picture Description in Kannada (DAS). Investigators: Dr. Hema N & Dr. K.C Shyamala. Amount:*
76. Standardization of Linguistic Profile Test (LPT) in Tamil. Investigator: Dr. T Jayakumar. Funding: AIISH Funded Research. Amount: 4.88 lakhs.
77. Stories of Aphasia: Exploring paths to recovery in India. Investigators: Dr. S.P Goswami, Dr. Julie A Hengst, Ms. Sonal V Chitnis, Dr. Brajesh Priyadarshi, Dr. Neeraja Karathi & Ms. Pinky Singh. Funding: AIISH Funded Research. Amount: 11.99 lakhs.
78. Syntactic judgment abilities in persons with non-fluent Aphasia. Investigators: Dr. Abhishek B.P & Dr. K.C Shyamala. Funding: AIISH Funded Research. Amount: 4.33 lakhs.
79. TOLD-H: An adaptation of TOLD. Investigators: Dr. Brajesh Priyadarshi & Dr. S P Goswami. Funding: AIISH Funded Research. Amount: 4.96 lakhs.
80. Validation of Nasality Severity Index. Investigators: Dr. Navya A. & Dr. Pushpavathi M. Funding: AIISH Funded Research. Amount: 4.93 lakhs.
81. Vocal dose and immediate effects of the Straw Phonation Exercises on Parameters of Vocal Loading in Carnatic Classic Singers. Investigators: Dr. Santhosh M & Dr. Usha Devadas. Funding: AIISH Funded Research. Amount: 4.83 lakhs.
82. Within and across temporal resolution abilities in individuals with normal hearing, sensorineural hearing loss and auditory neuropathy spectrum disorders. Investigators: Dr. Animesh Barman. Funding: AIISH Funded Research. Amount: 4.33 lakhs.

**New Research Projects**

Seven research projects worth ***Rs. 152.370 lakhs*** were initiated in different departments during the reporting year. Of these, three projects worth ***Rs. 135.67 lakhs*** were funded by Department of Science & Technology, Govt. of India and the remaining by the institute.

**Extramural Research**

1. *Effects of Cognitive load on Speech and Voice characteristics across lifespan: A cross-sectional study. Investigators: Dr. T Jayakumar & Dr. K Yeshoda. Funding: Department of Science and Technology. Amount: Yet to be released.*
2. Effect of Vestibular Impairment and Vestibular Rehabilitation Therapy on Cognition and Language Processing. Investigators: Dr. Niraj Kumar Singh, Dr. Prawin Kumar, Dr. Prakash T.K, Dr. Brajesh Priyadarshi & Dr. Amritha Kanchan. Funding: Department of Science and Technology. Amount: 95.24 lakhs.
3. Relationship between behavioral and electrophysiological indices of cognition and language in children with auditory processing disorders and co-morbid conditions. Investigators: Dr. Prawin Kumar, Dr. Niraj Kumar Singh, Dr. Brajesh Priyadarshi & Dr. Amritha Kanchan. Funding: Department of Science and Technology. Amount: 40.43 lakhs.

**AIISH Funded Research**

1. Cochlear implant outcome measures: Comparison of rating scales and speech perception. Investigator: Ms. Megha. Funding: AIISH Funded Research. Amount: 5.05 lakhs.
2. Development of Grade Level Assessment Test in Science for Upper Primary School Children (VI-VIII). Investigator: Dr. Prithi Venkatesh. Funding: AIISH Funded Research. Amount: 4 lakhs.
3. Development of a Grade Level Assessment Test in Social Science (GLAT-SS) of Karnataka State Education Board. Investigators: Dr. Palnaty Vijetha, Dr. Alok Kumar Upadhyay & Ms. Lakshmi Prabha J.K. Funding: AIISH Funded Research. Amount: 3.85 lakhs.
4. Efficacy of developing skills through curricular activities among preschool children with Hearing Impairment at AIISH. Investigators: Dr. Alok Kumar Upadhyay & Dr. Palnaty Vijetha. Funding: AIISH Funded Research. Amount: 3.80 lakhs.

**Doctoral Research**

Totally, ten students completed their doctoral research during the reporting year and in addition, 63 students were pursuing their research in different departments of the institute. The details of completed and ongoing doctoral research are given in table 1 and 2 respectively.

**Table 1 : Completed Doctoral Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| 1 | Deepthi K | Speech and Language Characteristics of 3-5 year old Children with Cleft of Lip and Palate | Dr. M. Pushpavathi |
| 2 | Dhatri S. Devaraju | Behavioral and Electrophysiological Correlates of Auditory-Visual Integration in Persons with Stuttering | Dr. U Ajith Kumar |
| 3 | Lakshmi S. Mohan | Development of Predictive Screening tool for Preschool Children with Autism Spectrum Disorders in Malayalam  | Dr. Jayashree C Shanbal |
| 4 | Mahesh B.V.M | Influence of Second Language (English) Proficiency on Speech Motor Variables in Bilinguals who Stutters  | Dr. R. Manjula  |
| 5 | Manju Mohan P | Novel Word Learning in Persons with Epilepsy | Dr. S P Goswami |
| 6 | Megha | Perceptual, Cognitive and Neurophysiological Bases of Hearing Aid Acclimatization | Dr. M. Sandeep |
| 7 | Priyanka V | Temporal Processing, Speech Perception in Noise and Auditory Working Memory in Vocalists, Violinists and Non-Musicians  | DrK.Rajalakshmi |
| 8 | Shylaja K | Test Battery for Symbolic Communication Skills in 2-4 year Typically Developing Children | Dr. R. Manjula Professor |
| 9 | Yashaswini R | Presymbolic Dyadic Communication Behaviors in Typically Developing Children and Children with Intellectual Impairments (06-1.6 years): A Comparative Study) | Dr. R. Manjula Professor |
| 10 | Yashomathi | Comparison of Syntax in Indian Sign Language between Two Dialects  | Dr. R. Manjula Professor |

**Table 2: Ongoing Doctoral Research**

| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| --- | --- | --- | --- |
| 1 | Amoolya G | Bilingual Effect on Written Language Skills in Kannada-English Bilingual-Biliterate with learning disability. | Dr. Jayashree C Shanbal |
| 2 | Anitha Naittee Abraham | Effect of Vowel Context and Phoneme Position on Correct Articulation of Phonemes in Malayalam Speaking Children with Down syndrome: A Pre Post Therapy Comparison | Dr. N. Sreedevi |
| 3 | Anoop B.J | Cognitive and ERP Measures of Informational Masking in Young and Elderly Normal Hearing Individuals | Dr. Ajith Kumar. U |
| 4 | Anuprasad S | Auditory Processing and Auditory Working Memory in Children with Benign Epilepsy with Centrotemporal Spikes | Dr. K Rajalakshmi |
| 5 | Aparna V.S | Speech and Language outcomes in school going children following early primary cleft palate repair | Dr. M Pushpavathi |
| 6 | Arunraj K  | Clinical Validation of Wideband Absorbance Tympanaometry in Detecting Middle Ear Disorders | Dr. Animesh Barman |
| 7 | Darga Baba Fakruddin | Effect of Age, Hearing Loss and Working Memory on Speech Recognition in Naive Hearing aid Users | Dr. K Rajalakshmi |
| 8 | Darshan H.S  | A comparative study on statistical learning abilities in persons with aphasia and neuro-typical individuals | Dr. S.P. Goswami |
| 9 | Deepak P  | Efficacy of verb network strengthening treatment in persons with aphasia | Dr. S.P. Goswami |
| 10 | Deepashree S.R | Auditory brainstem responses and otoacoustic emissions in infants born to mothers with iron deficiency anaemia | Dr. Ajith Kumar. U |
| 11 | Deepthy Ann Joy | Acoustic and Articulatory Characteristics of Malayalam Speaking Children Using Cochlear Implant | Dr. N. Sreedevi |
| 12 | Dhanya M | Preceptual Cues of Coarticulation in normal hearing and individuals with hearing impairment in Malayalam | Dr. M Sandeep |
| 13 | Dhivya D | Yet to be decided | Dr. Alok Kumar Upadhyay |
| 14 | Divya Seth | Efficacy of Response Cost Treatment in Pre-School Children Who Stutter | Dr. Santosh. M |
| 15 | Gayathri Krishnan | Effect of Bolus Characteristics and Head Position on Respiratory-Swallow Coordination | Dr. S.P. Goswami |
| 16 | Geethi S | Development of metapragmatic tool for adolescents n Malayalam and its validation on Children with Specific learning disorder | Dr. K.C. Shyamala  |
| 17 | Girish K.S  | Development of norms for Nasospeech in typically developing children  | Dr. M Pushpavathi |
| 18 | Husna Firdose | Yet to be decided | Dr. Manjula P.,  |
| 19 | Indira C.P | Yet to be decided | Dr. Sandeep M.,  |
| 20 | Jawahar Anthony P | Stream Percept with Sinusoidally Amplitude Modulated Stimuli and its Relation with Speech Perception in Noise in Individuals with Normal Hearing And Sensorineural Hearing Loss. | Dr. Animesh Barman |
| 21 | Jim Saroj Winston | Effect of short term musical training on psycho acoustical, electrophysiological and working memory measures. | Dr. Ajith Kumar. U |
| 22 | Jyothi S  | Child directed speech versus adult directed speech: Comparison of acoustic measures between mothers of typically developing children and children | Dr. Santosh. M |
| 23 | Krupa Saira George | Effects of native and non native babble background on speech identification of individual with normal hearing and hearing impairment | Dr. K Rajalakshmi |
| 24 | Mamatha N.M | Effect of auditory processing abilities on academic performance in Kannada Speaking primary school children  | Dr. Asha Yathiraj |
| 25 | Manju Mohan P | Novel Word Learning in Persons with Epilepsy | Dr. S P Goswami |
| 26 | Manju S  | Speech and language development in malayalam speaking toddlers with repaired cleft lip and palate | Dr. M Pushpavathi |
| 27 | Merin Mathews | Audio visual speech perception in individuals with ANSD: effect of audio visual training evidenced through ERP and behavioral measures | Dr. K Rajalakshmi |
| 28 | Nagarathnamma | Yet to be decided | Dr. Alok Kumar Upadhyay |
| 29 | Niharika M.K | Cognitive -Linguistic Processing in Native Adult Speakers of Kannada | Dr. Prema K.S  |
| 30 | Nikitha M  | Gesture perception and production abilities in person with aphasia: A comparative study | Dr. S.P. Goswami |
| 31 | Nirmal Sugathan | Comparison of Phonological Processing between Children Who Persist and Recover from Stuttering | Dr. Santosh. M |
| 32 | Omar Wajdy Aref AL-Rawashdeh | Yet to be decided | Dr. Alok Kumar Upadhyay |
| 33 | Pavan M | Investigation of Mechanisms Underlying Poor Speech Perception in Individuals with Cochlear Hearing Loss based on Recovered Envelope Cues and the Contribution of Temporal Fine Structure Cues in Sequential Stream Segregation | Dr. K Rajalakshmi |
| 34 | Prajna Bhat J | Brainstem Neurophysiological Correlates of Pitch Coding in Vocal and Instrument Musicians | Dr. K Rajalakshmi |
| 35 | Priyadarshini K  | Effect of auditory training using envelope enhanced speech on speech perception abilities in persons with auditory neuropathy spectrum disorder | Dr. Ajith Kumar. U |
| 36 | Priyanka | Cross-Linguistic Generalization of Fluency in Kannada –English Bilingual adults who Stutter: Effect of Non- Programmed Prolonged Speech Treatment | Dr. Santosh. M |
| 37 | Priyanka Jaisinghani | Validation of speech enhancement and noise reduction strategies in individuals with sensorineural hearing loss and auditory neuropathy spectrum disorders | Dr. Manjula. P |
| 38 | Rakesh C.V  | Efficacy of prolonged speech and pause and talk techniques in school aged children with stuttering: A comparison | Dr. Santosh. M |
| 39 | Rakesh Gatla | Effect of Exposure to Below -Damage Risk Criteria Environmental Noise on Auditory Processing abilities | Dr. Sandeep. M |
| 40 | Ranjini G.C | Yet to be decided | Dr. N. Sreedevi |
| 41 | Ranjitha R  | Developing standardization of a test battery to evaluate phonological representations in malayalam speaking preschool children. | Dr. N. Sreedevi |
| 42 | Reesha O.A  | Efficacy of computer based auditory separation training in children with auditory processing disorders | Dr. Prawin Kumar |
| 43 | Reuben Thomas Varghese | Comparison of Early Cognitive- Communicative Deficits between Persons with Dementia of Alzheimer’s Type(DAT) and Mild Cognitive Impairment (MCI) | Dr. S P Goswami |
| 44 | Sahana V  | Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure | Dr. Ajith Kumar. U |
| 45 | Seema M | Yet to be decided  | Dr. N. Sreedevi |
| 46 | Sharon Susan Sam | Effect of Mapping on Novel Word Learning in Malayalam- English Bilingual Children | Dr. Jayashree C Shanbal |
| 47 | Shreyank P Swamy | Comparison of Contralateral Suppression of Otoacoustic Emissions between Children with APD and Children with ADHD | Dr. Asha Yathiraj |
| 48 | Shubaganga D | Influence of education, employment and gender on auditory processing and cognition in older adults | Dr. Asha Yathiraj |
| 49 | Shubha Tak | Loudness Perception in Children Using Hearing Aids and Children Using Cochlear Implants | Dr. Asha Yathiraj |
| 50 | Sneha Mareen Varghese | Graphophonological semantic flexibility and reading comprehension in children with dyslexia. | Dr. Jayashree C Shanbal |
| 51 | Sonam Belliappa M  | Use of chin tuck against resistance and neuromuscular electrical stimulation for swallow function in Parkinson’s disease: A comparative study | Dr. S.P. Goswami |
| 52 | Sreena E.N  | Preferred compression amplification setting for individuals with varying audiogram configurations | Dr. Manjula. P |
| 53 | Srikar V  | Auditory Continuity Illusion and Perceptual Restoration of Speech in Noise: Relationship with Speech Intelligibility in Noise in Individuals with Normal Hearing, and Cochlear Hearing Loss | Dr. Animesh Barman |
| 54 | Srushti Shabnam | Acoustic voice quality index based dysphonia severity classification | Dr. M Pushpavathi |
| 55 | Subramanya K.R | Yet to be decided | Dr. Alok Kumar Upadhyay |
| 56 | Sunitha Sendhilnathan | Effectiveness of a Parent Implemented Training Program for Bilingual Children with Autism Spectrum  | Dr. K.C. Shyamala  |
| 57 | Susan G Oommen | Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders | Dr. K.C. Shyamala  |
| 58 | Sushma Manjunath | Development and validation of therapy protocol for compensatory articulation in children with repaired cleft lip and palate  | Dr. M Pushpavathi |
| 59 | Tasnim A.S. Swaotti | Yet to be decided | Dr. K. Yeshoda |
| 60 | Vignesh S | Auditory Vestibular Functions in Individuals with Multiple Sclerosis | Dr. K Rajalakshmi |
| 61 | Vikas M.D | Effects of Temporal Resolution, Working Memory, and Personality on Hearing Aid Benefit in Older Adults | Dr. Manjula. P |
| 62 | Vineetha Sara Philip | Symbolic language abilities for aided communication in persons with aphasia | Dr. S.P. Goswami |
| 63 | Yashaswini L | Categorical Perception and Processing of Speech and Music stimuli in individuals with and without music training  | Dr. Sandeep. M |

**Post Graduate Research**

The postgraduate students of the institute carry out research as a part of their course work. The details of completed postgraduate research carried out as a part of M.Sc. Audiology, M.Sc. Speech-Language Pathology are given in table 3 and the ongoing research works in table 4.

**Table 3: Completed Postgraduate Research**

| **Sl.****No.** | **Candidate** | **Topic** | **Guide** |
| --- | --- | --- | --- |
| 1 | Aakanksha Pandey | Effect of physical activity on P300 and working memory | Dr. Chandni Jain |
| 2 | Abinaya R | Psychoacoustic measure of Temporal processing and speech perception in older adults with normal hearing and Hearing aid users of 4 channel V/s 12 channel hearing aids. | Dr. K Rajalakshmi |
| 3 | Acharekar Rashmi Madhukar | Evaluation of utricular function using ocular vestibular evoked myogenic potentials and subjective visual vertical test in Individuals with sensorineural hearing loss without vestibular disease | Dr. Sujeet Kumar Sinha |
| 4 | Advaith B | Cross sectional study of personality, Anxiety and depression in individuals with Auditory neuropathy spectrum disorders | Ms. Mamatha N M |
| 5 | Ajay H M | Audiometric profiling on small scale flour mill workers | Dr. K Rajalakshmi |
| 6 | Amit Kumar | Sensitivity and specificity of smartphone based hearing testing applications | Dr. Ganapathy |
| 7 | Amrutha J | Effect of vocal loading on self perceptual and acoustic parameters in Carnatic singers | Dr Santosh M |
| 8 | Anarse Chhandase Shrikanth | Functioning of olivocochlear bundle and speech perception in noise: Effect of Age | Dr. Dr. Ajith Kumar U |
| 9 | Anitta | Cognitive fliexibility in high end low proficient bilinguals  | Dr Abhishek B.P |
| 10 | Anupama R | Relationship between contralateral inhibition of otoacoustic emissions and speech perception in noise: Effect of age, signal to noise ratio and masker | Dr. Ajith Kumar U |
| 11 | Anusha C | Developing Verb Gesture Corpus | Dr. S.P. Goswami |
| 12 | Anusmitha Mathew | Assessment of disfluencies as a predictor of cognitive effort in ageing. | Mahesh.B.V.M |
| 13 | Aparna U | Effect of speech babble on listening effort and mental fatigue in Malayalam-Kannada bilingual speakers | Dr. Hemanth N |
| 14 | Ashique Rahman M | Effect of Yoga on Auditory processing abilities in older adults | Ms. Mamatha N M |
| 15 | Bhalerao Sanketh Satish | Effect of physical activity on psychophysical abilities and speech perception in noise | Dr. Chandni Jain |
| 16 | Biswajith Pradhan | Contalateral suppression of Distortion product otoacoustic emission fine structure on Industrial workers | Dr. Prawin Kumar |
| 17 | Celestial Lydia | Dysphonia Severity Index in Phononormic Young Adults Using the Praat Program | Dr. Anjana B Ram |
| 18 | Dafiah P.M | Effect of Sour and Carbonated Liquid Bolus on Hyolaryngeal Elevation during Swallow | Dr. N. Swapna |
| 19 | Darshan Hiremath | Effect of speech enhancement on listening effort and fatigue in individuals with hearing impairment older adults | Dr. Hemanth N |
| 20 | Deeepa | Working Memory Assessment in individuals with and without Aphasia using distinct [semback] linguistic processing ability  | Dr Hema N |
| 21 | Divya Mary Jose | Effect of hearing aid bandwidth on speech identification in children using bimodal devices | Dr. Manjula P |
| 22 | Durga S | Effect of hearing aid bandwidth on cortical evoked responses in bimodal cochlear implantees | Dr. Manjula P |
| 23 | Durga S Kumar | Prevalence of auditory neuropathy spectrum disorders in children( January 2018 - December 2018) | Dr. Prawin Kumar |
| 24 | Faheema Luquman Ali | Cortical encoding of speech and non-speech in Individuals with Auditory neuropathy spectrum disorders | Dr. Ganapathy MK |
| 25 | Farzeena | Vocal load characteristics in imams using APM | Dr. T. Jayakumar |
| 26 | Gowtham HS | Effect of language familiarity on assessment of stuttering behaviours by speech language pathologists across indian languages | Dr.Anjana B Ram |
| 27 | Hima Nair | Immediate Effects of Laryngeal Manual Therapy on Voice Quality in Individuals With Muscle Tension Dysphonia | Dr. Pebbili Gopikishore |
| 28 | Jagrati Sharma | Music touches where words alone can’t | Dr. K Rajalakshmi |
| *29* | *Jijina T* | *Phonotactic Development in 2-5 years old Native Malayalam Speaking Children* | *Dr. N. Sreedevi* |
| 30 | Jumana Mithalaj A K | Effect of vocal musical training on temporal resolution, frequency discrimination and speech perception in noise in children | Dr. Ajith Kumar U |
| 31 | Kamalakannan K. | Influence of number of frequency bands, envelope and fine structure cues on perception of tamil chimeric sentences | Dr. N Devi |
| 32 | Karunika |  Working memory assessment in individuals with and without aphasia using distinct [synback] linguistic processing ability  | Dr. Hema N |
| 33 | Kavitha G. S. | Input/output function of DPOAE in instrumental musicians | Dr. Sreeraj K |
| 34 | Kavya S Murthy | Contralateral suppression of distortion product otoacoustic emissions input-output function in individuals with auditory neuropathy spectrum disorders | Dr. Prasanth Prabhu |
| 35 | Keren, O. B. | Vocal Fatigue using Vocal Fatigue Index (VFI): A Comparison among Different Levels of School Teachers | Dr. K. Yeshoda |
| 36 | Khyathi.G.Jain | Measures of Hyolaryngeal Excursion in Post stroke Survivors for Different Bolus Volumes and Viscosities | Dr. N. Swapna |
| 37 | Kishore Kumar Bharshetty | Outcome evaluation of listening training interventions with/ without focused counseling on experiences of caregiver’s having children with hearing impairment | Ms. Mamatha N M |
| *38* | *Krishnendu*  | *Assessment of affective factors in Children with Stuttering* | *Dr. Sangeetha M.* |
| 39 | Krithika, G. | Differences in Singing Pedagogy Across Vocalists Trained in Carnatic and Hindustani Styles: A Questionnaire-based Study | Dr. K. Yeshoda |
| 40 | Kriti Arora | Effect of type of stimuli on the benefit derived from envelope enhancement in individuals with ANSD | Dr. Sandeep M |
| 41 | Lavanya H.S. | Clinical utility of various binaural interaction tests in the assessment of CAPD | Dr. Chandni Jain |
| 42 | Malavi Srikar | Lexical semantic activation in younger and older adults  | Dr Abhishek B.P |
| 43 | Malavika Salim | Objective measures of strength and endurance of lips and tongue in healthy adults in India | Dr. N. Swapna |
| 44 | Manasa | Perceptual analysis of speech in individuals with repaired cleft palate: An insight into few variables. | Dr. M. Pushpavathi |
| 45 | Manish V | Effect of speech sample size on the frequency of stuttering like disfluencies (SLD) in adults who stutter | Dr. T Jayakumar |
| 46 | Minu | Surface Electromyographic Assessment of Laryngeal Muscle Tone in Phononormic Adults | Dr. PebbiliGopikishore |
| 47 | Namratha.V | Short term effects of speech motor skill learning on lip aperture variability and kinematic duration in persons with stuttering | Dr. K. Yeshoda |
| 48 | Navya K | Prevalence and risk factors for voice problems and effect of voice projection training in Imams  | Dr. T Jayakumar |
| 49 | Neha Banerjee | Evaluation of auditory stream segregation in individuals with cochlear pathology and auditory neuropathy spectrum disorder | Dr. Prasanth Prabhu |
| 50 | Patil Mohini Shirish | Assessment of otolith organs and semicircular canal function in individuals with diabetes mellitus | Dr. Sujeet Kumar Sinha |
| 51 | Penwal Suman | Effect of cross motor activities on auditory integration | Dr. Asha Yathiraj |
| 52 | Pooja C | Development of Norms for Confrontation and Generative naming in Kannada | Dr. S.P. Goswami |
| 53 | Priya Khader | Efferent system functioning in pediatric population using DPOAE input and output function | Dr. Sreeraj K |
| 54 | Renita | Standardization of Linguistic Profile Test (LPT) in Tamil | Dr. T Jayakumar |
| 55 | Ritu A. Venkatesh | Effect of different artifact rejection levels on ABRs and ALLRs | Dr. Sandeep M |
| 56 | Santosh Kumar Patel | cVEMP & oVEMP tuning curve in individual with diabetes mellitus | Dr. Sujeet Kumar Sinha |
| 57 | Saranya M. | Evaluation of differential sensitivity for frequency, intensity and duration in individuals with hypertension | Dr. Prasanth Prabhu. |
| 58 | Satish Kumar Patel | Effect of stimulus polarity on context dependent brainstem encoding of speech | Dr. Sandeep M |
| 59 | Shaikh Safa Salauddin | Developing Noun Gesture Corpus | Dr. S.P. Goswami |
| 60 | Shalini | Effects of Steady and Fluctuating Semi-Occluded Vocal Tract Exercises on few Acoustic and Electro glottographic parameters of Voice in phono - normals | Dr. Hema N |
| 61 | Sharanya K Kumar | Contralateral Suppression of Transient Evoked Otoacoustic Emissions in School Going Children for Various Noise Types | Dr. Sreeraj K |
| *62* | *Shishira S.* | *Phonetic influences in Adults with Stuttering* | *Dr. Sangeetha M.* |
| 63 | Shital Jambule | Design fluency and macro linguistic aspects of narratives in elderly individual with and without Mild Cognitive Impairment  | Dr. Hema N |
| 64 | Sivaranjini | Effect of phonation types on vocal fold adduction in Phono-normal individuals | Dr. R.RajaSudhakar |
| 65 | Sneha Uttakalika | The relationship between some aspects of temporal processing and speech in noise in older adults with normal hearing | Dr. Animesh Barman |
| 66 | Sonia C. | Effect of noise induced hearing loss on difference limen for frequency, intensity and duration | Dr. N Devi |
| 67 | Spoorthi C | Lexical and semantic bases for new word learning  | Dr Abhishek B.P |
| 68 | Sridhar S | Comparison on perception of envelope and temporal fine structure cues in unaided and aided conditions using kannada chimeric sentences | Dr. N Devi |
| 69 | Susan | Comparison of habitual and high-pitched phonation tasks between teachers with and without vocal fatigue | Dr Santosh M |
| 70 | Thanuja, D. | Acoustic Characteristics of Pain Cry in the First 3 Months of Life: A Longitudinal Study | Dr Santosh M |
| 71 | Vanapalli Yamini | Temporal processing abilities in individuals with blindness | Dr. Asha Yathiraj |
| 72 | VijayaVarsha | Speech and Language Charateristics in kannada speaking Toddlers with Repaired Cleft lip and Palate | Dr. M Pushpavathi |
| 73 | Vishali | Acoustic Voice Quality Index in Tamil language | Dr. R.RajaSudhakar |
| 74 | Vishnu Mohan | Effect of ageing on efferent auditory system | Dr. Ganapathy M K |
| 75 | Yashwanth Kumar | Listening effort and fatigue in individuals with noise induced hearing loss | Dr. Hemanth N |

**Table 4: Ongoing Postgraduate Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Candidate** | **Topic** | **Guide** |
| 1. | Aishwarya G | Effect of prescriptive formulae and number of channels (simulated) on perception of music processed through Receiver In the Canal hearing aid | Dr. Prashanth Prabhu |
| 2. | Ajithkumar M | Correlation of threshold difference between pure tones, clicks and wideband evoked acoustic reflex | Dr. Devi N |
| 3. | Akhil Shrivastava | Measurement of Ocular tilt using Subjective visual vertical test in Individuals with Sensorineural Hearing loss | Dr. Sujeet Kumar Sinha |
| 4. | Akshaya Krishnan | Self-harm in Persons with Aphasia and their Caregivers:A Survey | Dr. S P Goswami |
| 5. | Anagha A.P | Vestibulo -Ocular Reflex gain measurement using Head Impulse Paradigm and Suppression Head Impulse paradigm in younger and older adults | Dr. Sujeet Kumar Sinha |
| 6. | Aneena K | Estimation of vestibulo ocular reflex gain using head impulse paradigm in individual with noise exposure | Dr. Prawin Kumar |
| 7. | Anju R  | Empirical observation on grammatical and lexical development by story retelling task in primary school children | Dr. R Rajasudhakar (Co-guide) |
| 8. | Ankitha | Non word repetition skills in adults who stutter | Dr. Sangeetha M |
| 9. | Anuroopa Swamynanda | Vocal Fatigue in Professional Theatre Artists as quantified by Vocal Fatigue Index | Dr.K.Yeshoda |
| 10. | Aparna Ravi | Bilateral simultaneous auditory brainstem response in individuals with sensorineural hearing loss | Dr. Sandeep M |
| 11. | Apoorva Pant | Phonological encloding abilities in second language (L2) among bilingual adults who stutter  | Dr. Sangeetha M |
| 12. | Archana U | Therapeutic Module for rehabilitation of adults with Stuttering- Assistive Stuttering Interface-Adults | Dr. Anjana B Ram |
| 13. | Ashique C | Comparison of differential sensitivity for frequency, intensity and duration on adults those who practice yoga and those who do not practice yoga | Ms. Mamatha N |
| 14. | Augustina Noel Z | Speech identification through mobile phone, coupled to hearing aids, with and without wireless technology | Dr. Manjula P |
| 15. | Binusha. S | Comparision of habitual phonation and high pitch phonation tasks between Karnatic classical singers with and without vocal fatigue | Dr. Santosh. M |
| 16. | Chethana P | Test-retest reliability of working memory span tasks: Operation span, Reading span and Auditory digit span. | Dr. Ajith Kumar U |
| 17. | Christy Sebastian | Effect of wide dynamic range compression on a few temporal characteristics and speech identification. | Dr. Manjula P |
| 18. | Delna Dominic | A comparative study on the effect of animated and static pictures on the naming abilities in children with Hearing impairment | Mr. Reuben T. Varghese |
| 19. | Devi Vijayalakshmi | Long term effect of lip trill exercise on voice parameters in normophonic individuals | Dr. R Rajasudhakar |
| 20. | DibyaAryal | Effect of phonological and morphological factors on speech disfluencies in Nepal speaking adults who stutter | Dr. Santosh. M |
| 21. | Divya Chauhan | Effect of physiological noise on speech perception in noise in normal hearing adults | Dr. Sandeep M |
| 22. | Fathima Nida | Socio cultural adaption of UTBAS scale in Kannada | Dr. Santosh. M |
| 23. | Gowtham Varma S | Cochlear microphonics : A comparison between scalp recording vs. Intracanicular recording procedure using tone bursts and click | Dr. Animesh Barman |
| 24. | Hannah Thomas  | Estimating safe stimulus level for 500 Hz tone tone burst evoked cervical and ocular vestibular evoked myogenic potential | Dr. Niraj Kumar Singh |
| 25. | Hemashree B.M | Evaluation of temporal processing abilities in individuals categorized based on body mass index. | Dr. Prashanth Prabhu |
| 26. | Hima Bindhu | Phonological encoding abilities in first language (L1) among bilingual adults who stutter | Dr. Sangeetha M |
| 27. | Hina Fathima | Development of Linguistic Profile Test for Urdu Speaking Children in the Age Range of 6 to 16 years- An adaption | Dr. Jayashree C Shanbal |
| 28. | Kalaiyarasan R | Evaluation of temporal resolution abilities and speech perception in noise in abstinent alcoholics and non-alcoholics | Dr. Devi N |
| 29. | Kirubaharane S.I | Multifrequency tympanometry in children with and without congenital sensorineural hearing loss. | Dr. Ajith Kumar U |
| 30. | Kranti Acharya | Acoustic Characteristics of Vowels in Children with Cochlear Implants in Nepali | Dr. N. Sreedevi |
| 31. | Kristi Kaveri Dutta | Effect of stimulus intensity used for frequency tuning of cVEMP on hearing | Dr. Niraj Kumar Singh |
| 32. | Krupa Bai B | Relationship between extended High frequency Audiometry, distortion product otoacoustic emission and speech perception in noise in children with (C)APD. | Dr. Chandni Jain |
| 33. | Layamol T.P | Assessment of Hidden hearing loss in individuals exposed to noise using Tone Burst ABR and DPOAEs | Dr. Prawin Kumar |
| 34. | Madhumanti Chakraborty | Role of MOCB on threshold and supra threshold measures of speech perception in noise | Dr. Sandeep M |
| 35. | Manju Manikandan K | Influence of age, cognition and proficiency of the non-native background language on speech recognition of native language | Dr. Geetha C |
| 36. | Megha Nigam | Relationship between spectral resolution and speech perception in noise in children with central auditory processing disorder | Dr. Chandni Jain |
| 37. | Merina Thomas | Comparison of auditory working memory and speech perception in noise in children with and without chess training | Dr. K Rajalakshmi |
| 38. | Mohammed Basih Thaha T | Adaptation, Translation and Validation of Speech, Spatial and Qualities of Hearing Scale (SSQ) in Malayalam speaking older adults with hearing impairment. | Dr. K Rajalakshmi |
| 39. | Mohana Priya R  | Amplitude modulation discrimination in individual with normal hearing sensitivity having tinnitus | Dr.Sreeraj K |
| 40. | Monika Tetwal | Development of a questionnaire to assess Quality of Life in Parents of children with Autism Spectrum Disorders in Kannada (QoLA-K) | Dr. Jayashree C Shanbal |
| 41. | Nayana Karat | Acoustic voice quality index (AVQI) in Carnatic singers | Dr Jayakumar T |
| 42. | Nayanika Ghosh | Prolonged Effect of SOVT on Phononormals using Straw Phonation technique | Dr.K.Yeshoda |
| 43. | Neeraja Sunil | Taste Perception in Individuals with Diabetes Mellitus Type II | Dr. Swapna N |
| 44. | Neha Yadav | Development of Hindi Language Test for children in the age range of 3 to 6 years-An adaption | Dr. Jayashree C Shanbal |
| 45. | Nivedharao Nagarajan | Auditory differential sensitivity for frequency, intensity, duration in abstinent alcoholic | Dr. Devi N |
| 46. | Parnika M | Therapeutic Module for rehabilitation of children with Stuttering- Assistive Stuttering Interface-Children | Dr. Anjana B Ram |
| 47. | Pauline Gracia | Acoustic voice quality index (AVQI) in hindustani singers | Dr Jayakumar T |
| 48. | Prajwal Kumar E | Effect of click, tone burst frequency, polarity and rate of stimulus on cochlear microphonics in individuals with normal hearing sensitivity. | Dr. Animesh Barman |
| 49. | Rajwinder Kaur  | Adaptation, Translation and Validation of Parents Evaluation of oral/aural performance of children (PEACH) and Teachers' Evaluation of oral/aural performance of children (TEACH ) | Dr. Geetha C |
| 50. | Rakesh T. Kumar | Comparison of auditory working memory in adults with congenital blindness and normal sighted individuals | Dr.Sreeraj K |
| 51. | Ranjini A | Influence of Music Training on the Age Related Decline in Spatial Hearing and Temporal Processing Ability | Dr.Sreeraj K |
| 52. | Ravinder Thakur  | C-VEMP and O-VEMP in smokers | Ms. Mamatha N |
| 53. | Reshma O | Relationship between nasalence and acoustic voice quality index (AVQI) | Dr Jayakumar T |
| 54. | RiddhiWadhwa | Syntactic Working Memory in Person with Aphasia | Dr. S P Goswami |
| 55. | Rishisha Lyngkhoi | Comparison of vowel Space In Two Dialects of Khasi | Dr. N. Sreedevi |
| 56. | Rohith V.S | The Relationship between Auditory working memory and speech perception in noise in primary school children with and without abacus training. | Dr. K Rajalakshmi |
| 57. | Roja Rani | Effect of Effortful Swallow Training on Lingual-Labial Strength and Endurance and Swllowing Capacity in Typical Young Adults | Dr. Swapna N |
| 58. | Sabin Sharma Duwadi | Ultrasound Study of the Retroflex Plosives of Nepali Language | Dr.K.Yeshoda |
| 59. | Sachin B | Effect of duration of smoking on distortion product otoacoustic emission | Ms. Mamatha N |
| 60. | Sarga K | Effectiveness of Subjective Visual Vertical and Video Head Impulse Test in assessment of Vestibular function in individuals with Mixed Hearing Los | Dr. Sujeet Kumar Sinha |
| 61. | Sasirekha | Body Mass Index and Voice parameters: An correlational study | Dr. R Rajasudhakar |
| 62. | Shivaranjini | Cognitive processing in Learning Disability | Dr. Anjana B Ram |
| 63. | Shreyas S. Ram | Prevalence of individuals diagnosed to have CAPD  | Dr. Chandni Jain |
| 64. | Srividya S | Sentence identification in presence of speech and music masker among musicians and non-musicians | Dr. Ajith Kumar U |
| 65. | Sudharsana S | Temporal Characteristics of Speech in Children with Speech Sound Disorder | Dr. N. Sreedevi |
| 66. | Sundareswari  | Acquisition and Retention of Nonwords in Adults with and without Stuttering | Dr. Swapna N |
| 67. | Sushma C | Comparison of subjective benefit of directional microphone in high cost and low cost digital hearing aids in noise | Dr. Geetha C |
| 68. | Swaliha | Adaptation and Validation of Prospective and Retrospective memory questionnaire in Malayalam | Dr. S P Goswami |
| 69. | Swati Goyal | Effect of age and gender on auditory stream segregation in adults with normal hearing sensitivity | Dr. Prashanth Prabhu |
| 70. | Syeda SameeraTaj | Voice characteristics of Uluma | Dr. R Rajasudhakar |
| 71. | Tanuja M.N | Comparison between auditory working memory, temporal resolution, and auditory closure in individuals with type 2 diabetes mellitus. | Dr. Prawin Kumar |

**SCIENTIFIC PRESENTATION**

1. Adya, P., Naina, J., Annika, M.S. & Prabhu P. (2019). Evaluation of binaural processing in individuals with and without musical training. Paper presented at the International Conference on Audiological Sciences (ICAS), Mangaluru.
2. Aishwarya Lakshmi & Chandni Jain (2019). Effects on Harmones on auditory processing abilities in females. Paper presented at the International Conference on Audiological Sciences, Mangaluru.
3. Ananya, B. & Prabhu, P. (2019). Evaluation of temporal processing in individuals with hypertension. Paper presented Paper presented at the International Conference on Audiological Sciences, Mangaluru.
4. Animesh Barman, Mekhala, Kavya, V., Swapna, N. (2020). Assessment of auditory neural coding in children with specific language impairement. Poster presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
5. Animesh Barman. (2019). Auditory Processing in children with specific langauge impairment: a FFR based study. Paper presented at Audicon VI Auditory Processing Disorder – An Update, MCHP, MAAHE, Manipal.
6. Anjana K. & Subalakshmi, J. (2020). Efficacy of curriculum based technological support in enhancing educational upliftment a case study. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
7. Ankit Anand, Mehulla Jain, Deepshika Kajur & Abhishek, B.P. (2020). Gesture decoding abilities for nouns and verbs. Paper presented at the National Convention of Speech and Hearing Association, Bihar held at Jamshedpur.
8. Arunraj K., Swapna N. & Pushpavathi, M. (2019). Amenities to cater to the needs of individuals with communication disorders: Initiatives of AIISH, Mysuru. Paper presented at the International Science Festival, Kolkata.
9. Arunraj, K., Nayana P.V. & Swapna, N. (2019). Continuing challenges with newborn hearing screening program: Loss to follow up in India. Paper presented at the International Science Festival, Kolkata.
10. Asha Yathiraj & Amruthavarshini, B. (2019). Effect of duration of monaural amplification on the speech identification scores of the non-aided ear. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
11. Basaiahgari Nagaraju, Devi, N. & Darga Baba Fakruddin (2019). Parents awareness and attitude on early identification and early rehabilitation of hearing loss - A questionnaire based report. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
12. Chandni Jain, Vipin Ghosh, P.G, Chetak, K.B. & Aishwarya Lakshmi (2019). Binaural integration abilities in adolescence. Paper presented at the International Conference on Audiological Sciences (ICAS), Mangaluru.
13. Chandni Jain, Vipin, P.G, & Aishwarya Lakshmi (2019). Maturation of speech perception in noise abilities during adolescence. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
14. Chandni Jain, Vipin, P.G. & Aishwarya Lakshmi (2019). Auditory processing abilities in adolescent girls with Iron Deficiency Anemia. Paper presented at the Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
15. Devi, N. & Sneha, P. (2019). Frequency following response for complex stimuli with and without hearing aids. Paper presented at the *ISHA KSB*, Kasaragod, Kerala.
16. Devi, N., Kalai Selvi, V.T., Karthik Venkat, Vikram, Baba, F. (2020). Evaluation of perception of Indian music in individuals with hearing impairment. Paper presented at the International Conference, ICRSM-2020, Jadavpur University, Kolkata.
17. Dhivya, D. & Prithi, V. (2020). Universal Curricular Design in Science-Are we meeting the 21st Century requirement? Paper presented at the National Conference on Inclusive Education and Adapted Physical Education: Traditional and New Approaches in Developing 21st Century Skills for Students with Special Needs, RKMVERI, Coimbatore.
18. Eliza Baby, Goswami, S.P. & Abhishek, B.P (2020). Evaluating the efficacy of ANN in persons with Aphasia. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
19. Gupta, S.K. (2020). Computer-based intervention for children with autism spectrum disorder. Paper presented at the 46th National Annual Conference of the Indian Association of Clinical Psychologist, Chandigarh.
20. Hrishitha, V.M., Neha, M.A., Vibhuti, S., Jeslin, J. & Prabhu, P. (2019). Evaluation of differential sensitivity in children with martial arts training. Paper presented at the International Conference on Audiological Sciences, Mangaluru.
21. Indira C.P., Sam Publius, Shreyank P. Swamy, Sharath Kumar K.S. & Sandeep, M. (2019). Definite and non-definite factors for the accurate identification of Otosclerosis. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
22. Jawahar Antony, Asha Yathiraj, Manjula, P., Geetha, C., Megha (2019). Non-acoustic reflex in children who underwent cochlear implantation through Veria technique. Paper presented at the CIGICON, Mumbai.
23. Jesnu, J.B., Hema, C., Devi, N. & Abhishek, B.P. (2020) Investigating distinct semantic processing ability in individuals with dementia using n-back task. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
24. Kadambari, N. Shobha, B.N. & K. Anjana (2020). Inclustive Education; A reality or a myth. Paper presented at the National Seminar on Understanding disability and Mental health towards inclusion organized by NIPMED and Expression India.
25. Kalaiselvi, V.T., Devi, N., Karthik, V.S., Vikram, A. & Baba, F. (2019). Evaluation of the perception of Indian Music in individuals with hearing impairment. Paper presented at the International Conference cum Workshop on Rhythm in Speech and Music, Jadavpur University, Kolkatta.
26. Kelker, P., Krishnan, J. & Maruthy, S. (2020). Construction and Validation of ashort version of theImpact Scale for Assessment of Cluttering and Stuttering(ISACS-s). Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON 2020), PGIMER, Chandigarh.
27. Kumar, P., & Singh, N.K. (2019). Utility of the computer based auditory training in children with central auditory processing disorders. Paper presented at the National Conference of the Cochlear Implant Group of India (CIGICON), Mumbai.
28. Kumar, P., Singh, N.K., & Kumar, R. (2019). Effect of Repetition Rate on Auditory Brainstem Response in Type 2 Diabetes Mellitus Individuals. Paper presented at Audicon VI Auditory Processing Disorder – An Update, MCHP, MAAHE, Manipal.
29. Kumar, P., Swapna, N., Arunraj, K. & Prithivi, T. (2019). Referral Rate Analysis in Neonatal Hearing Screening- A Retrospective Study. Paper presented at the National Conference of the Cochlear Implant Group of India (CIGICON), Mumbai.
30. Kumari Apeksha & Ajith Kumar, U. (2019). Effect of Quiet and Noise on P300 response in Individuals with Auditory Neuropathy Spectrum Disorder. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
31. Lakshmi Prabha, J.K. & Raksha Anand (2020). Universal Design for Learning in Indian Learning Environment: A preliminary Study. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
32. Lokheshwar, S. & Rajasudhakar, R. (2019). Medical Practitioner’s Awareness on Speech-Language Pathologists and their Services: A Pilot Study. Paper presented at Kodagu Speech & Hearing Conference (KoSHCON)-2019, Madikeri.
33. Malavika, P., Shreya, S., Indira, V., Pooja, S.V. & Prabhu, P. (2019). Evaluation of differential sensitivity for frequency and intensity in children with abacus training. Paper presented at the International Conference on Audiological Sciences, Mangaluru.
34. Manjula, P.V. & Ramanakumari, P.V. (2020). Yoga and Music for stress management of caregivers of children with various communication disorders. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
35. Manjula, P.V., Pushpavathi, M. & Ramanakumari, P.V. (2020). An insight into micronutrients in children with Hearing Impairment: An exploratory study. Paper presented at the National Seminar on Paradigm shift in early childhood education for children with communication disorders, AIISH, Mysuru.
36. Manohar, N. (2019). ‘ಸಂವಹನವನ್ನು ಸಕ್ರಿಯಗೊಳಿಸಲು ಅಸ್ಸಿಸ್ಟಿವ್ಟೆಕ್ನಾಲಜಿ ಸಾಧನ’. Paper presented in the event Kannada Vijnana Sammelana, Davangere.
37. Mansi Roy, Keerti Swarna & Prashanth Prabhu (2019). Assessment of auditory working memory in children with abacus training. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
38. Megha, Asha Yathiraj, Manjula, P., Geetha, C., Jawahar Antony, P. (2019). Reversed ipsilateral electrically evoked stapedial reflex (eSR) in children using cochlear implants. Paper presented at the National Conference of the Cochlear Implant Group of India (CIGICON), Mumbai.
39. Megha, K.N. & Prabhu, P. (2019). Development of hyperacusis Handicap questionnaire for individuals with tinnitus associated with hyperacusis. Paper presented at the International Conference on Audiological Sciences, Mangaluru.
40. Mehulla Jain, Shana Yasmin & Chandni Jain (2019). Unilateral selective inner hair cell damage: A Case Study. Paper presented at the 52nd the National Conference of the Cochlear Implant Group of India (CIGICON), Mumbai.
41. Nayana, P.V., Arunraj, K. &. Swapna N. (2019). Continuing challenges with newborn hearing screening program: Loss to follow up in India. Paper presented at the India International Science Festival, 2019, Kolkata.
42. Niraj Kumar Singh, Anuj Kumar & Sujeet Kumar Sinha (2019). Variations in VOR gain in individuals with Auditory Neuropathy Spectrum Disorder with hypo-functional caloric response. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
43. Niraj Kumar, Priya K.P., Asha Yathiraj, Manjula P., Geetha C., Megha Janardhan & P. Jawahar Antony (2019). The Efficacy of Cervical Vestibular-Evoked Myogenic Potentials in Mapping Current Levels in Cochlear Implant Recipients. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
44. Niraj Kumar, Sachchidanand Sinha, Prawin Kumar, Nirnay Kumar & Sudhir Kumar (2019). Relative efficacy of Veria and Mastoidectomy techniques of cochlear implantation in preservation of sound-induced saccular responses. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
45. Nisha, K.V. & Ajith Kumar (2019). Age-related changes in cortical coding of Auditory Space: Evidence from Electroencephalography. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
46. Nisha, K.V. & Ajith Kumar (2019). Towards the identification of optimal tool for Auditory Spatial Assessment. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
47. Pavana, M., Bincy, R.K., Swapna, N. & Kumar, P. (2019). Relative efficacy and test-retest reliability of two Automated Auditory Brainstem Response Hearing Screeners. Paper presented at ISHA KSB, Kasaragod, Kerala.
48. Prashanth, R. (2020). Awareness on Government welfare services for children with hearing impairment and intellectual disability among bachelor of education students in mysuru: Paper presented at the workshop on Emerging Trends in Research, Writing and Publishing Skills, St. Philomena’s College, Mysuru.
49. Prawin Kumar & Geetha, C. (2019). Aided speech evoked cortical potential in children with hearing impairment (6 months to 5 years). Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
50. Prithi, Alok K.U. & Asha, S.A. (2020). Handwriting development skills in children with Hearing Impairment using a Systematic Intervention Technique. Paper presented at the National Seminar Paradigm shift in early childhood education for children with communication disorders, AIISH, Mysuru.
51. Prithi, V. & Shobha, B.N. (2020). Perspectives of special educators towards science curriculum. Paper presented at the National Seminar on innovation and integration in education of Modern School Sciences and mathematics, organized by RIE, NCERT, Mysuru.
52. Prithi, V., Ramaa, S. & Kadambari, N. (2020). Problems faced by science teachers: elementary and secondary level. Paper presented at the National Seminar on innovation and integration in education of Modern School Sciences and mathematics, organized by RIE, NCERT, Mysuru.
53. R. Rajesh Kumar, Prawin Kumar, Vipin P.G., Kumari Apeksha & Niraj Kumar Singh (2019). The functioning of otolith organs and semicircular canals in individuals with type-ii diabetes mellitus. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
54. Rajkumar, R., Ramana Kumari, P.V. & Manjula, P.V. (2020). Attitudinal change among caregivers of children with communication disorders towards use of sign language in early intervention for better inclusion. Paper presented at the National Seminar Paradigm Shift in Early Childhood Education for Children with Communication Disorders, AIISH, Mysuru.
55. Rakesh, C.V. & Maruthy, S. (2020). Comparison of the relative efficacy of the prolonged speech and pause and talk techniques in school-age children who stutter. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
56. Rakesh, C.V., Jyothsna, K. & Maruthy, S. (2020). Adaptation and Validation of Communication Attitude Test (BigCAT) for Kannada Speaking Adults Who Stutter. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
57. Ramanakumari, P.V. & Manjula, P.V. (2020). Effectiveness of Developed Computer Based Tutor for Developing Literacy Skills in Preschool Children with Hearing Loss. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
58. Reesha, O., Abdul Hussain, Shwetha, G.N., Prawin Kumar & Niraj Kumar Singh (2019). Efficacy of computer-based speech-in-noise training module in Indian-English in children with Auditory Processing Disorders. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
59. Reesha, O.A., Swetha, G.N., Singh. N.K. & Kumar, P. (2019). Efficacy of Computer-Based Speech-in-Noise Training in Indian-English for Children with Auditory Processing Disorders. Paper presented at Audicon VI Auditory Processing Disorder – An Update, MCHP, MAAHE, Manipal.
60. Renuka C., Swapna N., Lakshmi Prabha, J. K, Bhavana, P.V. & Ajish K. Abraham (2019). Touch Screen: an interactive platform to learn arithmetic concepts for hearing impaired children attending preschool: case study. Paper presented at the First IEEE International Conference on advances in Information Technology (ICAIT-2019), Adichunchanagiri Institute of technology, Chikkamangaluru.
61. Reuben Verghese (2020). Maternal Burnout in Autism and DLD. Paper presented at the 4th Annual Multidisciplinary National Conference on Disability and Rehabilitation at CDMRP, University of Calicut.
62. Sandeep, M., Sharath Kumar, K.S., Indira, C.P., Sam Publius & Shreyank, P. Swamy (2019). Simultaneous acquisition of click and tone-burst ABR: A novel method for hearing estimation at audiometric frequencies in a quick time. Paper presented at the 52nd ISHACON, PGIMER, Chandigarh.
63. Sanket Satish, Aakanksha Pandey & Chandni Jain (2019). Effect of physical activity on temporal processing and speech perception in noise in middle aged adults. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
64. Seema, M. (2020). Stuttering with speech sound disorders: A case study. Paper presented at the Workshop on Emerging Trends in Research, Writing and Publishing Skills, St. Philomena’s College, Mysuru.
65. Shanbal, J.C. (2019). Dysgraphia - Definition, Signs and symptoms, Nature. Paper presented at the 21 Days’ National program on Assessment and management of children with learning disabilities. Centre for Academic Leadership & Education Management (CALEM), Department of Education, Panjab University, Chandigrh.
66. Shanbal, J.C. (2019). Levels of written language disorders- handwriting, visual-motor difficulties, motor memory, spelling, usage [language] and organization. Paper presented atthe 21 Days’ National program on Assessment and management of children with learning disabilities. Centre for Academic Leadership & Education Management (CALEM), Department of Education, Panjab University, Chandigarh.
67. Shanbal, J.C. (2019). Areas of remediation with specific strategies- handwriting, grammar, writing frameworks, story maps, graphic organizers, rubrics for frequent checks. Paper presented at the 21 Days’ National program on Assessment and management of children with learning disabilities. Centre for Academic Leadership & Education Management (CALEM), Department of Education, Punjab University, Chandigarh.
68. Shanbal, J.C. (2019). Assessment of written language disorders- formal and informal. Paper presented at the 21 Days’ National program on Assessment and management of children with learning disabilities. Centre for Academic Leadership & Education Management (CALEM), Department of Education, Punjab University, Chandigarh.
69. Shubhaganga Dhruva Kumar & Asha Yathiraj (2019). Relation between performance on an auditory memory test and perception of global memory in young and older adults. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
70. Shubhaganga, Dhruva Kumar & Asha Yathiraj (2019). Spatial and semantic localisation and auditory stroop test: Comparison of young and older adults. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
71. Sneha Shaji, Krishnapriya M.V. & B. Nagaraju (2019). Effect of different blood groups on tympanometric findings and acoustic reflex thresholds a preliminary study. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
72. Sneha, P. & Devi, N. (2019). Neural processing of speech and music stimuli in aided and unaided condition. Paper presented at the 2nd World *CNPD* KualaLumpur, Malaysia.
73. Sneha, P., Devi, N., Chandni, J. & Keerti, P. (2019). Hearing aid benefit questionnaire in school going children with hearing impairment in Kerala. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
74. Sreeraj Konadath & Megha, K.N. (2019). Combined Effects of Noise and Stimulation Rate on Noise Exposed Human Auditory Brainstem Responses. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
75. Sreeraj Konadath, Megha, K.N. & Ganapathy, M.K. (2019). Effects of Ageing versus Noise Exposure on Auditory System in Individuals with Normal Audiometric Thresholds. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
76. Srikar V., Prajwal, E., Gowtham V.S & Animesh Barman (2019). Relationship between suprathreshold auditory processing in individuals with clinically normal hearing and the compound action potentiasl measured with Eclectrocochleography. Paper presented at Audicon VI Auditory Processing Disorder – An Update, MCHP, MAAHE, Manipal.
77. Subalakshmi, J.K. Anjana & Raksha Anand (2020). Effectiveness of parent mediated educational training towards improved educational outputs of children with hearing impairment – A case study. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
78. Sujeet Kumar Sinha & Suman Shankar Penwal (2019). Menstrual cycle effect on VOR gain functions. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
79. Sumanth, P., Kumar, A. & Rajasudhakar, R. (2020). Perception of Speech & Personal Qualities of Non-Native Speech-Language Pathologists’ Accent. Paper presented at the International Conference cum Workshop on Rhythm in Speech and Music from Neuro-Cognitive Perspectives (ICRSM 2020), Jadavpur University, Kolkata.
80. Swapna N., Prawin Kumar, Bincy & Pavana (2019). Relative Efficacy and Test-Retest Reliability of Two Automated Auditory Brainstem Response Hearing Screeners. Paper presented at the National Seminar on auditory processing Disorder: An update (AUDICON), MAHE, Manipal.
81. Swapna, N. & Seshasri, D. (2019). Maternal Satisfaction and Perception of Feeding Cues in Newborns with and without High Risk Factors-A Preliminary Survey. Paper presented at the 12th Annual Conference, ISHA (KSB-ISHACON 2019), Kasargod, Kerala.
82. Swapna, N. Dafiah (2020). Effect of carbonation on mesures of hyolaryngeal elevation of swallow. Poster presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
83. Swapna, N., & Tallal, S. (2020). Effect of Age, bulb position and visual feedback on lip strength and endurance in typically developing Indian children. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
84. Swapna, N., Kavya, V., Mekhala, V.G. & Animesh, B. (2020). Effect of neurological integration on the linguistic patterns of typical and impaired language lerners. Paper presented at the 52nd Annual Conference of Indian Speech, Language and Hearing Association (ISHACON), PGIMER, Chandigarh.
85. Swapna, N., Kumar, P., & Thasni Jahan, K. (2019). Hearing, Speech and Language Disorders in Older Adults: An Outcome of Elderly Screening Program. Paper presented at ISHA KSB, Kasaragod, Kerala.
86. Swapna, N., Prawin Kumar & Thasni Jahan, K. (2019). Hearing, Speech and Language Disorders in Older Adults: An Outcome of Elderly Screening Program. Paper presented atthe 12th Annual Conference, ISHA (KSB-ISHACON 2019), Kasargod, Kerala.
87. Swapna, N., Vasanthalakshmi, M.S., Angeline., Nayana, V., & Kumar, P. (2019). Longitudinal Study on Effect of Occupational Noise on Audiometric Thresholds Over the years in Industry Workers. Paper presented at Audicon VI Auditory Processing Disorder – An Update, MCHP, MAAHE, Manipal.
88. Tanvi H., Rushal Thakur & Abhishek B.P. (2020). Testing the hypothesis of lexical retrieval in sentence production Poster presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
89. Thallal, S. & Swapna, N. (2019). Quantification of strength and endurance of lip and tongue in children with cerebral palsy. Paper presented at the 24th International symposium on Frontiers of Research in Speech and Music.
90. Vasupradaa & Hema, N. (2020). Acoustical analysis of vowel production in native Kannada speaking individuals with aphasia Poster presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON 2020), PGIMER, Chandigarh.
91. Vasupradaa & Hema, N. (2020). The Language Screening test in Tamil for patients with Acute Stroke. Poster presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON 2020), PGIMER, Chandigarh.
92. Vasupradaa, M. & Rajasudhakar, R. (2020). The language screening test in Tamil (LAST-T) for patients with acute stroke. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON 2020), PGIMER, Chandigarh.
93. Vijayalakshmi S. & Leena, C.C. (2020). Study on Need and Importance of Parent Enrichment Programme’. Paper presented at the 85th National Convention for the Educators of the Deaf (NCED), Vadodara, Gujarat.
94. Vinod, D., Devadas, U. & Maruthy, S. (2020). Cross-cultural adaptation and validation of the Evaluation of the Ability to Sing Easily (EASE) Scale for Kannada- Speaking Carnatic Classical Singers. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
95. Vinod, D., Devadas, U. & Maruthy, S. (2020). Immediate effect of straw phonation exercises on vocal loading in Carnatic classical singers. Paper presented at the 52nd Annual Convention of the Indian Speech & Hearing Association (ISHACON), PGIMER, Chandigarh.
96. Yashodharakumar, G.Y. (2020). Quality of life among children with and without LD: influence of age and gender. Paper presented at the 46th NACIACP conference, Chandigarh.

**Seminar Proceedings**

1. Ajish K. Abraham, Pushpavathi M., Sreedevi N. & Navya A. (2019). Exploring Acoustic Measures of Vowels (VSA, FCR3, VAI4, VFR) in Children with Hearing Impairment. In Sasha Calhoun, Paola Escudero, Marija Tabain & Paul Warren (eds.) Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019, pp. 1064-1068.
2. Anjana K. & Subalakshmi J. (2020). Efficacy of Curriculum based technological support in enhancing educational upliftment a case study. Souvenir of the 85th National Convention for the Educators of the Deaf (NCED), 45. Vadodara, Gujarat.
3. Kadambari, N., Shobha B.N. & K. Anjana (2020). Inclustive Education; A reality or a myth. Souvenir of the 4th expressed India and NIPMED, New Maharashtra Sadan Delhi.
4. Lakshmi Prabha, J.K. & RakshaAnand (2020). Universal Design for Learning in Indian Learning Environment: A preliminary Study. Souvenir of the 85th National Convention for the Educators of the Deaf (NCED), 38-39. Vadodara, Gujarat.
5. Manjula, P.V. & Ramanakumari, P.V. (2020). Yoga and music for stress management of caregivers of children with various communication disorders. Souvenir of the 85th National Convention for the Educators of the Deaf (NCED), 63-64. Vadodara, Gujarat.
6. Nisha, K. V. & Kumar, A.U. (2019). Test-Retest Reliability of Virtual Acoustic Space Identification Test in Individuals with Normal Hearing.Proceedings of the 47th National Symposium on Acoustics, Ravenshaw University, Cuttack, Oct 17-19, Odisha, Pg 63.
7. Nisha, K.V. & Kumar, A.U. (2019). Auditory Spatial Acuity in Closed Field as a Function of Age.Proceedings of the 47th National Symposium on Acoustics, Ravenshaw University, Cuttack, Oct 17-19, Odisha, Pg 62.
8. Ramanakumari, P.V. & Manjula, P.V. (2020). Effectiveness of developed computer based tutor for developing literacy skills in preschool children with hearing loss. Souvenir of the 85th National Convention for the Educators of the Deaf (NCED), 46-47. Vadodara, Gujarat.
9. Renuka, C., N.Swapna, P.V. Bhavana, L. Prabha and A.K. Abraham (2019). Touch Screen: An interactive platform to learn arithmetic concepts for hearing impaired children attending preschool: Case Study (2019), e-proceeding of the 1st International Conference on Advances in Information Technology (ICAIT), Chikmagalur, India.
10. Shobha, B.N., Kadambari N. & RakshaAnand (2020). Survey on Vocational training in Special school and regular school at early age of schooling. Souvenir of the 4th expressed India and NIPMED, New Maharashtra sadan Delhi.
11. Sreedevi., Sangeetha, M. & Priyadarshini, (2019). Stress perception among school age children. Proceedings of the 24th International symposium Frontiers of Research in Speech and Music, July, 6th – 7th, 2019, STM journal; consortium e-learning network. Jointly organized by Allen house institute of technology, Kanpur and Sir C.V. Raman centre for physics and music, Jadavpur University, Kolkata.
12. Subalakshmi, J., Anjana, K. & RakshaAnand (2020). Effectiveness of parent mediated educational training towards improved educational outputs of children with hearing impairment – a case study. Souvenir of the 85th National Convention for the Educators of the Deaf (NCED), 54-55. Vadodara, Gujarat.
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**Books/ Book Chapters**

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**In house publications**

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