**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 Department of Science and Technology (DST), Indian Council of Medical Research (ICMR), Science and Engineering Research Board (SERB), the Government of India funding agencies and UK Research and Innovation (UKRI), Global Alliance for Chronic Disease (GACD), University of Manchester, U.K. and United Nations Global Partnership for Assistive Technology, Geneva, the international funding agencies.

**Completed Projects**

Ninteen research projects worth **Rs. 108.77 lakhs** were successfully completed during the reporting year. Of these, two projects worth **Rs. 11.39 lakhs** were funded by extramural funding agencies and the remaining by the Institute.

1. Scalable hearing rehabilitation for low and middle income countries. Investigators: Dr. Jhon Newall, Dr. S.P. Goswami & Dr. Geetha C. Funding: United Nations Global Partnership for Assistive Technology, Geneva. Amount: Rs. 6.84 lakhs.
2. Sense-Cog Asia: An open label feasibility study of a supportive hearing intervention in dementia. Investigators: Dr. Iracema Leroi, Dr. Nusrat Hussain, Dr. S.P Goswami, Dr. Murali Krishnan & Dr. Sandeep M. Funding: University of Manchester, U.K. Amount: Rs. 4.55 lakhs.

**AIISH Funded Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Topic** | **Investigators** | **Amount in lakhs (Rs.)** |
|  | Automation of Malayalam articulation test using automatic speech recognition techniques | Dr. Ajish K Abraham,  Dr. Leena Mary &  Dr. N Sreedevi | 6.31 |
|  | Automatic quantification of the glottal area in the stroboscopic videos using deep neural network | Dr. Chandni Jain  Dr. Chetak K B &  Mr. Vipin Ghosh | 9.86 |
|  | Behavioural and electrophysiological correlates (N400) of lexical access in bilingual adults with stuttering | Dr. Santosh M. &  Dr. Abhishek B P | 4.33 |
|  | Computerized auditory training for kannada speaking children with hearing impairment | Dr. Yeshoda K &  Dr. Sreeraj K | 3.31 |
|  | Development and evaluation of indigenous curriculum oriented computer based tutor for concept learning in preschool children with special needs | Ms. P.V Ramanakumari,  Dr. Ajish K Abraham & Ms. P V Manjula | 6.73 |
|  | Development of grade level assessment test in science for upper primary school children (VI-VIII) | Dr. Prithi Venkatesh | 4.20 |
|  | Development of phonemically balanced word lists in Tamil language for adults | Dr. Geetha C &  Dr. Devi N | 4.88 |
|  | Development of some auditory related cognitive tests: assessment of cognitive reserve in individuals with older adults | Dr. Ajith Kumar U. &  Dr. Hemanth N | 9.51 |
|  | Effect of resource material on impact of Inclusive Education in Children with Intellectual Disabilities (ID) and Learning Disabilities (LD) | Dr. T K Prakash  Mr. Rahul Krishnamurthy Dr. Prasanta Kumar Ghosh & Dr. Suja S | 3.85 |
|  | Effect of Resource Material on Impact of Inclusive Education in Children with Intellectual Disabilities (ID) and Learning Disabilities (LD) | Dr. G Malar  Ms. P Prathima | 3.85 |
|  | Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid | Dr. Devi N | 4.98 |
|  | Life satisfaction and quality of life in persons with Aphasia beyond communication | Dr. S P Goswami | 4.96 |
|  | Morphosyntactic Processing in Dyslexia: Application of an ERP Measure | Dr. Amrita Kanchan &  Dr. Nawab A Khan | 4.03 |
|  | Perception and Production of Prosody in Children with Hearing Impairment | Dr. Jayashree C Shanbal Ms. Mamatha N M & Mr. Gopi Shankar R | 4.93 |
|  | Relationship between Auditory Abilities and Iron Deficiency Anemia in Adolescent Girls | Mr. Manohar N  Mrs. Revathi K R  Mr. Prashanth Prabhu P & Mr. Raghavendra G N | 5.33 |
|  | Stories of Aphasia: Exploring paths to recovery in India | Dr. S P Goswami  Dr. Julie A Hengst  Ms. Sonal V Chitnis  Dr. Brajesh Priyadarshi  Dr. Neeraja Karathi &  Ms. Pinky Singh | 11.99 |
|  | Syntactic judgment abilities in persons with non fluent aphasia | Dr. Abhishek B P &  Dr. K C Shyamala | 4.33 |

**Ongoing Projects**

Sixty-three research projects worth **Rs. 1579.18 lakhs** were ongoing in different departments of the Institute during the reporting year. Of these, seventeen projects worth **Rs. 1321.51 lakhs** were funded by extramural funding agencies and the remaining forty-six projects by the institute.

**Extramural Research**

1. Acoustic and perceptual analysis of disfluencies in children with stuttering: Pre and post therapy comparison. Investigator: Dr. Sangeetha Mahesh. Funding: Department of Science and Technology, Government of India. Amount: Rs. 25 lakhs.
2. Articulate+: A system for automated assessment and rehabilitation of persons with articulation disorders (In collaboration with IIT Guwahatti). Investigators: Dr. Ajish K Abraham, Dr. M. Pushpavathi & Dr. N. Sreedevi. Funding: Ministry of Education & Indian Council of Medical Research, Government of India. Amount: Rs. 137.49 lakhs.
3. Auditory and cognitive consequences of dys-synchronours auditory nerve activity. Investigators: Dr. Ajith Kumar U. & Dr. Sandeep M. Funding: Department of Science and Technology, Government of India. Amount: Rs. 44 lakhs.
4. Auditory processing and auditory cognitive measures in carriers of mutated genes that cause hearing loss. Investigators: Dr. Sandeep M. & Dr. Santhosh M. Funding: Department of Science and Technology, Government of India. Amount: Rs. 47.52 lakhs.
5. Cognitive linguistic abilities in children with cleft lip and palate: Phase II. Investigator: Dr. M. Pushpavathi. Funding: Department of Science and Technology, Government of India. Amount: Rs. 19.87 lakhs.
6. Cognitive stimulation therapy 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 Alliance for Chronic Disease (GACD), UKRI & Indian Council of Medical Research, Government of India. Amount: Rs. 628.29 lakhs.
7. Development and validation of RoAS (Robot for Articulatory Simulation). Investigators: Dr. Ajish K Abraham, Mr. Manohar N., Dr. N. Swapna & Ms. Renuka C. Funding: Department of Science and Technology, Government of India. Amount: Rs. 32.27 lakhs.
8. Effect of cognitive load on speech and voice characteristics across lifespan: A cross sectional study. Investigators: Dr. Jayakumar T. & Dr. K. Yeshoda. Funding: Department of Science and Technology, Government of India. Amount: Rs. 28 lakhs.
9. Effect of hearing aid processing strategies on auditory cognitive measures: Listening efforts, mental fatigue and semantic information processing. Investigators: Dr. Hemanth & Dr. Ajith Kumar U. Funding: Department of Science and Technology, Government of India. Amount: Rs. 39.20 lakhs.
10. 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, Government of India. Amount: Rs. 81.25 lakhs.
11. Efficacy of articulation and prosody intervention program for children with hearing impairment using hearing aids. Investigators: Dr. N Sreedevi & Dr. Sangeetha Mahesh. Funding: Science and Engineering Research Board, Government of India. Amount: Rs. 23.72 lakhs.
12. Efficacy of computer based training module on auditory and cognitive skills in children with central auditory processing disorder. Investigators: Dr. Prawin Kumar & Dr. Niraj Kumar Singh. Funding: Department of Science and Technology, Government of India. Amount: Rs. 28.49 lakhs.
13. 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, Government of India. Amount: Rs. 35.29 lakhs.
14. 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 and Technology, Government of India. Amount: Rs. 78.60 lakhs.
15. Neuroaudiological profiling of children with specific language impairment. Investigators: Dr. Animesh Barman, Dr. Swapna N. & Dr. Prashanth Prabhu. Funding: Department of Science and Technology, Government of India. Amount: Rs. 33.88 lakhs.
16. RAKSHA- Reach and Advocacy for Autistic Kids Sexual Health and Safety Attitudes. Investigator: Dr. Reuben Varghese. Funding: 2nd India Bioscience. Amount: Rs. 1.00 lakh.
17. 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. Amrita Kanchan. Funding: Department of Science and Technology, Government of India. Amount: Rs. 37.64 lakhs.

**AIISH Funded Research**

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| --- | --- | --- | --- |
| **Sl.**  **No.** | **Topic** | **Investigators** | **Amount in lakhs (Rs.)** |
| 1 | Adaptation and validation of vocal fatigue index (VFI) in Kannada | Dr. R Rajasudhakar | 4.33 |
| 2 | An exploratory study of tinnitus in Indian context | Dr. K Rajalakshmi, Mr. Vinaya K C.,  Dr. David Baguly &  Dr. Gerhard Andersson | 4.03 |
| 3 | Auditory brain plasticity in carnatic vocalists, instrumental musicians and non-musicians | Dr. K Rajalakshmi | 4.03 |
| 4 | Auditory temporal processing in older adults: A behavioural and electrophysiological measures | Dr. Prashanth Prabhu | 5.18 |
| 5 | Automatic quantification of the glottal area in the stroboscopic videos using deep neural network | Dr. T K Prakash,  Mr. Rahul Krishnamurthy,  Dr. Prasanta Kumar Ghosh & Dr. Suja S | 9.86 |
| 6 | Behavioral and electro-physiological correlates of lexical semantic activation in high and low proficient bilinguals | Dr. Sandeep M.,  Dr. Abhishek B P &  Dr. Chandni Jain | 4.88 |
| 7 | Behavioural and electro physio-logical (P300) correlates for visual and auditory process in Alzheimer’s diseases | Dr. Hema N &  Dr. Devi N | 4.88 |
| 8 | Cochlear implant outcome measures: Comparison of rating scales and speech perception | Dr. Megha &  Mr. Jawahar Antony | 5.05 |
| 9 | Cognitive linguistic intervention program for children at risk for learning disability | Dr. Jayashree C Shanbal & Mr. Hariharan V | 4.93 |
| 10 | Computerized auditory training for Kannada speaking children with hearing impairment | Mr. Manohar N,  Mrs. Revathi K R.,  Dr. Prashanth Prabhu P & Mr. Raghavendra G N | 3.31 |
| 11 | Design and development of E-learning platform and faculty profile system | Dr. Shijith Kumar C  Mr. Manohar N &  Dr. Malar G | 4.68 |
| 12 | Development and Checking the Effectiveness of training module for preschool parent empowerment program (PPEP) for children with special needs at AIISH | Dr. Alok Kumar Upadhyay  Dr. Palnaty Vijetha &  Ms. P V Ramanakumari | 8.30 |
| 13 | Development and standardization of questionnaire to assess the outcome in adult hearing aid users | Dr. K. Rajalakshmi,  Ms. Mamatha N M &  Dr. Ramadevi Sreenivas K J | 4.33 |
| 14 | Development and standardization of western aphasia revised battery in Tamil | Dr. Hema N | 4.88 |
| 15 | Development and validation of a mobile application tool for arithmetic concept teaching for preschoolers | Dr. Swapna N | 7.88 |
| 16 | Development of a Grade Level Assessment test in Social Sciences grade VII and VIII of Karnataka State Education Board for typically developing children and for children with hearing impairment. | Dr. Palnaty Vijetha  Dr. Alok Kumar Upadhyay &  Mr. Rajkumar R | 8.35 |
| 17 | Development of an automatic speech processing based system for assessment of stuttering in Kannada speaking adults | Dr. Ajish K Abraham  Dr. Anil Kumar Vuppala & Dr. Sangeetha Mahesh | 12.67 |
| 18 | Development of speech enabled communication tool for clients with speech impairment in Kannada | Mr. Manohar N | 4.95 |
| 19 | Development of Visual Scene Display (VSD) based Augmentative and Alternative Communication (AAC) system | Mr. Karthik Venkat Sridaran Dr. V Vivek  Mr. Reuben Thomas Varghese &  Dr. Ajish K Abraham | 5.40 |
| 20 | Disability evaluation in mental retardation using WHODAS 2.0 in a clinical setting | Mr. Freddy Antony &  Dr. Sanjeev Kumar Gupta | 3.25 |
| 21 | Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy | Dr. N Swapna | 4.93 |
| 22 | Effect of rhythm of the background language and working memory on speech perception in elderly hearing impaired individuals | Dr. Geetha C  Dr. Santosh M | 5.45 |
| 23 | Effectiveness of the adapted science text lessons for children with hearing impairment studying in Grade V | Dr. Prithi Venkatesh | 10.20 |
| 24 | Effect of resource material on impact of inclusive education in children with intellectual disabilities (ID) and learning disabilities (LD) | Dr. G Malar &  Ms. P Prathima | 3.85 |
| 25 | Electrophysiological assessment of auditory and vestibular neural functioning in individuals with diabetes mellitus | Dr. Prawin Kumar,  Dr. M Bhanukumar,  Dr. Niraj Kumar Singh, Mr. Vipin Ghosh &  Dr. Kumari Apeksha | 4.88 |
| 26 | Feasibility of standardized neuropsychological tests in assessment of patients with aphasia | Dr. Amrita Kanchan &  Dr. Nawab A Khan | 3.30 |
| 27 | Field-testing of ‘Constant Therapy’ in Hindi and Kannada | Dr. S.P Goswami &  Dr. Swathi Kiran | 4.93 |
| 28 | Impact of acoustic stimuli used for various measures of VEMP on the auditory system | Dr. Niraj Kumar Singh & Dr. Prawin Kumar | 4.93 |
| 29 | 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 | Dr. Ajith Kumar U &  Dr. Nisha K V | 4.85 |
| 30 | Life satisfaction and quality of life in persons with aphasia beyond communication | Dr. S P Goswami | 4.96 |
| 31 | Modifying the design of Automated Malayalam Articulation Test to improve accuracy for evaluation of children with severe articulatory disorders | Dr. Ajish K Abraham  Dr. Leena Mary &  Dr. N Sreedevi | 5.80 |
| 32 | Morphosyntactic processing in dyslexia: application of an ERP measure | Dr. Jayashree C Shanbal, Ms. Mamatha N M &  Gopi Shankar R | 4.03 |
| 33 | Normative data for click rate induced facilitation for assessing temporal integration | Dr. K. Rajalakshmi &  Mr. Prashasti P Poovaiah | 4.93 |
| 34 | Perception and production of prosody in children with hearing impairment | Dr. Yeshoda K &  Dr. Sreeraj K | 4.93 |
| 35 | Prevalence and risk factors for voice problems and effect of voice projection training in imams | Dr. Jayakumar T | 4.88 |
| 36 | Prevalence and risk factors of voice problems and knowledge of vocal health in professional carnatic singers and non-singers | Dr. Usha Devdas &  Dr. M Santosh | 4.93 |
| 37 | Probing hidden hearing loss in individuals with different levels of noise exposure | Mr. Arunraj K  Dr. Animesh Barman | 4.83 |
| 38 | Product development of useful products of research carried out at AIISH | Dr. Prashanth Prabhu, Dr. Shijith Kumar C & Dr. Priya M B | 5.03 |
| 39 | Reading impairments in Kannada-English bilinguals individuals with fluent & non-fluent types of aphasia | Dr. Sunil Kumar Ravi,  Dr. Pebbli Gopikishore & Dr. Shyamala K C | 5.08 |
| 40 | Relationship between auditory abilities and iron deficiency anemia in adolescent girls | Dr. Chandni Jain,  Dr. Chetak K B &  Mr. Vipin Ghosh | 5.33 |
| 41 | Short term correlations between speech motor variability and behavioural dysfluencies in persons with stuttering following fluency shaping therapy | Dr. Anjana B Ram &  Mr. Mahesh B V M | 4.85 |
| 42 | Standardization of a discourse analysis scale for conversation, narration and picture description in Kannada | Dr. Hema N &  Dr. K C Shyamala | 4.03 |
| 43 | Stimulability assessment as an outcome measure of phonological intervention in Kannada speaking children with speech sound disorders | Dr. Priya M B &  Dr. N. Sreedevi | 5.00 |
| 44 | Stories of aphasia: exploring paths to recovery in India | Dr. S.P Goswami,  Dr. Julie A Hengst,  Ms. Sonal V Chitnis,  Dr. Brajesh Priyadarshi, Dr. Neeraja Karathi & Ms. Pinky Singh | 11.99 |
| 45 | The genetics of sensorineural hearing loss | Dr. K. Rajalakshmi,  Dr. Srinivas K., &  Dr. Jayakumar T | 9.68 |
| 46 | Treatment outcome of group therapy program in adults who stutter | Dr. M Sangeetha | 4.90 |

**New Research Projects**

Six research projects worth **Rs. 36.93 lakhs** funded by the Institute were initiated during the reporting year.

**AIISH Funded Research**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.  No. | Topic | Investigators | Amount in lakhs (Rs.) |
| 1 | Association between speech in noise perception and different measures of bottom-up and top-down processing across age in adults with normal hearing sensitivity. | Mr. Srikar Vijayasarathy & Dr. Animesh Barman | 5.25 |
| 2 | Effectiveness of the adapted science text lessons for children with hearing impairment studying in Grade V | Dr. Prithi Venkatesh | 10.20 |
| 3 | Late latency potentials as auditory performance indicators in cochlear implantees | Dr. P Manjula &  Dr. Geetha C | 5.45 |
| 4 | Mobile application for conditioning infants before the hearing test | Dr. N Hemanth & Dr. Ajith Kumar U | 6.13 |
| 5 | Stimulability assessment as an outcome measure of phonological intervention in Kannada speaking children with speech sound disorders | Dr. Priya M B &  Dr. N Sreedevi | 5.00 |
| 6 | Treatment outcome of group therapy program in adults who stutter | Dr. M Sangeetha | 4.90 |

**Doctoral and Post-doctoral Research**

Totally, twenty-four students completed their doctoral research during the reporting year. In addition, 71 students were pursuing their doctoral and one student, post-doctoral research. Of the 71 doctoral students, 35 joined newly. The details of the doctoral research are given in tables 1 to 3 and the post-doctoral research in table 4.

**Table 1: Completed Doctoral Research**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Candidate** | **Category** | **Topic** | **Guide** | **Status** |
|  | **Audiology** | | | | |
|  | Anoop B J | External | Cognitive and ERP measures of informational masking in young and elderly normal hearing individuals | Dr. Ajith Kumar U | Degree  Awarded |
|  | Arunraj K | In-service | Clinical validation of wideband absorbance tympanometry in detecting middle ear disorders | Dr. Animesh Barman | Degree  Awarded |
|  | Jawahar Antony P | In-service | 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 | Degree  Awarded |
|  | Mamatha N M | In-service | Effect of auditory processing abilities on academic performance in Kannada speaking primary school children | Dr. Asha Yathiraj | Degree  Awarded |
|  | Reesha O. A | DST-JRF | Efficacy of computer-based auditory separation training in children with auditory processing disorders | Dr. Prawin Kumar | Degree  Awarded |
|  | Shubha Tak | External | Loudness perception in children using hearing aids and children using cochlear implants | Dr. Asha Yathiraj | Degree  Awarded |
|  | Vignesh S S | External | Auditory vestibular functions in individuals with multiple sclerosis | Dr. K Rajalakshmi | Degree  Awarded |
|  | Vikas M D | In-service | Effects of temporal resolution, working memory and personality on hearing aid benefit in older adults | Dr. Manjula P | Degree  Awarded |
|  | Pavan M | External | Investigation of mechanism underlying poor speech perception in individual with cochlear hearing loss based on recovered envelope cues and the contribution of temporal fine structure cues in sequential segregation | Dr. K Rajalakshmi | Thesis Submitted |
|  | Prajna Bhat J | External | Brainstem neurophysiological correlates of pitch coding in vocal and instrumental musicians | Dr. K Rajalakshmi | Thesis Submitted |
|  | Priyanka Jaisinghani | DST-JRF | Validation of speech enhancement and noise reduction strategies in individuals with sensorineural hearing loss and auditory neuropathy spectrum disorders | Dr. Manjula P | Thesis Submitted |
|  | Shreyank P Swamy | External | Comparison of contralateral suppression of otoacoustic emissions between children with APD and children with ADHD | Dr. Asha Yathiraj | Thesis Submitted |
|  | **Speech-Language Pathology** | | | | |
|  | Amoolya G | External | Bilingual effect on written language skills in Kannada-English bilingual-biliterate children with learning disability | Dr. Jayashree C Shanbal | Degree  Awarded |
|  | Aparna V S | External | Speech and language outcomes in school going children following early primary cleft palate repair | Dr. M Pushpavathi | Degree  Awarded |
|  | Darshan  H S | AIISH-JRF | A comparative study on statistical learning abilities in persons with aphasia and neuro-typical individuals | Dr. S P Goswami | Degree  Awarded |
|  | Deepak P | AIISH-JRF | Efficacy of verb network strengthening treatment in persons with aphasia | Dr. S P Goswami | Degree  Awarded |
|  | Deepthy Ann Joy | AIISH-JRF | Acoustic and articulatory characteristics of Malayalam speaking children using Cochlear Implant | Dr. N Sreedevi | Degree  Awarded |
|  | Divya Seth | External | Efficacy of response cost treatment in preschool children who stutter | Dr. Santosh M | Degree  Awarded |
|  | Priyanka | External | Cross-linguistic generalization of fluency in Kannada-English bilingual adults who stutter: Effect of non-programmed prolonged speech treatment | Dr. Santosh M | Degree  Awarded |
|  | Rakesh  C V | AIISH-JRF | Efficacy of prolonged speech and pause and talk techniques in school-aged children with stuttering: A comparison | Dr. Santosh M | Degree  Awarded |
|  | Reuben Thomas Varghese | In-service | Comparison of early cognitive-communicative deficits between persons with dementia of alzheimer’s type and mild cognitive impairment | Dr. S P Goswami | Degree  Awarded |
|  | Anitha Naittee Abraham | External | 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 | Thesis Submitted |
|  | Srushti Shabnam | External | Acoustic voice quality index based dysphonia severity classification | Dr. M Pushpavathi | Thesis Submitted |
|  | Vineetha Sara Philip | AIISH-JRF | Symbolic language abilities for aided communication in persons with Aphasia | Dr. S P Goswami | Thesis Submitted |

**Table 2: Ongoing Doctoral Research**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Candidate** | **Category** | **Topic** | **Guide** |
| **Audiology** | | | | |
|  | Anuprasad S | External | Auditory processing and auditory working memory in children with benign epilepsy with centrotemporal spikes | Dr. K Rajalakshmi |
|  | Darga Baba Fakruddin | In-service | Effect of age, hearing loss working memory on speech recognition in naive hearing aid users | Dr. K Rajalakshmi |
|  | Deepashree S R | External | Auditory brainstem responses and otoacoustic emissions in infants born to mothers with iron deficiency anaemia | Dr. Ajith Kumar U |
|  | Dhanya M | External | Perceptual cues of coarticulation in Malayalam in normal hearing and hearing impaired individuals | Dr. Sandeep M |
|  | Indira C P | DST-JRF | Hearing help seeking behaviour in parents of children with hearing loss | Dr. Sandeep M |
|  | Jim Saroj Winston | AIISH-JRF | Effect of short-term musical training on psycho-acoustical, electrophysio- logical and working memory measures | Dr. Ajith Kumar U |
|  | Krupa Saira George | AIISH-JRF | Effect of native and non-native babble background on speech identification of individuals with normal hearing and hearing impairment | Dr. K Rajalakshmi |
|  | Merin Mathews | DST-JRF | Audio-visual speech perception in individuals with ANSD: Effect of audio-visual training evidenced through ERP and behavioural measures | Dr. K Rajalakshmi |
|  | Priyadharisini K | DST-JRF | Effect of auditory training using envelope enhanced speech on speech perception abilities in persons with auditory neuropathy spectrum disorder | Dr. Ajith Kumar U |
|  | Rakesh Gatla | AIISH-JRF | Effect of exposure to below-damage risk criteria environmental noise on auditory processing abilities | Dr. Sandeep M |
|  | Sahana V | AIISH- JRF | Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure | Dr. Ajith Kumar U |
|  | Shubhaganga D | AIISH-JRF | Influence of education, employment and gender on auditory processing and cognition in older adults | Dr. Asha Yathiraj |
|  | Sreena E N | AIISH-JRF | Preferred compression amplification setting for individuals with varying audiogram configurations | Dr. Manjula P |
|  | Srikar V | External | 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 |
| **Speech-Language Pathology** | | | | |
|  | Girish K S | DBT-JRF | Development of norms for nasospeech in typically developing children | Dr. M Pushpavathi |
|  | Jyothi S | External | Child-directed speech versus adult-directed speech: Comparison of acoustic measures between mothers of typically developing children and children with hearing impairment | Dr. Santosh M |
|  | Manju S | External | Speech and language development in Malayalam speaking toddlers with repaired cleft lip and palate | Dr. M Pushpavathi |
|  | Nikitha M | AIISH-JRF | Gesture perception and production abilities in persons with aphasia: A comparative study | Dr. S P Goswami |
|  | Nirmal Sugathan | External | Comparison of phonological processing between children who persist and recover from stuttering | Dr. Santosh M |
|  | Ranjini G.C. | External | Derived acoustic measures of vowels in Kannada speaking children with cochlear implant | Dr. N Sreedevi |
|  | Seema M | External | Efficacy of Prolongation Speech Therapy Technique and Pause and Talk Techniques in Adults with Stuttering: A comparison | Dr. Santosh M |
|  | Sonam Belliappa M | AIISH- JRF | Use of chin tuck against resistance and neuromuscular electrical stimulation for swallow function in Parkinson's Disease : A comparative study | Dr. S P Goswami |
|  | Sunitha Sendhilnathan | External | Effect of language intervention in english as a medium in monolingual and bilingual children with autism spectrum disorders a comparison | Dr. Shyamala  K C |
|  | Susan G Oommen | External | Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders | Dr. Shyamala  K C |
|  | Sushma Manjunath | AIISH- JRF | Development and validation of therapy protocol for compensatory articulation in children with repaired cleft lip and palate | Dr. M Pushpavathi |
| **Speech and Hearing** | | | | |
| 26. | Ranjitha R | External | Development and standardization of a test battery to evaluate phonological representations in Malayalam speaking preschool children | Dr. N Sreedevi |
| 27. | Sneha Mareen Varghese | External | Graphophonological-semantic flexibility and reading comprehen-sion in children with dyslexia | Dr. Jayashree C Shanbal |
| **Special Education** | | | | |
| 28. | Devaraj N B | External | Effectiveness of school readiness program on pre-school children with hard of hearing | Dr. Alok Kumar Upadhyay |
| 29. | Dhivya D | External | Effect of interactive learning application tool on simple reasoning ability, memory and problem solving skill of preschool children with hearing impairment | Dr. Alok Kumar Upadhyay |
| 30. | Lakshmi Prabha J.K. | External | Yet to decide | Dr. Alok Kumar Upadhyay |
| 31. | Nagarathnamma | External | Yet to decide | Dr. Alok Kumar Upadhyay |
| 32. | Omar Wajdy Aref Al- Rawashdeh | External | Yet to decide | Dr. Alok Kumar Upadhyay |
| 33. | Subramanya K R | External | Effect of adapted story and rhymes package on listening skill, speaking skill, pre-reading skill and pre-writing skill of preschool children with hearing impairment | Dr. Alok Kumar Upadhyay |
| **Linguistics** | | | | |
| 34. | Eman Al Haider Moussabi | External | Yet to decide | Dr. Brajesh Priyadarshi |
| 35. | Maisa'A Jamal Mahmoud Alshawawreh | External | The role of cognition and use of multimedia in vocabulary learning of Jordan Imtermediate school children | Dr. Hema N |
| 36. | Tasnim A.S. Swaitti | External | Language contact in Hebron: Semantics borrowing and phonological changes in bilingual context | Dr. K Yeshoda |

**Table 3: Newly Joined Research Fellows for Doctoral Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Candidate** | **Category** | **Guide** |
| **Audiology** | | | | |
|  | Bhalerao Sanket Satish | External | Dr. Geetha C |
|  | Dhananjay Rachana | External | Dr. Devi N |
|  | Gowri R | AIISH-JRF | Dr. Sandeep M |
|  | Kriti Arora | AIISH-JRF | Dr. Sandeep M |
|  | Meghana Mohan B | AIISH-JRF | Dr. K Rajalakshmi |
|  | Meghana N | AIISH-JRF | Dr. Manjula P |
|  | Nayana M | AIISH-JRF | Dr. Prawin Kumar |
|  | Pathak Mayur Balaji | External | Dr. Chandni Jain |
|  | Priyanjali Harit | External | Dr. Prawin Kumar |
|  | Rajesh Kumar R | AIISH-JRF | Dr. Niraj Kumar Singh |
|  | Rashmi E | AIISH-JRF | Dr. Devi N |
|  | Sahana P | AIISH-JRF | Dr. Manjula P |
|  | Shezeen Abdul Gafoor | AIISH-JRF | Dr. Ajith Kumar U |
|  | Sridhar S | AIISH-JRF | Dr. Devi N |
|  | Syeda Aisha | AIISH-JRF | Dr. Chandni Jain |
|  | Vinayagar P T | AIISH-JRF | Dr. Sujeet Kumar Sinha |
|  | Vineetha C V | External | Dr. Animesh Barman |
| **Speech-Language Pathology** | | | | |
|  | Akshaya S | External | Dr. SP Goswami |
|  | Bilvashree C | AIISH-JRF | Dr. Swapna N |
|  | Ceana Mariya Paul | AIISH-JRF | Dr. K Yeshoda |
|  | Divyashree K N | AIISH-JRF | Dr. N Sreedevi |
|  | Geetha MP | External | Dr. T Jayakumar |
|  | Jesnu Jose Benoy | AIISH-JRF | Dr. T Jayakumar |
|  | Kavya V | AIISH-JRF | Dr. Swapna N |
|  | Khyathi G Jain | External | Dr. S P Goswami |
|  | Lakshmipriya S M | External | Dr. Hema N |
|  | Manasa A S | External | Dr. M Pushpavathi |
|  | Nagashreeya D | External | Dr. SP Goswami |
|  | Pooja C | AIISH-JRF | Dr. Hema N |
|  | Ranjitha Kashyap B N | AIISH-JRF | Dr. T Jayakumar |
|  | Revathi R | AIISH-JRF | Dr. K Yeshoda |
|  | Sahana Srinivasan | AIISH-JRF | Dr. Swapna N |
|  | Vasupradaa M | AIISH-JRF | Dr. Santosh M |
|  | Yashaswini B C | AIISH-JRF | Dr. Hema N |
| **Speech and Hearing** | | | | |
|  | Jothi S | External | Dr. Jayashree C Shanbal |

**Table 4: Ongoing Post-doctoral Research**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Candidate** | **Category** | **Topic** | **Guide** |
| 1 | Dr. G Malar | External | Academic screening adapted for children with communication disorders | Dr. S P Goswami |

**Postgraduate 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 and M.Sc. Speech-Language Pathology are given in table 5 and the ongoing research works in table 6.

**Table 5: Completed postgraduate research**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Candidate** | **Topic** | | **Guide** |
| **Audiology** | | | | |
|  | Aashish Sharma | Listening habits of young adults during lockdown: A survey | | Dr. Geetha C |
|  | Abhishek Umashankar | The light cupula phenomenon: A systemic review | | Dr. Animesh Barman |
|  | Adithya S S | Canalith repositioning maneuvers for treatment of posterior semicircular canal: A systematic review | | Dr. Niraj Kumar Singh |
|  | Aiza Fatima Raza | Indicators for cochlear implantation in individuals with auditory neuropathy spectrum disorders: A systematic review | | Dr. Prashanth Prabhu P |
|  | Aman Kumar | Prevalence of hearing loss in geriatrics | | Ms. Mamatha N M |
|  | Anju Sara Eby | A survey on awareness about various audiological cnditions in students and their classroom management amongst teachers in Kerala | | Dr. Chandni Jain |
|  | Ankit Kumar Lohani | A tutorial on vestibular evoked myogenic potential | | Dr. Sujeet Kumar Sinha |
|  | Anshuman Yadav | Speech perception outcomes using Bone Conduction Implants: Systematic review | | Dr. Prawin Kumar |
|  | Apoorva Prathibha K S | Longitudinal study on audiological and language outcomes in children using hearing aids: A comparative study of ANSD and SNHI | | Dr. Nisha K V  Co- Guide:  Dr. Ajith Kumar U |
|  | Ariya Jayan | Speech perception outcomes in children using Auditory Brainstem Implants: Systematic review | | Dr. Prawin Kumar |
|  | Arsiwala Tasneem M | [Cortical auditory evoked potentials as  performance indicators in cochlear implant: A systematic review](https://pubmed.ncbi.nlm.nih.gov/30295156/) | | Dr. Geetha C |
|  | Atul P R | Sudden sensorineural hearing loss-Literature review | | Dr. Rajalakshmi K |
|  | Bhagyashree Ishwar H | Trend analysis of hearing aids dispensed under HDDU scheme at AIISH | | Dr. Sandeep M |
| **Sl. No.** | **Candidate** | **Topic** | | **Guide** |
|  | Chethan K | Auditory brainstem responses in acoustic neuroma - a systematic review | | Dr. Ajith Kumar U |
|  | Chitra K | Systematic review of music perception in children with cochlear implant | | Dr. Devi N |
|  | Dilli Raj Paudel | Prevalence and characteristics of congential hearing loss in children: A register based study | | Ms. Mamatha N M |
|  | Dyuthi B | Prevalence, audiological characteristics and management of individuals diagnosed with ANSD for a period of one year at AIISH (January 2019 to December 2019) | | Dr. Chandni Jain |
|  | Freddy Jose | Hearing aid benefit in individuals with ANSD: A retrospective study | | Ms. Mamatha N M |
|  | Hasla Hamza Valiyadan | A systemic review on effectiveness of early cochlear implantation on speech perception and quality of life | | Dr. Chandni Jain |
|  | Jijinu P S | Utility of video head impulse test in Meniere's Disease: A systematic review | | Dr. Sujeet Kumar Sinha |
|  | Kajol N | Effectiveness of online teaching in training prospective peech-language pathologists and audiologists | | Dr. Sandeep M |
|  | Kruthika S | Evidence of synaptopathy in individuals with tinnitus: A systematic review | | Dr. Prashanth Prabhu P |
|  | Meena Rao | Noise induced hearing loss: Clinical presentation | | Dr. Sreeraj K |
|  | Mridul Pratik Khakha | Listening to music with hearing aids - A systematic review | | Dr. Manjula P |
|  | Muthu Kartick L | Application of ICF framework for noise induced hearing loss | | Dr. Sreeraj K  Co- Guide:  Dr. Nisha K V |
|  | Namitha Jain | Prevalence of auditory hallucinations in individuals with hearing impairment | | Dr. Sreeraj K |
|  | Prabuddha Bhatarai | Speech perception outcomes in children using cochlear implants: Systematic review | | Dr. Prawin Kumar |
|  | Prakruthi M K | Auditory training strategies for auditory processing disorder: A review | | Dr. Devi N |
|  | Prateek Lokwani | Audiological profiling and voice characteristics in congenital and late onset auditory neuropathy spectrum disorder | | Dr. Nisha K V  Co- Guide:  Dr. Prashanth Prabhu P |
|  | Praveen Prakash | Audiologic management of auditory neuropathy spectrum disorder in children-A systematic review of the Literature | | Dr. Rajalakshmi K |
| **Sl. No.** | **Candidate** | **Topic** | | **Guide** |
|  | Rachna Hanji | Profiling listening needs of individuals with Hearing Impairment | | Dr. Manjula P |
|  | Sahana T S | Prevalence and causes of hearing loss in Mysore District-A retrospective study | | Dr. Rajalakshmi K |
|  | Saranya Arya Mundayoor | Role of temporal cues in speech perception – A systematic review | | Dr. Ajith Kumar U |
|  | Shejal Kasera | Canalith repositioning maneuvers for treatment of lateral semicircular canal: A systematic review | | Dr. Niraj Kumar Singh |
|  | Shingi Dipti Santosh K | Online survey of hearing help-seeking behaviour in parents of children with hearing loss | | Dr. Sandeep M |
|  | Shradha Manandhar | A tutorial on repositioning maneuvers for  benign paroxysmal positional vertigo | | Dr. Sujeet Kumar Sinha |
|  | Sunny Khurana | A retrospective study on clinical test battery for persons with normal hearing with tinnitus; bridging the gap from research to clinical practice | | Dr. Animesh Barman |
|  | Suryakant Yadav | ABR findings in hidden hearing loss: A systemic review | | Dr. Animesh Barman |
|  | Vidya Gowda S L | Attitude and knowledge of teachers on education for children with hearing impairment: A systematic review | | Dr. Devi N |
|  | Zohra Nafees Ghori | Development of quality of life questionnaire for children using hearing devices in English and Kannada | | Dr. Geetha C |
| **Speech-Language Pathology** | | | | |
|  | Akshit Anand | Development of a questionnaire to assess psychosocial issues in professional voice users | Mr. Freddy Antony  Co-Guide: Dr. Yeshoda K | |
|  | Amritha Varshini S | Public education material for professional voice users-teachers, singers, and radio jockey | Dr. Jayakumar T | |
|  | Anima Goyal | Development of a minimal pair manual in Hindi for the intervention of children with speech sound disorders | Dr. Sreedevi N | |
|  | Ashiyath Anshaba P | Development of activity resource manual for group therapy in children who stutter | Dr. Sangeetha M | |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** | |
|  | Ashritha M Hegde | Development of theory of mind activities for individuals with right hemisphere damage/traumatic brain injury- a virtual training manual | Dr. Hema N | |
|  | Architaa R S | Analysis of scholarly communication on voice: A scientometric study | Dr. Rajasudhakar R | |
|  | Ashitha Paul K | Manual for training pragmatic language skills through social stories | Dr. Jayashree C Shanbal | |
|  | Ashiya Shaima | Perspectives of students in tele-service delivery in speech-language pathology | Dr. Rajasudhakar R | |
|  | Bandhan Kumar Pradhan | Use of technology in the treatment of aphasia: A systematic review | Mr. N Manohar  Co-Guide: Dr. Anjana B Ram | |
|  | Biraj Bhattarai | Derived measures of vowel acoustics in children: A systematic review | Dr. Sreedevi N | |
|  | Christabale Jane | Effect of phonological and morphological factors on the frequency of stuttering in children who stutter - a systematic review | Dr. Santosh M | |
|  | Gayathri | Home training program for children with cleft lip and palate | Dr. Pushpavathi M | |
|  | Jeevan R S | A preliminary study to develop an android based application for intonation training in children with hearing impairment | Dr. Reuben T Varghese  Co-Guide: Sreedevi N | |
|  | Joanna K B | Computerized Manual for training Syntax in children. | Dr. Jayashree C Shanbal | |
|  | Joel Joseph | Clinical tutorial on cluttering for speech-language pathologists | Dr. Sangeetha M | |
|  | Kapasi Arva Shabbirbhai | Development of a manual in Gujarati for the intervention of children with speech sound disorders using minimal pairs | Dr. Sreedevi N | |
|  | Kavitha J | Development of cognitive linguistic intervention manual in Kannada for persons with dementia: an adaptation of CLIM- Malayalam | Dr. Goswami S P | |
|  | Keneitsolo-U Koza | Acoustic analysis of lexical tone in two Naga languages | Dr. Santosh M | |
|  | Kusuma M | Development of a resource manual in Kannada for training phonotactic structure in children with apraxia of speech | Dr. Swapna N | |
|  | Madhusudhan B M | Assessment of voice characterstics through virtual mode | Dr. Ajish K Abraham  Co-Guide: Dr. Jayakumar T | |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** | |
|  | Mallika Nikita Lewis | Knowledge and use of visual supports among speech-language pathologists for children with autism spectrum disorder | Dr. Anjana B Ram | |
|  | Mansi Karnad | School administrators understanding of the rights of children with disabilities and their readiness for inclusion - Indian survey | Dr. Anjana B Ram | |
|  | Mohamed Abuthalha M | An objective method of quantifying vocal breathiness in normal and simulated conditions- a preliminary study | Dr. Yeshoda K | |
|  | Niranjana P | Exploration of vocal fatigue in trained carnatic singers using vocal fatigue index-version 2 (VFI-2) | Dr. Yeshoda K | |
|  | Patel Siddhi Deepak | Development of a manual for syntactic processing activities for persons with aphasia | Dr. Hema N | |
|  | Pradyumna M | Awareness and perception of developmental milestones of children upto 3 years of age among parents in urban setup | Dr. Jayashree C Shanbal | |
|  | Priyanka N | Development of multi-media manual for school teachers on voice and its disorders | Dr. Reuben T Varghese  Co-Guide: Dr. Rajasudhakar R | |
|  | Rini K R | Development of vocal education material for individuals with puberphonia | Dr. Jayakumar T | |
|  | Rushali Hemantkumar Thakar | Development of cognitive linguistic intervention manual in hindi for persons with dementia: An adaptation of CLIM- Malayalam | Dr. Goswami S P | |
|  | Shinsi Binth E K | Clinical tutorial on neurogenic stuttering for speech-language pathologists | Dr. Sangeetha M | |
|  | Sri Ranjani V | Acoustic voice quality index in young phononormals using SOVT- frication exercise: Comparison of pre-post training | Dr. Yeshoda K | |
|  | Sumathi N | Development of tasks and activities for cognitive training of adults with cognitive impairments | Dr. Venkatesan S  Co-Guide:  Dr. Hema N | |
|  | Syam Krishna V | Characteristics of clients voice disorders at AIISH: An ex post facto study | Dr. Rajasudhakar R | |
|  | Tanvi Rajesh Sanghavi | Assessment of pharyngeal dysphagia through fiberoptic endoscopic evaluation of swallowing: A tutorial | Dr. Swapna N | |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** | |
|  | Thanuja M | Self-rated and clinician-rated parameters of speech effort in stuttering | Dr. Anjana B Ram | |
|  | Thirumanjari K | Development of manual for visuo-spatial organization activities for persons with brain damage | Dr. Hema N | |
|  | Veda P | Development and validation of an online technique for assessment of stuttering in Kannada speaking adults | Dr. Ajish K Abraham  Co-Guide: Dr. Sangeetha M | |
|  | Vijayeshwari S | Effect of phonological and morphological factors on the frequency of stuttering in adults who stutter - A systematic review | Dr. Santosh M | |
|  | Vyshna Babu T | Development of vocal education material for older adults in Malayalam | Dr. Jayakumar T | |
|  | Yaazhini O D | Development of treatment manual for oral dysphagia | Dr. Swapna N | |
|  | Zainab Ismail | Development of cognitive linguistic intervention manual in English for persons with dementia: An adaptation of CLIM- Malayalam | Dr. Goswami S P | |

**Table 6: Ongoing Postgraduate Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| **Audiology** | | | |
|  | Abdul Bahis | Survey on utilization and satisfaction of hearing devices under Central Government schemes on parents of children’s with hearing impairment | Dr. Prawin Kumar |
|  | Adya Parmar | Efficacy of different clinical assessment measures of hyperacusis - a systematic review | Dr. Prashanth Prabhu P |
|  | Aishwarya N | Utility of suppression head impulse paradigm (shimp) in identifying peripheral vestibular disorders- A systematic review | Dr. Sujeet Kumar Sinha |
|  | Amar | Efficacy of TRT in treating hyperacusis - a systematic review | Dr. Ajith Kumar U |
|  | Aradhna | Neuromonics tinnitus treatment-a systematic review | Dr. Sreeraj K |
|  | Ashiq Abdul Rahman | Development of manual on counseling for individuals with subjective tinnitus. | Dr. Manjula P |
|  | Ashish | Influence of diabetes mellitus type 1 on auditory- vestibular functioning | Dr. Prawin Kumar |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
|  | Banumathi | A systematic review on auditory processing abilities in children with non-syndromic cleft lip/and palate | Dr. Chandni Jain |
|  | Bhuvaneshwari | The clinical significance of ECAP and ESRT in children with cohlear implant: a systematic review | Dr. Prawin Kumar |
|  | Brunda L Raj | Factors affecting early cochlear implantation in children | Dr. Geetha C |
|  | Chinnarasu J | Audiological findings and non-audiological correlates in individuals with acoustic neuroma-a systematic review | Dr. Devi N |
|  | Gayathri K | Examining the consequences of auditory neuropathy spectrum disorder from multidimensional perspective: An exploratory study using ICF classification | Dr. Prashanth Prabhu P  Co-guide:  Nisha K V |
|  | Gowthami B N | Intelligibility and quality of hearing aid processed speech: An objective comparison of prescriptive formulae | Dr. Nisha K V |
|  | Gurpreet | Cochlear impairment in individual with chronic renal dysfunction- a systematic review | Dr. Sreeraj K |
|  | Harshada | Speech perception in noise in musicians- a systematic review | Dr. Ajith Kumar U |
|  | Jayasree | Assessment of self-perceived skill set in clinical audiological evaluation among students of B.ASLP and masters in Audiology | Dr. Sandeep M |
|  | Malavika | Parental stress in caregivers/ parents of hearing impaired children: An exploratory study using ICF classification | Dr. Nisha K V |
|  | Monisha C | Auditory working memory measures in children with hearing impairment-a systematic review | Dr. Devi N |
|  | Nayana | Evaluation of current practice in online tinnitus management among audiologists in India; a questionnaire-based study | Dr. Mamatha N M |
|  | Nethra R | Effect of long term cochlear implant use on education and occupation: A systematic review | Dr. Geetha C |
|  | Nikhilesh H C | Pitch perception in infants and children-a systematic review | Dr. Devi N |
|  | Parmar Akshay | Translation and validation of APHAB (Gujarati version) for evaluating hearing aid benefits in adults | Dr. Mamatha N M |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
|  | Pooja | The outcomes of speech audiometry in various stages of Meniere’s disease: a retrospective study | Dr. NirajKumar Singh |
|  | Rhydhm | Test-retest reliability of pure tone audiometry from 250hz to 16khz | Dr. NirajKumar Singh |
|  | Ritwik | A retrospective study on audiological profiling of individual with age related hearing loss | Dr. Animesh Barman |
|  | Rohit | Influence of BPPV and md in cognitive abilities : A questionnaire based study | Dr. Animesh Barman |
|  | Sahana M B | A study of polar plots of microphones in hearing aids- an electroacoustic verification | Dr. Manjula P |
|  | Sahil | Comparison of hearing aid processed output of phonemes across different models and types of hearing aids. | Dr. Animesh Barman |
|  | Sajana Aryal | Exploring the Neuroaudiological pathophysiology of misophonia-a systematic review | Dr. Prashanth Prabhu P |
|  | Sandeep | A survey on the screening and diagnosis criteria of the auditory processing disorder in India | Dr. Chandni Jain |
|  | Sanjay | Assessment of satisfaction and compliance with hearing aids procured under HDDU | Dr. Sandeep M |
|  | Shashish Ghimire | Vestibular test findings on auditory neuropathy spectrum disorders: A systematic review | Dr. Sujeet Kumar Sinha |
|  | Shubam | Translation and validation of the self-administering vestibular disorder activities of daily living scales (VADL) | Dr. Mamatha N M |
|  | Sonam | Immittance measurements in individuals with Meniere’s disease: A retrospective study | Dr. NirajKumar Singh |
|  | Supriya Mathew | A systematic review on imaging findings in auditory neuropathy spectrum disorder | Dr. Chandni Jain |
|  | Sushmitha Upadhya | A systematic review on the effect of cochlear implantation on cognition in children | Dr. Geetha C |
|  | Teja G | Characteristics of subjective tinnitus in individuals with noise induced hearing loss (NIHL) - a systematic review | Dr. Sreeraj K |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
|  | Varsha | Relationship between motion sickness and peripheral vestibular dysfunction- A systematic review | Dr. Sujeet Kumar Sinha |
|  | Vibha Vinod | Comparison of nominal and measured compression thresholds and compression ratios in hearing aids, using electroacoustic measures | Dr. Manjula P |
|  | Yoshita Sharma | Comparison of SCAP-a outcomes between young and elderly adults with normal hearing sensitivity | Dr. Sandeep M |
| **Speech-Language Pathology** | | | |
| 41. | Aiswarya Sooraj | Master your concepts in vocal fold paralysis: A question bank for the learner | Dr. R. Rajasudhakar |
| 42. | Akash C | Vocal symptoms and psychological stress among school teachers in Mysuru: Consequences of shifting from offline to online mode | Dr. T. Jayakumar |
| 43. | Alfiya Khaleel | Self-perceived speech communication issues in students of speech-language pathology with and without nose and mouth covering respiratory protective masks | Dr. T. Jayakumar |
| 44. | Amit Shaw | The effect of humming on EGG parameters in young phononormic adults | Dr. K Yeshoda |
| 45. | Arzoo Shariff | Adaptation and validation of CHAOS questionnaire for Indian preschool children | Mr. Freddy Antony  Co-Guide:  Dr. Hema N |
| 46. | Athira V | Adaptation and validation of voice disorder outcome profile (V-DOP) in Malayalam language | Dr. T Jayakumar |
| 47. | Audrey Joyner Dsouza | Expectations from stuttering therapy: Qualitative content analysis of client's perspective in kannada speaking adults who stutter | Dr. M Santosh |
| 48. | Ayisha Nazir K | A scientometric review of articles published in the Journal Aphasiology in the year 2020 | Dr. S P Goswami |
| 49. | Bhavani Venkatachalam | Comparative study between grid-based and visual scene display based AAC systems in children with cerebral palsy | Dr. Ajish K Abraham  Co-Guide:  Dr. Reuben Thomas Varghese |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| 50. | Chandana S | Development and validation of functional assessment questionnaire for school-age  children with specific learning disability based on ICF-CY | Dr. Jayashree C S |
| 51. | Chheda Yasha Jitendra | Exploring feeding practices in typically developing young children in 3 districts of Maharashtra- a preliminary survey | Dr. Swapna N |
| 52. | Darshita K | Effect of chemical substance exposure on voice | Dr. R. Rajasudhakar |
| 53. | Darsitha S Alias Sneha S | Development of an automatic speech processing based procedure for assessment of stuttering in Malayalam speaking adults through virtual mode | Dr. Ajish K Abraham  Co-Guide:  Dr. Sangeetha Mahesh |
| 54. | Delvin Devassia | Development and validation of an online based flipbook on childhood communication disorders in Malayalam for school teachers | Dr. N Sreedevi |
| 55. | Devika Vijayan | Everything you ought to know on laryngo-pharyngeal reflux disease (LPRD) - a question bank for the learner | Dr.  R Rajasudhakar |
| 56. | Erica Mavis | Vocal fatigue in speech-language pathologists: An enquiry using vocal fatigue Index-Version 2 (VFI-2) | Dr. Yeshoda K |
| 57. | Gopika Vinod | A Scientometric review of articles published in the Journal Aphasiology in the year 2018 | Dr. S P Goswami |
| 58. | Guru Vignesh | Articulation abilities of children with hearing impairment using hearing aids and cochlear implants: A comparison in Telugu | Dr. N Sreedevi |
| 59. | Haripriya T | A scientometric review of articles published in the Journal Aphasiology in the year 2021 | Dr. S P Goswami |
| 60. | Hiba Sherin | Adaptation and validation of overall assessment of speaker's experience of stuttering-adult (OASES-A) in Malayalam language | Dr. Sangeetha M |
| 61. | Hithaishini C N | Development and validation of picture stimuli for speech elicitation in 2-5 year-old children | Dr. Sangeetha M |
| 62. | Ilakkiya T | Development and validation of online cognitive-linguistic training manual in English for children with learning disability | Dr. Jayashree C S |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| 63. | Jahnavi A | Parental perspective on stuttering: A qualitative content analysis | Dr. M. Santosh |
| 64. | Kale Ankita Deepak kumar | Development and validation of visual scene image dataset for Indian AAC users | Dr. Reuben Thomas Varghese  Co-Guide: Dr. R Rajasudhakar |
| 65. | Khateeja Naadia | Adaptation and validation of bedside WAB-R in Kannada for persons with aphasia | Dr. Hema N |
| 66. | Kiruthika S | Survey of knowledge and awareness regarding autism spectrum disorder among parents in Neyveli township, Cuddalore district of Tamil Nadu. | Dr. Anjana B Ram |
| 67. | Lunavath Swarna Naik | Exploring feeding practices in typically growing young children in three districts of Telangana: A preliminary survey | Dr. Swapna N |
| 68. | Madhurya B S | Development and validation of home training manual for persons who stutter in Kannada language | Dr. Sangeetha M |
| 69. | Mudra Prakash Dudwarkar | Adaptation and validation of bedside WAB-R in Marathi for persons with aphasia | Dr. Hema N |
| 70. | Navya Belpu | The effects of yoga on voice - a systematic review | Dr. K Yeshoda |
| 71. | Prakruthi V Jagatap | Code mixing and code-switching in Kannada English bilingual children | Dr. Jayashree C S |
| 72. | Prerna Jain | Exploring feeding practices in typically growing young children in three districts of Chhattisgarh: A preliminary survey | Dr. Swapna N |
| 73. | Swarna Lunavath | Exploring feeding practices in typically developing young children in three districts of Telangana- A preliminary survey | Dr. Swapna N |
| 74. | Ranjeet Gupta | Intervention techniques for speech sound disorder: A systematic review | Dr. N Sreedevi |
| 75. | Shinde Vrushali Madhukar | Development of articulation drill book for persons with cleft palate in Marathi | Dr. M Pushpavathi |
| 76. | Sruthi Ramesh K | A content analysis of youtube videos related to stuttering | Dr. M Santosh |
| 77. | Sujisha M S | Development of a screening checklist to assess problem behaviors in children with communication disorders | Mr. Freddy Antony  Co-Guide: Dr. Yeshoda K |
| **Sl. No.** | **Candidate** | **Topic** | **Guide** |
| 78. | Swathi C | Parent’s acceptance, experience, challenges and expectancy factors of AAC intervention for children with Autism spectrum disorder. | Dr. Reuben Thomas Varghese  Co-Guide: Dr.  T Jayakumar |
| 78. | Swathi S Sanjeevan | Development and validation of impact of stuttering treatment on quality of life (IST-QL): Post therapy assessment | Dr. Anjana B Ram |
| 79. | Trupti Lata Baral | Adaptation and validation of bedside WAB-R in Hindi for persons with aphasia | Dr. Hema N |
| 80. | Yasha Chedda | Exploring feeding practices in typically developing young children in three districts of Maharashtra- A preliminary survey | Dr. Swapna N |

**Scientific Presentations**

The faculty, staff and students of the Institute presented the following papers in scientific conferences and seminars during the reporting year.

1. Abraham, A.K. (2021). *Image-Based Assessment of Jaw Parameters and Jaw Kinematics for Articulatory Simulation: Preliminary Results*. Paper presented at Interspeech 2021 at Brno, Czech Republic.
2. Aishwarya N., Varsha Elizabeth Sam., Shashish Ghimire., Sujeet Kumar Sinha (2022). *Test-retest reliability of suppression Head impulse paradigm (SHIMP) test.* Paper presented at the 53rd ISHACON, AIISH, Mysuru.
3. Aishwarya N., Varsha Elizabeth Sam., Shashish Ghimire., Sujeet Kumar Sinha (2022). *The vestibule-ocular reflex gain difference in auto-calibration and manual calibration using Head impulse paradigm (HIMP) and suppression head impulse paradigm (SHIMP) in normal individuals.* Paper presented at the 53rd ISHACON, AIISH, Mysuru.
4. Alok Kumar Upadhyay (2022). *Preparedness of Educators to maintain Equity, Equality and accessibility of Learning resources for children with hearing impairment*, a paper presented at the One-day International E-Conference on Innovative Trends in Teaching, Learning and Assessment, organised by Institute of Professional Excellence and Management in collabration with Global Education Research Association, New Dehli.
5. Amulya, P.R., Pratima, S. & Sreedevi, N. (2021). *Frequency of consonant production errors in children with speech sound disorder: A retrospective descriptive study*. Paper presented at the 3rd SHAIWBCON, AYJNISHD, Regional Centre, Kolkata.
6. Ananya, K., Aishwarya, B., Mayuri Rao., Devi. N., Nisha, K. V., (2021). *Survey on hearing-related issues in children attending online classes.* Paper presented at the 1st AIISH Audiology Convention, Mysuru.
7. Anju R., Devi, Vijayalakshmi & Jayashree C. Shanbal (2021). *Effect of Tele- Rehabilitation on Speech and Swallowing Skills in Siblings with Ataxia-Telangiectasia- Case Study*. Paper presented at the Telemedicon 2021, Lucknow.
8. Antony, J.P. (2021). *A survey on protocol used for measuring outcomes after cochlear Implantation in children in India*. Paper presented at the Cochlear implant Group of India Conference 2021, Bengaluru.
9. Anu, P., Jyothi, R. & Sangeetha, M. (2022). *Efficiency and challenges of the articulation in persons with stuttering*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
10. Aparna K. M., Namitha K, Alka G. & Prabhu, P. (2022). *Assessment of binaural integration and temporal ordering in singers and non-singers*. Paper presented through virtual mode at the International symposium of Frontiers of Research in Speech and Music, Pune.
11. Arunraj, K., Sreedevi, N., Christy Sebastian & Vasanthalakshmi, M.S. (2021). *An Epidemiological study on Noise induced hearing loss in India*. Paper presented at the 1st AIISH Audiology Convention, Mysuru.
12. Arunraj, K., Srividya, S., Ankitha, S., Spoorthi, T., Vasanthalakshmi, M.S., Sreedevi, N. & M Pushpavathi (2021). *Prevalence of communication disorders among school children and adolescents in southern Karnataka*. Paper presented at the 1st AIISH Audiology Convention, Mysuru.
13. Ashish Kumar Gupta, Yashwanth Kumar, Rajesh Kumar, Niraj Kumar Singh (2022). *The effect of middle ear resonance and absorbance on frequency tuning of cervical vestibular-evoked myogenic potentials.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
14. Ayishath, R., Apoorva, G., Aswathy, R. N., Vikas, M. D., & Chandni Jain. (2021). *Importance of test battery in the diagnosis of ANSD.* Paper presented at AUDISHCON 2021, Bengaluru.
15. Brajesh Priyadarshi (2021). *Development and Standardization of Sentences of Auditory Language Processing*. Paper presented at the 43rd International Conference of the Linguistic Society of India, Mysuru.
16. Chaithra, M., Rajesh Kumar., Kumari Apeksha., Vipin, P.G., Niraj Kumar Singh. & Prawin Kumar (2022). *Sub-cortical processing of speech in individuals with controlled type 2 Diabetic mellitus.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
17. Devi Vijayalakshmi, Anju R., & Jayashree C Shanbal (2021). *Tele-rehabilitation in a Patient with Motor Neurone Disease- A Case Study.* Paper presented at the Telemedicon 2021, Lucknow.
18. Deepashree Ramachandra., & Ajith Kumar, U. (2022). *Relationship between auditory braintem responses and red-blood cell indices in new-born babies.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
19. Divya, S., & Sangeetha, M. (2022). *Adaptation and validation of overall assessment of speakers experience of stuttering in adults who stutter to Kannada language*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
20. Diya, E.S.D., Hidaya, J., Diya, M. & Prabhu, P. (2022). *Maturation of binaural integration abilities: A cross sectional study across age*. Paper presented through virtual mode at the International symposium on Audiological Medicine.
21. Fathima, T P O., Aswathy R N., Fathima, S S A P. & Prabhu, P. (2022). *Maturation of Temporal Ordering Abilities – A Cross Sectional Study Across Children, Adolescents and Adults*. Paper presented through virual mode at the International symposium of Frontiers of Research in Speech and Music, Pune.
22. Ganeshan, A. & Prabhu, P. (2021). *Effectiveness of hearing aid amplification strategies for perception of music*. Paper presented at the 16th International Conference on Music processing and Cognition, Sheffield, UK.
23. Hannah Thomas & Mamatha N.M. (2021). *Tele rehabilitation for a child with hearing loss.* Paper presented at the Telemedicon 2021, Lucknow.
24. Hema, N., Ameena, S. & Prabhu, P. (2022). *Comparison Binaural Integration Abilities Between Guitarists and Vocalists – A Cross Sectional Study*. Paper presented through virtual mode at the International symposium of Frontiers of Research in Speech and Music, Pune.
25. Hemanth, K. S., Ines, P., Gowri, J. S., Havya, S. M., Devi, N. & Jyothi, S. (2021). *Survey on the adverse effect of use of mask due to COVID-19 pandemic on speech perception in children with hearing impairment.* Paper presented at the 1st AIISH Audiology Convention, Mysuru.
26. Hemanth Kumar, S., Havya sree, M., J.S Gowri., Ines Parvin. & Devi, N. (2022). *Questionnaire based survey on adverse effect of the use of mask due to Covid-19 pandemics on speech perception in adults.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
27. Indira, C.P., & Sandeep Maruthy (2022). *Qualitative analysis of help seeking behavior for pediatric hearing in India reveals three A’s.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
28. Jayashree C Shanbal, & Archana U (2021). *Polyglot aphasia secondary to left Fronto – Parietal Tumor: A case study on tele-rehabilitation*. Paper presented at the 59th Annual meeting of Academy of Aphasia, USA.
29. Jayashree, S., Prakash Boominathan., & Ajith Kumar, U. (2022). *Do preterm infants exhibit set-backs in auditory development?.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
30. Joanna, K. B. & Prathima, S. (2021). ***Oral-motor and speech therapy for young onset parkinson’s disease: A case study*. Paper presented at the** 4th Asia Oceanian Congress on Neuro Rehabilitation, Mumbai.
31. Jyothi, S., Maruthy, S., Barman, A. (2021). *Comparison of articulation rate and speech rhythm between child-directed speech versus adult-directed speech*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
32. Kalarikkal, G., Jayasree, G. K., Bahis, A., Nisha, K. V. & Prabhu, P. (2021). *A probe into problems and life effects in auditory neuropathy spectrum disorder using the ICF classification*. Paper presented at the 8th International Symposium on Auditory and Audiological Research, Technical University of Denmark, Denmark.
33. Karuppannan, A. (2021).*Wideband absorbance tympanometry in ears with middle ear effusion and tympanic membrane perforation.* Paper presented at the1st AIISH Audiology Convention, Mysuru.
34. Krithi Arora., Sandeep Maruthy (2022). *Effect of type of stimuli on the benefit derived from Envelope enhancement of speech in individuals with auditory neuropathy spectrum disorder (ANSD).* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
35. Kumar, A. U. & Gafoor, A.S. (2021). *Articulatory Rehearsal Auditory Working Memory performance: Effect of oral Anesthesia.* Paper presented at the 1st AIISH Audiology Convention, Mysuru.
36. Kumar, P., Vikas, M. D. & Nivedha, R. (2021). *Comparison of preferred number of channels of hearing aids across different age groups*. Paper presented at the 8th International Symposium on Auditory and Audiological Research, Technical University of Denmark, Denmark.
37. Kumar., P, Singh, N. K., Keshar., N. K., Kasera., S. & Nayana, M. (2021). *Saturation of map parameters in children with cochlear implants: effects of time since implantation and age*. Paper presented at the 18th Cochlear implant Group of India Conference, Bengaluru.
38. Lokwani, P. & Nisha, K.V. (2021). *Consequences of varying onset of auditory neuropathy spectrum disorder on acoustical and perceptual quality of voice.* Paper presented at the 1st AIISH Audiology Convention, Mysuru.
39. Malavika P., Gayathri K., Nisha KV. & Prashanth Prabhu, P. (2022). *Parental stress in caregivers/Parents of hearing impaired children: An exploratory study using ICF classification.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
40. Manohar, N. (2021). *Efficiency of computerized trainings for Kannada speaking children with hearing impairment*. Paper presented at the Kannada Vignana Sammelana, Mangalore.
41. Manasa, A.S., & Sangeetha, M. (2022). *Treatment outcome of group therapy project in adults who stutter using computerized therapy material*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
42. Mayuri Rao, Simran Banga, Usha Devadas, & Santosh Maruthy.  *Carnatic Classical Singers' interest and Knowledge Levels of Vocal Function and Dysfunction: A Crosss-sectional Survey*. Paper presented through virtual mode at the International Symposium on Frontiers of Research in Speech and Music, Pune.
43. Megha, & Jawahar Antony, P., (2021). *Profile of Audiological assessment for cochlear implant candidacy in children in India*. Paper presented at the 18th Cochlear implant Group of India Conference, Bengaluru.
44. Muthu Karthik, L., Sreeraj, K., Nisha, K.V. (2022). *An exploratory study on problem and life effects in individuals with noise induced hearing loss: An ICF based study.* Paperpresented through virtual mode at the National hearing Conservation Association (NHCA 2022).
45. Muthu Karthick, L., Nisha, K.V., Spoorthi, T. (2022). *Awareness of role of Audiologist in hearing health care: A survey among rural health care workers.*  Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
46. Nayana, M. & Prawin Kumar (2022). *Relationship between voice emotion recognition and psychoacoustic measures in individuals with hearing impairment.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
47. Nisha, K.V., Devi, N. & Nishanth, N. (2021). *Musicality: Innateness and predictors*. Paper presented at the 16th International Conference on Music Processing and Cognition, Sheffield, UK.
48. Parmar, A., Shiju, A. M., Naina, J. & Prabhu, P. (2021). *Do musicians have better binaural auditory processing: An exploratory cross-sectional study*. Paper presented at the 16th International Conference on Music Processing and Cognition, Sheffield, UK.
49. Prashanth, R., (2021). *Mothers of children with communication disorders – Basic awareness on government measures*. Paper presented through virtual mode at the International conference on Women Empowerment Language Studies And Social Sciences 2020-22.
50. Prathibha, A.K.S., Nisha, K.V. & Kumar, A.U. (2021). *Evaluation of hearing aid benefit in children with ANSD and SNHL*. Paper presented at the 8th International Symposium on Auditory and Audiological Research, Technical University of Denmark, Denmark.
51. Prithi, V. & Anil A (2022). *Challenges faced by teacher\_trainees in Skill Acquisition during the COVID-19 pandemic*. Paper presented at the 9th Online National Conference on Inclusive Education held on 21st and 22nd March 2022, Tata Institute of Social Sciences, Mumbai and the Brotherhood, New Delhi.
52. Rajesh Kumar., Niraj Kumar Singh (2022). *The effect of electrode montage on Air-conducted ocular vestibular-evoked myogenic potential: normative values and test-retest reliability.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
53. Raveendran, E. R., Mayuri Rao, R., Nidha, K., Namitha, K., Nisha, K.V., & Prabhu, P. (2021). *Audiological profiling in an adolescent female post-kawasaki disease.* Paper presented at the AUDISHCON 2021, Bengaluru.
54. Roja Rani, M., Swapna, N., & Syam Krishna, V. (2022). *Effortful swallow training: impact on labial strength and endurance and swallowing capacity in typical young adults*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
55. Sabin Sharma, Archana U. & Jayashree C Shanbal (2021). *Oro-pharyngeal dysphagia in parkinsonism: A case study on tele-rehab.* Paper presented at the Telemedicon 2021, Lucknow.
56. Sahana V., & Ajith Kumar (2022). *Middle ear muscle reflex in normal-hearing individuals with occupational noise exposure.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
57. Sandeep Kumar., Banumathi., Supriya Mathew., Kishore Tanniru., Chandni Jain (2022). *Comparison of various psychoacoustic measures using two software: PSYCON and maximum likelihood procedure in MATLAB.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
58. Sanjana, & Nisha, K.V. (2021). *Exploring the difference in auditory special processing between instrumental and vocal musician’s*. Paper presented at the 16th International Conference on Music processing and Cognition, Sheffield, UK.
59. Seth, D. & Maruthy, S. *Parent-related outcome measures for intervention of stuttering in preschool children who stutter*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
60. Shalabha Ammu Mathew., Arena Varan., Jyothi, S., Devi, N., Nisha, K V. (2022). *Survery on Parental Satisfafction on tele and face-to-face listening therapy during Covid-19 Pandemic.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
61. Shezeen Abdul Gafoor., & Ajith Kumar, U. (2022). *Interactions within the human auditory efferent system.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
62. Singh, N. K. (2021). *Identifying safe stimulus Intensity for Recording Cervical Vestibular-Evoked Myogenic*. Paper presented at the 1st AIISH Audiology Convention, Mysuru.
63. Sreedevi, N. (2021). *Pre and post-natal risk factors for communication disorders*. Paper presented at the National Women’s Science Congress, Bengaluru.
64. Sridhar, S., Sushma, M., Nisha, K. V., & Pushpavathi, M. (2021). *Top down and bottom-up Auditory Processing in Children with Consequences of varying onset of Auditory Neuropathy Spectrum Disorder on Acoustical and perceptual Quality of Voice*. Paper presented at the 1st AIISH Audiology Convention, Mysuru.
65. Syam, K., Kusuma, & Gayathri, K. (2022). *Awareness of safe feeding practices among expecting and new Indian mothers: A tele-survey*. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
66. Tanuja, M.N., & Prawin Kumar (2022). *Speech perception in noise among individuals with type 2 Diabetes Mellitus.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
67. Thammaiah, S. (2021). *Meningitis with hearing loss post COVID 19: A single case study.* Paper presented at AUDISHCON 2021, Bengaluru.
68. Umashankar, A., Bhatarai. P., Saranya, M. & Prabhu, P. (2021). *Evaluation of envelope regularity discrimination abilities in musicians and non-musicians*. Paper presented at the 16th International Conference on Music processing and Cognition, Sheffield, UK.
69. Vaishnavi Ramadas., Ramya V., Ajith Kumar, U. (2022). *Perception of Tamil matrix sentence test in noise by normal hearing young adults.*  Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
70. Vasupradaa, M., Manchaiah, V., & Maruthy, S**.** Positive experiences related to stuttering: A qualitative content analysis. Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
71. Vikas, M D., Nisha, K V., Gowthami, B. (2022). *Effect of Covid on communication strategies adopted by older hearing aid users.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
72. Vinayagar, P T., & Sujeet Kumar Sinha (2022). *Assessment of vestibular system in individuals with chronic supportive otitis media (CSOM) using subjective visual vertical (SVV) test and Dizziness Handicap Inventory (DHI).* Paper presentedat the 53rd ISHACON held at AIISH, Mysuru.
73. Vineetha Sara Philip & Goswami, S.P. (2021). *Effect of grid size and grammatical category of referents on identification of symbols in  
    persons with aphasia and neurotypical adults*. Paper presented at the 59th Annual Meeting of Academy of Aphasia, USA.
74. Yashaswini L. & Sandeep M. (2022). *Influence of musical abilities on categorical perception of music stimuli.* Paper presented at the 53rd ISHACON held at AIISH, Mysuru.
75. Yeshoda, K. Sreelakshmi, S. & Prabhu, P. (2022). *Evaluation of temporal processing abilities in individuals with hypertension*. Paper presented through virtual mode at the International Symposium on Audiological Medicine.

**Scientific Publications**

The faculty, staff and students of the Institute published the following papers in scientific journals during the reporting year.

1. Antony, J, P. & Barman, A. (2021). Auditory stream segregation with sinusoidally amplitude modulated tonal stimuli in individuals with sensorineural hearing loss. *Journal of Hearing Science*, 11(1), 31-39. <https://doi.org/10.17430/JHS.2021.11.1.3>.
2. Banerjee, N. & Prabhu, P. (2021). Evaluation of auditory stream segregation in individuals with cochlear pathology and auditory neuropathy spectrum disorder. *Auditory and Vestibular Research*, 30(3), 176-182.
3. Bhat, P.J. & Krishna, R. (2020). Pitch coding in vocalists and non-musicians to carnatic music stimuli: A frequency following response (FFR) study. *Journal of audiology & otology,* 25(3),131-137. [https://doi.org/10.7874/jao.2 021. 00115](https://doi.org/10.7874/jao.2%20021.%2000115).
4. Brajesh Priyadarshi & Goswami, S.P. (2021). Sequential acquisition of psycholinguistics and perceptual skills in Hindi speaking children. *Indian Linguistic Journal of the Linguistic Society of India*, 81 (3-4), 95-109.
5. Chundu, S., Allen, P, M., Han, W., Ratinaud, P., Krishna, R. & Manchaiah, V. (2021). Social representation of hearing aids among people with hearing loss: an exploratory study. *International Journal of Audiology*, 60 (12), 964-978. <https://doi.org/10.1080/14992027.2021.1886349>.
6. [Darshan](https://www.e-cacd.org/articles/search_result.php?term=author&f_name=Hosaholalu%20Sarvajna&l_name=Darshan), H.S. & [Goswami](https://www.e-cacd.org/articles/search_result.php?term=author&f_name=Satyapal%20Puri&l_name=Goswami), S.P. (2021). Statistical learning and its consolidation in persons with aphasia. *Journal of Clinical Archieves of Communication Disorders,* 6(1), 28-38.
7. Devi, N., Fakruddin, D. B., Nagaraju, B., Belpu, N., Raj, B. L. & Ravi, J. A. (2021). Comparison of responses of parents of hearing and hearing impaired children for the questionnaire 'awareness of aspects related to hearing'. *International Journal of Contemporary Pediatrics*, 8998 - 1005. https:// doi. org /10.18203/2349-3291.ijcp20212038.
8. Geetha, C., Sharath Kumar, K. S., Manjula, P. & Pavan, M. (2021). Assessment of the clinical utility of the sentence identification test in Kannada for adults. *Journal of Hearing Science*, 11(3), 32-37. [https://doi.org/10.17430/ JHS.2021.11.3.4](https://doi.org/10.17430/%20JHS.2021.11.3.4).
9. Geetha, C., Devi, N. & Ravirose, U. (2022). [Development, standardization, and validation of bisyllabic phonemically balanced Tamil word test in quiet and noise](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=HUT52rMAAAAJ&citation_for_view=HUT52rMAAAAJ:B3FOqHPlNUQC)*. Journal of Hearing Science* 11 (4), 42-47 DOi: 10.17430/JHS 20 21.22.4.5
10. Geetha, C., Chandni, J. & Keershi, S. P. (2022). [relationship between auditory processing abilities and hearing aid benefit in elderly individuals with hearing impairment](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=HUT52rMAAAAJ&citation_for_view=HUT52rMAAAAJ:sSrBHYA8nusC). *Auditory and Vestibular Research*, 31(3),1-14.
11. Girish, K.S., Pushpavathi, M., Abraham, A.K. & Vikram, C.M, (2022). Automatic speech processing software – New sensitive tool for the assessment of nasality: A preliminary study. *J Cleft Lip Palate Craniofac Anomal*, 9, 14‑23.
12. Jain, C., Gangadharan, V. P. G., Basavaraja, K. C. & Lakshmi, A. (2021). Relationship between peripheral and central auditory abilities and iron deficiency anemia in adolescent girls. *American journal of Audiology*, 1–11. Advance online publication. <https://doi.org/10.1044/2021_AJA-21-00036>.
13. Jayakumar, T., Rajasudhakar, R. & Jesnu, J.B. (2022). Comparison and Validation of Acoustic Voice Quality Index Version 2 and Version 3 among South Indian Population. *Journal of Voice.* https://doi.org/10.1016/ j.jvoice.2022.02.019.
14. Kumar, P., Singh, N. K. & Hussain, R, O. (2021). Effect of speech in noise training in the auditory and cognitive skills in children with auditory processing disorders. *International Journal of Pediatric Otorhinolaryngology*, 146, 110735. <https://doi.org/10.1016/j.ijporl.2021.110735>.
15. Kumar, D. S., Mahendra, S., Devi, N. & Jain, C. (2021). Medial olivocochlear functioning and speech perception in noise in individuals with polycystic ovary syndrome. *Journal of Indian Speech, Language Hearing Association;* 35:39-43.
16. Manchiah, V., Nisha, K.V., Prabhu, P., Granberg, S., Elin, K., Gerhard, A. & Eldre, WB. (2021). Examining the consequences of tinnitus using the multi-dimensional perspective, *Acta Oto-Laryngologica*, [https://doi.org/10.1080/ 00016489.2021.2019307](https://doi.org/10.1080/%2000016489.2021.2019307).
17. Manjunath, S., Pushpavathi, M. & Sankar, R.G. Impact of articulation therapy on perceptual characteristics of bilabials in children with repaired cleft lip and palate. *J Cleft Lip Palate Craniofac Anomal*  9,7-13.
18. Nair, C.B., Nayak, S., Maruthy, S., Krishnan, J.B. & Devadas, U. (2021). Prevalence of voice problems, self-reported vocal symptoms and associated risk factors in call center operators (CCOs): A systematic review. *Journal of Voice*. [https://doi.org/10.1016 /j.jvoice. 2021.07.022](https://doi.org/10.1016%20/j.jvoice.%202021.07.022).
19. Neelesh, B., Krishna, R. & Kumar, V. (2021). Impact of more than three years of Carnatic music training on the working memory: an ERP study. *Hearing Balance and Communication*, 19(3), 1-8. [https://doi.org/10.1080/ 21695717. 2021.1943782](https://doi.org/10.1080/%2021695717.%202021.1943782).
20. Nisha K.V., Sanjana, M., Rohit, V.S., Krishna, R. & Prabhu, P. (2021). Profiles and predictors of auditory functioning in abacus–trained children. *International Journal of Pediatric Otorhinolaryngology*, 142. 110608. https:// doi.org/10.1016/j.ijporl.2021.110608.
21. Nisha, K V., Devi, N., Nayagam, N. N., Winston, J. S. & Anil, S. P. (2021). Musical aptitude as variable assessment of working memory and selective attention tasks. *Journal of Audiology and Otology*, 25(4),178-188. <https://doi.org/10.7874/jao.2021.00171>.
22. Nisha, K. V., & Kumar, A. U. (2022). Effects of Spatial Training Paradigms on Auditory Spatial Refinement in Normal-Hearing Listeners: A Comparative Study. *Journal of audiology & otology*, 10.7874/jao.2021.00451. <https://doi.org/10.7874/jao.2021.00451>.
23. Pallickal, M., Deepak, P., Abhishek, B.P., & Hema, N. (2022). An Exploration of Cohesion and coherence skills in neuropsychiatric disorder: Speech-language pathologist perspective. *Journal of Schizophrenia Research – Vol: 8(1).*
24. Prabhu, P., Jasiya K.M., Joshi., K. & Nisha, K.V. (2021). Contralateral suppression of spontaneous otoacoustic emissions in individuals with auditory neuropathy spectrum disorder. *International Journal of Advanced Otology*, 17(4), 325-329. <https://doi.org/10.5152/iao.2021.9098>.
25. Prajna, B. & Krishna, R. (2021). Effect of listening biographies on FFR responses of vocalists and non-musicians to Indian carnatic music stimuli. *Journal of Audiology & Otology,* 25(3), 131-137. https:// doi.org/110.7874/ jao.2021.00115.
26. Prakash, P., Jayan, A. & Prabhu, P. (2021). Effects of diurnal changes on temporal processing in morning-type and evening-type individuals with normal hearing. *European Archives of Oto-Rhino-Laryngology*, 278, 3073–3079. <https://doi.org/10.1007/s00405-021-06605-y>.
27. Prithi Venkatesh & Dhivya, D. (2021). Universal Curricular Design in Science. Are We Meeting The 21st Century Requirements?. *Journal of Indian Education*, 7-17.
28. Prithi V., & Dhivya, D. (2021). Ensuring quality assurance in technical and vocational education. towards excellence, 13(4), 109-129. (journal name ??)
29. Qudsiya, R., Kashyap, P. & Brajesh Priyadarshi (2021). A comparative study of reaction time in children with learning disability and typically developing children. *Journal of Child Language Acquisition and Development*, 9(4), 385-393.
30. Raza, A. F., Paudel, D. R. & Nisha, K. V. (2021). Audiological profiling and rehabilitation outcomes in a child with johanson-blizzard syndrome. *Journal of Audiology and Otology*, [https://doi.org/ 10.7874/ jao.2021.00444.](https://doi.org/%2010.7874/%20jao.2021.00444.%20)
31. Sangu, S. V., Singh, N. K. & Krishna, R. (2021). Tone burst masseter vestibular evoked myogenic potentials: Normative values and test –retest reliability. *Journal of the American Academy of Audiology*, 32(5):308-314. https:// doi.org/10.1055/s-0041-1728718.
32. Sannamani, K. G., Chakraborty, M., Devi, N. & Prabhu, P. (2021). Assessment of distortion product otoacoustic emissions input-output function in individuals with and without musical abilities. *Audiology and Vestibular Research,* 31(1),23-9. <https://doi.org/10.18502/avr.v31i1.8131>.
33. Sreenivasan, A., Krishna, R., Nair, P.P., Kasinathan, A. & Alexander A. (2020). Evaluation of auditory spectral resolution abilities in children with benign epilepsy with centro-temporal spikes using spectral temporally modulated ripple test. *Epilepsy & Behavior*, 114 (Pt A), 107620. [https://doi.org/10.1016/ j.yebeh.2020.107620](https://doi.org/10.1016/%20j.yebeh.2020.107620).
34. Srinivasan, V.S., Krishna, R. & Munirathinam, B R. (2021). Effectiveness of Brainstem auditory evoked potentials scoring in evaluating brainstem dysfunction and disability among individuals with multiple sclerosis. *American Journal of Audiology*, 30(2), 255–265. [https://doi.org/10.1044/ 2020\_AJA-20-0015](https://doi.org/10.1044/%202020_AJA-20-0015).
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**Books / Book Chapters**

The faculty, staff and students of the Institute published the following books and book chapters during the reporting year.

1. Brajesh Priyadarshi, Goswami, S.P., Shilpa, N. & Srushti, S. (2021). *An Adaptation of Bankson’s Language Screening Test in Hindi, (BLST: H*) All India Institute of Speech and Hearing.
2. Gopi Sankar (2021). *Referral sources, medical examination and team approach; Protocol for voice assessment: components and philosophies (ICF, ICD); Principles of instrumental measurements,* Indian Speech and Hearing Association.
3. Goswami, S. P., Spoorthy, N. & Gayathri K. (ed.) (2021). *Community Integration Questionnaire-Revised*. All India Institute of Speech and Hearing, Mysuru.
4. Gupta, S. K. (2021). *Meditation, Mindfulness, and Mental Health: Opportunities, Issues, and Challenges*. *In* S. K. Gupta (Ed.). (2021). Handbook of Research on Clinical Applications of Meditation and Mindfulness-Based Interventions in Mental Health. Hershey, PA: IGI Global.
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14. Vasantha Lakshmi, M.S., Dr. Sreedevi, N., Arunraj, Sandeep, M., Spoorthi, T., Srividya & Ankitha (2022). *School screening report on communication disorders: At-risk prevalence rate of hearing and speech language disorders in schoold children.* All India Institute of Speech and Hearing.
15. ………………….Newborn screening report (yet to get the information from POCD)